Level C Data Package Deliverables

# Metals

Applied P & Ch Laboratory

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/23/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03M1360-MB-01 | Received Date: | 04/23/2003 |
| Sample ID: | **03M1360-MB-01** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Method Blank | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | < 200 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | < 50 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | < 100 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 49.3 | B | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | < 2000 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-1 | Received Date: | 04/21/2003 |
| Sample ID: | **DUPE-1-2Q03** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 24500 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 231 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 11900 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 1930 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 37500 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-2 | Received Date: | 04/21/2003 |
| Sample ID: | **EB-2-4/21/03** | Sample Matrix | Water | Moisture %: | - |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | < 200 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | < 50 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | < 100 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 80.7 | B | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 398 | B | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

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# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-3 | Received Date: | 04/21/2003 |
| Sample ID: | **MW-4-1** | Sample Matrix | Water | Moisture %: | - |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | <5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 54200 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 274 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 17700 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 2510 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 19100 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control
W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

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# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-4 | Received Date: | 04/21/2003 |
| Sample ID: | **MW-4-2** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | <5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 115000 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 592 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 39300 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 2990 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 32500 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-5 | Received Date: | 04/21/2003 |
| Sample ID: | **MW-4-3** | Sample Matrix | Water | Moisture %: | - |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 38200 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 6410 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 16100 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 2320 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 32700 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-6 | Received Date: | 04/21/2003 |
| Sample ID: | **MW-4-4** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | <5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 24500 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 243 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 11800 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 1920 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 37000 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-7 | Received Date: | 04/21/2003 |
| Sample ID: | **MW-4-5** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | 16400 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | 1280 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | 11200 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 1930 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 37000 | | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

# Metal Analysis Results

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Collection Date: | 04/21/2003 |
| Project ID: | JPL | Service ID: | 32809 | Collected by: | |
| | | Lab Sample ID: | 03-2809-8 | Received Date: | 04/21/2003 |
| Sample ID: | **SOURCE-2Q03** | Sample Matrix | Water | Moisture %: | – |
| Sample Type: | Field Sample | | | | |

| Element Name | CAS No | Unit | RL | Result | C | M | Q | Batch | D-Date | A-Date | DF | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARSENIC | 7440-38-2 | µg/L | 5 | < 5 | U | F | | 03M1360E | 04/23/03 | 04/23/03 | 1 | 200.9 |
| CALCIUM | 7440-70-2 | µg/L | 200 | < 200 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| IRON | 7439-89-6 | µg/L | 50 | < 50 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| MAGNESIUM | 7439-95-4 | µg/L | 100 | < 100 | U | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| POTASSIUM | 7440-09-7 | µg/L | 400 | 66.7 | B | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |
| SODIUM | 7440-23-5 | µg/L | 2000 | 341 | B | P | | 03M1359M | 04/23/03 | 04/23/03 | 1 | 200.7 |

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

FORM-2A Metal

Applied P & Ch Laboratory

# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Instrument: | GFAA-E | Method: | 200.9 |
| Batch No.(s): | 03M1360 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | ICV 12:59 True | Result | %R | CCV 14:17 True | Result | %R | CCV 15:33 True | Result | %R | CCV 16:50 True | Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 50.0 | 47.60 | 95.2 | 50.0 | 55.10 | 110.2 | 50.0 | 55.10 | 110.2 | 50.0 | 55.50 | 111.0 |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

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# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Instrument: | GFAA-E | Method: | 200.9 |
| Batch No.(s): | 03M1360 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCV True | 17:09 Result | %R | True | Result | %R | True | Result | %R | True | Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 50.0 | 57.00 | 114.0 | | | | | | | | | |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | ICV True | 11:24 Result | %R | CCV True | 11:43 Result | %R | CCV True | 11:54 Result | %R | CCV True | 12:33 Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 10000.0 | 9774.00 | 97.7 | 5000.0 | 5223.66 | 104.5 | 5000.0 | 5033.43 | 100.7 | 5000.0 | 4950.45 | 99.0 |
| 2 | Antimony | 4000.0 | 3883.28 | 97.1 | 2000.0 | 2009.98 | 100.5 | 2000.0 | 1994.01 | 99.7 | 2000.0 | 1996.02 | 99.8 |
| 3 | Arsenic | 1000.0 | 981.45 | 98.1 | 500.0 | 509.99 | 102.0 | 500.0 | 501.77 | 100.4 | 500.0 | 498.78 | 99.8 |
| 4 | Barium | 10000.0 | 9792.47 | 97.9 | 5000.0 | 5250.31 | 105.0 | 5000.0 | 5111.10 | 102.2 | 5000.0 | 5057.68 | 101.2 |
| 5 | Beryllium | 1000.0 | 983.49 | 98.3 | 500.0 | 509.46 | 101.9 | 500.0 | 501.76 | 100.4 | 500.0 | 492.60 | 98.5 |
| 6 | Cadmium | 2000.0 | 1942.34 | 97.1 | 1000.0 | 1021.72 | 102.2 | 1000.0 | 995.06 | 99.5 | 1000.0 | 993.63 | 99.4 |
| 7 | Calcium | 100000.0 | 97328.92 | 97.3 | 50000.0 | 51247.07 | 102.5 | 50000.0 | 49631.68 | 99.3 | 50000.0 | 49280.38 | 98.6 |
| 8 | Chromium | 1000.0 | 978.77 | 97.9 | 500.0 | 520.08 | 104.0 | 500.0 | 506.53 | 101.3 | 500.0 | 496.93 | 99.4 |
| 9 | Cobalt | 4000.0 | 3877.78 | 96.9 | 2000.0 | 2063.73 | 103.2 | 2000.0 | 2009.00 | 100.4 | 2000.0 | 2002.89 | 100.1 |
| 10 | Copper | 4000.0 | 3906.53 | 97.7 | 2000.0 | 2049.70 | 102.5 | 2000.0 | 1996.53 | 99.8 | 2000.0 | 1998.04 | 99.9 |
| 11 | Iron | 10000.0 | 9747.40 | 97.5 | 5000.0 | 5254.37 | 105.1 | 5000.0 | 5062.61 | 101.3 | 5000.0 | 4976.39 | 99.5 |
| 12 | Lead | 1000.0 | 969.99 | 97.0 | 500.0 | 511.64 | 102.3 | 500.0 | 508.77 | 101.8 | 500.0 | 517.01 | 103.4 |
| 13 | Magnesium | 50000.0 | 48838.58 | 97.7 | 25000.0 | 26160.14 | 104.6 | 25000.0 | 25361.19 | 101.4 | 25000.0 | 25083.50 | 100.3 |
| 14 | Manganese | 4000.0 | 3916.70 | 97.9 | 2000.0 | 2060.43 | 103.0 | 2000.0 | 2033.99 | 101.7 | 2000.0 | 2005.27 | 100.3 |
| 15 | Nickel | 4000.0 | 3852.50 | 96.3 | 2000.0 | 2067.09 | 103.4 | 2000.0 | 2016.93 | 100.8 | 2000.0 | 2008.05 | 100.4 |
| 16 | Potassium | 30000.0 | 29992.53 | 100.0 | 15000.0 | 15432.92 | 102.9 | 15000.0 | 15347.73 | 102.3 | 15000.0 | 14880.25 | 99.2 |
| 17 | Selenium | 1000.0 | 973.35 | 97.3 | 500.0 | 520.31 | 104.1 | 500.0 | 520.95 | 104.2 | 500.0 | 516.02 | 103.2 |
| 18 | Silver | 2000.0 | 1962.92 | 98.1 | 1000.0 | 1020.06 | 102.0 | 1000.0 | 993.46 | 99.3 | 1000.0 | 978.14 | 97.8 |
| 19 | Sodium | 200000.0 | 198146.50 | 99.1 | 100000.0 | 102989.66 | 103.0 | 100000.0 | 99973.70 | 100.0 | 100000.0 | 98182.82 | 98.2 |
| 20 | Thallium | 1000.0 | 972.73 | 97.3 | 500.0 | 514.61 | 102.9 | 500.0 | 507.11 | 101.4 | 500.0 | 504.44 | 100.9 |
| 21 | Vanadium | 4000.0 | 3929.28 | 98.2 | 2000.0 | 2082.29 | 104.1 | 2000.0 | 2024.02 | 101.2 | 2000.0 | 1988.06 | 99.4 |
| 22 | Zinc | 4000.0 | 3882.15 | 97.1 | 2000.0 | 2048.81 | 102.4 | 2000.0 | 2003.50 | 100.2 | 2000.0 | 1987.21 | 99.4 |
| 23 | Molybdenum | 4000.0 | 3901.90 | 97.5 | 2000.0 | 2058.61 | 102.9 | 2000.0 | 2005.06 | 100.3 | 2000.0 | 1988.23 | 99.4 |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCV True | 13:11 Result | %R | CCV True | 13:41 Result | %R | CCV True | 14:19 Result | %R | CCV True | 15:16 Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 5000.0 | 5039.81 | 100.8 | 5000.0 | 5009.48 | 100.2 | 5000.0 | 5073.07 | 101.5 | 5000.0 | 4959.27 | 99.2 |
| 2 | Antimony | 2000.0 | 2015.21 | 100.8 | 2000.0 | 2008.15 | 100.4 | 2000.0 | 2026.45 | 101.3 | 2000.0 | 2036.08 | 101.8 |
| 3 | Arsenic | 500.0 | 497.72 | 99.5 | 500.0 | 497.59 | 99.5 | 500.0 | 498.13 | 99.6 | 500.0 | 496.49 | 99.3 |
| 4 | Barium | 5000.0 | 5139.17 | 102.8 | 5000.0 | 5101.27 | 102.0 | 5000.0 | 5158.92 | 103.2 | 5000.0 | 5041.57 | 100.8 |
| 5 | Beryllium | 500.0 | 500.83 | 100.2 | 500.0 | 507.83 | 101.6 | 500.0 | 507.75 | 101.5 | 500.0 | 499.09 | 99.8 |
| 6 | Cadmium | 1000.0 | 1014.88 | 101.5 | 1000.0 | 1007.48 | 100.7 | 1000.0 | 1019.91 | 102.0 | 1000.0 | 1001.58 | 100.2 |
| 7 | Calcium | 50000.0 | 50492.20 | 101.0 | 50000.0 | 49746.34 | 99.5 | 50000.0 | 50436.38 | 100.9 | 50000.0 | 49292.73 | 98.6 |
| 8 | Chromium | 500.0 | 505.24 | 101.0 | 500.0 | 499.62 | 99.9 | 500.0 | 503.61 | 100.7 | 500.0 | 491.21 | 98.2 |
| 9 | Cobalt | 2000.0 | 2047.24 | 102.4 | 2000.0 | 2033.61 | 101.7 | 2000.0 | 2059.07 | 103.0 | 2000.0 | 2021.68 | 101.1 |
| 10 | Copper | 2000.0 | 2018.34 | 100.9 | 2000.0 | 1998.00 | 99.9 | 2000.0 | 2020.34 | 101.0 | 2000.0 | 1972.17 | 98.6 |
| 11 | Iron | 5000.0 | 5045.89 | 100.9 | 5000.0 | 5011.38 | 100.2 | 5000.0 | 5245.48 | 104.9 | 5000.0 | 5090.30 | 101.8 |
| 12 | Lead | 500.0 | 510.87 | 102.2 | 500.0 | 507.34 | 101.5 | 500.0 | 513.22 | 102.6 | 500.0 | 513.87 | 102.8 |
| 13 | Magnesium | 25000.0 | 25552.74 | 102.2 | 25000.0 | 25397.94 | 101.6 | 25000.0 | 25719.45 | 102.9 | 25000.0 | 25243.31 | 101.0 |
| 14 | Manganese | 2000.0 | 2034.44 | 101.7 | 2000.0 | 2063.49 | 103.2 | 2000.0 | 2065.88 | 103.3 | 2000.0 | 2036.17 | 101.8 |
| 15 | Nickel | 2000.0 | 2047.83 | 102.4 | 2000.0 | 2035.68 | 101.8 | 2000.0 | 2064.71 | 103.2 | 2000.0 | 2027.21 | 101.4 |
| 16 | Potassium | 15000.0 | 15124.29 | 100.8 | 15000.0 | 15486.87 | 103.2 | 15000.0 | 15477.16 | 103.2 | 15000.0 | 15296.44 | 102.0 |
| 17 | Selenium | 500.0 | 519.30 | 103.9 | 500.0 | 513.61 | 102.7 | 500.0 | 521.15 | 104.2 | 500.0 | 520.66 | 104.1 |
| 18 | Silver | 1000.0 | 995.71 | 99.6 | 1000.0 | 984.99 | 98.5 | 1000.0 | 997.56 | 99.8 | 1000.0 | 969.26 | 96.9 |
| 19 | Sodium | 100000.0 | 99845.82 | 99.8 | 100000.0 | 99043.67 | 99.0 | 100000.0 | 99920.35 | 99.9 | 100000.0 | 97804.68 | 97.8 |
| 20 | Thallium | 500.0 | 504.59 | 100.9 | 500.0 | 501.73 | 100.3 | 500.0 | 505.43 | 101.1 | 500.0 | 503.11 | 100.6 |
| 21 | Vanadium | 2000.0 | 2018.07 | 100.9 | 2000.0 | 1999.60 | 100.0 | 2000.0 | 2012.09 | 100.6 | 2000.0 | 1962.75 | 98.1 |
| 22 | Zinc | 2000.0 | 2026.13 | 101.3 | 2000.0 | 2008.22 | 100.4 | 2000.0 | 2024.16 | 101.2 | 2000.0 | 1987.40 | 99.4 |
| 23 | Molybdenum | 2000.0 | 2017.75 | 100.9 | 2000.0 | 2006.79 | 100.3 | 2000.0 | 2024.99 | 101.2 | 2000.0 | 1983.13 | 99.2 |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCV True | 16:10 Result | %R | CCV True | 16:30 Result | %R | CCV True | 17:12 Result | %R | CCV True | 18:19 Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 5000.0 | 5100.90 | 102.0 | 5000.0 | 4943.69 | 98.9 | 5000.0 | 5115.38 | 102.3 | 5000.0 | 5097.24 | 101.9 |
| 2 | Antimony | 2000.0 | 2052.91 | 102.6 | 2000.0 | 2072.36 | 103.6 | 2000.0 | 2063.38 | 103.2 | 2000.0 | 2038.47 | 101.9 |
| 3 | Arsenic | 500.0 | 495.43 | 99.1 | 500.0 | 497.82 | 99.6 | 500.0 | 494.83 | 99.0 | 500.0 | 521.99 | 104.4 |
| 4 | Barium | 5000.0 | 5177.13 | 103.5 | 5000.0 | 5037.18 | 100.7 | 5000.0 | 5214.70 | 104.3 | 5000.0 | 5210.36 | 104.2 |
| 5 | Beryllium | 500.0 | 512.94 | 102.6 | 500.0 | 506.36 | 101.3 | 500.0 | 511.96 | 102.4 | 500.0 | 513.25 | 102.7 |
| 6 | Cadmium | 1000.0 | 1040.72 | 104.1 | 1000.0 | 1017.89 | 101.8 | 1000.0 | 1056.35 | 105.6 | 1000.0 | 1040.89 | 104.1 |
| 7 | Calcium | 50000.0 | 51671.96 | 103.3 | 50000.0 | 50266.11 | 100.5 | 50000.0 | 52860.49 | 105.7 | 50000.0 | 51815.71 | 103.6 |
| 8 | Chromium | 500.0 | 503.23 | 100.6 | 500.0 | 488.47 | 97.7 | 500.0 | 501.68 | 100.3 | 500.0 | 511.18 | 102.2 |
| 9 | Cobalt | 2000.0 | 2094.54 | 104.7 | 2000.0 | 2046.19 | 102.3 | 2000.0 | 2123.75 | 106.2 | 2000.0 | 2084.69 | 104.2 |
| 10 | Copper | 2000.0 | 2036.03 | 101.8 | 2000.0 | 1984.25 | 99.2 | 2000.0 | 2059.46 | 103.0 | 2000.0 | 2082.22 | 104.1 |
| 11 | Iron | 5000.0 | 5225.37 | 104.5 | 5000.0 | 5082.18 | 101.6 | 5000.0 | 5234.11 | 104.7 | 5000.0 | 5034.64 | 100.7 |
| 12 | Lead | 500.0 | 516.31 | 103.3 | 500.0 | 517.42 | 103.5 | 500.0 | 516.76 | 103.4 | 500.0 | 512.22 | 102.4 |
| 13 | Magnesium | 25000.0 | 26061.58 | 104.2 | 25000.0 | 25380.44 | 101.5 | 25000.0 | 26233.66 | 104.9 | 25000.0 | 26130.88 | 104.5 |
| 14 | Manganese | 2000.0 | 2091.51 | 104.6 | 2000.0 | 2064.00 | 103.2 | 2000.0 | 2085.23 | 104.3 | 2000.0 | 2068.96 | 103.4 |
| 15 | Nickel | 2000.0 | 2098.34 | 104.9 | 2000.0 | 2054.63 | 102.7 | 2000.0 | 2128.05 | 106.4 | 2000.0 | 2107.75 | 105.4 |
| 16 | Potassium | 15000.0 | 15454.91 | 103.0 | 15000.0 | 15227.61 | 101.5 | 15000.0 | 15088.53 | 100.6 | 15000.0 | 15104.58 | 100.7 |
| 17 | Selenium | 500.0 | 518.84 | 103.8 | 500.0 | 521.54 | 104.3 | 500.0 | 515.69 | 103.1 | 500.0 | 518.26 | 103.7 |
| 18 | Silver | 1000.0 | 992.52 | 99.3 | 1000.0 | 963.58 | 96.4 | 1000.0 | 995.20 | 99.5 | 1000.0 | 1013.05 | 101.3 |
| 19 | Sodium | 100000.0 | 100017.03 | 100.0 | 100000.0 | 96715.55 | 96.7 | 100000.0 | 99290.77 | 99.3 | 100000.0 | 100487.02 | 100.5 |
| 20 | Thallium | 500.0 | 501.50 | 100.3 | 500.0 | 505.06 | 101.0 | 500.0 | 498.67 | 99.7 | 500.0 | 517.05 | 103.4 |
| 21 | Vanadium | 2000.0 | 2002.09 | 100.1 | 2000.0 | 1941.74 | 97.1 | 2000.0 | 1998.29 | 99.9 | 2000.0 | 2062.48 | 103.1 |
| 22 | Zinc | 2000.0 | 2057.25 | 102.9 | 2000.0 | 2002.56 | 100.1 | 2000.0 | 2078.38 | 103.9 | 2000.0 | 2076.48 | 103.8 |
| 23 | Molybdenum | 2000.0 | 2043.84 | 102.2 | 2000.0 | 1981.71 | 99.1 | 2000.0 | 2053.44 | 102.7 | 2000.0 | 2045.75 | 102.3 |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |

Batch No.(s): 03M1359

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCV True | 19:04 Result | %R | True | Result | %R | True | Result | %R | True | Result | %R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 5000.0 | 5216.18 | 104.3 | | | | | | | | | |
| 2 | Antimony | 2000.0 | 2043.59 | 102.2 | | | | | | | | | |
| 3 | Arsenic | 500.0 | 527.23 | 105.4 | | | | | | | | | |
| 4 | Barium | 5000.0 | 5242.65 | 104.9 | | | | | | | | | |
| 5 | Beryllium | 500.0 | 511.64 | 102.3 | | | | | | | | | |
| 6 | Cadmium | 1000.0 | 1038.70 | 103.9 | | | | | | | | | |
| 7 | Calcium | 50000.0 | 51692.54 | 103.4 | | | | | | | | | |
| 8 | Chromium | 500.0 | 516.48 | 103.3 | | | | | | | | | |
| 9 | Cobalt | 2000.0 | 2083.70 | 104.2 | | | | | | | | | |
| 10 | Copper | 2000.0 | 2079.62 | 104.0 | | | | | | | | | |
| 11 | Iron | 5000.0 | 5156.71 | 103.1 | | | | | | | | | |
| 12 | Lead | 500.0 | 516.26 | 103.3 | | | | | | | | | |
| 13 | Magnesium | 25000.0 | 26390.99 | 105.6 | | | | | | | | | |
| 14 | Manganese | 2000.0 | 2065.90 | 103.3 | | | | | | | | | |
| 15 | Nickel | 2000.0 | 2106.67 | 105.3 | | | | | | | | | |
| 16 | Potassium | 15000.0 | 14887.23 | 99.2 | | | | | | | | | |
| 17 | Selenium | 500.0 | 526.94 | 105.4 | | | | | | | | | |
| 18 | Silver | 1000.0 | 1017.93 | 101.8 | | | | | | | | | |
| 19 | Sodium | 100000.0 | 101112.48 | 101.1 | | | | | | | | | |
| 20 | Thallium | 500.0 | 522.29 | 104.5 | | | | | | | | | |
| 21 | Vanadium | 2000.0 | 2079.23 | 104.0 | | | | | | | | | |
| 22 | Zinc | 2000.0 | 2081.81 | 104.1 | | | | | | | | | |
| 23 | Molybdenum | 2000.0 | 2061.96 | 103.1 | | | | | | | | | |

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2B Metal

Applied P & Ch Laboratory

# CRDL Standard For AA and ICP

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | True | 11:34 Found | R% | Time Found | R% |
|---|---|---|---|---|---|---|
| 1 | Aluminum | 200.0 | 190.34 | 95.2 | | |
| 2 | Antimony | 20.0 | 20.76 | 103.8 | | |
| 3 | Arsenic | 20.0 | 19.77 | 98.9 | | |
| 4 | Barium | 10.0 | 11.34 | 113.4 | | |
| 5 | Beryllium | 4.0 | 4.45 | 111.3 | | |
| 6 | Cadmium | 5.0 | 5.48 | 109.7 | | |
| 7 | Calcium | 1000.0 | 1358.36 | 135.8 | | |
| 8 | Chromium | 10.0 | 10.36 | 103.6 | | |
| 9 | Cobalt | 20.0 | 22.76 | 113.8 | | |
| 10 | Copper | 10.0 | 7.14 | 71.4 | | |
| 11 | Iron | 50.0 | 48.43 | 96.9 | | |
| 12 | Lead | 10.0 | 8.88 | 88.8 | | |
| 13 | Magnesium | | 8.73 | | | |
| 14 | Manganese | 10.0 | 9.84 | 98.4 | | |
| 15 | Nickel | 20.0 | 22.07 | 110.4 | | |
| 16 | Potassium | | 44.61 | | | |
| 17 | Selenium | 10.0 | 10.81 | 108.1 | | |
| 18 | Silver | 10.0 | 10.13 | 101.3 | | |
| 19 | Sodium | | 164.10 | | | |
| 20 | Thallium | 10.0 | 10.97 | 109.7 | | |
| 21 | Vanadium | 10.0 | 9.97 | 99.7 | | |
| 22 | Zinc | 20.0 | 15.32 | 76.6 | | |
| 23 | Molybdenum | 15.0 | 15.35 | 102.3 | | |

FORM-3 Metal

Applied P & Ch Laboratory

# Metal ICB/CCB Summary

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Instrument: | GFAA-E | Method: | 200.9 |
| Batch No.(s): | 03M1360 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | ICB Result | 13:05 C | CCB Result | 14:23 C | CCB Result | 15:39 C | CCB Result | 16:56 C | CCB Result | 17:15 C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 2.10 | U | 2.10 | U | 2.10 | U | 2.10 | U | 2.10 | U |

FORM-3 Metal

Applied P & Ch Laboratory

# Metal ICB/CCB Summary

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | | | | |

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | ICB Result | 11:31 C | CCB Result | 11:49 C | CCB Result | 11:57 C | CCB Result | 12:36 C | CCB Result | 13:14 C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 5.50 | U | 5.50 | U | 5.50 | U | 5.50 | U | -6.21 | B |
| 2 | Antimony | 3.91 | B | 2.39 | B | 1.90 | U | 1.90 | U | 1.90 | U |
| 3 | Arsenic | 1.40 | U | 1.40 | U | 1.40 | U | -2.29 | B | 1.40 | U |
| 4 | Barium | 1.10 | U | 1.10 | U | 1.37 | B | 1.27 | B | 1.10 | U |
| 5 | Beryllium | 0.25 | B | 0.18 | B | 0.17 | U | 0.17 | U | 0.17 | U |
| 6 | Cadmium | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U |
| 7 | Calcium | 135.00 | U | 135.00 | U | 135.00 | U | 135.00 | U | 135.00 | U |
| 8 | Chromium | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| 9 | Cobalt | 1.09 | B | 0.67 | U | 0.80 | B | 0.67 | U | 0.67 | U |
| 10 | Copper | 1.10 | U | -1.24 | B | 2.10 | B | 5.54 | B | 2.43 | B |
| 11 | Iron | 10.29 | B | 6.11 | B | 2.30 | U | -3.83 | B | -7.90 | B |
| 12 | Lead | 1.60 | U | 1.60 | U | 1.60 | U | 1.78 | B | 1.60 | U |
| 13 | Magnesium | 8.21 | B | 99.01 | B | -34.05 | B | -46.98 | B | -61.56 | B |
| 14 | Manganese | 0.33 | B | 0.31 | U | 0.73 | B | 0.48 | B | 0.37 | B |
| 15 | Nickel | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U |
| 16 | Potassium | 43.28 | B | 51.90 | B | 48.41 | B | 49.52 | B | 57.20 | B |
| 17 | Selenium | 2.60 | U | 2.60 | U | 2.60 | U | 3.07 | B | 2.60 | U |
| 18 | Silver | 0.65 | U | -0.78 | B | 0.65 | U | 0.65 | U | 0.65 | U |
| 19 | Sodium | 328.00 | U | 414.93 | B | 328.00 | U | 340.09 | B | 328.00 | U |
| 20 | Thallium | 2.28 | B | 2.84 | B | 1.50 | U | 1.50 | U | 1.50 | U |
| 21 | Vanadium | 0.66 | U | 0.66 | U | 0.66 | U | 0.66 | U | 0.66 | U |
| 22 | Zinc | -3.24 | B | -4.47 | B | 1.30 | U | 1.30 | U | 1.30 | U |
| 23 | Molybdenum | 0.34 | U | 0.46 | B | 1.33 | B | 1.43 | B | 1.24 | B |

FORM-3 Metal

Applied P & Ch Laboratory

# Metal ICB/CCB Summary

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |

Batch No.(s): 03M1359

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCB Result | 13:44 C | CCB Result | 14:22 C | CCB Result | 15:19 C | CCB Result | 16:13 C | CCB Result | 16:33 C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | -5.82 | B | 5.50 | U | 5.68 | B | 7.57 | B | 10.14 | B |
| 2 | Antimony | 2.42 | B | 1.90 | U | 1.90 | U | 2.14 | B | 1.90 | U |
| 3 | Arsenic | 1.40 | U | 1.40 | U | 1.40 | U | 1.40 | U | 1.40 | U |
| 4 | Barium | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U |
| 5 | Beryllium | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 6 | Cadmium | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U |
| 7 | Calcium | 135.00 | U | 135.00 | U | 135.00 | U | 139.77 | B | 135.00 | U |
| 8 | Chromium | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| 9 | Cobalt | 0.67 | U | 1.02 | B | 0.67 | U | 0.67 | U | 0.67 | U |
| 10 | Copper | 2.12 | B | 2.55 | B | 1.83 | B | 1.10 | U | 1.10 | U |
| 11 | Iron | 2.30 | U | 54.65 | | 56.62 | | 61.92 | | 63.34 | |
| 12 | Lead | 1.60 | U | 1.60 | U | 1.60 | U | 1.60 | U | 1.60 | U |
| 13 | Magnesium | -58.94 | B | -93.52 | B | -90.31 | B | -95.71 | B | -93.41 | B |
| 14 | Manganese | 0.33 | B | 2.06 | B | 1.88 | B | 1.41 | B | 1.72 | B |
| 15 | Nickel | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U | 1.10 | U |
| 16 | Potassium | 40.99 | B | 48.62 | B | 63.65 | B | 46.00 | B | 64.88 | B |
| 17 | Selenium | 2.60 | U | 3.00 | B | 3.75 | B | 2.60 | U | 3.50 | B |
| 18 | Silver | 0.65 | U | 0.65 | U | 0.65 | U | 0.65 | U | 0.65 | U |
| 19 | Sodium | 328.00 | U | 421.31 | B | 457.59 | B | 473.12 | B | 328.00 | U |
| 20 | Thallium | 1.50 | U | 1.50 | U | 1.50 | U | 1.52 | B | 2.31 | B |
| 21 | Vanadium | 0.66 | U | 0.66 | U | 0.71 | B | 0.66 | U | 0.66 | U |
| 22 | Zinc | 1.30 | U | 1.30 | U | 1.30 | U | 1.30 | U | 1.30 | U |
| 23 | Molybdenum | 0.73 | B | 1.21 | B | 1.20 | B | 0.77 | B | 0.52 | B |

FORM-3 Metal

Applied P & Ch Laboratory

# Metal ICB/CCB Summary

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |

Batch No.(s): 03M1359

Analysis Date: **04/23/03** Concentration Units: **UG/L**

| # | Analyte | CCB Result | 17:16 C | CCB Result | 18:22 C | CCB Result | 19:07 C | CCB Result | Time C | CCB Result | Time C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 15.11 | B | 5.50 | U | 22.66 | B | | | | |
| 2 | Antimony | 4.28 | B | 3.15 | B | 1.90 | U | | | | |
| 3 | Arsenic | -2.54 | B | 1.40 | U | 1.40 | U | | | | |
| 4 | Barium | 2.16 | B | 2.42 | B | 1.56 | B | | | | |
| 5 | Beryllium | 0.17 | U | 0.35 | B | 0.28 | B | | | | |
| 6 | Cadmium | 0.31 | U | 0.31 | U | 0.31 | U | | | | |
| 7 | Calcium | 241.36 | | 135.00 | U | 135.00 | U | | | | |
| 8 | Chromium | 0.50 | U | 0.50 | U | 0.50 | U | | | | |
| 9 | Cobalt | 0.67 | U | 0.72 | B | 0.67 | U | | | | |
| 10 | Copper | 3.08 | B | 3.86 | B | 3.25 | B | | | | |
| 11 | Iron | 86.02 | | -59.67 | | -39.42 | B | | | | |
| 12 | Lead | 1.60 | U | 1.60 | U | -1.63 | B | | | | |
| 13 | Magnesium | -88.25 | B | 6.40 | U | 28.54 | B | | | | |
| 14 | Manganese | 1.77 | B | 0.51 | B | 0.31 | U | | | | |
| 15 | Nickel | 1.10 | U | 1.10 | U | 1.10 | U | | | | |
| 16 | Potassium | 52.65 | B | 131.66 | B | 145.74 | B | | | | |
| 17 | Selenium | 4.97 | B | 2.60 | U | 2.75 | B | | | | |
| 18 | Silver | 0.65 | B | 0.65 | U | 0.71 | B | | | | |
| 19 | Sodium | 328.00 | U | 714.37 | B | 448.27 | B | | | | |
| 20 | Thallium | 2.13 | B | 2.61 | B | 5.00 | B | | | | |
| 21 | Vanadium | 0.66 | U | 0.73 | B | 0.66 | U | | | | |
| 22 | Zinc | 1.30 | U | 1.30 | U | 1.30 | U | | | | |
| 23 | Molybdenum | 0.90 | B | 1.60 | B | 1.30 | B | | | | |

FORM-4 Metal

Applied P & Ch Laboratory

# ICP Interference Check Sample

Client Name: GEOFON, Inc.
Project Name: JPL
Batch No.(s): 03M1359

Project No: 04-4428.10
Service ID: 032809
ICP ID Number: ICP -M

Lab Code: APCL
Sequence No.: 03M1359M

Analysis Date: **04/23/03**

Concentration Units: **UG/L**

| # | Analyte | Expected Sol. A | Expected Sol. AB | Initial 11:37 Sol. A | Found 11:40 Sol. AB | %R | Final 18:58 Sol. A | Found 19:00 Sol. AB | %R |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 500000 | 500000 | 486589 | 461107.5 | 92.2 | 496319 | 467498.9 | 93.5 |
| 2 | Antimony | 0 | 1000 | 8 | 921.5 | 92.1 | 13 | 938.5 | 93.9 |
| 3 | Arsenic | 0 | 1000 | 3 | 891.9 | 89.2 | -3 | 931.9 | 93.2 |
| 4 | Barium | 0 | 500 | 4 | 491.4 | 98.3 | 3 | 499.1 | 99.8 |
| 5 | Beryllium | 0 | 500 | 0 | 466.5 | 93.3 | 0 | 480.3 | 96.1 |
| 6 | Cadmium | 0 | 1000 | -1 | 903.8 | 90.4 | 0 | 942.4 | 94.2 |
| 7 | Calcium | 500000 | 500000 | 512968 | 474168.0 | 94.8 | 528233 | 488944.7 | 97.8 |
| 8 | Chromium | 0 | 500 | 5 | 471.4 | 94.3 | 6 | 481.7 | 96.3 |
| 9 | Cobalt | 0 | 500 | 3 | 440.9 | 88.2 | 2 | 454.4 | 90.9 |
| 10 | Copper | 0 | 500 | 0 | 457.5 | 91.5 | 1 | 479.5 | 95.9 |
| 11 | Iron | 200000 | 200000 | 187545 | 172422.5 | 86.2 | 188072 | 172183.7 | 86.1 |
| 12 | Lead | 0 | 1000 | -9 | 878.8 | 87.9 | -6 | 909.3 | 90.9 |
| 13 | Magnesium | 500000 | 500000 | 490002 | 460955.7 | 92.2 | 503803 | 471591.6 | 94.3 |
| 14 | Manganese | 0 | 500 | -1 | 461.6 | 92.3 | -2 | 478.1 | 95.6 |
| 15 | Nickel | 0 | 1000 | -2 | 854.6 | 85.5 | -2 | 885.6 | 88.6 |
| 16 | Potassium | 0 | 0 | 123 | 121.3 | | 220 | 212.6 | |
| 17 | Selenium | 0 | 1000 | 15 | 929.5 | 92.9 | 7 | 945.1 | 94.5 |
| 18 | Silver | 0 | 1000 | -3 | 938.5 | 93.8 | -3 | 963.7 | 96.4 |
| 19 | Sodium | 0 | 0 | -150 | 37.6 | | 263 | 381.5 | |
| 20 | Thallium | 0 | 1000 | 6 | 870.1 | 87.0 | 7 | 909.0 | 90.9 |
| 21 | Vanadium | 0 | 500 | -8 | 449.7 | 89.9 | -5 | 464.9 | 93.0 |
| 22 | Zinc | 0 | 1000 | 0 | 912.9 | 91.3 | 5 | 948.3 | 94.8 |
| 23 | Molybdenum | 0 | 1000 | 2 | 878.4 | 87.8 | 2 | 905.3 | 90.5 |

FORM-7 Metal

Applied P & Ch Laboratory

# Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 200.9

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 32809 |
| Project ID: | JPL | Project No: | 04-4428.10 | Sample Matrix: | Water |
| | | Batch No: | 03M1360E | | |
| LCS Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 13:18 |
| LCSD Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 13:24 |

| Spiked Components | Unit | Spike Added | Concentration Unspiked | Concentration LCS | LCS Rec% # | QC Limit, % REC |
|---|---|---|---|---|---|---|
| ARSENIC | µg/L | 50 | 0 | 50.5 | 101 | 80-120 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % RPD | QC Limit, % REC |
|---|---|---|---|---|---|---|---|
| ARSENIC | µg/L | 50 | 49.9 | 100 | 1 | 20 | 80-120 |
| # of Out-of-control | | | | 0 | 0 | | |

# Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits  D – Spiked components diluted out

Comments: _____

_____

FORM-5A Metal

Applied P & Ch Laboratory

# Matrix Spike/Matrix Spike Duplicate Recovery for Method 200.7

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 32809 |
| Project ID: | JPL | Project No: | 04-4428.10 | Sample Matrix: | Water |
| | | Batch No: | 03M1359M | | |
| MS Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 12:22 |
| MSD Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 12:25 |
| MS Sample No: | **MW-4-2** | Sample Lab ID: | 03-2809-4 | | |

| Spiked Components | Unit | Spike Added | Concentration Unspiked | Concentration MS | MS Rec% # | QC Limit, % REC |
|---|---|---|---|---|---|---|
| CALCIUM | µg/L | 20000 | 115000 | 138000 | 115 | 75-125 |
| IRON | µg/L | 1000 | 592 | 1600 | 101 | 75-125 |
| MAGNESIUM | µg/L | 10000 | 39300 | 48800 | 95 | 75-125 |
| POTASSIUM | µg/L | 5000 | 2990 | 8760 | 115 | 75-125 |
| SODIUM | µg/L | 40000 | 32500 | 75000 | 106 | 75-125 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % RPD | QC Limit, % REC |
|---|---|---|---|---|---|---|---|
| CALCIUM | µg/L | 20000 | 138000 | 115 | 0 | 20 | 75-125 |
| IRON | µg/L | 1000 | 1590 | 100 | 1 | 20 | 75-125 |
| MAGNESIUM | µg/L | 10000 | 49800 | 105 | 10 | 20 | 75-125 |
| POTASSIUM | µg/L | 5000 | 8930 | 119 | 3 | 20 | 75-125 |
| SODIUM | µg/L | 40000 | 74800 | 106 | 0 | 20 | 75-125 |
| # of Out-of-control | | | | 0 | 0 | | |

# Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits  D – Spiked components diluted out

Comments: _____

FORM-5B Metal

Applied P & Ch Laboratory

# Post Digest Spike Sample Recovery

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Batch No.: | 03M1360 | Method: | 200.9 |
| Spike Sample No. : | 03-2809-04 | Matrix: | WATER | Instrument: | GFAA-E |
| Client Sample No.: | **MW-4-2** | Analysis Date: | 04/23/03 | | |

Concentration Units: **UG/L**

| # | Analyte | Spiked Sample Result(SSR) | 14:04 C | Sample Result(SR) | 13:31 C | Spike Added(SA) | % Rec. | Control Limit | Q |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 54.4000 | | 1.6000 | U | 50.00 | 108.8 | 75-125 | |

FORM-5B Metal

Applied P & Ch Laboratory

# Post Digest Spike Sample Recovery

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Batch No.: | 03M1359 | Method: | 200.9 |
| Spike Sample No. : | 03-2809-04 | Matrix: | WATER | Instrument: | ICP -M |
| Client Sample No.: | MW-4-2 | Analysis Date: | 04/23/03 | | |

Concentration Units: **UG/L**

| # | Analyte | Spiked Sample Result(SSR) | 12:29 C | Sample Result(SR) | 12:11 C | Spike Added(SA) | % Rec. | Control Limit | Q |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 2152.6475 | | 6.4455 | B | 2000.00 | 107.3 | 75-125 | |
| 2 | Antimony | 511.0278 | | 0.9577 | U | 500.00 | 102.2 | 75-125 | |
| 3 | Arsenic | 527.5773 | | 1.0426 | U | 500.00 | 105.5 | 75-125 | |
| 4 | Barium | 4608.1479 | | 135.0541 | | 4000.00 | 111.8 | 75-125 | |
| 5 | Beryllium | 199.9555 | | 0.0299 | U | 200.00 | 100.0 | 75-125 | |
| 6 | Cadmium | 258.3370 | | 0.0581 | U | 250.00 | 103.3 | 75-125 | |
| 7 | Calcium | 136942.1094 | | 114938.3984 | | 20000.00 | 110.0 | | |
| 8 | Chromium | 1059.8134 | | 6.5204 | | 1000.00 | 105.3 | 75-125 | |
| 9 | Cobalt | 1001.7222 | | 0.2007 | U | 1000.00 | 100.2 | 75-125 | |
| 10 | Copper | 948.2534 | | 3.5266 | B | 1000.00 | 94.5 | 75-125 | |
| 11 | Iron | 1581.2958 | | 591.9648 | | 1000.00 | 98.9 | 75-125 | |
| 12 | Lead | 3106.1758 | | 2.4127 | B | 3000.00 | 103.5 | 75-125 | |
| 13 | Magnesium | 49445.2734 | | 39263.4141 | | 10000.00 | 101.8 | 75-125 | |
| 14 | Manganese | 996.6694 | | 8.8164 | | 1000.00 | 98.8 | 75-125 | |
| 15 | Nickel | 961.0024 | | 3.0797 | B | 1000.00 | 95.8 | 75-125 | |
| 16 | Potassium | 8807.3311 | | 2991.2029 | | 5000.00 | 116.3 | 75-125 | |
| 17 | Selenium | 533.6947 | | 3.0846 | B | 500.00 | 106.1 | 75-125 | |
| 18 | Silver | 1010.3154 | | 0.9365 | B | 1000.00 | 100.9 | 75-125 | |
| 19 | Sodium | 74075.4063 | | 32466.1758 | | 40000.00 | 104.0 | 75-125 | |
| 20 | Thallium | 526.4744 | | 3.8375 | B | 500.00 | 104.5 | 75-125 | |
| 21 | Vanadium | 2051.5576 | | 4.8818 | B | 2000.00 | 102.3 | 75-125 | |
| 22 | Zinc | 509.9943 | | 4.6182 | B | 500.00 | 101.1 | 75-125 | |
| 23 | Molybdenum | 2197.0459 | | 2.9490 | B | 2000.00 | 109.7 | 75-125 | |

FORM-6 Metal

Applied P & Ch Laboratory

## Duplicates Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Batch No.: | 03M1360 | Method: | 200.9 |
| Spike Sample No. | 03-2809-04 | Matrix: | WATER | Instrument: | GFAA-E |
| Client Sample No. | **MW-4-2** | % Solid: | 0.00 | Analysis Date: | 04/23/03 |

Concentration Unit: **UG/L**

| # | Analyte | 13:31 Sample(s) | C | 13:37 Duplicate | C | RPD(%) | Q |
|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 1.6000 | U | 1.5000 | U | | |

FORM-6 Metal

Applied P & Ch Laboratory

# Duplicates Verification

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Batch No.: | 03M1359 | Method: | 200.9 |
| Spike Sample No. | 03-2809-04 | Matrix: | WATER | Instrument: | ICP -M |
| Client Sample No. | MW-4-2 | % Solid: | 0.00 | Analysis Date: | 04/23/03 |

Concentration Unit: **UG/L**

| # | Analyte | 12:11 Sample(s) | C | 12:15 Duplicate | C | RPD(%) | Q |
|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 6.4455 | B | 5.3406 | U | 200.0 | |
| 2 | Antimony | 0.9577 | U | -1.3483 | U | | |
| 3 | Arsenic | 1.0426 | U | 2.5780 | B | 200.0 | |
| 4 | Barium | 135.0541 | | 134.4062 | | 0.5 | |
| 5 | Beryllium | 0.0299 | U | -0.0727 | U | | |
| 6 | Cadmium | 0.0581 | U | 0.0271 | U | | |
| 7 | Calcium | 114938.3984 | | 115935.4688 | | 0.9 | |
| 8 | Chromium | 6.5204 | | 5.9648 | | 8.9 | |
| 9 | Cobalt | 0.2007 | U | -0.1390 | U | | |
| 10 | Copper | 3.5266 | B | 2.3609 | B | 39.6 | |
| 11 | Iron | 591.9648 | | 576.9722 | | 2.6 | |
| 12 | Lead | 2.4127 | B | 1.2496 | U | 200.0 | |
| 13 | Magnesium | 39263.4141 | | 39501.7500 | | 0.6 | |
| 14 | Manganese | 8.8164 | | 8.3274 | | 5.7 | |
| 15 | Nickel | 3.0797 | B | 2.9096 | B | 5.7 | |
| 16 | Potassium | 2991.2029 | | 2984.8088 | | 0.2 | |
| 17 | Selenium | 3.0846 | B | 1.7890 | U | 200.0 | |
| 18 | Silver | 0.9365 | B | 0.2060 | U | 200.0 | |
| 19 | Sodium | 32466.1758 | | 32717.0254 | | 0.8 | |
| 20 | Thallium | 3.8375 | B | 6.0425 | B | 44.6 | |
| 21 | Vanadium | 4.8818 | B | 3.7062 | B | 27.4 | |
| 22 | Zinc | 4.6182 | B | 4.1056 | B | 11.8 | |
| 23 | Molybdenum | 2.9490 | B | 1.0182 | B | 97.3 | |

FORM-7 Metal

Applied P & Ch Laboratory

# Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 200.9

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 32809 |
| Project ID: | JPL | Project No: | 04-4428.10 | Sample Matrix: | Water |
| | | Batch No: | 03M1360E | | |
| LCS Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 13:18 |
| LCSD Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 13:24 |

| Spiked Components | Unit | Spike Added | Concentration Unspiked | Concentration LCS | LCS Rec% # | QC Limit, % REC |
|---|---|---|---|---|---|---|
| ARSENIC | µg/L | 50 | 0 | 50.5 | 101 | 80-120 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % RPD | QC Limit, % REC |
|---|---|---|---|---|---|---|---|
| ARSENIC | µg/L | 50 | 49.9 | 100 | 1 | 20 | 80-120 |
| # of Out-of-control | | | | 0 | 0 | | |

# Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits  D – Spiked components diluted out

Comments: _____

_____

FORM-7 Metal

Applied P & Ch Laboratory

# Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 200.7

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 32809 |
| Project ID: | JPL | Project No: | 04-4428.10 | Sample Matrix: | Water |
| | | Batch No: | 03M1359M | | |
| LCS Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 12:04 |
| LCSD Filename: | - | Date Analyzed: | 042303 | Time Analyzed: | 12:08 |

| Spiked Components | Unit | Spike Added | Concentration Unspiked | Concentration LCS | LCS Rec% # | QC Limit, % REC |
|---|---|---|---|---|---|---|
| CALCIUM | µg/L | 20000 | 0 | 20000 | 100 | 80-120 |
| IRON | µg/L | 1000 | 0 | 1010 | 101 | 80-120 |
| MAGNESIUM | µg/L | 10000 | 0 | 10100 | 101 | 80-120 |
| POTASSIUM | µg/L | 5000 | 0 | 5620 | 112 | 80-120 |
| SODIUM | µg/L | 40000 | 0 | 38600 | 97 | 80-120 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % RPD | QC Limit, % REC |
|---|---|---|---|---|---|---|---|
| CALCIUM | µg/L | 20000 | 20100 | 101 | 1 | 20 | 80-120 |
| IRON | µg/L | 1000 | 1020 | 102 | 1 | 20 | 80-120 |
| MAGNESIUM | µg/L | 10000 | 10200 | 102 | 1 | 20 | 80-120 |
| POTASSIUM | µg/L | 5000 | 5490 | 110 | 2 | 20 | 80-120 |
| SODIUM | µg/L | 40000 | 38800 | 97 | 0 | 20 | 80-120 |
| # of Out-of-control | | | | 0 | 0 | | |

# Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits  D – Spiked components diluted out

Comments: _____

_____

FORM-9 Metal

Applied P & Ch Laboratory

# Serial Dilution

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Batch No.: | 03M1360 | Method: | 200.9 |
| Dilution Sample No.: | 03-2809-04 | Matrix: | WATER | Instrument: | GFAA-E |
| Client Sample No.: | MW-4-2 | Analysis Date: | 04/23/03 | | |

Concentration Units: **UG/L**

| # | Analyte | Initial Sample Results(I) | 13:31 C | Serial Dilut Results(S) | 13:44 C | % Diff. | Q |
|---|---|---|---|---|---|---|---|
| 1 | Arsenic | 1.60 | U | 5.50 | U | | |

FORM-9 Metal

Applied P & Ch Laboratory

# Serial Dilution

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Batch No.: | 03M1359 | Method: | 200.9 |
| Dilution Sample No.: | 03-2809-04 | Matrix: | WATER | Instrument: | ICP -M |
| Client Sample No.: | MW-4-2 | Analysis Date: | 04/23/03 | | |

Concentration Units: **UG/L**

| # | Analyte | Initial Sample Results(I) | 12:11 C | Serial Dilut Results(S) | 12:18 C | % Diff. | Q |
|---|---|---|---|---|---|---|---|
| 1 | Aluminum | 6.45 | B | -17.15 | U | 100.0 | |
| 2 | Antimony | 0.96 | U | 1.27 | U | | |
| 3 | Arsenic | 1.04 | U | -11.94 | U | | |
| 4 | Barium | 135.05 | | 134.66 | | 0.3 | |
| 5 | Beryllium | 0.03 | U | -0.51 | U | | |
| 6 | Cadmium | 0.06 | U | -0.57 | U | | |
| 7 | Calcium | 114938.40 | | 117685.54 | | 2.4 | |
| 8 | Chromium | 6.52 | | 5.66 | B | 13.2 | |
| 9 | Cobalt | 0.20 | U | -0.70 | U | | |
| 10 | Copper | 3.53 | B | 0.57 | U | 100.0 | |
| 11 | Iron | 591.96 | | 564.33 | | 4.7 | |
| 12 | Lead | 2.41 | B | -0.54 | U | 100.0 | |
| 13 | Magnesium | 39263.41 | | 40954.57 | | 4.3 | |
| 14 | Manganese | 8.82 | | 6.43 | B | 27.0 | |
| 15 | Nickel | 3.08 | B | 0.17 | U | 100.0 | |
| 16 | Potassium | 2991.20 | | 2503.82 | | 16.3 | E |
| 17 | Selenium | 3.08 | B | 10.80 | U | 100.0 | |
| 18 | Silver | 0.94 | B | -0.45 | U | 100.0 | |
| 19 | Sodium | 32466.18 | | 31605.13 | | 2.7 | |
| 20 | Thallium | 3.84 | B | 9.31 | B | 142.5 | |
| 21 | Vanadium | 4.88 | B | 2.15 | U | 100.0 | |
| 22 | Zinc | 4.62 | B | -0.11 | U | 100.0 | |
| 23 | Molybdenum | 2.95 | B | 0.49 | U | 100.0 | |

FORM-13 Metal

Applied P & Ch Laboratory

# Preparation Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Batch No.: | 03M1360 | Method: | 200.9 |
| Preparation Matrix: | WATER | Instrument: | GFAA-E | | |

| # | Client Sample No. | APCL Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|---|---|---|---|---|---|
| 1 | EB-1-4/17/03 | 03-2767-01 | 04/23/03 | | 50.0 |
| 2 | MW-21-1 | 03-2767-02 | 04/23/03 | | 50.0 |
| 3 | MW-21-2 | 03-2767-03 | 04/23/03 | | 50.0 |
| 4 | MW-21-3 | 03-2767-04 | 04/23/03 | | 50.0 |
| 5 | MW-21-4 | 03-2767-05 | 04/23/03 | | 50.0 |
| 6 | MW-21-5 | 03-2767-06 | 04/23/03 | | 50.0 |
| 7 | MW-4-2 | 03-2809-04DM | 04/23/03 | | 50.0 |
| 8 | DUPE-1-2Q03 | 03-2809-01 | 04/23/03 | | 50.0 |
| 9 | EB-2-4/21/03 | 03-2809-02 | 04/23/03 | | 50.0 |
| 10 | MW-4-1 | 03-2809-03 | 04/23/03 | | 50.0 |
| 11 | MW-4-3 | 03-2809-05 | 04/23/03 | | 50.0 |
| 12 | MW-4-4 | 03-2809-06 | 04/23/03 | | 50.0 |
| 13 | MW-4-5 | 03-2809-07 | 04/23/03 | | 50.0 |
| 14 | SOURCE-2Q03 | 03-2809-08 | 04/23/03 | | 50.0 |
| 15 | EB-3-4/22/03 | 03-2819-01 | 04/23/03 | | 50.0 |
| 16 | MW-19-1 | 03-2819-02 | 04/23/03 | | 50.0 |
| 17 | MW-19-2 | 03-2819-03 | 04/23/03 | | 50.0 |
| 18 | MW-19-3 | 03-2819-04 | 04/23/03 | | 50.0 |
| 19 | MW-19-4 | 03-2819-05 | 04/23/03 | | 50.0 |
| 20 | MW-19-5 | 03-2819-06 | 04/23/03 | | 50.0 |
| 21 | | 03M1360MB | 04/23/03 | | 50.0 |
| 22 | | 03M1360LCS | 04/23/03 | | 50.0 |
| 23 | | 03M1360LCSD | 04/23/03 | | 50.0 |
| 24 | MW-4-2 Dup. | 03M1360MD | 04/23/03 | | 50.0 |
| 25 | MW-4-2 MS | 03M1360MS | 04/23/03 | | 50.0 |
| 26 | MW-4-2 MSD | 03M1360MSD | 04/23/03 | | 50.0 |

FORM-13 Metal

Applied P & Ch Laboratory

# Preparation Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Batch No.: | 03M1359 | Method: | 200.9 |
| Preparation Matrix: | WATER | Instrument: | ICP -M | | |

| # | Client Sample No. | APCL Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|---|---|---|---|---|---|
| 1 | 10GP-06-1-GW | 03-2805-19 | 04/23/03 | | 50.0 |
| 2 | MW-4-2 | 03-2809-04DM | 04/23/03 | | 50.0 |
| 3 | DUPE-1-2Q03 | 03-2809-01 | 04/23/03 | | 50.0 |
| 4 | EB-2-4/21/03 | 03-2809-02 | 04/23/03 | | 50.0 |
| 5 | MW-4-1 | 03-2809-03 | 04/23/03 | | 50.0 |
| 6 | MW-4-3 | 03-2809-05 | 04/23/03 | | 50.0 |
| 7 | MW-4-4 | 03-2809-06 | 04/23/03 | | 50.0 |
| 8 | MW-4-5 | 03-2809-07 | 04/23/03 | | 50.0 |
| 9 | SOURCE-2Q03 | 03-2809-08 | 04/23/03 | | 50.0 |
| 10 | 10GP-01-1-GW | 03-2820-05 | 04/23/03 | | 50.0 |
| 11 | 10GP-01-3-GW | 03-2820-06 | 04/23/03 | | 50.0 |
| 12 | 10GP-04-1-GW | 03-2820-09 | 04/23/03 | | 50.0 |
| 13 | 046EB1-14639 | 03-2822-01 | 04/23/03 | | 50.0 |
| 14 | EB30017 | 03-2815-01 | 04/23/03 | | 50.0 |
| 15 | | 03M1359MB | 04/23/03 | | 50.0 |
| 16 | | 03M1359LCS | 04/23/03 | | 50.0 |
| 17 | | 03M1359LCSD | 04/23/03 | | 50.0 |
| 18 | MW-4-2 Dup. | 03M1359MD | 04/23/03 | | 50.0 |
| 19 | MW-4-2 MS | 03M1359MS | 04/23/03 | | 50.0 |
| 20 | MW-4-2 MSD | 03M1359MSD | 04/23/03 | | 50.0 |

FORM-14 Metal

Applied P & Ch Laboratory

# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Instrument: | GFAA-E | Method: | 200.9 |
| Batch No.(s): | 03M1360 | Start Date: | 04/23/03 | End Date: | 04/23/03 |

| # | APCL Sample No. | D/F | Time | Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si |
|---|---|---|---|---|
| 1 | AS Position 002 | 1.00 | 12:10 | √ |
| 2 | AS Position 001 | 1.00 | 12:14 | √ |
| 3 | Calib. Blank | 1.00 | 12:18 | √ |
| 4 | 1/2 STD1 1269A | 1.00 | 12:24 | √ |
| 5 | STD1 1269A | 1.00 | 12:30 | √ |
| 6 | STD2 1269B | 1.00 | 12:36 | √ |
| 7 | STD3 1269C | 1.00 | 12:43 | √ |
| 8 | ICV A1271 | 1.00 | 12:59 | √ |
| 9 | ICB | 1.00 | 13:05 | √ |
| 10 | M-BL 03M1360 | 1.00 | 13:11 | √ |
| 11 | LCS-03M1360 | 1.00 | 13:18 | √ |
| 12 | LCSD-03M1360 | 1.00 | 13:24 | √ |
| 13 | 2809-4 S F=1 | 1.00 | 13:31 | √ |
| 14 | 2809-4 D F=1 | 1.00 | 13:37 | √ |
| 15 | 2809-4 1/5 F=5 | 5.00 | 13:44 | √ |
| 16 | 2809-4 MS F=1 | 1.00 | 13:50 | √ |
| 17 | 2809-4 MSD F=1 | 1.00 | 13:57 | √ |
| 18 | 2809-4 PS F=1 | 1.00 | 14:04 | √ |
| 19 | 2809-1 F=1 | 1.00 | 14:10 | √ |
| 20 | CCV A1271 | 1.00 | 14:17 | √ |
| 21 | CCB | 1.00 | 14:23 | √ |
| 22 | 2809-2 F=1 | 1.00 | 14:29 | √ |
| 23 | 2809-3 F=1 | 1.00 | 14:36 | √ |
| 24 | 2809-5 F=1 | 1.00 | 14:42 | √ |
| 25 | 2809-6 F=1 | 1.00 | 14:48 | √ |
| 26 | 2809-7 F=1 | 1.00 | 14:55 | √ |
| 27 | 2809-8 F=1 | 1.00 | 15:01 | √ |
| 28 | 2819-1 F=1 | 1.00 | 15:07 | √ |
| 29 | 2819-2 F=1 | 1.00 | 15:13 | √ |
| 30 | 2819-3 F=1 | 1.00 | 15:20 | √ |
| 31 | CCV A1271 | 1.00 | 15:33 | √ |
| 32 | CCB | 1.00 | 15:39 | √ |
| 33 | 2819-4 F=1 | 1.00 | 15:58 | √ |
| 34 | 2819-5 F=1 | 1.00 | 16:05 | √ |
| 35 | 2819-6 F=1 | 1.00 | 16:12 | √ |
| 36 | 2767-1 F=1 | 1.00 | 16:18 | √ |
| 37 | 2767-2 F=1 | 1.00 | 16:25 | √ |
| 38 | 2767-3 F=1 | 1.00 | 16:31 | √ |
| 39 | 2767-4 F=1 | 1.00 | 16:37 | √ |
| 40 | 2767-5 F=1 | 1.00 | 16:44 | √ |

FORM-14 Metal

Applied P & Ch Laboratory

# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1360E |
| | | Instrument: | GFAA-E | Method: | 200.9 |
| Batch No.(s): | 03M1360 | Start Date: | 04/23/03 | End Date: | 04/23/03 |

| # | APCL Sample No. | D/F | Time | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Mo | Sr | Ti | Sn | Li | B | Si |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | CCV A1271 | 1.00 | 16:50 | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | CCB | 1.00 | 16:56 | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 2767-6 F=1 | 1.00 | 17:02 | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | CCV A1271 | 1.00 | 17:09 | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | CCB | 1.00 | 17:15 | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FORM-14 Metal

Applied P & Ch Laboratory

# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | Start Date: | 04/23/03 | End Date: | 04/23/03 |

| # | APCL Sample No. | D/F | Time | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Mo | Sr | Ti | Sn | Li | B | Si |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Calib Blank | 1.00 | 11:09 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 2 | STD1 1423A | 1.00 | 11:13 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 3 | STD2 1423B | 1.00 | 11:17 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 4 | STD3 1423C | 1.00 | 11:20 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 5 | ICV 1447A | 1.00 | 11:24 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 6 | ICB | 1.00 | 11:31 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 7 | CRI A1432 | 1.00 | 11:34 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 8 | ICSA 1441 | 1.00 | 11:37 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 9 | ICSAB 1443 | 1.00 | 11:40 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 10 | CCV 1447B | 1.00 | 11:43 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 11 | CCB | 1.00 | 11:49 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 12 | Calib Blank | 1.00 | 11:51 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 13 | CCV 1447B | 1.00 | 11:54 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 14 | CCB | 1.00 | 11:57 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 15 | M-BL 03M1359 W | 1.00 | 12:00 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 16 | LCS-03M1359 | 1.00 | 12:04 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 17 | LCSD-03M1359 | 1.00 | 12:08 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 18 | 2809-4 S F=1 | 1.00 | 12:11 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 19 | 2809-4 D F=1 | 1.00 | 12:15 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 20 | 2809-4 1/5 F=5 | 5.00 | 12:18 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 21 | 2809-4 MS F=1 | 1.00 | 12:22 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 22 | 2809-4 MSD F=1 | 1.00 | 12:25 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 23 | 2809-4 PS F=1 | 1.00 | 12:29 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 24 | CCV 1447B | 1.00 | 12:33 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 25 | CCB | 1.00 | 12:36 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 26 | 2809-1 F=1 | 1.00 | 12:40 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 27 | 2809-2 F=1 | 1.00 | 12:43 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 28 | 2809-3 F=1 | 1.00 | 12:46 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 29 | 2809-5 F=1 | 1.00 | 12:50 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 30 | 2809-6 F=1 | 1.00 | 12:53 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 31 | 2809-7 F=1 | 1.00 | 12:57 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 32 | 2809-8 F=1 | 1.00 | 13:00 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 33 | 2822-1 F=1 | 1.00 | 13:03 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 34 | 2820-5 F=1 | 1.00 | 13:07 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 35 | CCV 1447B | 1.00 | 13:11 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 36 | CCB | 1.00 | 13:14 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 37 | 2820-6 F=1 | 1.00 | 13:18 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 38 | 2820-9 F=1 | 1.00 | 13:21 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 39 | 2820-9 F=10 | 10.00 | 13:27 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 40 | 2805-19 F=1 | 1.00 | 13:30 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |

FORM-14 Metal

Applied P & Ch Laboratory

# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | Start Date: | 04/23/03 | End Date: | 04/23/03 |

| # | APCL Sample No. | D/F | Time | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Mo | Sr | Ti | Sn | Li | B | Si |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | 2805-19 F=10 | 10.00 | 13:34 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 42 | 2815-1 F=1 | 1.00 | 13:37 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 43 | CCV 1447B | 1.00 | 13:41 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 44 | CCB | 1.00 | 13:44 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 45 | M-BL 03M1363S | 1.00 | 13:48 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 46 | LCS-03M1363 | 1.00 | 13:52 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 47 | LCSD-03M1363 | 1.00 | 13:55 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 48 | 2805-14 S F=50 | 1.00 | 13:58 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 49 | 2805-14 D F=50 | 1.00 | 14:00 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 50 | 2805-14 1/5 F=2 | 5.00 | 14:04 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 51 | 2805-14 MS F=50 | 1.00 | 14:07 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 52 | 2805-14 MSD F=5 | 1.00 | 14:10 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 53 | 2805-14 PS F=50 | 1.00 | 14:12 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 54 | 2805-1 F=50 | 1.00 | 14:15 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 55 | CCV 1447B | 1.00 | 14:19 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 56 | CCB | 1.00 | 14:22 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 57 | 2805-2 F=50 | 1.00 | 14:25 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 58 | 2805-5 F=50 | 1.00 | 14:28 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 59 | 2805-6 F=50 | 1.00 | 14:30 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 60 | 2805-7 F=200 | 4.00 | 14:38 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 61 | 2805-8 F=200 | 4.00 | 14:44 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 62 | 2805-9 F=200 | 4.00 | 14:51 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 63 | 2805-10 F=200 | 4.00 | 14:57 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 64 | 2805-11 F=50 | 1.00 | 15:01 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 65 | 2805-12 F=200 | 4.00 | 15:09 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 66 | 2805-14 F=200 | 4.00 | 15:12 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 67 | CCV 1447B | 1.00 | 15:16 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 68 | CCB | 1.00 | 15:19 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 69 | 2805-15 F=200 | 4.00 | 15:25 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 70 | 2805-17 F=200 | 4.00 | 15:32 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 71 | 2805-18 F=200 | 4.00 | 15:38 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 72 | 2805-20 F=200 | 4.00 | 15:45 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 73 | 2805-21 F=200 | 4.00 | 15:51 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 74 | 2805-1 F=200 | 4.00 | 15:55 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 75 | 2805-2 F=200 | 4.00 | 15:59 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 76 | 2805-5 F=200 | 4.00 | 16:02 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 77 | 2805-6 F=200 | 4.00 | 16:06 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 78 | CCV 1447B | 1.00 | 16:10 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 79 | CCB | 1.00 | 16:13 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |
| 80 | 2820-1 F=200 | 4.00 | 16:20 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | | |

FORM-14 Metal

Applied P & Ch Laboratory

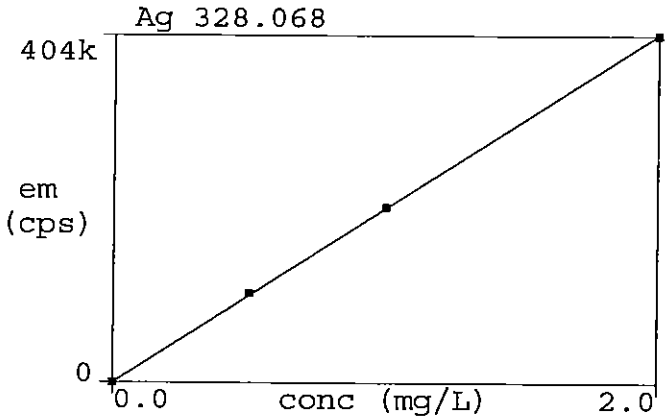
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | GEOFON, Inc. | Project No: | 04-4428.10 | Lab Code: | APCL |
| Project Name: | JPL | Service ID: | 032809 | Sequence No.: | 03M1359M |
| | | Instrument: | ICP -M | Method: | 200.9 |
| Batch No.(s): | 03M1359 | Start Date: | 04/23/03 | End Date: | 04/23/03 |

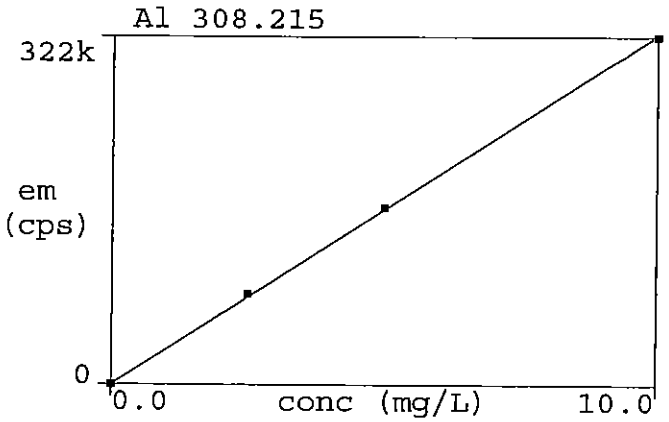
| # | APCL Sample No. | D/F | Time | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Mo | Sr | Ti | Sn | Li | B | Si |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | 2820-2 F=200 | 4.00 | 16:26 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 82 | CCV 1447B | 1.00 | 16:30 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 83 | CCB | 1.00 | 16:33 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 84 | M-BL 03M1364S | 1.00 | 16:38 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 85 | LCS-03M1364 | 1.00 | 16:41 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 86 | LCSD-03M1364 | 1.00 | 16:45 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 87 | 2822-4 S F=50 | 1.00 | 16:48 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 88 | 2822-4 D F=50 | 1.00 | 16:50 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 89 | 2822-4 1/5 F=25 | 5.00 | 16:54 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 90 | 2822-4 MS F=50 | 1.00 | 16:57 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 91 | 2822-4 MSD F=50 | 1.00 | 17:00 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 92 | 2822-4 PS F=50 | 1.00 | 17:02 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 93 | 2822-2 F=200 | 4.00 | 17:08 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 94 | CCV 1447B | 1.00 | 17:12 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 95 | CCB | 1.00 | 17:16 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 96 | 2822-3 F=200 | 4.00 | 17:22 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 97 | 2822-5 F=200 | 4.00 | 17:28 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 98 | 2822-6 F=200 | 4.00 | 17:34 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 99 | 2822-7 F=200 | 4.00 | 17:41 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 100 | Calib Blank | 1.00 | 18:04 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 101 | STD1 1423A | 1.00 | 18:08 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 102 | STD2 1423B | 1.00 | 18:11 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 103 | STD3 1423C | 1.00 | 18:15 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 104 | CCV 1447B | 1.00 | 18:19 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 105 | CCB | 1.00 | 18:22 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 106 | 2822-4 F=200 | 4.00 | 18:26 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 107 | 2822-3 F=200 | 4.00 | 18:29 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 108 | 2822-5 F=200 | 4.00 | 18:33 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 109 | 2822-6 F=200 | 4.00 | 18:37 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 110 | 2822-7 F=200 | 4.00 | 18:41 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 111 | 2822-8 F=200 | 4.00 | 18:44 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 112 | 2822-9 F=200 | 4.00 | 18:48 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 113 | 2822-9 F=250 | 5.00 | 18:55 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 114 | ICSA 1441 | 1.00 | 18:58 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 115 | ICSAB 1443 | 1.00 | 19:00 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 116 | CCV 1447B | 1.00 | 19:04 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 117 | CCB | 1.00 | 19:07 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |
| 118 | DLC A1427 | 1.00 | 19:11 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | | | | |

Calibration

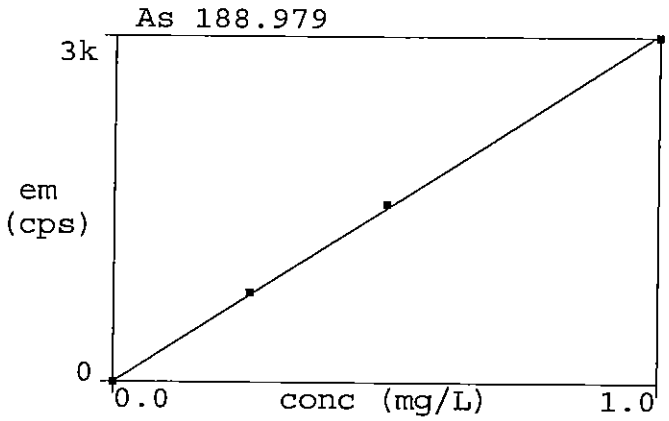
Method: 23ME ICP-M
Result: 03M1359M



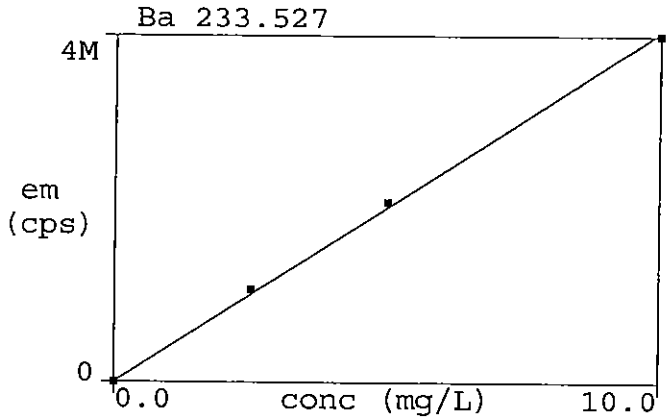

Calib.Eq'n: Linear-thru-Zero
1 Corr. Coeff.: 0.9999



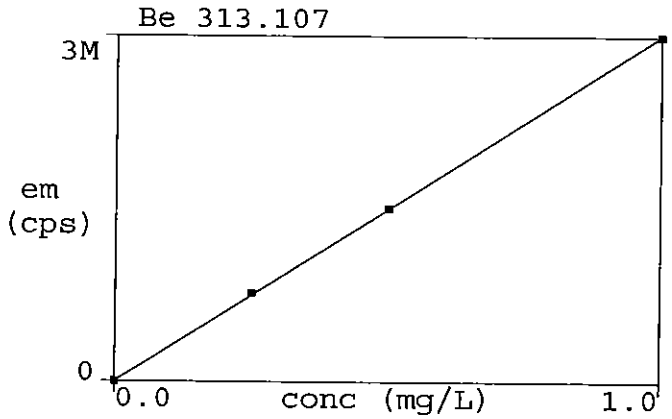

Calib.Eq'n: Linear-thru-Zero
2 Corr. Coeff.: 0.9999



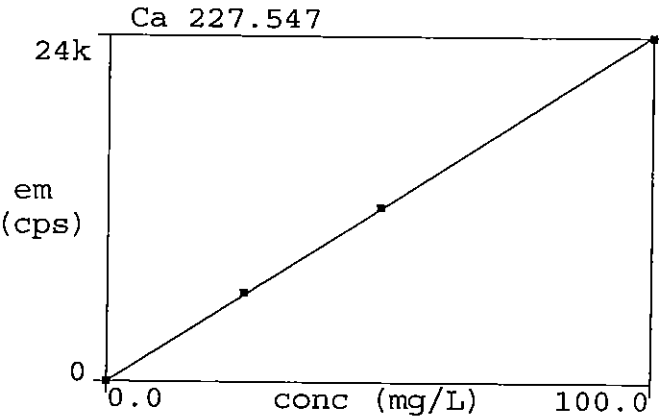

Calib.Eq'n: Linear-thru-Zero
3 Corr. Coeff.: 0.9998




Calib.Eq'n: Linear-thru-Zero
4 Corr. Coeff.: 0.9995

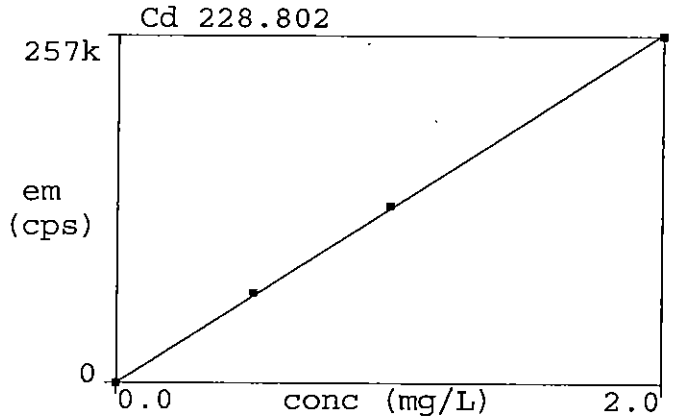



Calib.Eq'n: Linear-thru-Zero
5 Corr. Coeff.: 0.9999

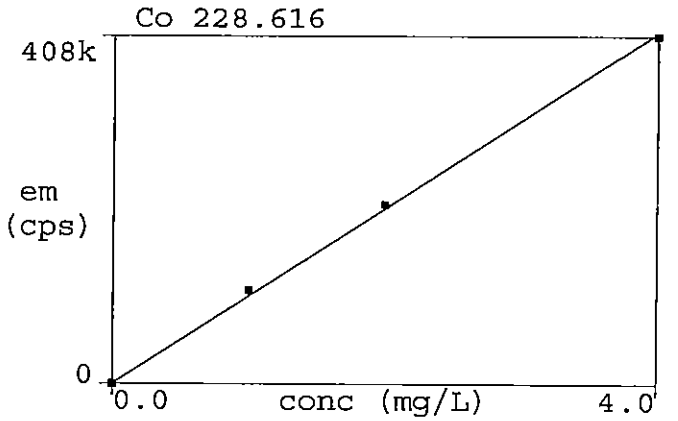



Calib.Eq'n: Linear-thru-Zero
6 Corr. Coeff.: 0.9999

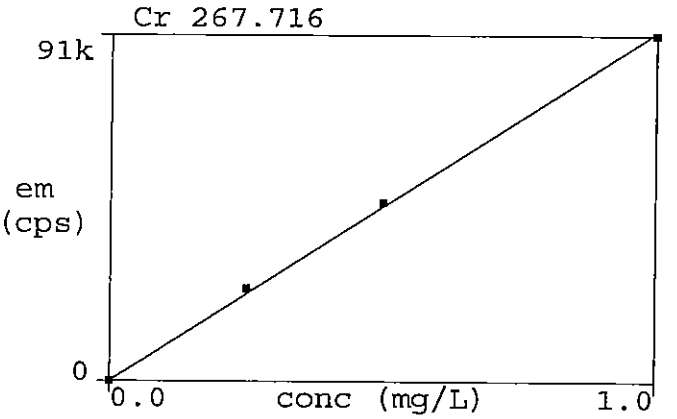
Method: 23ME ICP-M
Result: 03M1359M



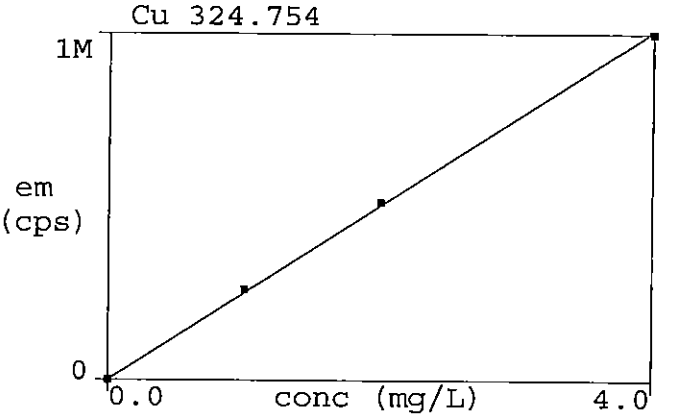

Calib.Eq'n: Linear-thru-Zero
7 Corr. Coeff.: 0.9998



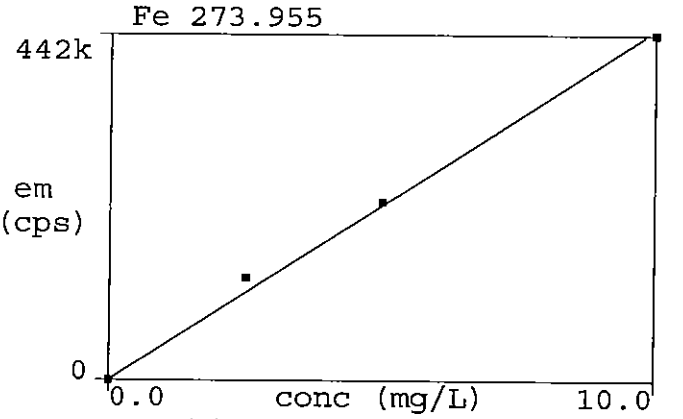

Calib.Eq'n: Linear-thru-Zero
8 Corr. Coeff.: 0.9996



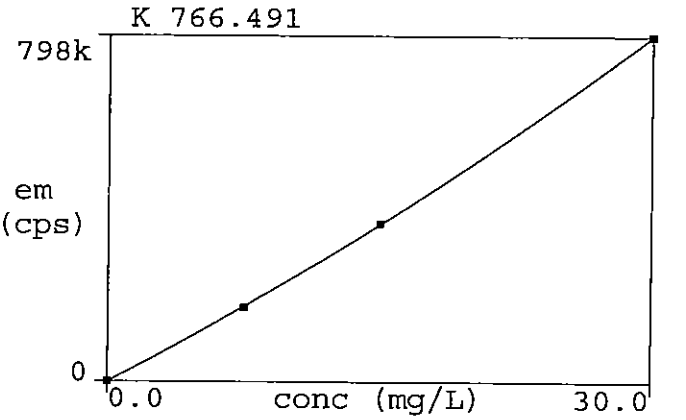

Calib.Eq'n: Linear-thru-Zero
9 Corr. Coeff.: 0.9996




Calib.Eq'n: Linear-thru-Zero
10 Corr. Coeff.: 0.9998

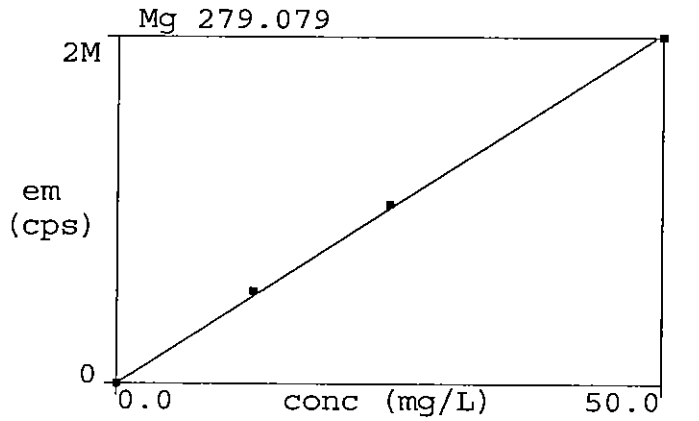



Calib.Eq'n: Linear-thru-Zero
11 Corr. Coeff.: 0.9981

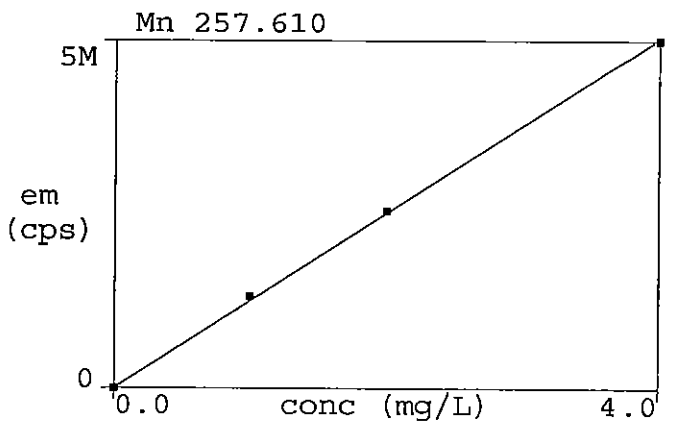



Calib.Eq'n: Non-Linear
12 Corr. Coeff.: 0.9987

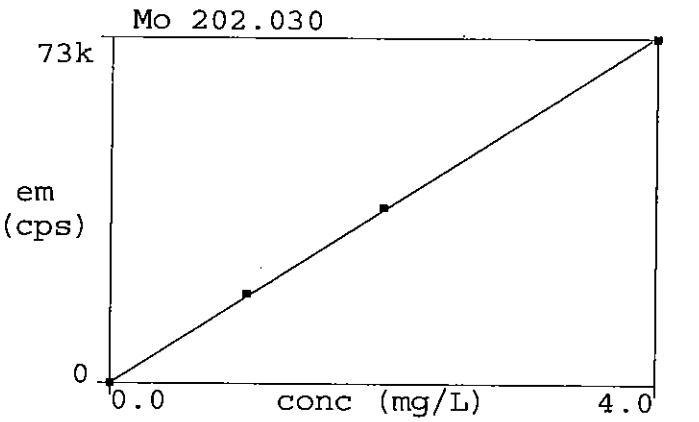
Method: 23ME ICP-M
Result: 03M1359M



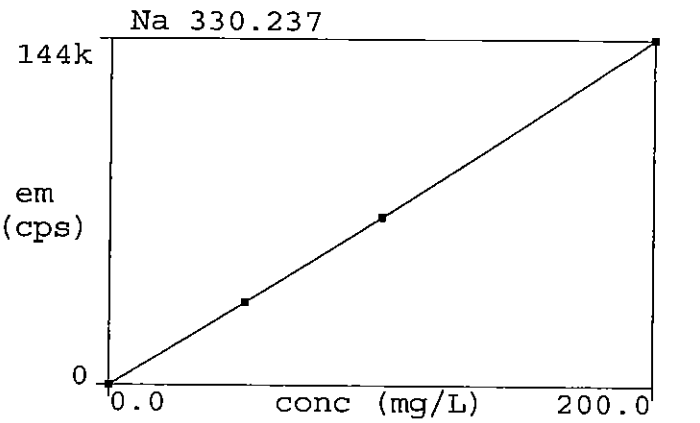

Calib.Eq'n: Linear-thru-Zero
13 Corr. Coeff.: 0.9996



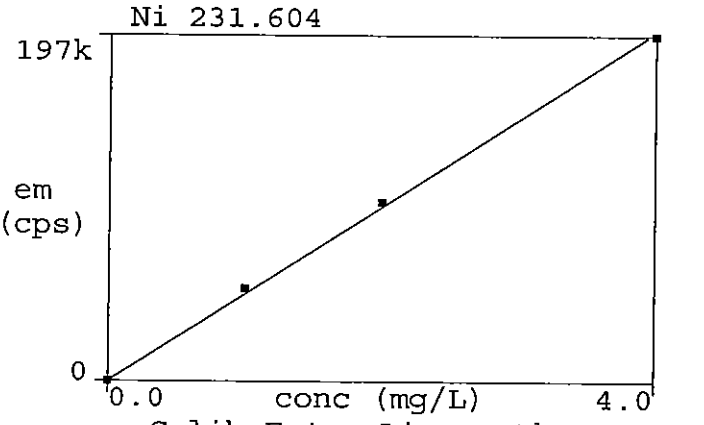

Calib.Eq'n: Linear-thru-Zero
14 Corr. Coeff.: 0.9998



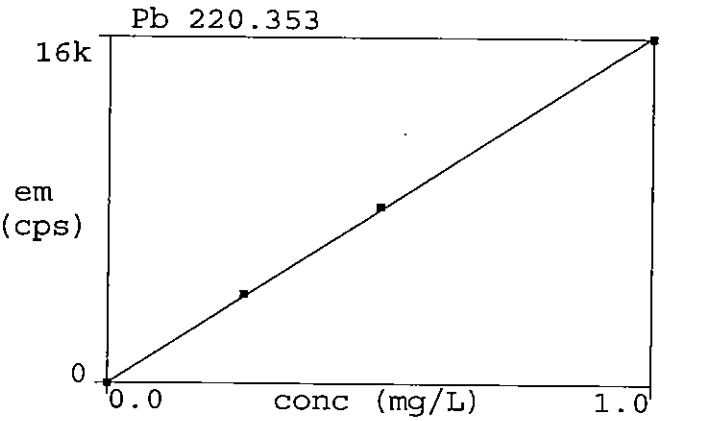

Calib.Eq'n: Linear-thru-Zero
15 Corr. Coeff.: 0.9999




Calib.Eq'n: Non-Linear
16 Corr. Coeff.: 0.9998

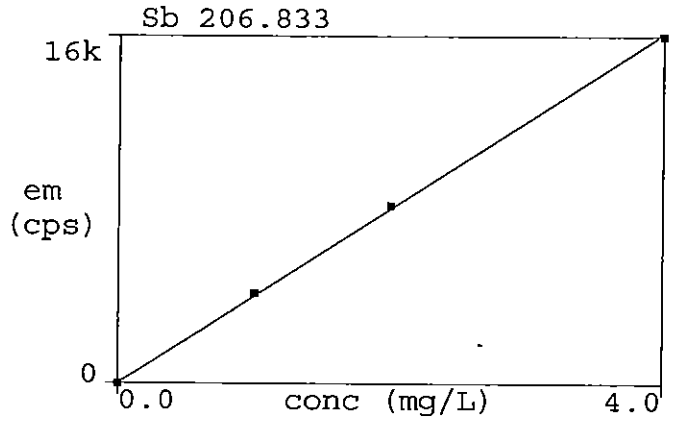



Calib.Eq'n: Linear-thru-Zero
17 Corr. Coeff.: 0.9994

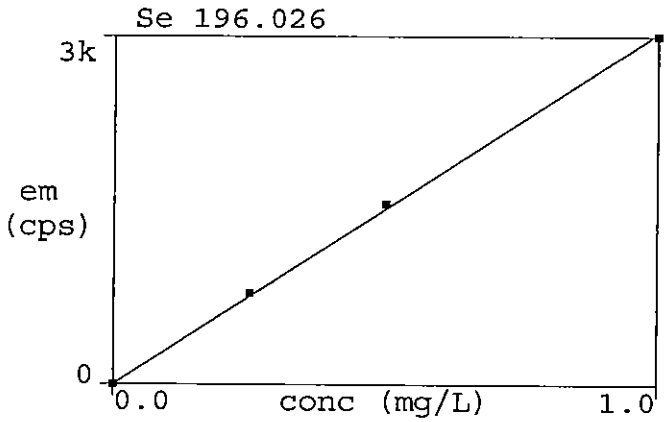



Calib.Eq'n: Linear-thru-Zero
18 Corr. Coeff.: 0.9999

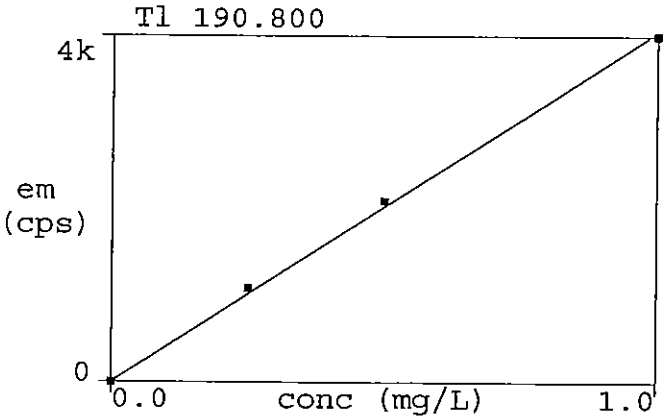
Method: 23ME ICP-M
Result: 03M1359M



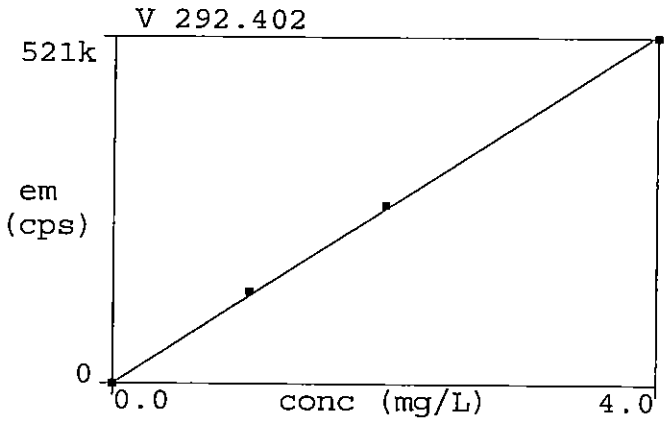

Calib.Eq'n: Linear-thru-Zero
19 Corr. Coeff.: 0.9998



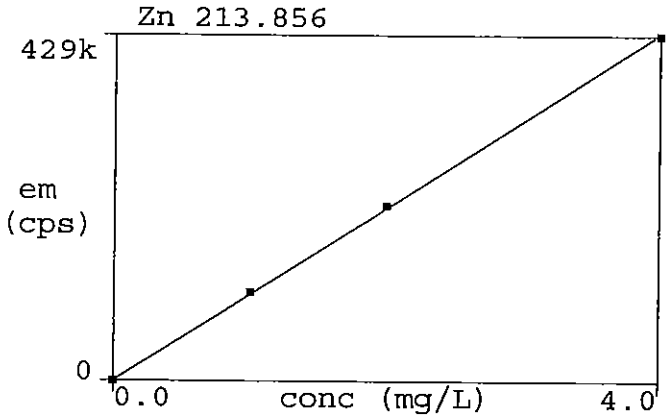

Calib.Eq'n: Linear-thru-Zero
20 Corr. Coeff.: 0.9997




Calib.Eq'n: Linear-thru-Zero
21 Corr. Coeff.: 0.9994




Calib.Eq'n: Linear-thru-Zero
22 Corr. Coeff.: 0.9997




Calib.Eq'n: Linear-thru-Zero
23 Corr. Coeff.: 0.9999

ethod: 23ME ICP-M IEC: 03miecm.iec MSF:
esults: 03M1359M Spectra Stored: Yes Method Stored: Yes
ample Info: 03m1359m User: User1 Date: 4/23/03 11:07:30 AM
ethod Description: 6010B/200.7--23ME 4/16/03

eplicate Data
D: Calib Blank Date: 4/23/03 11:08:52 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units |
|---|---|---|---|---|---|
| 1 | Ag 328.068 | -67.1 | -67.1 | 0 | mg/L |
| 1 | Al 308.215 | 4003.1 | 4003.1 | 0 | mg/L |
| 1 | As 188.979 | 119.9 | 119.9 | 0 | mg/L |
| 1 | Ba 233.527 | -432.7 | -432.7 | 0 | mg/L |
| 1 | Be 313.107 | -882.4 | -882.4 | 0 | mg/L |
| 1 | Ca 227.547 | 569.2 | 569.2 | 0 | mg/L |
| 1 | Cd 228.802 | 240.0 | 240.0 | 0 | mg/L |
| 1 | Co 228.616 | -337.3 | -337.3 | 0 | mg/L |
| 1 | Cr 267.716 | -260.9 | -260.9 | 0 | mg/L |
| 1 | Cu 324.754 | 4129.0 | 4129.0 | 0 | mg/L |
| 1 | Fe 273.955 | 503.2 | 503.2 | 0 | mg/L |
| 1 | K 766.491 | -1915.3 | -1915.3 | 0 | mg/L |
| 1 | Mg 279.079 | 1064.4 | 1064.4 | 0 | mg/L |
| 1 | Mn 257.610 | 894.3 | 894.3 | 0 | mg/L |
| 1 | Mo 202.030 | -58.2 | -58.2 | 0 | mg/L |
| 1 | Na 330.237 | 6502.7 | 6502.7 | 0 | mg/L |
| 1 | Ni 231.604 | -88.1 | -88.1 | 0 | mg/L |
| 1 | Pb 220.353 | -151.4 | -151.4 | 0 | mg/L |
| 1 | Sb 206.833 | -25.3 | -25.3 | 0 | mg/L |
| 1 | Se 196.026 | 65.3 | 65.3 | 0 | mg/L |
| 1 | Tl 190.800 | 197.0 | 197.0 | 0 | mg/L |
| 1 | V 292.402 | 149.3 | 149.3 | 0 | mg/L |
| 1 | Zn 213.856 | -64.0 | -64.0 | 0 | mg/L |
| 2 | Ag 328.068 | 24.6 | 24.6 | 0 | mg/L |
| 2 | Al 308.215 | 4000.2 | 4000.2 | 0 | mg/L |
| 2 | As 188.979 | 124.2 | 124.2 | 0 | mg/L |
| 2 | Ba 233.527 | -424.9 | -424.9 | 0 | mg/L |
| 2 | Be 313.107 | -863.6 | -863.6 | 0 | mg/L |
| 2 | Ca 227.547 | 587.6 | 587.6 | 0 | mg/L |
| 2 | Cd 228.802 | 211.2 | 211.2 | 0 | mg/L |
| 2 | Co 228.616 | -347.8 | -347.8 | 0 | mg/L |
| 2 | Cr 267.716 | -264.0 | -264.0 | 0 | mg/L |
| 2 | Cu 324.754 | 3794.5 | 3794.5 | 0 | mg/L |
| 2 | Fe 273.955 | 350.1 | 350.1 | 0 | mg/L |
| 2 | K 766.491 | -2752.0 | -2752.0 | 0 | mg/L |
| 2 | Mg 279.079 | 1175.8 | 1175.8 | 0 | mg/L |
| 2 | Mn 257.610 | 679.5 | 679.5 | 0 | mg/L |
| 2 | Mo 202.030 | -62.1 | -62.1 | 0 | mg/L |
| 2 | Na 330.237 | 6700.5 | 6700.5 | 0 | mg/L |
| 2 | Ni 231.604 | -96.4 | -96.4 | 0 | mg/L |
| 2 | Pb 220.353 | -167.4 | -167.4 | 0 | mg/L |
| 2 | Sb 206.833 | -13.0 | -13.0 | 0 | mg/L |
| 2 | Se 196.026 | 50.6 | 50.6 | 0 | mg/L |
| 2 | Tl 190.800 | 195.0 | 195.0 | 0 | mg/L |
| 2 | V 292.402 | 132.4 | 132.4 | 0 | mg/L |
| 2 | Zn 213.856 | -142.0 | -142.0 | 0 | mg/L |
| 3 | Ag 328.068 | 108.2 | 108.2 | 0 | mg/L |
| 3 | Al 308.215 | 3847.1 | 3847.1 | 0 | mg/L |
| 3 | As 188.979 | 128.0 | 128.0 | 0 | mg/L |
| 3 | Ba 233.527 | -426.2 | -426.2 | 0 | mg/L |
| 3 | Be 313.107 | -756.8 | -756.8 | 0 | mg/L |
| 3 | Ca 227.547 | 588.6 | 588.6 | 0 | mg/L |
| 3 | Cd 228.802 | 218.0 | 218.0 | 0 | mg/L |
| 3 | Co 228.616 | -356.4 | -356.4 | 0 | mg/L |
| 3 | Cr 267.716 | -285.9 | -285.9 | 0 | mg/L |
| 3 | Cu 324.754 | 3501.7 | 3501.7 | 0 | mg/L |
| 3 | Fe 273.955 | 250.6 | 250.6 | 0 | mg/L |

| | | | |
|---|---|---|---|
| 3 K 766.491 | -2774.1 | -2774.1 | 0 mg/L |
| 3 Mg 279.079 | 1102.6 | 1102.6 | 0 mg/L |
| 3 Mn 257.610 | 694.6 | 694.6 | 0 mg/L |
| 3 Mo 202.030 | -58.1 | -58.1 | 0 mg/L |
| 3 Na 330.237 | 6674.3 | 6674.3 | 0 mg/L |
| 3 Ni 231.604 | -113.5 | -113.5 | 0 mg/L |
| 3 Pb 220.353 | -166.5 | -166.5 | 0 mg/L |
| 3 Sb 206.833 | -14.1 | -14.1 | 0 mg/L |
| 3 Se 196.026 | 48.8 | 48.8 | 0 mg/L |
| 3 Tl 190.800 | 196.4 | 196.4 | 0 mg/L |
| 3 V 292.402 | 124.9 | 124.9 | 0 mg/L |
| 3 Zn 213.856 | -179.6 | -179.6 | 0 mg/L |

ean Data ----------

D: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 4/23/03 11:08:52 AM

| lement | Mean Corr. Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| g 328.068 | 21.9 | 87.70 | 400.35% | 0 | mg/L |
| l 308.215 | 3950.1 | 89.24 | 2.26% | 0 | mg/L |
| s 188.979 | 124.0 | 4.07 | 3.28% | 0 | mg/L |
| a 233.527 | -427.9 | 4.17 | 0.97% | 0 | mg/L |
| e 313.107 | -834.3 | 67.77 | 8.12% | 0 | mg/L |
| a 227.547 | 581.8 | 10.92 | 1.88% | 0 | mg/L |
| d 228.802 | 223.1 | 15.04 | 6.74% | 0 | mg/L |
| o 228.616 | -347.2 | 9.59 | 2.76% | 0 | mg/L |
| r 267.716 | -270.3 | 13.63 | 5.04% | 0 | mg/L |
| u 324.754 | 3808.4 | 313.84 | 8.24% | 0 | mg/L |
| e 273.955 | 368.0 | 127.25 | 34.58% | 0 | mg/L |
| 766.491 | -2480.5 | 489.55 | 19.74% | 0 | mg/L |
| g 279.079 | 1114.3 | 56.61 | 5.08% | 0 | mg/L |
| n 257.610 | 756.1 | 119.90 | 15.86% | 0 | mg/L |
| o 202.030 | -59.5 | 2.29 | 3.85% | 0 | mg/L |
| a 330.237 | 6625.8 | 107.48 | 1.62% | 0 | mg/L |
| i 231.604 | -99.3 | 12.95 | 13.04% | 0 | mg/L |
| o 220.353 | -161.8 | 9.00 | 5.56% | 0 | mg/L |
| o 206.833 | -17.5 | 6.79 | 38.82% | 0 | mg/L |
| e 196.026 | 54.9 | 9.09 | 16.56% | 0 | mg/L |
| l 190.800 | 196.1 | 1.00 | 0.51% | 0 | mg/L |
| 292.402 | 135.6 | 12.48 | 9.21% | 0 | mg/L |
| n 213.856 | -128.6 | 58.96 | 45.86% | 0 | mg/L |

eplicate Data ----------

D: STD1 1423A Date: 4/23/03 11:12:30 AM

| epl# Element | Net Intensity | Corrected Intensity | Conc. | Calib Units |
|---|---|---|---|---|
| 1 Ag 328.068 | 405907.7 | 405885.7 | 2.0000 | mg/L |
| 1 Al 308.215 | 327025.0 | 323074.9 | 10.00 | mg/L |
| 1 As 188.979 | 3000.0 | 2875.9 | 1.000 | mg/L |
| 1 Ba 233.527 | 4121287.8 | 4121715.8 | 10.0000 | mg/L |
| 1 Be 313.107 | 2633995.9 | 2634830.1 | 1.00000 | mg/L |
| 1 Ca 227.547 | 25215.0 | 24633.2 | 100.0 | mg/L |
| 1 Cd 228.802 | 258430.3 | 258207.2 | 2.000 | mg/L |
| 1 Co 228.616 | 410407.9 | 410755.1 | 4.0000 | mg/L |
| 1 Cr 267.716 | 90906.4 | 91176.7 | 1.0000 | mg/L |
| 1 Cu 324.754 | 1174456.0 | 1170647.6 | 4.0000 | mg/L |
| 1 Fe 273.955 | 431110.8 | 430742.8 | 10.00 | mg/L |
| 1 K 766.491 | 795002.4 | 797482.9 | 30.00 | mg/L |
| 1 Mg 279.079 | 2050418.9 | 2049304.6 | 50.00 | mg/L |
| 1 Mn 257.610 | 5274449.0 | 5273692.9 | 4.0000 | mg/L |
| 1 Mo 202.030 | 73383.6 | 73443.1 | 4.000 | mg/L |
| 1 Na 330.237 | 151384.1 | 144758.3 | 200.00 | mg/L |
| 1 Ni 231.604 | 198464.8 | 198564.1 | 4.0000 | mg/L |
| 1 Pb 220.353 | 15710.0 | 15871.8 | 1.000 | mg/L |
| 1 Sb 206.833 | 15840.5 | 15857.9 | 4.000 | mg/L |
| 1 Se 196.026 | 3191.4 | 3136.5 | 1.000 | mg/L |
| 1 Tl 190.800 | 3860.8 | 3664.6 | 1.000 | mg/L |
| 1 V 292.402 | 512696.3 | 512560.7 | 4.0000 | mg/L |
| 1 Zn 213.856 | 431538.8 | 431667.4 | 4.000 | mg/L |

| | | | | |
|---|---|---|---|---|
| 2 Ag 328.068 | 402395.9 | 402374.0 | 2.0000 | mg/L |
| 2 Al 308.215 | 324415.3 | 320465.2 | 10.00 | mg/L |
| 2 As 188.979 | 2974.6 | 2850.6 | 1.000 | mg/L |
| 2 Ba 233.527 | 4268336.3 | 4268764.2 | 10.0000 | mg/L |
| 2 Be 313.107 | 2720720.7 | 2721555.0 | 1.00000 | mg/L |
| 2 Ca 227.547 | 24815.9 | 24234.1 | 100.0 | mg/L |
| 2 Cd 228.802 | 255170.7 | 254947.6 | 2.000 | mg/L |
| 2 Co 228.616 | 404630.2 | 404977.4 | 4.0000 | mg/L |
| 2 Cr 267.716 | 90151.7 | 90422.0 | 1.0000 | mg/L |
| 2 Cu 324.754 | 1218301.6 | 1214493.2 | 4.0000 | mg/L |
| 2 Fe 273.955 | 451648.6 | 451280.6 | 10.00 | mg/L |
| 2 K 766.491 | 793114.5 | 795595.0 | 30.00 | mg/L |
| 2 Mg 279.079 | 2123770.0 | 2122655.7 | 50.00 | mg/L |
| 2 Mn 257.610 | 5277460.3 | 5276704.2 | 4.0000 | mg/L |
| 2 Mo 202.030 | 72874.2 | 72933.6 | 4.000 | mg/L |
| 2 Na 330.237 | 149830.1 | 143204.3 | 200.00 | mg/L |
| 2 Ni 231.604 | 195415.3 | 195514.6 | 4.0000 | mg/L |
| 2 Pb 220.353 | 15454.0 | 15615.8 | 1.000 | mg/L |
| 2 Sb 206.833 | 15629.8 | 15647.3 | 4.000 | mg/L |
| 2 Se 196.026 | 3145.2 | 3090.4 | 1.000 | mg/L |
| 2 Tl 190.800 | 3823.0 | 3626.9 | 1.000 | mg/L |
| 2 V 292.402 | 532532.1 | 532396.5 | 4.0000 | mg/L |
| 2 Zn 213.856 | 424635.8 | 424764.4 | 4.000 | mg/L |
| | | | | |
| 3 Ag 328.068 | 404478.3 | 404456.4 | 2.0000 | mg/L |
| 3 Al 308.215 | 325859.4 | 321909.3 | 10.00 | mg/L |
| 3 As 188.979 | 2993.7 | 2869.6 | 1.000 | mg/L |
| 3 Ba 233.527 | 4179710.9 | 4180138.8 | 10.0000 | mg/L |
| 3 Be 313.107 | 2677660.7 | 2678495.0 | 1.00000 | mg/L |
| 3 Ca 227.547 | 25058.9 | 24477.1 | 100.0 | mg/L |
| 3 Cd 228.802 | 256897.8 | 256674.7 | 2.000 | mg/L |
| 3 Co 228.616 | 407443.0 | 407790.2 | 4.0000 | mg/L |
| 3 Cr 267.716 | 90457.8 | 90728.1 | 1.0000 | mg/L |
| 3 Cu 324.754 | 1196924.2 | 1193115.9 | 4.0000 | mg/L |
| 3 Fe 273.955 | 445499.5 | 445131.5 | 10.00 | mg/L |
| 3 K 766.491 | 799850.2 | 802330.7 | 30.00 | mg/L |
| 3 Mg 279.079 | 2082069.8 | 2080955.5 | 50.00 | mg/L |
| 3 Mn 257.610 | 5321676.8 | 5320920.7 | 4.0000 | mg/L |
| 3 Mo 202.030 | 73507.0 | 73566.5 | 4.000 | mg/L |
| 3 Na 330.237 | 151104.5 | 144478.6 | 200.00 | mg/L |
| 3 Ni 231.604 | 197822.2 | 197921.5 | 4.0000 | mg/L |
| 3 Pb 220.353 | 15772.6 | 15934.4 | 1.000 | mg/L |
| 3 Sb 206.833 | 15771.2 | 15788.7 | 4.000 | mg/L |
| 3 Se 196.026 | 3173.0 | 3118.2 | 1.000 | mg/L |
| 3 Tl 190.800 | 3870.6 | 3674.4 | 1.000 | mg/L |
| 3 V 292.402 | 519244.4 | 519108.8 | 4.0000 | mg/L |
| 3 Zn 213.856 | 429499.9 | 429628.5 | 4.000 | mg/L |

ean Data ----------

D: STD1 1423A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 4/23/03 11:12:30 AM

| lement | Mean Corr. Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| g 328.068 | 404238.7 | 1765.94 | 0.44% | 2.0000 | mg/L |
| l 308.215 | 321816.5 | 1307.30 | 0.41% | 10.00 | mg/L |
| s 188.979 | 2865.4 | 13.22 | 0.46% | 1.000 | mg/L |
| a 233.527 | 4190206.2 | 74039.34 | 1.77% | 10.0000 | mg/L |
| e 313.107 | 2678293.4 | 43362.79 | 1.62% | 1.00000 | mg/L |
| a 227.547 | 24448.2 | 201.13 | 0.82% | 100.0 | mg/L |
| d 228.802 | 256609.8 | 1630.79 | 0.64% | 2.000 | mg/L |
| o 228.616 | 407840.9 | 2889.18 | 0.71% | 4.0000 | mg/L |
| r 267.716 | 90775.6 | 379.56 | 0.42% | 1.0000 | mg/L |
| u 324.754 | 1192752.2 | 21925.05 | 1.84% | 4.0000 | mg/L |
| e 273.955 | 442385.0 | 10540.74 | 2.38% | 10.00 | mg/L |
| 766.491 | 798469.5 | 3474.52 | 0.44% | 30.00 | mg/L |
| g 279.079 | 2084305.3 | 36790.08 | 1.77% | 50.00 | mg/L |
| n 257.610 | 5290439.3 | 26440.61 | 0.50% | 4.0000 | mg/L |
| o 202.030 | 73314.4 | 335.46 | 0.46% | 4.000 | mg/L |
| a 330.237 | 144147.1 | 828.36 | 0.57% | 200.00 | mg/L |
| . 231.604 | 197333.4 | 1607.57 | 0.81% | 4.0000 | mg/L |

| | | | | |
|---|---|---|---|---|
| Pb 220.353 | 15807.3 | 168.82 | 1.07% | 1.000 mg/L |
| Sb 206.833 | 15764.6 | 107.34 | 0.68% | 4.000 mg/L |
| Se 196.026 | 3115.0 | 23.23 | 0.75% | 1.000 mg/L |
| Tl 190.800 | 3655.3 | 25.11 | 0.69% | 1.000 mg/L |
| V 292.402 | 521355.4 | 10106.93 | 1.94% | 4.0000 mg/L |
| Zn 213.856 | 428686.7 | 3546.55 | 0.83% | 4.000 mg/L |

Replicate Data

ID: STD2 1423B Date: 4/23/03 11:16:15 AM

| Repl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units |
|---|---|---|---|---|---|
| 1 | Ag 328.068 | 197240.1 | 197218.2 | 1.0000 | mg/L |
| 1 | Al 308.215 | 161007.6 | 157057.5 | 5.000 | mg/L |
| 1 | As 188.979 | 1598.7 | 1474.6 | 0.500 | mg/L |
| 1 | Ba 233.527 | 2111423.6 | 2111851.5 | 5.0000 | mg/L |
| 1 | Be 313.107 | 1349482.6 | 1350316.9 | 0.50000 | mg/L |
| 1 | Ca 227.547 | 12638.4 | 12056.6 | 50.00 | mg/L |
| 1 | Cd 228.802 | 127104.1 | 126881.0 | 1.000 | mg/L |
| 1 | Co 228.616 | 204022.1 | 204369.3 | 2.0000 | mg/L |
| 1 | Cr 267.716 | 44965.1 | 45235.4 | 0.5000 | mg/L |
| 1 | Cu 324.754 | 594934.1 | 591125.7 | 2.0000 | mg/L |
| 1 | Fe 273.955 | 222636.0 | 222268.0 | 5.000 | mg/L |
| 1 | K 766.491 | 362452.1 | 364932.6 | 15.00 | mg/L |
| 1 | Mg 279.079 | 1043129.3 | 1042015.0 | 25.000 | mg/L |
| 1 | Mn 257.610 | 2704926.9 | 2704170.8 | 2.0000 | mg/L |
| 1 | Mo 202.030 | 35948.2 | 36007.7 | 2.000 | mg/L |
| 1 | Na 330.237 | 74030.8 | 67405.0 | 100.00 | mg/L |
| 1 | Ni 231.604 | 99332.8 | 99432.1 | 2.0000 | mg/L |
| 1 | Pb 220.353 | 7868.3 | 8030.1 | 0.500 | mg/L |
| 1 | Sb 206.833 | 8000.1 | 8017.6 | 2.000 | mg/L |
| 1 | Se 196.026 | 1661.6 | 1606.7 | 0.5000 | mg/L |
| 1 | Tl 190.800 | 2082.1 | 1885.9 | 0.500 | mg/L |
| 1 | V 292.402 | 259651.8 | 259516.2 | 2.0000 | mg/L |
| 1 | Zn 213.856 | 211566.5 | 211695.1 | 2.000 | mg/L |
| 2 | Ag 328.068 | 209044.8 | 209022.9 | 1.0000 | mg/L |
| 2 | Al 308.215 | 171705.5 | 167755.4 | 5.000 | mg/L |
| 2 | As 188.979 | 1618.4 | 1494.3 | 0.500 | mg/L |
| 2 | Ba 233.527 | 2235746.7 | 2236174.7 | 5.0000 | mg/L |
| 2 | Be 313.107 | 1387402.6 | 1388236.9 | 0.50000 | mg/L |
| 2 | Ca 227.547 | 13289.3 | 12707.5 | 50.00 | mg/L |
| 2 | Cd 228.802 | 134579.7 | 134356.6 | 1.000 | mg/L |
| 2 | Co 228.616 | 215394.0 | 215741.2 | 2.0000 | mg/L |
| 2 | Cr 267.716 | 47677.6 | 47947.9 | 0.5000 | mg/L |
| 2 | Cu 324.754 | 629919.5 | 626111.1 | 2.0000 | mg/L |
| 2 | Fe 273.955 | 235445.7 | 235077.8 | 5.000 | mg/L |
| 2 | K 766.491 | 380373.5 | 382854.0 | 15.00 | mg/L |
| 2 | Mg 279.079 | 1108106.6 | 1106992.4 | 25.000 | mg/L |
| 2 | Mn 257.610 | 2771144.3 | 2770388.1 | 2.0000 | mg/L |
| 2 | Mo 202.030 | 38260.1 | 38319.6 | 2.000 | mg/L |
| 2 | Na 330.237 | 78582.9 | 71957.1 | 100.00 | mg/L |
| 2 | Ni 231.604 | 104971.2 | 105070.5 | 2.0000 | mg/L |
| 2 | Pb 220.353 | 7935.7 | 8097.5 | 0.500 | mg/L |
| 2 | Sb 206.833 | 8088.6 | 8106.1 | 2.000 | mg/L |
| 2 | Se 196.026 | 1669.9 | 1615.1 | 0.5000 | mg/L |
| 2 | Tl 190.800 | 2115.3 | 1919.2 | 0.500 | mg/L |
| 2 | V 292.402 | 275269.9 | 275134.4 | 2.0000 | mg/L |
| 2 | Zn 213.856 | 224237.2 | 224365.8 | 2.000 | mg/L |
| 3 | Ag 328.068 | 205718.7 | 205696.8 | 1.0000 | mg/L |
| 3 | Al 308.215 | 168565.0 | 164614.9 | 5.000 | mg/L |
| 3 | As 188.979 | 1597.0 | 1472.9 | 0.500 | mg/L |
| 3 | Ba 233.527 | 2198489.5 | 2198917.4 | 5.0000 | mg/L |
| 3 | Be 313.107 | 1303916.9 | 1304751.2 | 0.50000 | mg/L |
| 3 | Ca 227.547 | 13047.5 | 12465.7 | 50.00 | mg/L |
| 3 | Cd 228.802 | 132605.5 | 132382.4 | 1.000 | mg/L |
| 3 | Co 228.616 | 212005.4 | 212352.6 | 2.0000 | mg/L |
| 3 | Cr 267.716 | 46776.6 | 47046.9 | 0.5000 | mg/L |
| 3 | Cu 324.754 | 619770.7 | 615962.3 | 2.0000 | mg/L |
| 3 | Fe 273.955 | 230631.8 | 230263.8 | 5.000 | mg/L |

| | | | |
|---|---|---|---|
| 3 K 766.491 | 348526.7 | 351007.2 | 15.00 mg/L |
| 3 Mg 279.079 | 1087082.9 | 1085968.6 | 25.000 mg/L |
| 3 Mn 257.610 | 2604754.6 | 2603998.5 | 2.0000 mg/L |
| 3 Mo 202.030 | 37708.8 | 37768.3 | 2.000 mg/L |
| 3 Na 330.237 | 77109.9 | 70484.1 | 100.00 mg/L |
| 3 Ni 231.604 | 103507.5 | 103606.8 | 2.0000 mg/L |
| 3 Pb 220.353 | 7981.7 | 8143.5 | 0.500 mg/L |
| 3 Sb 206.833 | 8108.8 | 8126.2 | 2.000 mg/L |
| 3 Se 196.026 | 1678.4 | 1623.5 | 0.5000 mg/L |
| 3 Tl 190.800 | 2121.5 | 1925.4 | 0.500 mg/L |
| 3 V 292.402 | 270276.8 | 270141.3 | 2.0000 mg/L |
| 3 Zn 213.856 | 220412.3 | 220540.9 | 2.000 mg/L |

ean Data

D: STD2 1423B Seq. No.: 3 A/S Pos: 3
Data: Original Date: 4/23/03 11:16:15 AM

| lement | Mean Corr. Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| g 328.068 | 203979.3 | 6086.91 | 2.98% | 1.0000 | mg/L |
| l 308.215 | 163142.6 | 5498.85 | 3.37% | 5.000 | mg/L |
| s 188.979 | 1480.6 | 11.91 | 0.80% | 0.500 | mg/L |
| a 233.527 | 2182314.5 | 63802.84 | 2.92% | 5.0000 | mg/L |
| e 313.107 | 1347768.3 | 41801.14 | 3.10% | 0.50000 | mg/L |
| a 227.547 | 12409.9 | 329.01 | 2.65% | 50.00 | mg/L |
| d 228.802 | 131206.7 | 3874.00 | 2.95% | 1.000 | mg/L |
| o 228.616 | 210821.0 | 5838.60 | 2.77% | 2.0000 | mg/L |
| r 267.716 | 46743.4 | 1381.47 | 2.96% | 0.5000 | mg/L |
| u 324.754 | 611066.4 | 17999.23 | 2.95% | 2.0000 | mg/L |
| e 273.955 | 229203.2 | 6470.39 | 2.82% | 5.000 | mg/L |
| 766.491 | 366264.6 | 15965.14 | 4.36% | 15.00 | mg/L |
| g 279.079 | 1078325.3 | 33156.12 | 3.07% | 25.000 | mg/L |
| n 257.610 | 2692852.5 | 83770.26 | 3.11% | 2.0000 | mg/L |
| o 202.030 | 37365.2 | 1207.51 | 3.23% | 2.000 | mg/L |
| a 330.237 | 69948.7 | 2322.78 | 3.32% | 100.00 | mg/L |
| i 231.604 | 102703.2 | 2925.81 | 2.85% | 2.0000 | mg/L |
| o 220.353 | 8090.3 | 57.04 | 0.71% | 0.500 | mg/L |
| o 206.833 | 8083.3 | 57.80 | 0.72% | 2.000 | mg/L |
| e 196.026 | 1615.1 | 8.39 | 0.52% | 0.5000 | mg/L |
| l 190.800 | 1910.2 | 21.21 | 1.11% | 0.500 | mg/L |
| 292.402 | 268264.0 | 7976.52 | 2.97% | 2.0000 | mg/L |
| n 213.856 | 218867.3 | 6499.03 | 2.97% | 2.000 | mg/L |

eplicate Data

D: STD3 1423C Date: 4/23/03 11:19:52 AM

| epl# Element | Net Intensity | Corrected Intensity | Conc. | Calib Units |
|---|---|---|---|---|
| 1 Ag 328.068 | 105426.3 | 105404.4 | 0.5000 | mg/L |
| 1 Al 308.215 | 89084.2 | 85134.0 | 2.500 | mg/L |
| 1 As 188.979 | 862.6 | 738.6 | 0.250 | mg/L |
| 1 Ba 233.527 | 1134287.5 | 1134715.4 | 2.5000 | mg/L |
| 1 Be 313.107 | 695082.8 | 695917.1 | 0.25000 | mg/L |
| 1 Ca 227.547 | 6889.8 | 6308.0 | 25.00 | mg/L |
| 1 Cd 228.802 | 67964.2 | 67741.2 | 0.500 | mg/L |
| 1 Co 228.616 | 110661.8 | 111009.0 | 1.0000 | mg/L |
| 1 Cr 267.716 | 24385.3 | 24655.6 | 0.2500 | mg/L |
| 1 Cu 324.754 | 320461.9 | 316653.5 | 1.0000 | mg/L |
| 1 Fe 273.955 | 133272.1 | 132904.1 | 2.500 | mg/L |
| 1 K 766.491 | 168571.5 | 171052.0 | 7.500 | mg/L |
| 1 Mg 279.079 | 561991.3 | 560877.0 | 12.500 | mg/L |
| 1 Mn 257.610 | 1418986.0 | 1418229.8 | 1.0000 | mg/L |
| 1 Mo 202.030 | 19114.4 | 19173.9 | 1.000 | mg/L |
| 1 Na 330.237 | 41468.5 | 34842.7 | 50.00 | mg/L |
| 1 Ni 231.604 | 53826.5 | 53925.9 | 1.0000 | mg/L |
| 1 Pb 220.353 | 3914.2 | 4076.0 | 0.250 | mg/L |
| 1 Sb 206.833 | 4093.9 | 4111.4 | 1.000 | mg/L |
| 1 Se 196.026 | 883.0 | 828.1 | 0.250 | mg/L |
| 1 Tl 190.800 | 1184.0 | 987.9 | 0.250 | mg/L |
| 1 V 292.402 | 140433.7 | 140298.2 | 1.0000 | mg/L |
| 1 Zn 213.856 | 111676.8 | 111805.4 | 1.000 | mg/L |

| | | | | |
|---|---|---|---|---|
| 2 | Ag 328.068 | 105101.7 | 105079.8 | 0.5000 mg/L |
| 2 | Al 308.215 | 89188.4 | 85238.2 | 2.500 mg/L |
| 2 | As 188.979 | 865.1 | 741.1 | 0.250 mg/L |
| 2 | Ba 233.527 | 1126675.6 | 1127103.6 | 2.5000 mg/L |
| 2 | Be 313.107 | 692153.1 | 692987.4 | 0.25000 mg/L |
| 2 | Ca 227.547 | 6868.9 | 6287.2 | 25.00 mg/L |
| 2 | Cd 228.802 | 67677.1 | 67454.0 | 0.500 mg/L |
| 2 | Co 228.616 | 110011.6 | 110358.8 | 1.0000 mg/L |
| 2 | Cr 267.716 | 24098.5 | 24368.8 | 0.2500 mg/L |
| 2 | Cu 324.754 | 320223.5 | 316415.2 | 1.0000 mg/L |
| 2 | Fe 273.955 | 132613.1 | 132245.2 | 2.500 mg/L |
| 2 | K 766.491 | 169028.2 | 171508.7 | 7.500 mg/L |
| 2 | Mg 279.079 | 558839.2 | 557724.9 | 12.500 mg/L |
| 2 | Mn 257.610 | 1408915.5 | 1408159.3 | 1.0000 mg/L |
| 2 | Mo 202.030 | 19037.9 | 19097.4 | 1.000 mg/L |
| 2 | Na 330.237 | 41397.5 | 34771.6 | 50.00 mg/L |
| 2 | Ni 231.604 | 53952.9 | 54052.2 | 1.0000 mg/L |
| 2 | Pb 220.353 | 3938.0 | 4099.8 | 0.250 mg/L |
| 2 | Sb 206.833 | 4082.2 | 4099.6 | 1.000 mg/L |
| 2 | Se 196.026 | 866.2 | 811.3 | 0.250 mg/L |
| 2 | Tl 190.800 | 1183.3 | 987.2 | 0.250 mg/L |
| 2 | V 292.402 | 139191.1 | 139055.6 | 1.0000 mg/L |
| 2 | Zn 213.856 | 111774.1 | 111902.7 | 1.000 mg/L |
| 3 | Ag 328.068 | 101787.9 | 101766.0 | 0.5000 mg/L |
| 3 | Al 308.215 | 86152.0 | 82201.9 | 2.500 mg/L |
| 3 | As 188.979 | 867.9 | 743.8 | 0.250 mg/L |
| 3 | Ba 233.527 | 1107379.2 | 1107807.1 | 2.5000 mg/L |
| 3 | Be 313.107 | 678076.8 | 678911.1 | 0.25000 mg/L |
| 3 | Ca 227.547 | 6855.3 | 6273.5 | 25.00 mg/L |
| 3 | Cd 228.802 | 65758.7 | 65535.6 | 0.500 mg/L |
| 3 | Co 228.616 | 106879.8 | 107227.0 | 1.0000 mg/L |
| 3 | Cr 267.716 | 23525.2 | 23795.5 | 0.2500 mg/L |
| 3 | Cu 324.754 | 309934.6 | 306126.2 | 1.0000 mg/L |
| 3 | Fe 273.955 | 128263.7 | 127895.7 | 2.500 mg/L |
| 3 | K 766.491 | 165642.4 | 168122.9 | 7.500 mg/L |
| 3 | Mg 279.079 | 549431.2 | 548316.9 | 12.500 mg/L |
| 3 | Mn 257.610 | 1387336.0 | 1386579.8 | 1.0000 mg/L |
| 3 | Mo 202.030 | 18997.6 | 19057.1 | 1.000 mg/L |
| 3 | Na 330.237 | 40415.2 | 33789.4 | 50.00 mg/L |
| 3 | Ni 231.604 | 52209.6 | 52309.0 | 1.0000 mg/L |
| 3 | Pb 220.353 | 3908.4 | 4070.2 | 0.250 mg/L |
| 3 | Sb 206.833 | 4063.5 | 4081.0 | 1.000 mg/L |
| 3 | Se 196.026 | 864.0 | 809.2 | 0.250 mg/L |
| 3 | Tl 190.800 | 1177.2 | 981.1 | 0.250 mg/L |
| 3 | V 292.402 | 135044.9 | 134909.4 | 1.0000 mg/L |
| 3 | Zn 213.856 | 108250.8 | 108379.4 | 1.000 mg/L |

ean Data ----------

): STD3 1423C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 4/23/03 11:19:52 AM

| lement | Mean Corr. Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| g 328.068 | 104083.4 | 2013.48 | 1.93% | 0.5000 | mg/L |
| l 308.215 | 84191.4 | 1723.73 | 2.05% | 2.500 | mg/L |
| s 188.979 | 741.2 | 2.63 | 0.35% | 0.250 | mg/L |
| a 233.527 | 1123208.7 | 13870.55 | 1.23% | 2.5000 | mg/L |
| e 313.107 | 689271.9 | 9091.46 | 1.32% | 0.25000 | mg/L |
| a 227.547 | 6289.5 | 17.36 | 0.28% | 25.00 | mg/L |
| d 228.802 | 66910.3 | 1199.11 | 1.79% | 0.500 | mg/L |
| o 228.616 | 109531.6 | 2022.13 | 1.85% | 1.0000 | mg/L |
| r 267.716 | 24273.3 | 437.94 | 1.80% | 0.2500 | mg/L |
| u 324.754 | 313064.9 | 6010.34 | 1.92% | 1.0000 | mg/L |
| e 273.955 | 131015.0 | 2721.38 | 2.08% | 2.500 | mg/L |
| 766.491 | 170227.9 | 1837.20 | 1.08% | 7.500 | mg/L |
| g 279.079 | 555639.6 | 6534.56 | 1.18% | 12.500 | mg/L |
| n 257.610 | 1404323.0 | 16169.99 | 1.15% | 1.0000 | mg/L |
| o 202.030 | 19109.4 | 59.32 | 0.31% | 1.000 | mg/L |
| a 330.237 | 34467.9 | 588.69 | 1.71% | 50.00 | mg/L |
| . 231.604 | 53429.0 | 972.04 | 1.82% | 1.0000 | mg/L |

| | | | | |
|---|---|---|---|---|
| b 220.353 | 4082.0 | 15.67 | 0.38% | 0.250 mg/L |
| b 206.833 | 4097.3 | 15.34 | 0.37% | 1.000 mg/L |
| e 196.026 | 816.2 | 10.39 | 1.27% | 0.250 mg/L |
| l 190.800 | 985.4 | 3.74 | 0.38% | 0.250 mg/L |
| 292.402 | 138087.7 | 2821.76 | 2.04% | 1.0000 mg/L |
| n 213.856 | 110695.8 | 2006.66 | 1.81% | 1.000 mg/L |

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 11:20:56 AM

| lement | Stds | Equation | Intercept | Slope | Curvature | Corr. Coeff. |
|---|---|---|---|---|---|---|
| g 328.068 | 3 | Linear-thru-Zero | 0.0 | 202761.6 | 0.00000 | 0.999942 |
| l 308.215 | 3 | Linear-thru-Zero | 0.0 | 32338.0 | 0.00000 | 0.999862 |
| s 188.979 | 3 | Linear-thru-Zero | 0.0 | 2888.4 | 0.00000 | 0.999757 |
| a 233.527 | 3 | Linear-thru-Zero | 0.0 | 423784.1 | 0.00000 | 0.999473 |
| e 313.107 | 3 | Linear-thru-Zero | 0.0 | 2685329.9 | 0.00000 | 0.999950 |
| a 227.547 | 3 | Linear-thru-Zero | 0.0 | 245.5 | 0.00000 | 0.999922 |
| d 228.802 | 3 | Linear-thru-Zero | 0.0 | 129120.3 | 0.00000 | 0.999828 |
| o 228.616 | 3 | Linear-thru-Zero | 0.0 | 102978.0 | 0.00000 | 0.999552 |
| r 267.716 | 3 | Linear-thru-Zero | 0.0 | 91592.9 | 0.00000 | 0.999623 |
| u 324.754 | 3 | Linear-thru-Zero | 0.0 | 300295.6 | 0.00000 | 0.999782 |
| e 273.955 | 3 | Linear-thru-Zero | 0.0 | 44932.6 | 0.00000 | 0.998106 |
| 766.491 | 3 | Non-Linear | -1017.1 | 22038.8 | 154.06843 | 0.998652 |
| g 279.079 | 3 | Linear-thru-Zero | 0.0 | 42093.4 | 0.00000 | 0.999596 |
| n 257.610 | 3 | Linear-thru-Zero | 0.0 | 1331037.4 | 0.00000 | 0.999760 |
| o 202.030 | 3 | Linear-thru-Zero | 0.0 | 18433.2 | 0.00000 | 0.999852 |
| a 330.237 | 3 | Non-Linear | 5.4 | 678.4 | 0.21158 | 0.999846 |
| i 231.604 | 3 | Linear-thru-Zero | 0.0 | 49912.8 | 0.00000 | 0.999403 |
| o 220.353 | 3 | Linear-thru-Zero | 0.0 | 15903.3 | 0.00000 | 0.999856 |
| o 206.833 | 3 | Linear-thru-Zero | 0.0 | 3967.7 | 0.00000 | 0.999819 |
| e 196.026 | 3 | Linear-thru-Zero | 0.0 | 3144.1 | 0.00000 | 0.999666 |
| l 190.800 | 3 | Linear-thru-Zero | 0.0 | 3700.4 | 0.00000 | 0.999381 |
| 292.402 | 3 | Linear-thru-Zero | 0.0 | 131430.3 | 0.00000 | 0.999694 |
| n 213.856 | 3 | Linear-thru-Zero | 0.0 | 107770.3 | 0.00000 | 0.999875 |

eplicate Data

D: ICV 1447A Date: 4/23/03 11:23:40 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 394135.9 | 394114.0 | 1.944 | mg/L | | |
| 1 | Al 308.215 | 316966.3 | 313016.2 | 9.680 | mg/L | | |
| 1 | As 188.979 | 2920.0 | 2796.0 | 0.9787 | mg/L | | |
| 1 | Ba 233.527 | 4216575.0 | 4217002.9 | 9.951 | mg/L | | |
| 1 | Be 313.107 | 2606363.4 | 2607197.7 | 0.9709 | mg/L | | |
| 1 | Ca 227.547 | 24198.0 | 23616.2 | 96.19 | mg/L | | |
| 1 | Cd 228.802 | 248719.3 | 248496.2 | 1.925 | mg/L | | |
| 1 | Co 228.616 | 395472.6 | 395819.8 | 3.844 | mg/L | | |
| 1 | Cr 267.716 | 88596.7 | 88867.0 | 0.9702 | mg/L | | |
| 1 | Cu 324.754 | 1191828.5 | 1188020.2 | 3.956 | mg/L | | |
| 1 | Fe 273.955 | 434060.2 | 433692.2 | 9.652 | mg/L | | |
| 1 | K 766.491 | 788457.0 | 790937.5 | 29.75 | mg/L | | |
| 1 | Mg 279.079 | 2090605.6 | 2089491.3 | 49.64 | mg/L | | |
| 1 | Mn 257.610 | 5148659.0 | 5147902.9 | 3.868 | mg/L | | |
| 1 | Mo 202.030 | 71093.8 | 71153.3 | 3.860 | mg/L | | |
| 1 | Na 330.237 | 148127.7 | 141501.8 | 196.5 | mg/L | | |
| 1 | Ni 231.604 | 190144.1 | 190243.4 | 3.812 | mg/L | | |
| 1 | Pb 220.353 | 15113.8 | 15275.6 | 0.9605 | mg/L | | |
| 1 | Sb 206.833 | 15484.7 | 15502.2 | 3.879 | mg/L | | |
| 1 | Se 196.026 | 3095.1 | 3040.2 | 0.9694 | mg/L | | |
| 1 | Tl 190.800 | 3812.6 | 3616.4 | 0.9733 | mg/L | | |
| 1 | V 292.402 | 525933.5 | 525798.0 | 4.001 | mg/L | | |
| 1 | Zn 213.856 | 413738.2 | 413866.8 | 3.840 | mg/L | | |
| 2 | Ag 328.068 | 392257.8 | 392235.9 | 1.934 | mg/L | | |
| 2 | Al 308.215 | 315294.4 | 311344.2 | 9.628 | mg/L | | |
| 2 | As 188.979 | 2941.9 | 2817.8 | 0.9862 | mg/L | | |
| 2 | Ba 233.527 | 4151021.1 | 4151449.0 | 9.796 | mg/L | | |
| 2 | Be 313.107 | 2647164.2 | 2647998.5 | 0.9861 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Ca 227.547 | 24349.4 | 23767.7 | 96.80 | mg/L |
| 2 Cd 228.802 | 247944.7 | 247721.6 | 1.919 | mg/L |
| 2 Co 228.616 | 394270.7 | 394617.9 | 3.832 | mg/L |
| 2 Cr 267.716 | 88175.5 | 88445.8 | 0.9656 | mg/L |
| 2 Cu 324.754 | 1176793.8 | 1172985.4 | 3.906 | mg/L |
| 2 Fe 273.955 | 432661.3 | 432293.3 | 9.621 | mg/L |
| 2 K 766.491 | 800311.9 | 802792.4 | 30.13 | mg/L |
| 2 Mg 279.079 | 2058633.6 | 2057519.3 | 48.88 | mg/L |
| 2 Mn 257.610 | 5232553.3 | 5231797.2 | 3.931 | mg/L |
| 2 Mo 202.030 | 70907.5 | 70966.9 | 3.850 | mg/L |
| 2 Na 330.237 | 147239.8 | 140613.9 | 195.4 | mg/L |
| 2 Ni 231.604 | 190208.6 | 190307.9 | 3.813 | mg/L |
| 2 Pb 220.353 | 15099.1 | 15260.9 | 0.9596 | mg/L |
| 2 Sb 206.833 | 15526.3 | 15543.8 | 3.889 | mg/L |
| 2 Se 196.026 | 3110.6 | 3055.8 | 0.9743 | mg/L |
| 2 Tl 190.800 | 3817.7 | 3621.6 | 0.9748 | mg/L |
| 2 V 292.402 | 516901.3 | 516765.8 | 3.932 | mg/L |
| 2 Zn 213.856 | 413288.5 | 413417.1 | 3.836 | mg/L |
| | | | | |
| 3 Ag 328.068 | 407688.5 | 407666.6 | 2.011 | mg/L |
| 3 Al 308.215 | 327803.0 | 323852.9 | 10.01 | mg/L |
| 3 As 188.979 | 2921.1 | 2797.0 | 0.9794 | mg/L |
| 3 Ba 233.527 | 4080801.3 | 4081229.3 | 9.630 | mg/L |
| 3 Be 313.107 | 2666922.0 | 2667756.3 | 0.9935 | mg/L |
| 3 Ca 227.547 | 24888.7 | 24307.0 | 99.00 | mg/L |
| 3 Cd 228.802 | 256392.3 | 256169.2 | 1.984 | mg/L |
| 3 Co 228.616 | 407192.1 | 407539.3 | 3.958 | mg/L |
| 3 Cr 267.716 | 91362.7 | 91633.0 | 1.000 | mg/L |
| 3 Cu 324.754 | 1162139.1 | 1158330.7 | 3.857 | mg/L |
| 3 Fe 273.955 | 448310.5 | 447942.6 | 9.969 | mg/L |
| 3 K 766.491 | 799528.1 | 802008.6 | 30.10 | mg/L |
| 3 Mg 279.079 | 2021446.1 | 2020331.8 | 48.00 | mg/L |
| 3 Mn 257.610 | 5260895.9 | 5260139.8 | 3.952 | mg/L |
| 3 Mo 202.030 | 73594.1 | 73653.6 | 3.996 | mg/L |
| 3 Na 330.237 | 152711.6 | 146085.8 | 202.5 | mg/L |
| 3 Ni 231.604 | 196215.8 | 196315.2 | 3.933 | mg/L |
| 3 Pb 220.353 | 15579.7 | 15741.5 | 0.9898 | mg/L |
| 3 Sb 206.833 | 15499.2 | 15516.7 | 3.882 | mg/L |
| 3 Se 196.026 | 3117.0 | 3062.1 | 0.9764 | mg/L |
| 3 Tl 190.800 | 3800.7 | 3604.5 | 0.9701 | mg/L |
| 3 V 292.402 | 506850.7 | 506715.2 | 3.855 | mg/L |
| 3 Zn 213.856 | 427729.8 | 427858.4 | 3.970 | mg/L |

ean Data ----------

): ICV 1447A Seq. No.: 5 Sample No.: 1 A/S Pos: 5

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:23:40 AM

| ement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| 328.068 | 398005.5 | 1.963 | 0.0415 | mg/L | | | | 2.12% |
| 308.215 | 316071.1 | 9.774 | 0.2100 | mg/L | | | | 2.15% |
| 188.979 | 2803.6 | 0.9814 | 0.00417 | mg/L | | | | 0.42% |
| 233.527 | 4149893.7 | 9.792 | 0.1602 | mg/L | | | | 1.64% |
| 313.107 | 2640984.2 | 0.9835 | 0.01150 | mg/L | | | | 1.17% |
| 227.547 | 23896.9 | 97.33 | 1.479 | mg/L | | | | 1.52% |
| 228.802 | 250795.7 | 1.942 | 0.0362 | mg/L | | | | 1.86% |
| 228.616 | 399325.7 | 3.878 | 0.0693 | mg/L | | | | 1.79% |
| 267.716 | 89648.6 | 0.9788 | 0.01890 | mg/L | | | | 1.93% |
| 324.754 | 1173112.1 | 3.907 | 0.0494 | mg/L | | | | 1.27% |
| 273.955 | 437976.0 | 9.747 | 0.1927 | mg/L | | | | 1.98% |
| 766.491 | 798579.5 | 29.99 | 0.212 | mg/L | | | | 0.71% |
| 279.079 | 2055780.8 | 48.84 | 0.822 | mg/L | | | | 1.68% |
| 257.610 | 5213279.9 | 3.917 | 0.0438 | mg/L | | | | 1.12% |
| 202.030 | 71924.6 | 3.902 | 0.0814 | mg/L | | | | 2.09% |
| 330.237 | 142733.8 | 198.1 | 3.85 | mg/L | | | | 1.94% |
| 231.604 | 192288.8 | 3.852 | 0.0699 | mg/L | | | | 1.81% |
| 220.353 | 15426.0 | 0.9700 | 0.01719 | mg/L | | | | 1.77% |
| 206.833 | 15520.9 | 3.883 | 0.0055 | mg/L | | | | 0.14% |
| 196.026 | 3052.7 | 0.9733 | 0.00362 | mg/L | | | | 0.37% |
| 190.800 | 3614.2 | 0.9727 | 0.00241 | mg/L | | | | 0.25% |
| 292.402 | 516426.3 | 3.929 | 0.0726 | mg/L | | | | 1.85% |

n 213.856 418380.8 3.882 0.0762 mg/L 1.96%

eplicate Data
D: ICB Date: 4/23/03 11:30:36 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 102.3 | 80.4 | 0.0004 | mg/L | | |
| 1 | Al 308.215 | 3868.7 | -81.5 | -0.0025 | mg/L | | |
| 1 | As 188.979 | 121.4 | -2.6 | -0.0009 | mg/L | | |
| 1 | Ba 233.527 | 50.3 | 478.3 | 0.0011 | mg/L | | |
| 1 | Be 313.107 | -160.1 | 674.2 | 0.0003 | mg/L | | |
| 1 | Ca 227.547 | 626.2 | 44.4 | 0.1807 | mg/L | | |
| 1 | Cd 228.802 | 241.5 | 18.4 | 0.0001 | mg/L | | |
| 1 | Co 228.616 | -232.3 | 114.9 | 0.0011 | mg/L | | |
| 1 | Cr 267.716 | -313.9 | -43.6 | -0.0005 | mg/L | | |
| 1 | Cu 324.754 | 3465.5 | -342.9 | -0.0011 | mg/L | | |
| 1 | Fe 273.955 | 906.4 | 538.4 | 0.0120 | mg/L | | |
| 1 | K 766.491 | -2697.8 | -217.3 | 0.0363 | mg/L | | |
| 1 | Mg 279.079 | 1553.4 | 439.1 | 0.0104 | mg/L | | |
| 1 | Mn 257.610 | 1259.2 | 503.1 | 0.0004 | mg/L | | |
| 1 | Mo 202.030 | -53.3 | 6.1 | 0.0003 | mg/L | | |
| 1 | Na 330.237 | 6658.3 | 32.5 | 0.0399 | mg/L | | |
| 1 | Ni 231.604 | -70.3 | 29.0 | 0.0006 | mg/L | | |
| 1 | Pb 220.353 | -171.6 | -9.8 | -0.0006 | mg/L | | |
| 1 | Sb 206.833 | -1.8 | 15.7 | 0.0040 | mg/L | | |
| 1 | Se 196.026 | 51.4 | -3.5 | -0.0011 | mg/L | | |
| 1 | Tl 190.800 | 206.2 | 10.1 | 0.0027 | mg/L | | |
| 1 | V 292.402 | 73.2 | -62.3 | -0.0005 | mg/L | | |
| 1 | Zn 213.856 | -465.5 | -336.9 | -0.0031 | mg/L | | |
| 2 | Ag 328.068 | -66.9 | -88.8 | -0.0004 | mg/L | | |
| 2 | Al 308.215 | 3841.7 | -108.4 | -0.0034 | mg/L | | |
| 2 | As 188.979 | 128.3 | 4.2 | 0.0015 | mg/L | | |
| 2 | Ba 233.527 | 26.3 | 454.2 | 0.0011 | mg/L | | |
| 2 | Be 313.107 | -108.5 | 725.8 | 0.0003 | mg/L | | |
| 2 | Ca 227.547 | 578.1 | -3.7 | -0.0149 | mg/L | | |
| 2 | Cd 228.802 | 234.7 | 11.7 | 0.0001 | mg/L | | |
| 2 | Co 228.616 | -247.2 | 100.0 | 0.0010 | mg/L | | |
| 2 | Cr 267.716 | -300.5 | -30.2 | -0.0003 | mg/L | | |
| 2 | Cu 324.754 | 3464.9 | -343.5 | -0.0011 | mg/L | | |
| 2 | Fe 273.955 | 843.1 | 475.1 | 0.0106 | mg/L | | |
| 2 | K 766.491 | -2827.8 | -347.3 | 0.0304 | mg/L | | |
| 2 | Mg 279.079 | 1461.6 | 347.4 | 0.0083 | mg/L | | |
| 2 | Mn 257.610 | 1194.2 | 438.1 | 0.0003 | mg/L | | |
| 2 | Mo 202.030 | -58.1 | 1.4 | 0.0001 | mg/L | | |
| 2 | Na 330.237 | 6670.4 | 44.6 | 0.0577 | mg/L | | |
| 2 | Ni 231.604 | -57.4 | 41.9 | 0.0008 | mg/L | | |
| 2 | Pb 220.353 | -167.1 | -5.3 | -0.0003 | mg/L | | |
| 2 | Sb 206.833 | 0.9 | 18.4 | 0.0046 | mg/L | | |
| 2 | Se 196.026 | 58.5 | 3.6 | 0.0011 | mg/L | | |
| 2 | Tl 190.800 | 196.9 | 0.7 | 0.0002 | mg/L | | |
| 2 | V 292.402 | 150.7 | 15.1 | 0.0001 | mg/L | | |
| 2 | Zn 213.856 | -477.3 | -348.7 | -0.0032 | mg/L | | |
| 3 | Ag 328.068 | 160.2 | 138.3 | 0.0007 | mg/L | | |
| 3 | Al 308.215 | 3863.0 | -87.1 | -0.0027 | mg/L | | |
| 3 | As 188.979 | 133.3 | 9.2 | 0.0032 | mg/L | | |
| 3 | Ba 233.527 | -23.6 | 404.4 | 0.0010 | mg/L | | |
| 3 | Be 313.107 | -259.0 | 575.3 | 0.0002 | mg/L | | |
| 3 | Ca 227.547 | 608.7 | 27.0 | 0.1098 | mg/L | | |
| 3 | Cd 228.802 | 251.8 | 28.7 | 0.0002 | mg/L | | |
| 3 | Co 228.616 | -226.7 | 120.5 | 0.0012 | mg/L | | |
| 3 | Cr 267.716 | -299.0 | -28.7 | -0.0003 | mg/L | | |
| 3 | Cu 324.754 | 3511.6 | -296.8 | -0.0010 | mg/L | | |
| 3 | Fe 273.955 | 742.1 | 374.1 | 0.0083 | mg/L | | |
| 3 | K 766.491 | -2104.8 | 375.7 | 0.0632 | mg/L | | |
| 3 | Mg 279.079 | 1364.6 | 250.3 | 0.0059 | mg/L | | |
| 3 | Mn 257.610 | 1120.2 | 364.0 | 0.0003 | mg/L | | |
| 3 | Mo 202.030 | -53.2 | 6.2 | 0.0003 | mg/L | | |
| 3 | Na 330.237 | 6729.5 | 103.7 | 0.1449 | mg/L | | |

| | | | |
|---|---|---|---|
| 3 Ni 231.604 | -77.1 | 22.3 | 0.0004 mg/L |
| 3 Pb 220.353 | -147.2 | 14.6 | 0.0009 mg/L |
| 3 Sb 206.833 | -5.1 | 12.4 | 0.0031 mg/L |
| 3 Se 196.026 | 59.2 | 4.4 | 0.0014 mg/L |
| 3 Tl 190.800 | 210.6 | 14.5 | 0.0039 mg/L |
| 3 V 292.402 | 202.6 | 67.1 | 0.0005 mg/L |
| 3 Zn 213.856 | -491.6 | -363.0 | -0.0034 mg/L |

ean Data ----------

D: ICB Seq. No.: 6 Sample No.: 2 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 11:30:36 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 43.3 | 0.0002 | 0.00058 | mg/L | | | | 272.53% |
| l 308.215 | -92.3 | -0.0029 | 0.00044 | mg/L | | | | 15.37% |
| s 188.979 | 3.6 | 0.0012 | 0.00206 | mg/L | | | | 165.45% |
| a 233.527 | 445.6 | 0.0011 | 0.00009 | mg/L | | | | 8.46% |
| e 313.107 | 658.4 | 0.0002 | 0.00003 | mg/L | | | | 11.61% |
| a 227.547 | 22.6 | 0.0919 | 0.09904 | mg/L | | | | 107.80% |
| d 228.802 | 19.6 | 0.0002 | 0.00007 | mg/L | | | | 43.74% |
| o 228.616 | 111.8 | 0.0011 | 0.00010 | mg/L | | | | 9.48% |
| r 267.716 | -34.1 | -0.0004 | 0.00009 | mg/L | | | | 24.03% |
| u 324.754 | -327.7 | -0.0011 | 0.00009 | mg/L | | | | 8.18% |
| e 273.955 | 462.6 | 0.0103 | 0.00184 | mg/L | | | | 17.92% |
| 766.491 | -63.0 | 0.0433 | 0.01748 | mg/L | | | | 40.38% |
| g 279.079 | 345.6 | 0.0082 | 0.00224 | mg/L | | | | 27.31% |
| n 257.610 | 435.1 | 0.0003 | 0.00005 | mg/L | | | | 15.99% |
| o 202.030 | 4.6 | 0.0002 | 0.00015 | mg/L | | | | 60.75% |
| a 330.237 | 60.2 | 0.0808 | 0.05615 | mg/L | | | | 69.45% |
| i 231.604 | 31.1 | 0.0006 | 0.00020 | mg/L | | | | 32.16% |
| b 220.353 | -0.1 | 0.0000 | 0.00082 | mg/L | | | | >999.9% |
| b 206.833 | 15.5 | 0.0039 | 0.00076 | mg/L | | | | 19.43% |
| e 196.026 | 1.5 | 0.0005 | 0.00138 | mg/L | | | | 291.11% |
| l 190.800 | 8.4 | 0.0023 | 0.00190 | mg/L | | | | 83.25% |
| 292.402 | 6.6 | 0.0001 | 0.00050 | mg/L | | | | 983.44% |
| n 213.856 | -349.5 | -0.0032 | 0.00012 | mg/L | | | | 3.74% |

eplicate Data ----------

D: CRI A1432 Date: 4/23/03 11:33:56 AM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 2098.7 | 2076.8 | 0.0102 | mg/L | | |
| 1 Al 308.215 | 10024.3 | 6074.2 | 0.1878 | mg/L | | |
| 1 As 188.979 | 179.4 | 55.4 | 0.0192 | mg/L | | |
| 1 Ba 233.527 | 4319.7 | 4747.6 | 0.0112 | mg/L | | |
| 1 Be 313.107 | 11231.7 | 12066.0 | 0.0045 | mg/L | | |
| 1 Ca 227.547 | 885.2 | 303.4 | 1.236 | mg/L | | |
| 1 Cd 228.802 | 895.3 | 672.2 | 0.0052 | mg/L | | |
| 1 Co 228.616 | 2017.1 | 2364.3 | 0.0230 | mg/L | | |
| 1 Cr 267.716 | 636.7 | 907.0 | 0.0099 | mg/L | | |
| 1 Cu 324.754 | 5946.8 | 2138.4 | 0.0071 | mg/L | | |
| 1 Fe 273.955 | 2405.2 | 2037.2 | 0.0453 | mg/L | | |
| 1 K 766.491 | -2736.8 | -256.3 | 0.0345 | mg/L | | |
| 1 Mg 279.079 | 1502.5 | 388.2 | 0.0092 | mg/L | | |
| 1 Mn 257.610 | 14201.2 | 13445.1 | 0.0101 | mg/L | | |
| 1 Mo 202.030 | 210.6 | 270.0 | 0.0146 | mg/L | | |
| 1 Na 330.237 | 6943.1 | 317.2 | 0.4596 | mg/L | | |
| 1 Ni 231.604 | 1004.7 | 1104.0 | 0.0221 | mg/L | | |
| 1 Pb 220.353 | -63.5 | 98.3 | 0.0062 | mg/L | | |
| 1 Sb 206.833 | 72.5 | 89.9 | 0.0227 | mg/L | | |
| 1 Se 196.026 | 81.2 | 26.3 | 0.0084 | mg/L | | |
| 1 Tl 190.800 | 231.1 | 35.0 | 0.0095 | mg/L | | |
| 1 V 292.402 | 1427.0 | 1291.5 | 0.0098 | mg/L | | |
| 1 Zn 213.856 | 1504.0 | 1632.6 | 0.0151 | mg/L | | |
| 2 Ag 328.068 | 2072.9 | 2051.0 | 0.0101 | mg/L | | |
| 2 Al 308.215 | 10165.7 | 6215.5 | 0.1922 | mg/L | | |
| 2 As 188.979 | 183.7 | 59.6 | 0.0206 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Ba 233.527 | 4409.2 | 4837.1 | 0.0114 | mg/L |
| 2 Be 313.107 | 11013.7 | 11847.9 | 0.0044 | mg/L |
| 2 Ca 227.547 | 932.1 | 350.3 | 1.427 | mg/L |
| 2 Cd 228.802 | 907.7 | 684.6 | 0.0053 | mg/L |
| 2 Co 228.616 | 1982.6 | 2329.8 | 0.0226 | mg/L |
| 2 Cr 267.716 | 693.7 | 964.0 | 0.0105 | mg/L |
| 2 Cu 324.754 | 5848.9 | 2040.5 | 0.0068 | mg/L |
| 2 Fe 273.955 | 2628.7 | 2260.7 | 0.0503 | mg/L |
| 2 K 766.491 | -2613.2 | -132.8 | 0.0401 | mg/L |
| 2 Mg 279.079 | 1497.6 | 383.4 | 0.0091 | mg/L |
| 2 Mn 257.610 | 13559.2 | 12803.0 | 0.0096 | mg/L |
| 2 Mo 202.030 | 232.7 | 292.1 | 0.0158 | mg/L |
| 2 Na 330.237 | 6618.1 | -7.7 | -0.0194 | mg/L |
| 2 Ni 231.604 | 948.6 | 1048.0 | 0.0210 | mg/L |
| 2 Pb 220.353 | -18.9 | 142.9 | 0.0090 | mg/L |
| 2 Sb 206.833 | 62.9 | 80.4 | 0.0203 | mg/L |
| 2 Se 196.026 | 101.7 | 46.8 | 0.0149 | mg/L |
| 2 Tl 190.800 | 236.8 | 40.7 | 0.0110 | mg/L |
| 2 V 292.402 | 1477.1 | 1341.5 | 0.0102 | mg/L |
| 2 Zn 213.856 | 1528.6 | 1657.1 | 0.0154 | mg/L |
| 3 Ag 328.068 | 2058.9 | 2037.0 | 0.0100 | mg/L |
| 3 Al 308.215 | 10126.1 | 6176.0 | 0.1910 | mg/L |
| 3 As 188.979 | 180.4 | 56.3 | 0.0195 | mg/L |
| 3 Ba 233.527 | 4402.6 | 4830.6 | 0.0114 | mg/L |
| 3 Be 313.107 | 11130.3 | 11964.6 | 0.0045 | mg/L |
| 3 Ca 227.547 | 928.6 | 346.9 | 1.413 | mg/L |
| 3 Cd 228.802 | 990.0 | 767.0 | 0.0059 | mg/L |
| 3 Co 228.616 | 1991.4 | 2338.6 | 0.0227 | mg/L |
| 3 Cr 267.716 | 704.0 | 974.3 | 0.0106 | mg/L |
| 3 Cu 324.754 | 6061.0 | 2252.6 | 0.0075 | mg/L |
| 3 Fe 273.955 | 2598.7 | 2230.7 | 0.0496 | mg/L |
| 3 K 766.491 | -2192.6 | 287.9 | 0.0592 | mg/L |
| 3 Mg 279.079 | 1445.3 | 331.0 | 0.0079 | mg/L |
| 3 Mn 257.610 | 13784.7 | 13028.6 | 0.0098 | mg/L |
| 3 Mo 202.030 | 227.1 | 286.6 | 0.0155 | mg/L |
| 3 Na 330.237 | 6666.5 | 40.7 | 0.0521 | mg/L |
| 3 Ni 231.604 | 1054.1 | 1153.5 | 0.0231 | mg/L |
| 3 Pb 220.353 | 20.7 | 182.5 | 0.0115 | mg/L |
| 3 Sb 206.833 | 59.3 | 76.8 | 0.0194 | mg/L |
| 3 Se 196.026 | 83.7 | 28.8 | 0.0092 | mg/L |
| 3 Tl 190.800 | 242.2 | 46.1 | 0.0124 | mg/L |
| 3 V 292.402 | 1433.2 | 1297.7 | 0.0099 | mg/L |
| 3 Zn 213.856 | 1535.6 | 1664.2 | 0.0154 | mg/L |

ean Data ----------

D: CRI A1432 Seq. No.: 7 Sample No.: 8 A/S Pos: 9

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:33:56 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 2054.9 | 0.0101 | 0.00010 | mg/L | | | | 0.98% |
| l 308.215 | 6155.2 | 0.1903 | 0.00226 | mg/L | | | | 1.18% |
| s 188.979 | 57.1 | 0.0198 | 0.00077 | mg/L | | | | 3.87% |
| a 233.527 | 4805.1 | 0.0113 | 0.00012 | mg/L | | | | 1.04% |
| e 313.107 | 11959.5 | 0.0045 | 0.00004 | mg/L | | | | 0.91% |
| a 227.547 | 333.5 | 1.358 | 0.1065 | mg/L | | | | 7.84% |
| d 228.802 | 707.9 | 0.0055 | 0.00040 | mg/L | | | | 7.28% |
| o 228.616 | 2344.2 | 0.0228 | 0.00017 | mg/L | | | | 0.77% |
| r 267.716 | 948.5 | 0.0104 | 0.00040 | mg/L | | | | 3.82% |
| u 324.754 | 2143.8 | 0.0071 | 0.00035 | mg/L | | | | 4.95% |
| e 273.955 | 2176.2 | 0.0484 | 0.00270 | mg/L | | | | 5.57% |
| 766.491 | -33.7 | 0.0446 | 0.01294 | mg/L | | | | 29.00% |
| g 279.079 | 367.5 | 0.0087 | 0.00075 | mg/L | | | | 8.62% |
| n 257.610 | 13092.2 | 0.0098 | 0.00024 | mg/L | | | | 2.49% |
| o 202.030 | 282.9 | 0.0153 | 0.00062 | mg/L | | | | 4.07% |
| a 330.237 | 116.7 | 0.1641 | 0.25840 | mg/L | | | | 157.47% |
| . 231.604 | 1101.8 | 0.0221 | 0.00106 | mg/L | | | | 4.79% |
| o 220.353 | 141.2 | 0.0089 | 0.00265 | mg/L | | | | 29.83% |
| o 206.833 | 82.4 | 0.0208 | 0.00171 | mg/L | | | | 8.26% |
| e 196.026 | 34.0 | 0.0108 | 0.00356 | mg/L | | | | 32.92% |

| | | | | |
|---|---|---|---|---|
| l 190.800 | 40.6 | 0.0110 | 0.00149 mg/L | 13.62% |
| 292.402 | 1310.2 | 0.0100 | 0.00021 mg/L | 2.08% |
| n 213.856 | 1651.3 | 0.0153 | 0.00015 mg/L | 1.00% |

eplicate Data

D: ICSA 1441 Date: 4/23/03 11:37:09 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -909.1 | -931.0 | 0.0004 | mg/L | | |
| 1 | Al 308.215 | 15886983.1 | 15883032.9 | 491.2 | mg/L | | |
| 1 | As 188.979 | 216.8 | 92.7 | 0.0102 | mg/L | | |
| 1 | Ba 233.527 | 1267.3 | 1695.2 | 0.0040 | mg/L | | |
| 1 | Be 313.107 | -416.6 | 417.6 | 0.0002 | mg/L | | |
| 1 | Ca 227.547 | 125588.7 | 125007.0 | 512.8 | mg/L | | |
| 1 | Cd 228.802 | 4.6 | -218.5 | -0.0017 | mg/L | | |
| 1 | Co 228.616 | 46.2 | 393.4 | 0.0038 | mg/L | | |
| 1 | Cr 267.716 | 232.9 | 503.2 | 0.0055 | mg/L | | |
| 1 | Cu 324.754 | 1185.7 | -2622.7 | 0.0003 | mg/L | | |
| 1 | Fe 273.955 | 8516077.6 | 8515709.6 | 189.5 | mg/L | | |
| 1 | K 766.491 | -809.3 | 1671.2 | 0.1219 | mg/L | | |
| 1 | Mg 279.079 | 20830404.2 | 20829290.0 | 494.8 | mg/L | | |
| 1 | Mn 257.610 | 9193.0 | 8436.9 | -0.0013 | mg/L | | |
| 1 | Mo 202.030 | 78.2 | 137.6 | 0.0013 | mg/L | | |
| 1 | Na 330.237 | 6414.6 | -211.3 | -0.3194 | mg/L | | |
| 1 | Ni 231.604 | -215.2 | -115.9 | -0.0023 | mg/L | | |
| 1 | Pb 220.353 | -1042.8 | -881.0 | -0.0071 | mg/L | | |
| 1 | Sb 206.833 | -36.6 | -19.1 | 0.0009 | mg/L | | |
| 1 | Se 196.026 | -30.1 | -85.0 | 0.0076 | mg/L | | |
| 1 | Tl 190.800 | 604.0 | 407.9 | 0.0142 | mg/L | | |
| 1 | V 292.402 | -937.6 | -1073.1 | -0.0082 | mg/L | | |
| 1 | Zn 213.856 | 2328.9 | 2457.4 | -0.0006 | mg/L | | |
| 2 | Ag 328.068 | -774.0 | -795.9 | -0.0039 | mg/L | | |
| 2 | Al 308.215 | 15538013.7 | 15534063.5 | 480.4 | mg/L | | |
| 2 | As 188.979 | 146.3 | 22.3 | -0.0136 | mg/L | | |
| 2 | Ba 233.527 | 1091.5 | 1519.4 | 0.0036 | mg/L | | |
| 2 | Be 313.107 | -529.4 | 304.9 | 0.0001 | mg/L | | |
| 2 | Ca 227.547 | 123553.8 | 122972.0 | 504.5 | mg/L | | |
| 2 | Cd 228.802 | 109.3 | -113.8 | -0.0009 | mg/L | | |
| 2 | Co 228.616 | -34.7 | 312.5 | 0.0030 | mg/L | | |
| 2 | Cr 267.716 | 177.8 | 448.1 | 0.0049 | mg/L | | |
| 2 | Cu 324.754 | 1097.2 | -2711.2 | -0.0002 | mg/L | | |
| 2 | Fe 273.955 | 8328663.5 | 8328295.5 | 185.4 | mg/L | | |
| 2 | K 766.491 | -985.7 | 1494.8 | 0.1139 | mg/L | | |
| 2 | Mg 279.079 | 20365367.4 | 20364253.1 | 483.8 | mg/L | | |
| 2 | Mn 257.610 | 8961.5 | 8205.3 | -0.0013 | mg/L | | |
| 2 | Mo 202.030 | 94.5 | 153.9 | 0.0023 | mg/L | | |
| 2 | Na 330.237 | 6697.5 | 71.7 | 0.0978 | mg/L | | |
| 2 | Ni 231.604 | -181.1 | -81.8 | -0.0016 | mg/L | | |
| 2 | Pb 220.353 | -1026.8 | -865.0 | -0.0072 | mg/L | | |
| 2 | Sb 206.833 | 25.2 | 42.7 | 0.0164 | mg/L | | |
| 2 | Se 196.026 | 33.4 | -21.4 | 0.0270 | mg/L | | |
| 2 | Tl 190.800 | 588.5 | 392.3 | 0.0122 | mg/L | | |
| 2 | V 292.402 | -893.6 | -1029.2 | -0.0078 | mg/L | | |
| 2 | Zn 213.856 | 2291.1 | 2419.7 | -0.0005 | mg/L | | |
| 3 | Ag 328.068 | -791.0 | -812.9 | -0.0040 | mg/L | | |
| 3 | Al 308.215 | 15792679.1 | 15788729.0 | 488.2 | mg/L | | |
| 3 | As 188.979 | 217.4 | 93.4 | 0.0109 | mg/L | | |
| 3 | Ba 233.527 | 1151.5 | 1579.4 | 0.0037 | mg/L | | |
| 3 | Be 313.107 | -441.7 | 392.6 | 0.0001 | mg/L | | |
| 3 | Ca 227.547 | 127748.1 | 127166.3 | 521.6 | mg/L | | |
| 3 | Cd 228.802 | 202.9 | -20.2 | -0.0002 | mg/L | | |
| 3 | Co 228.616 | 11.1 | 358.3 | 0.0035 | mg/L | | |
| 3 | Cr 267.716 | 179.8 | 450.1 | 0.0049 | mg/L | | |
| 3 | Cu 324.754 | 1070.9 | -2737.5 | -0.0002 | mg/L | | |
| 3 | Fe 273.955 | 8437006.0 | 8436638.0 | 187.8 | mg/L | | |
| 3 | K 766.491 | -562.6 | 1917.9 | 0.1331 | mg/L | | |
| 3 | Mg 279.079 | 20685130.3 | 20684016.0 | 491.4 | mg/L | | |
| 3 | Mn 257.610 | 8966.6 | 8210.5 | -0.0014 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 3 Mo 202.030 | 116.0 | 175.4 | 0.0034 | mg/L |
| 3 Na 330.237 | 6476.7 | -149.1 | -0.2277 | mg/L |
| 3 Ni 231.604 | -217.8 | -118.5 | -0.0024 | mg/L |
| 3 Pb 220.353 | -1105.2 | -943.4 | -0.0113 | mg/L |
| 3 Sb 206.833 | -11.3 | 6.2 | 0.0073 | mg/L |
| 3 Se 196.026 | -20.7 | -75.5 | 0.0102 | mg/L |
| 3 Tl 190.800 | 515.1 | 318.9 | -0.0090 | mg/L |
| 3 V 292.402 | -910.8 | -1046.4 | -0.0080 | mg/L |
| 3 Zn 213.856 | 2351.5 | 2480.1 | -0.0002 | mg/L |

ean Data ----------

D: ICSA 1441 Seq. No.: 8 Sample No.: 3 A/S Pos: 7
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 11:37:09 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | -846.6 | -0.0025 | 0.00254 | mg/L | | | | 101.24% |
| l 308.215 | 15735275.2 | 486.6 | 5.58 | mg/L | | | | 1.15% |
| s 188.979 | 69.5 | 0.0025 | 0.01396 | mg/L | | | | 553.24% |
| a 233.527 | 1598.0 | 0.0038 | 0.00021 | mg/L | | | | 5.59% |
| e 313.107 | 371.7 | 0.0001 | 0.00002 | mg/L | | | | 15.93% |
| a 227.547 | 125048.4 | 513.0 | 8.57 | mg/L | | | | 1.67% |
| d 228.802 | -117.5 | -0.0009 | 0.00077 | mg/L | | | | 84.40% |
| o 228.616 | 354.7 | 0.0034 | 0.00039 | mg/L | | | | 11.44% |
| r 267.716 | 467.1 | 0.0051 | 0.00034 | mg/L | | | | 6.69% |
| u 324.754 | -2690.5 | -0.0001 | 0.00028 | mg/L | | | | 437.95% |
| e 273.955 | 8426881.0 | 187.5 | 2.09 | mg/L | | | | 1.12% |
| 766.491 | 1694.6 | 0.1229 | 0.00963 | mg/L | | | | 7.83% |
| g 279.079 | 20625853.0 | 490.0 | 5.65 | mg/L | | | | 1.15% |
| n 257.610 | 8284.2 | -0.0013 | 0.00007 | mg/L | | | | 4.94% |
| o 202.030 | 155.7 | 0.0023 | 0.00105 | mg/L | | | | 45.42% |
| a 330.237 | -96.2 | -0.1498 | 0.21924 | mg/L | | | | 146.35% |
| i 231.604 | -105.4 | -0.0021 | 0.00041 | mg/L | | | | 19.44% |
| o 220.353 | -896.4 | -0.0085 | 0.00240 | mg/L | | | | 28.15% |
| o 206.833 | 9.9 | 0.0082 | 0.00777 | mg/L | | | | 94.54% |
| e 196.026 | -60.7 | 0.0149 | 0.01055 | mg/L | | | | 70.71% |
| l 190.800 | 373.0 | 0.0058 | 0.01287 | mg/L | | | | 221.76% |
| 292.402 | -1049.6 | -0.0080 | 0.00017 | mg/L | | | | 2.11% |
| n 213.856 | 2452.4 | -0.0004 | 0.00021 | mg/L | | | | 46.17% |

eplicate Data ----------

D: ICSAB 1443 Date: 4/23/03 11:39:56 AM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 186789.1 | 186767.2 | 0.9211 | mg/L | | |
| 1 Al 308.215 | 14981589.2 | 14977639.0 | 463.2 | mg/L | | |
| 1 As 188.979 | 2676.0 | 2551.9 | 0.8658 | mg/L | | |
| 1 Ba 233.527 | 204032.7 | 204460.6 | 0.4825 | mg/L | | |
| 1 Be 313.107 | 1231058.4 | 1231892.6 | 0.4587 | mg/L | | |
| 1 Ca 227.547 | 114010.3 | 113428.6 | 465.4 | mg/L | | |
| 1 Cd 228.802 | 114655.6 | 114432.6 | 0.8862 | mg/L | | |
| 1 Co 228.616 | 44271.6 | 44618.8 | 0.4333 | mg/L | | |
| 1 Cr 267.716 | 42001.6 | 42271.9 | 0.4615 | mg/L | | |
| 1 Cu 324.754 | 135334.8 | 131526.4 | 0.4462 | mg/L | | |
| 1 Fe 273.955 | 7789147.0 | 7788779.1 | 173.3 | mg/L | | |
| 1 K 766.491 | -813.6 | 1666.9 | 0.1217 | mg/L | | |
| 1 Mg 279.079 | 19514546.8 | 19513432.5 | 463.6 | mg/L | | |
| 1 Mn 257.610 | 614257.0 | 613500.8 | 0.4538 | mg/L | | |
| 1 Mo 202.030 | 15620.8 | 15680.3 | 0.8450 | mg/L | | |
| 1 Na 330.237 | 6489.5 | -136.3 | -0.2089 | mg/L | | |
| 1 Ni 231.604 | 41872.0 | 41971.3 | 0.8409 | mg/L | | |
| 1 Pb 220.353 | 12756.3 | 12918.1 | 0.8578 | mg/L | | |
| 1 Sb 206.833 | 3568.9 | 3586.4 | 0.8939 | mg/L | | |
| 1 Se 196.026 | 2748.3 | 2693.4 | 0.8890 | mg/L | | |
| 1 Tl 190.800 | 3619.2 | 3423.1 | 0.8355 | mg/L | | |
| 1 V 292.402 | 58134.4 | 57998.9 | 0.4413 | mg/L | | |
| 1 Zn 213.856 | 98532.7 | 98661.3 | 0.8939 | mg/L | | |
| 2 Ag 328.068 | 190347.9 | 190326.0 | 0.9387 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Al 308.215 | 14831371.8 | 14827421.7 | 458.5 | mg/L |
| 2 As 188.979 | 2713.4 | 2589.4 | 0.8795 | mg/L |
| 2 Ba 233.527 | 208423.0 | 208850.9 | 0.4928 | mg/L |
| 2 Be 313.107 | 1251973.3 | 1252807.6 | 0.4665 | mg/L |
| 2 Ca 227.547 | 116436.6 | 115854.8 | 475.2 | mg/L |
| 2 Cd 228.802 | 117447.2 | 117224.1 | 0.9079 | mg/L |
| 2 Co 228.616 | 45227.3 | 45574.5 | 0.4426 | mg/L |
| 2 Cr 267.716 | 43036.0 | 43306.3 | 0.4728 | mg/L |
| 2 Cu 324.754 | 139225.3 | 135416.9 | 0.4591 | mg/L |
| 2 Fe 273.955 | 7703789.0 | 7703421.0 | 171.4 | mg/L |
| 2 K 766.491 | -639.3 | 1841.1 | 0.1296 | mg/L |
| 2 Mg 279.079 | 19282093.3 | 19280979.0 | 458.1 | mg/L |
| 2 Mn 257.610 | 626397.4 | 625641.2 | 0.4630 | mg/L |
| 2 Mo 202.030 | 16189.6 | 16249.1 | 0.8759 | mg/L |
| 2 Na 330.237 | 6923.2 | 297.3 | 0.4303 | mg/L |
| 2 Ni 231.604 | 42574.3 | 42673.6 | 0.8550 | mg/L |
| 2 Pb 220.353 | 12963.7 | 13125.5 | 0.8704 | mg/L |
| 2 Sb 206.833 | 3610.0 | 3627.4 | 0.9038 | mg/L |
| 2 Se 196.026 | 2872.3 | 2817.4 | 0.9280 | mg/L |
| 2 Tl 190.800 | 3683.7 | 3487.5 | 0.8539 | mg/L |
| 2 V 292.402 | 59384.6 | 59249.0 | 0.4508 | mg/L |
| 2 Zn 213.856 | 100885.8 | 101014.4 | 0.9160 | mg/L |
| | | | | |
| 3 Ag 328.068 | 193804.0 | 193782.1 | 0.9557 | mg/L |
| 3 Al 308.215 | 14932702.7 | 14928752.6 | 461.6 | mg/L |
| 3 As 188.979 | 2860.5 | 2736.5 | 0.9304 | mg/L |
| 3 Ba 233.527 | 210985.5 | 211413.4 | 0.4989 | mg/L |
| 3 Be 313.107 | 1272767.8 | 1273602.1 | 0.4743 | mg/L |
| 3 Ca 227.547 | 118081.6 | 117499.8 | 481.9 | mg/L |
| 3 Cd 228.802 | 118673.8 | 118450.7 | 0.9174 | mg/L |
| 3 Co 228.616 | 45668.7 | 46015.9 | 0.4469 | mg/L |
| 3 Cr 267.716 | 43688.6 | 43958.9 | 0.4799 | mg/L |
| 3 Cu 324.754 | 141610.8 | 137802.5 | 0.4671 | mg/L |
| 3 Fe 273.955 | 7750334.3 | 7749966.3 | 172.5 | mg/L |
| 3 K 766.491 | -1011.1 | 1469.4 | 0.1127 | mg/L |
| 3 Mg 279.079 | 19416250.5 | 19415136.2 | 461.2 | mg/L |
| 3 Mn 257.610 | 633369.2 | 632613.1 | 0.4682 | mg/L |
| 3 Mo 202.030 | 16894.9 | 16954.4 | 0.9141 | mg/L |
| 3 Na 330.237 | 6557.6 | -68.3 | -0.1086 | mg/L |
| 3 Ni 231.604 | 43229.0 | 43328.4 | 0.8681 | mg/L |
| 3 Pb 220.353 | 13557.4 | 13719.2 | 0.9081 | mg/L |
| 3 Sb 206.833 | 3860.2 | 3877.7 | 0.9667 | mg/L |
| 3 Se 196.026 | 3008.2 | 2953.4 | 0.9715 | mg/L |
| 3 Tl 190.800 | 3933.1 | 3737.0 | 0.9208 | mg/L |
| 3 V 292.402 | 60185.4 | 60049.8 | 0.4569 | mg/L |
| 3 Zn 213.856 | 102280.6 | 102409.2 | 0.9288 | mg/L |

ean Data ----------

D: ICSAB 1443 Seq. No.: 9 Sample No.: 4 A/S Pos: 8

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:39:56 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 190291.7 | 0.9385 | 0.01730 | mg/L | | | | 1.84% |
| l 308.215 | 14911271.1 | 461.1 | 2.37 | mg/L | | | | 0.51% |
| s 188.979 | 2625.9 | 0.8919 | 0.03407 | mg/L | | | | 3.82% |
| a 233.527 | 208241.6 | 0.4914 | 0.00830 | mg/L | | | | 1.69% |
| e 313.107 | 1252767.4 | 0.4665 | 0.00777 | mg/L | | | | 1.66% |
| a 227.547 | 115594.4 | 474.2 | 8.33 | mg/L | | | | 1.76% |
| d 228.802 | 116702.5 | 0.9038 | 0.01595 | mg/L | | | | 1.76% |
| o 228.616 | 45403.1 | 0.4409 | 0.00694 | mg/L | | | | 1.57% |
| r 267.716 | 43179.0 | 0.4714 | 0.00929 | mg/L | | | | 1.97% |
| u 324.754 | 134915.2 | 0.4575 | 0.01052 | mg/L | | | | 2.30% |
| e 273.955 | 7747388.8 | 172.4 | 0.95 | mg/L | | | | 0.55% |
| 766.491 | 1659.1 | 0.1213 | 0.00843 | mg/L | | | | 6.94% |
| g 279.079 | 19403182.6 | 461.0 | 2.77 | mg/L | | | | 0.60% |
| n 257.610 | 623918.4 | 0.4616 | 0.00729 | mg/L | | | | 1.58% |
| o 202.030 | 16294.6 | 0.8784 | 0.03464 | mg/L | | | | 3.94% |
| a 330.237 | 30.9 | 0.0376 | 0.34377 | mg/L | | | | 914.56% |
| . 231.604 | 42657.7 | 0.8546 | 0.01360 | mg/L | | | | 1.59% |
| o 220.353 | 13254.3 | 0.8788 | 0.02615 | mg/L | | | | 2.98% |

| | | | | |
|---|---|---|---|---|
| b 206.833 | 3697.2 | 0.9215 | 0.03950 mg/L | 4.29% |
| e 196.026 | 2821.4 | 0.9295 | 0.04126 mg/L | 4.44% |
| l 190.800 | 3549.2 | 0.8701 | 0.04489 mg/L | 5.16% |
| 292.402 | 59099.2 | 0.4497 | 0.00786 mg/L | 1.75% |
| n 213.856 | 100695.0 | 0.9129 | 0.01765 mg/L | 1.93% |

eplicate Data ----------

D: CCV 1447B Date: 4/23/03 11:43:03 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 211572.1 | 211550.2 | 1.043 | mg/L | | |
| 1 | Al 308.215 | 176922.9 | 172972.8 | 5.349 | mg/L | | |
| 1 | As 188.979 | 1579.3 | 1455.2 | 0.5097 | mg/L | | |
| 1 | Ba 233.527 | 2273339.7 | 2273767.6 | 5.365 | mg/L | | |
| 1 | Be 313.107 | 1404266.4 | 1405100.7 | 0.5233 | mg/L | | |
| 1 | Ca 227.547 | 13439.6 | 12857.8 | 52.37 | mg/L | | |
| 1 | Cd 228.802 | 135319.9 | 135096.8 | 1.046 | mg/L | | |
| 1 | Co 228.616 | 217497.0 | 217844.2 | 2.115 | mg/L | | |
| 1 | Cr 267.716 | 48274.4 | 48544.7 | 0.5300 | mg/L | | |
| 1 | Cu 324.754 | 634537.8 | 630729.4 | 2.100 | mg/L | | |
| 1 | Fe 273.955 | 242167.4 | 241799.4 | 5.381 | mg/L | | |
| 1 | K 766.491 | 377260.1 | 379740.6 | 15.58 | mg/L | | |
| 1 | Mg 279.079 | 1127582.1 | 1126467.9 | 26.76 | mg/L | | |
| 1 | Mn 257.610 | 2772954.2 | 2772198.1 | 2.083 | mg/L | | |
| 1 | Mo 202.030 | 38595.1 | 38654.6 | 2.097 | mg/L | | |
| 1 | Na 330.237 | 80348.0 | 73722.2 | 105.2 | mg/L | | |
| 1 | Ni 231.604 | 105653.1 | 105752.4 | 2.119 | mg/L | | |
| 1 | Pb 220.353 | 7954.9 | 8116.7 | 0.5104 | mg/L | | |
| 1 | Sb 206.833 | 7996.1 | 8013.6 | 2.004 | mg/L | | |
| 1 | Se 196.026 | 1683.5 | 1628.6 | 0.5193 | mg/L | | |
| 1 | Tl 190.800 | 2103.3 | 1907.2 | 0.5154 | mg/L | | |
| 1 | V 292.402 | 278619.3 | 278483.7 | 2.119 | mg/L | | |
| 1 | Zn 213.856 | 226457.2 | 226585.8 | 2.102 | mg/L | | |
| 2 | Ag 328.068 | 202207.8 | 202185.9 | 0.9972 | mg/L | | |
| 2 | Al 308.215 | 168423.0 | 164472.8 | 5.086 | mg/L | | |
| 2 | As 188.979 | 1573.6 | 1449.5 | 0.5074 | mg/L | | |
| 2 | Ba 233.527 | 2173242.5 | 2173670.5 | 5.129 | mg/L | | |
| 2 | Be 313.107 | 1333494.6 | 1334328.8 | 0.4969 | mg/L | | |
| 2 | Ca 227.547 | 12855.8 | 12274.0 | 49.99 | mg/L | | |
| 2 | Cd 228.802 | 129136.7 | 128913.7 | 0.9984 | mg/L | | |
| 2 | Co 228.616 | 206785.1 | 207132.3 | 2.011 | mg/L | | |
| 2 | Cr 267.716 | 46225.2 | 46495.5 | 0.5076 | mg/L | | |
| 2 | Cu 324.754 | 605035.3 | 601226.9 | 2.002 | mg/L | | |
| 2 | Fe 273.955 | 231026.2 | 230658.2 | 5.133 | mg/L | | |
| 2 | K 766.491 | 373470.9 | 375951.4 | 15.44 | mg/L | | |
| 2 | Mg 279.079 | 1076033.4 | 1074919.1 | 25.54 | mg/L | | |
| 2 | Mn 257.610 | 2752575.7 | 2751819.6 | 2.067 | mg/L | | |
| 2 | Mo 202.030 | 37100.6 | 37160.0 | 2.016 | mg/L | | |
| 2 | Na 330.237 | 76986.5 | 70360.7 | 100.6 | mg/L | | |
| 2 | Ni 231.604 | 100775.2 | 100874.5 | 2.021 | mg/L | | |
| 2 | Pb 220.353 | 7985.7 | 8147.5 | 0.5123 | mg/L | | |
| 2 | Sb 206.833 | 8030.1 | 8047.6 | 2.013 | mg/L | | |
| 2 | Se 196.026 | 1691.8 | 1636.9 | 0.5219 | mg/L | | |
| 2 | Tl 190.800 | 2097.1 | 1901.0 | 0.5137 | mg/L | | |
| 2 | V 292.402 | 267547.0 | 267411.4 | 2.035 | mg/L | | |
| 2 | Zn 213.856 | 215059.1 | 215187.6 | 1.997 | mg/L | | |
| 3 | Ag 328.068 | 206770.9 | 206749.0 | 1.020 | mg/L | | |
| 3 | Al 308.215 | 173271.6 | 169321.4 | 5.236 | mg/L | | |
| 3 | As 188.979 | 1588.8 | 1464.8 | 0.5129 | mg/L | | |
| 3 | Ba 233.527 | 2227132.0 | 2227559.9 | 5.256 | mg/L | | |
| 3 | Be 313.107 | 1363960.5 | 1364794.8 | 0.5082 | mg/L | | |
| 3 | Ca 227.547 | 13197.7 | 12615.9 | 51.38 | mg/L | | |
| 3 | Cd 228.802 | 131985.8 | 131762.8 | 1.020 | mg/L | | |
| 3 | Co 228.616 | 212233.4 | 212580.6 | 2.064 | mg/L | | |
| 3 | Cr 267.716 | 47595.4 | 47865.7 | 0.5226 | mg/L | | |
| 3 | Cu 324.754 | 618399.9 | 614591.5 | 2.047 | mg/L | | |
| 3 | Fe 273.955 | 236188.0 | 235820.1 | 5.248 | mg/L | | |
| 3 | K 766.491 | 369238.0 | 371718.5 | 15.28 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 3 | Mg 279.079 | 1103233.9 | 1102119.6 | 26.18 mg/L |
| 3 | Mn 257.610 | 2704271.9 | 2703515.8 | 2.031 mg/L |
| 3 | Mo 202.030 | 37966.1 | 38025.6 | 2.063 mg/L |
| 3 | Na 330.237 | 78893.4 | 72267.6 | 103.2 mg/L |
| 3 | Ni 231.604 | 102795.9 | 102895.2 | 2.061 mg/L |
| 3 | Pb 220.353 | 7984.1 | 8145.9 | 0.5122 mg/L |
| 3 | Sb 206.833 | 8026.8 | 8044.3 | 2.012 mg/L |
| 3 | Se 196.026 | 1684.8 | 1629.9 | 0.5197 mg/L |
| 3 | Tl 190.800 | 2100.8 | 1904.7 | 0.5147 mg/L |
| 3 | V 292.402 | 275267.5 | 275132.0 | 2.093 mg/L |
| 3 | Zn 213.856 | 220501.9 | 220630.5 | 2.047 mg/L |

ean Data ----------

D: CCV 1447B Seq. No.: 10 Sample No.: 5 A/S Pos: 6

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:43:03 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 206828.4 | 1.020 | 0.0231 | mg/L | | | | 2.26% |
| l 308.215 | 168922.3 | 5.224 | 0.1319 | mg/L | | | | 2.52% |
| s 188.979 | 1456.5 | 0.5100 | 0.00274 | mg/L | | | | 0.54% |
| a 233.527 | 2224999.3 | 5.250 | 0.1182 | mg/L | | | | 2.25% |
| e 313.107 | 1368074.8 | 0.5095 | 0.01322 | mg/L | | | | 2.59% |
| a 227.547 | 12582.6 | 51.25 | 1.195 | mg/L | | | | 2.33% |
| d 228.802 | 131924.4 | 1.022 | 0.0240 | mg/L | | | | 2.35% |
| o 228.616 | 212519.0 | 2.064 | 0.0520 | mg/L | | | | 2.52% |
| r 267.716 | 47635.3 | 0.5201 | 0.01140 | mg/L | | | | 2.19% |
| u 324.754 | 615515.9 | 2.050 | 0.0492 | mg/L | | | | 2.40% |
| e 273.955 | 236092.6 | 5.254 | 0.1241 | mg/L | | | | 2.36% |
| 766.491 | 375803.5 | 15.43 | 0.150 | mg/L | | | | 0.97% |
| g 279.079 | 1101168.8 | 26.16 | 0.613 | mg/L | | | | 2.34% |
| n 257.610 | 2742511.1 | 2.060 | 0.0265 | mg/L | | | | 1.29% |
| o 202.030 | 37946.7 | 2.059 | 0.0407 | mg/L | | | | 1.98% |
| a 330.237 | 72116.8 | 103.0 | 2.34 | mg/L | | | | 2.27% |
| i 231.604 | 103174.1 | 2.067 | 0.0491 | mg/L | | | | 2.38% |
| b 220.353 | 8136.7 | 0.5116 | 0.00109 | mg/L | | | | 0.21% |
| b 206.833 | 8035.2 | 2.010 | 0.0050 | mg/L | | | | 0.25% |
| e 196.026 | 1631.8 | 0.5203 | 0.00140 | mg/L | | | | 0.27% |
| l 190.800 | 1904.3 | 0.5146 | 0.00084 | mg/L | | | | 0.16% |
| 292.402 | 273675.7 | 2.082 | 0.0432 | mg/L | | | | 2.07% |
| n 213.856 | 220801.3 | 2.049 | 0.0529 | mg/L | | | | 2.58% |

eplicate Data ----------

D: CCB Date: 4/23/03 11:48:21 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -158.6 | -180.5 | -0.0009 | mg/L | | |
| 1 | Al 308.215 | 3973.9 | 23.8 | 0.0007 | mg/L | | |
| 1 | As 188.979 | 130.8 | 6.7 | 0.0023 | mg/L | | |
| 1 | Ba 233.527 | 16.4 | 444.3 | 0.0010 | mg/L | | |
| 1 | Be 313.107 | -321.3 | 513.0 | 0.0002 | mg/L | | |
| 1 | Ca 227.547 | 605.7 | 23.9 | 0.0973 | mg/L | | |
| 1 | Cd 228.802 | 238.0 | 14.9 | 0.0001 | mg/L | | |
| 1 | Co 228.616 | -285.4 | 61.8 | 0.0006 | mg/L | | |
| 1 | Cr 267.716 | -317.1 | -46.8 | -0.0005 | mg/L | | |
| 1 | Cu 324.754 | 3443.4 | -365.0 | -0.0012 | mg/L | | |
| 1 | Fe 273.955 | 697.1 | 329.1 | 0.0073 | mg/L | | |
| 1 | K 766.491 | -2566.6 | -86.2 | 0.0422 | mg/L | | |
| 1 | Mg 279.079 | 5218.5 | 4104.2 | 0.0975 | mg/L | | |
| 1 | Mn 257.610 | 1037.2 | 281.0 | 0.0002 | mg/L | | |
| 1 | Mo 202.030 | -54.6 | 4.8 | 0.0003 | mg/L | | |
| 1 | Na 330.237 | 6871.5 | 245.7 | 0.3542 | mg/L | | |
| 1 | Ni 231.604 | -76.3 | 23.0 | 0.0005 | mg/L | | |
| 1 | Pb 220.353 | -160.4 | 1.4 | 0.0001 | mg/L | | |
| 1 | Sb 206.833 | -14.9 | 2.5 | 0.0006 | mg/L | | |
| 1 | Se 196.026 | 66.4 | 11.6 | 0.0037 | mg/L | | |
| 1 | Tl 190.800 | 200.6 | 4.5 | 0.0012 | mg/L | | |
| 1 | V 292.402 | 149.2 | 13.6 | 0.0001 | mg/L | | |
| 1 | Zn 213.856 | -610.7 | -482.2 | -0.0045 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Ag 328.068 | -95.4 | -117.3 | -0.0006 | mg/L |
| 2 Al 308.215 | 3799.8 | -150.3 | -0.0046 | mg/L |
| 2 As 188.979 | 125.6 | 1.6 | 0.0006 | mg/L |
| 2 Ba 233.527 | -22.4 | 405.5 | 0.0010 | mg/L |
| 2 Be 313.107 | -271.3 | 563.0 | 0.0002 | mg/L |
| 2 Ca 227.547 | 599.8 | 18.1 | 0.0735 | mg/L |
| 2 Cd 228.802 | 243.5 | 20.4 | 0.0002 | mg/L |
| 2 Co 228.616 | -273.1 | 74.1 | 0.0007 | mg/L |
| 2 Cr 267.716 | -306.1 | -35.7 | -0.0004 | mg/L |
| 2 Cu 324.754 | 3391.1 | -417.2 | -0.0014 | mg/L |
| 2 Fe 273.955 | 629.0 | 261.0 | 0.0058 | mg/L |
| 2 K 766.491 | -2252.7 | 227.8 | 0.0565 | mg/L |
| 2 Mg 279.079 | 5279.7 | 4165.4 | 0.0990 | mg/L |
| 2 Mn 257.610 | 988.9 | 232.8 | 0.0002 | mg/L |
| 2 Mo 202.030 | -50.5 | 9.0 | 0.0005 | mg/L |
| 2 Na 330.237 | 6925.6 | 299.8 | 0.4339 | mg/L |
| 2 Ni 231.604 | -78.9 | 20.4 | 0.0004 | mg/L |
| 2 Pb 220.353 | -190.7 | -28.9 | -0.0018 | mg/L |
| 2 Sb 206.833 | -5.3 | 12.2 | 0.0031 | mg/L |
| 2 Se 196.026 | 55.5 | 0.7 | 0.0002 | mg/L |
| 2 Tl 190.800 | 211.4 | 15.3 | 0.0041 | mg/L |
| 2 V 292.402 | 94.6 | -41.0 | -0.0003 | mg/L |
| 2 Zn 213.856 | -615.5 | -487.0 | -0.0045 | mg/L |
| | | | | |
| 3 Ag 328.068 | -155.0 | -176.9 | -0.0009 | mg/L |
| 3 Al 308.215 | 3727.2 | -222.9 | -0.0069 | mg/L |
| 3 As 188.979 | 121.5 | -2.6 | -0.0009 | mg/L |
| 3 Ba 233.527 | -29.9 | 398.1 | 0.0009 | mg/L |
| 3 Be 313.107 | -446.7 | 387.6 | 0.0001 | mg/L |
| 3 Ca 227.547 | 612.4 | 30.7 | 0.1249 | mg/L |
| 3 Cd 228.802 | 236.5 | 13.4 | 0.0001 | mg/L |
| 3 Co 228.616 | -288.9 | 58.3 | 0.0006 | mg/L |
| 3 Cr 267.716 | -320.6 | -50.3 | -0.0005 | mg/L |
| 3 Cu 324.754 | 3475.4 | -333.0 | -0.0011 | mg/L |
| 3 Fe 273.955 | 601.9 | 233.9 | 0.0052 | mg/L |
| 3 K 766.491 | -2241.1 | 239.4 | 0.0570 | mg/L |
| 3 Mg 279.079 | 5347.9 | 4233.6 | 0.1006 | mg/L |
| 3 Mn 257.610 | 864.1 | 108.0 | 0.0001 | mg/L |
| 3 Mo 202.030 | -48.0 | 11.5 | 0.0006 | mg/L |
| 3 Na 330.237 | 6941.1 | 315.2 | 0.4567 | mg/L |
| 3 Ni 231.604 | -74.8 | 24.5 | 0.0005 | mg/L |
| 3 Pb 220.353 | -175.8 | -14.0 | -0.0009 | mg/L |
| 3 Sb 206.833 | -3.8 | 13.7 | 0.0035 | mg/L |
| 3 Se 196.026 | 60.0 | 5.2 | 0.0016 | mg/L |
| 3 Tl 190.800 | 208.0 | 11.8 | 0.0032 | mg/L |
| 3 V 292.402 | 108.7 | -26.9 | -0.0002 | mg/L |
| 3 Zn 213.856 | -605.1 | -476.5 | -0.0044 | mg/L |

ean Data ----------

D: CCB Seq. No.: 11 Sample No.: 6 A/S Pos: 1

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:48:21 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | -158.2 | -0.0008 | 0.00018 | mg/L | | | | 22.44% |
| l 308.215 | -116.5 | -0.0036 | 0.00392 | mg/L | | | | 108.86% |
| s 188.979 | 1.9 | 0.0007 | 0.00161 | mg/L | | | | 242.77% |
| a 233.527 | 416.0 | 0.0010 | 0.00006 | mg/L | | | | 5.97% |
| e 313.107 | 487.9 | 0.0002 | 0.00003 | mg/L | | | | 18.52% |
| a 227.547 | 24.2 | 0.0985 | 0.02571 | mg/L | | | | 26.08% |
| d 228.802 | 16.2 | 0.0001 | 0.00003 | mg/L | | | | 22.93% |
| o 228.616 | 64.7 | 0.0006 | 0.00008 | mg/L | | | | 12.82% |
| r 267.716 | -44.3 | -0.0005 | 0.00008 | mg/L | | | | 17.12% |
| u 324.754 | -371.8 | -0.0012 | 0.00014 | mg/L | | | | 11.43% |
| e 273.955 | 274.7 | 0.0061 | 0.00109 | mg/L | | | | 17.86% |
| 766.491 | 127.0 | 0.0519 | 0.00838 | mg/L | | | | 16.14% |
| g 279.079 | 4167.7 | 0.0990 | 0.00154 | mg/L | | | | 1.55% |
| n 257.610 | 207.3 | 0.0002 | 0.00007 | mg/L | | | | 43.09% |
| o 202.030 | 8.4 | 0.0005 | 0.00018 | mg/L | | | | 40.09% |
| a 330.237 | 286.9 | 0.4149 | 0.05381 | mg/L | | | | 12.97% |

| | | | | |
|---|---|---|---|---|
| i 231.604 | 22.7 | 0.0005 | 0.00004 mg/L | 9.13% |
| b 220.353 | -13.8 | -0.0009 | 0.00095 mg/L | 109.45% |
| b 206.833 | 9.5 | 0.0024 | 0.00153 mg/L | 63.93% |
| e 196.026 | 5.8 | 0.0018 | 0.00174 mg/L | 94.62% |
| l 190.800 | 10.5 | 0.0028 | 0.00149 mg/L | 52.32% |
| 292.402 | -18.1 | -0.0001 | 0.00022 mg/L | 156.69% |
| n 213.856 | -481.9 | -0.0045 | 0.00005 mg/L | 1.08% |

eplicate Data ----------

D: Calib Blank Date: 4/23/03 11:50:47 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units |
|---|---|---|---|---|---|
| 1 | Ag 328.068 | -32.3 | -32.3 | 0 | mg/L |
| 1 | Al 308.215 | 4087.8 | 4087.8 | 0 | mg/L |
| 1 | As 188.979 | 119.6 | 119.6 | 0 | mg/L |
| 1 | Ba 233.527 | -32.8 | -32.8 | 0 | mg/L |
| 1 | Be 313.107 | -250.4 | -250.4 | 0 | mg/L |
| 1 | Ca 227.547 | 630.4 | 630.4 | 0 | mg/L |
| 1 | Cd 228.802 | 231.5 | 231.5 | 0 | mg/L |
| 1 | Co 228.616 | -307.8 | -307.8 | 0 | mg/L |
| 1 | Cr 267.716 | -309.6 | -309.6 | 0 | mg/L |
| 1 | Cu 324.754 | 3246.0 | 3246.0 | 0 | mg/L |
| 1 | Fe 273.955 | 644.2 | 644.2 | 0 | mg/L |
| 1 | K 766.491 | -2732.5 | -2732.5 | 0 | mg/L |
| 1 | Mg 279.079 | 5573.4 | 5573.4 | 0 | mg/L |
| 1 | Mn 257.610 | 916.3 | 916.3 | 0 | mg/L |
| 1 | Mo 202.030 | -59.8 | -59.8 | 0 | mg/L |
| 1 | Na 330.237 | 6842.9 | 6842.9 | 0 | mg/L |
| 1 | Ni 231.604 | -75.4 | -75.4 | 0 | mg/L |
| 1 | Pb 220.353 | -179.5 | -179.5 | 0 | mg/L |
| 1 | Sb 206.833 | -20.1 | -20.1 | 0 | mg/L |
| 1 | Se 196.026 | 49.0 | 49.0 | 0 | mg/L |
| 1 | Tl 190.800 | 203.4 | 203.4 | 0 | mg/L |
| 1 | V 292.402 | 116.7 | 116.7 | 0 | mg/L |
| 1 | Zn 213.856 | -603.1 | -603.1 | 0 | mg/L |
| 2 | Ag 328.068 | -136.6 | -136.6 | 0 | mg/L |
| 2 | Al 308.215 | 4204.1 | 4204.1 | 0 | mg/L |
| 2 | As 188.979 | 130.8 | 130.8 | 0 | mg/L |
| 2 | Ba 233.527 | -44.3 | -44.3 | 0 | mg/L |
| 2 | Be 313.107 | -178.8 | -178.8 | 0 | mg/L |
| 2 | Ca 227.547 | 604.1 | 604.1 | 0 | mg/L |
| 2 | Cd 228.802 | 240.1 | 240.1 | 0 | mg/L |
| 2 | Co 228.616 | -306.5 | -306.5 | 0 | mg/L |
| 2 | Cr 267.716 | -298.5 | -298.5 | 0 | mg/L |
| 2 | Cu 324.754 | 2982.7 | 2982.7 | 0 | mg/L |
| 2 | Fe 273.955 | 650.2 | 650.2 | 0 | mg/L |
| 2 | K 766.491 | -2381.4 | -2381.4 | 0 | mg/L |
| 2 | Mg 279.079 | 5232.3 | 5232.3 | 0 | mg/L |
| 2 | Mn 257.610 | 790.2 | 790.2 | 0 | mg/L |
| 2 | Mo 202.030 | -50.8 | -50.8 | 0 | mg/L |
| 2 | Na 330.237 | 6467.3 | 6467.3 | 0 | mg/L |
| 2 | Ni 231.604 | -90.1 | -90.1 | 0 | mg/L |
| 2 | Pb 220.353 | -182.4 | -182.4 | 0 | mg/L |
| 2 | Sb 206.833 | -5.5 | -5.5 | 0 | mg/L |
| 2 | Se 196.026 | 52.4 | 52.4 | 0 | mg/L |
| 2 | Tl 190.800 | 208.9 | 208.9 | 0 | mg/L |
| 2 | V 292.402 | 137.8 | 137.8 | 0 | mg/L |
| 2 | Zn 213.856 | -608.7 | -608.7 | 0 | mg/L |
| 3 | Ag 328.068 | -44.8 | -44.8 | 0 | mg/L |
| 3 | Al 308.215 | 3849.7 | 3849.7 | 0 | mg/L |
| 3 | As 188.979 | 134.2 | 134.2 | 0 | mg/L |
| 3 | Ba 233.527 | -75.1 | -75.1 | 0 | mg/L |
| 3 | Be 313.107 | -225.9 | -225.9 | 0 | mg/L |
| 3 | Ca 227.547 | 599.3 | 599.3 | 0 | mg/L |
| 3 | Cd 228.802 | 243.2 | 243.2 | 0 | mg/L |
| 3 | Co 228.616 | -296.7 | -296.7 | 0 | mg/L |
| 3 | Cr 267.716 | -294.8 | -294.8 | 0 | mg/L |
| 3 | Cu 324.754 | 3192.4 | 3192.4 | 0 | mg/L |

| | | | |
|---|---|---|---|
| 3 Fe 273.955 | 648.9 | 648.9 | 0 mg/L |
| 3 K 766.491 | -2753.5 | -2753.5 | 0 mg/L |
| 3 Mg 279.079 | 5055.3 | 5055.3 | 0 mg/L |
| 3 Mn 257.610 | 722.0 | 722.0 | 0 mg/L |
| 3 Mo 202.030 | -62.3 | -62.3 | 0 mg/L |
| 3 Na 330.237 | 6845.2 | 6845.2 | 0 mg/L |
| 3 Ni 231.604 | -75.6 | -75.6 | 0 mg/L |
| 3 Pb 220.353 | -163.6 | -163.6 | 0 mg/L |
| 3 Sb 206.833 | -8.1 | -8.1 | 0 mg/L |
| 3 Se 196.026 | 54.2 | 54.2 | 0 mg/L |
| 3 Tl 190.800 | 205.2 | 205.2 | 0 mg/L |
| 3 V 292.402 | 168.2 | 168.2 | 0 mg/L |
| 3 Zn 213.856 | -616.6 | -616.6 | 0 mg/L |

ean Data

D: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 4/23/03 11:50:47 AM

| lement | Mean Corr. Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| g 328.068 | -71.2 | 56.93 | 79.91% | 0 | mg/L |
| l 308.215 | 4047.2 | 180.68 | 4.46% | 0 | mg/L |
| s 188.979 | 128.2 | 7.68 | 5.99% | 0 | mg/L |
| a 233.527 | -50.8 | 21.87 | 43.08% | 0 | mg/L |
| e 313.107 | -218.3 | 36.42 | 16.68% | 0 | mg/L |
| a 227.547 | 611.3 | 16.71 | 2.73% | 0 | mg/L |
| d 228.802 | 238.3 | 6.05 | 2.54% | 0 | mg/L |
| o 228.616 | -303.7 | 6.07 | 2.00% | 0 | mg/L |
| r 267.716 | -301.0 | 7.71 | 2.56% | 0 | mg/L |
| a 324.754 | 3140.4 | 139.14 | 4.43% | 0 | mg/L |
| e 273.955 | 647.8 | 3.18 | 0.49% | 0 | mg/L |
| 766.491 | -2622.5 | 209.03 | 7.97% | 0 | mg/L |
| g 279.079 | 5287.0 | 263.36 | 4.98% | 0 | mg/L |
| n 257.610 | 809.5 | 98.59 | 12.18% | 0 | mg/L |
| o 202.030 | -57.6 | 6.02 | 10.44% | 0 | mg/L |
| a 330.237 | 6718.4 | 217.52 | 3.24% | 0 | mg/L |
| i 231.604 | -80.4 | 8.44 | 10.50% | 0 | mg/L |
| o 220.353 | -175.2 | 10.09 | 5.76% | 0 | mg/L |
| o 206.833 | -11.2 | 7.79 | 69.55% | 0 | mg/L |
| e 196.026 | 51.9 | 2.63 | 5.08% | 0 | mg/L |
| l 190.800 | 205.9 | 2.81 | 1.36% | 0 | mg/L |
| 292.402 | 140.9 | 25.86 | 18.35% | 0 | mg/L |
| n 213.856 | -609.5 | 6.78 | 1.11% | 0 | mg/L |

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 11:51:45 AM

| lement | Stds | Equation | Intercept | Slope | Curvature | Corr. Coeff. |
|---|---|---|---|---|---|---|
| g 328.068 | 3 | Linear-thru-Zero | 0.0 | 202761.6 | 0.00000 | 0.999942 |
| l 308.215 | 3 | Linear-thru-Zero | 0.0 | 32338.0 | 0.00000 | 0.999862 |
| s 188.979 | 3 | Linear-thru-Zero | 0.0 | 2888.4 | 0.00000 | 0.999757 |
| a 233.527 | 3 | Linear-thru-Zero | 0.0 | 423784.1 | 0.00000 | 0.999473 |
| e 313.107 | 3 | Linear-thru-Zero | 0.0 | 2685329.9 | 0.00000 | 0.999950 |
| a 227.547 | 3 | Linear-thru-Zero | 0.0 | 245.5 | 0.00000 | 0.999922 |
| d 228.802 | 3 | Linear-thru-Zero | 0.0 | 129120.3 | 0.00000 | 0.999828 |
| o 228.616 | 3 | Linear-thru-Zero | 0.0 | 102978.0 | 0.00000 | 0.999552 |
| r 267.716 | 3 | Linear-thru-Zero | 0.0 | 91592.9 | 0.00000 | 0.999623 |
| a 324.754 | 3 | Linear-thru-Zero | 0.0 | 300295.6 | 0.00000 | 0.999782 |
| e 273.955 | 3 | Linear-thru-Zero | 0.0 | 44932.6 | 0.00000 | 0.998106 |
| 766.491 | 3 | Non-Linear | -1017.1 | 22038.8 | 154.06843 | 0.998652 |
| g 279.079 | 3 | Linear-thru-Zero | 0.0 | 42093.4 | 0.00000 | 0.999596 |
| n 257.610 | 3 | Linear-thru-Zero | 0.0 | 1331037.4 | 0.00000 | 0.999760 |
| o 202.030 | 3 | Linear-thru-Zero | 0.0 | 18433.2 | 0.00000 | 0.999852 |
| a 330.237 | 3 | Non-Linear | 5.4 | 678.4 | 0.21158 | 0.999846 |
| i 231.604 | 3 | Linear-thru-Zero | 0.0 | 49912.8 | 0.00000 | 0.999403 |
| o 220.353 | 3 | Linear-thru-Zero | 0.0 | 15903.3 | 0.00000 | 0.999856 |
| o 206.833 | 3 | Linear-thru-Zero | 0.0 | 3967.7 | 0.00000 | 0.999819 |
| e 196.026 | 3 | Linear-thru-Zero | 0.0 | 3144.1 | 0.00000 | 0.999666 |
| l 190.800 | 3 | Linear-thru-Zero | 0.0 | 3700.4 | 0.00000 | 0.999381 |
| 292.402 | 3 | Linear-thru-Zero | 0.0 | 131430.3 | 0.00000 | 0.999694 |

| | | | | | | |
|---|---|---|---|---|---|---|
| n 213.856 | 3 | Linear-thru-Zero | 0.0 | 107770.3 | 0.00000 | 0.999875 |

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 11:51:50 AM

| lement | Stds | Equation | Intercept | Slope | Curvature | Corr. Coeff. |
|---|---|---|---|---|---|---|
| g 328.068 | 3 | Linear-thru-Zero | 0.0 | 202761.6 | 0.00000 | 0.999942 |
| l 308.215 | 3 | Linear-thru-Zero | 0.0 | 32338.0 | 0.00000 | 0.999862 |
| s 188.979 | 3 | Linear-thru-Zero | 0.0 | 2888.4 | 0.00000 | 0.999757 |
| a 233.527 | 3 | Linear-thru-Zero | 0.0 | 423784.1 | 0.00000 | 0.999473 |
| e 313.107 | 3 | Linear-thru-Zero | 0.0 | 2685329.9 | 0.00000 | 0.999950 |
| a 227.547 | 3 | Linear-thru-Zero | 0.0 | 245.5 | 0.00000 | 0.999922 |
| d 228.802 | 3 | Linear-thru-Zero | 0.0 | 129120.3 | 0.00000 | 0.999828 |
| o 228.616 | 3 | Linear-thru-Zero | 0.0 | 102978.0 | 0.00000 | 0.999552 |
| r 267.716 | 3 | Linear-thru-Zero | 0.0 | 91592.9 | 0.00000 | 0.999623 |
| u 324.754 | 3 | Linear-thru-Zero | 0.0 | 300295.6 | 0.00000 | 0.999782 |
| e 273.955 | 3 | Linear-thru-Zero | 0.0 | 44932.6 | 0.00000 | 0.998106 |
| 766.491 | 3 | Non-Linear | -1017.1 | 22038.8 | 154.06843 | 0.998652 |
| g 279.079 | 3 | Linear-thru-Zero | 0.0 | 42093.4 | 0.00000 | 0.999596 |
| n 257.610 | 3 | Linear-thru-Zero | 0.0 | 1331037.4 | 0.00000 | 0.999760 |
| o 202.030 | 3 | Linear-thru-Zero | 0.0 | 18433.2 | 0.00000 | 0.999852 |
| a 330.237 | 3 | Non-Linear | 5.4 | 678.4 | 0.21158 | 0.999846 |
| i 231.604 | 3 | Linear-thru-Zero | 0.0 | 49912.8 | 0.00000 | 0.999403 |
| o 220.353 | 3 | Linear-thru-Zero | 0.0 | 15903.3 | 0.00000 | 0.999856 |
| o 206.833 | 3 | Linear-thru-Zero | 0.0 | 3967.7 | 0.00000 | 0.999819 |
| e 196.026 | 3 | Linear-thru-Zero | 0.0 | 3144.1 | 0.00000 | 0.999666 |
| l 190.800 | 3 | Linear-thru-Zero | 0.0 | 3700.4 | 0.00000 | 0.999381 |
| 292.402 | 3 | Linear-thru-Zero | 0.0 | 131430.3 | 0.00000 | 0.999694 |
| n 213.856 | 3 | Linear-thru-Zero | 0.0 | 107770.3 | 0.00000 | 0.999875 |

eplicate Data
D: CCV 1447B Date: 4/23/03 11:53:18 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 204544.6 | 204615.8 | 1.009 | mg/L | | |
| 1 | Al 308.215 | 169382.9 | 165335.7 | 5.113 | mg/L | | |
| 1 | As 188.979 | 1563.7 | 1435.5 | 0.5026 | mg/L | | |
| 1 | Ba 233.527 | 2200338.6 | 2200389.3 | 5.192 | mg/L | | |
| 1 | Be 313.107 | 1338452.4 | 1338670.8 | 0.4985 | mg/L | | |
| 1 | Ca 227.547 | 13030.5 | 12419.2 | 50.58 | mg/L | | |
| 1 | Cd 228.802 | 130745.8 | 130507.5 | 1.011 | mg/L | | |
| 1 | Co 228.616 | 210005.3 | 210309.0 | 2.042 | mg/L | | |
| 1 | Cr 267.716 | 46846.5 | 47147.5 | 0.5148 | mg/L | | |
| 1 | Cu 324.754 | 611487.1 | 608346.7 | 2.026 | mg/L | | |
| 1 | Fe 273.955 | 231958.8 | 231311.1 | 5.148 | mg/L | | |
| 1 | K 766.491 | 367707.0 | 370329.4 | 15.23 | mg/L | | |
| 1 | Mg 279.079 | 1088748.6 | 1083461.7 | 25.74 | mg/L | | |
| 1 | Mn 257.610 | 2692443.7 | 2691634.2 | 2.022 | mg/L | | |
| 1 | Mo 202.030 | 37389.7 | 37447.4 | 2.032 | mg/L | | |
| 1 | Na 330.237 | 77874.1 | 71155.7 | 101.7 | mg/L | | |
| 1 | Ni 231.604 | 101950.6 | 102031.0 | 2.044 | mg/L | | |
| 1 | Pb 220.353 | 7943.2 | 8118.3 | 0.5105 | mg/L | | |
| 1 | Sb 206.833 | 7976.5 | 7987.7 | 1.998 | mg/L | | |
| 1 | Se 196.026 | 1690.1 | 1638.3 | 0.5223 | mg/L | | |
| 1 | Tl 190.800 | 2082.0 | 1876.1 | 0.5070 | mg/L | | |
| 1 | V 292.402 | 270756.7 | 270615.8 | 2.059 | mg/L | | |
| 1 | Zn 213.856 | 218086.7 | 218696.2 | 2.029 | mg/L | | |
| 2 | Ag 328.068 | 200203.4 | 200274.6 | 0.9877 | mg/L | | |
| 2 | Al 308.215 | 165887.4 | 161840.2 | 5.005 | mg/L | | |
| 2 | As 188.979 | 1563.7 | 1435.5 | 0.5025 | mg/L | | |
| 2 | Ba 233.527 | 2152267.0 | 2152317.7 | 5.079 | mg/L | | |
| 2 | Be 313.107 | 1369480.3 | 1369698.7 | 0.5101 | mg/L | | |
| 2 | Ca 227.547 | 12647.0 | 12035.8 | 49.02 | mg/L | | |
| 2 | Cd 228.802 | 127712.6 | 127474.3 | 0.9873 | mg/L | | |
| 2 | Co 228.616 | 204996.3 | 205300.0 | 1.994 | mg/L | | |
| 2 | Cr 267.716 | 45708.3 | 46009.3 | 0.5023 | mg/L | | |
| 2 | Cu 324.754 | 598459.3 | 595318.9 | 1.982 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Fe 273.955 | 226751.8 | 226104.0 | 5.032 | mg/L |
| 2 K 766.491 | 377787.0 | 380409.5 | 15.60 | mg/L |
| 2 Mg 279.079 | 1066824.2 | 1061537.3 | 25.22 | mg/L |
| 2 Mn 257.610 | 2751056.7 | 2750247.2 | 2.066 | mg/L |
| 2 Mo 202.030 | 36755.0 | 36812.7 | 1.997 | mg/L |
| 2 Na 330.237 | 76061.0 | 69342.6 | 99.14 | mg/L |
| 2 Ni 231.604 | 99924.4 | 100004.7 | 2.004 | mg/L |
| 2 Pb 220.353 | 7906.9 | 8082.0 | 0.5082 | mg/L |
| 2 Sb 206.833 | 7953.4 | 7964.6 | 1.993 | mg/L |
| 2 Se 196.026 | 1682.2 | 1630.3 | 0.5198 | mg/L |
| 2 Tl 190.800 | 2078.4 | 1872.6 | 0.5060 | mg/L |
| 2 V 292.402 | 264535.9 | 264395.0 | 2.012 | mg/L |
| 2 Zn 213.856 | 214177.8 | 214787.2 | 1.993 | mg/L |
| 3 Ag 328.068 | 199345.6 | 199416.8 | 0.9835 | mg/L |
| 3 Al 308.215 | 165183.7 | 161136.5 | 4.983 | mg/L |
| 3 As 188.979 | 1556.9 | 1428.7 | 0.5002 | mg/L |
| 3 Ba 233.527 | 2145249.6 | 2145300.4 | 5.062 | mg/L |
| 3 Be 313.107 | 1333551.9 | 1333770.2 | 0.4967 | mg/L |
| 3 Ca 227.547 | 12714.1 | 12102.9 | 49.29 | mg/L |
| 3 Cd 228.802 | 127705.4 | 127467.1 | 0.9872 | mg/L |
| 3 Co 228.616 | 204734.1 | 205037.8 | 1.991 | mg/L |
| 3 Cr 267.716 | 45725.6 | 46026.6 | 0.5025 | mg/L |
| 3 Cu 324.754 | 598121.4 | 594981.0 | 1.981 | mg/L |
| 3 Fe 273.955 | 225660.9 | 225013.1 | 5.008 | mg/L |
| 3 K 766.491 | 367212.7 | 369835.2 | 15.21 | mg/L |
| 3 Mg 279.079 | 1062902.6 | 1057615.6 | 25.13 | mg/L |
| 3 Mn 257.610 | 2680864.6 | 2680055.2 | 2.014 | mg/L |
| 3 Mo 202.030 | 36561.5 | 36619.1 | 1.987 | mg/L |
| 3 Na 330.237 | 76042.7 | 69324.2 | 99.12 | mg/L |
| 3 Ni 231.604 | 99896.4 | 99976.8 | 2.003 | mg/L |
| 3 Pb 220.353 | 7897.7 | 8072.9 | 0.5076 | mg/L |
| 3 Sb 206.833 | 7947.2 | 7958.4 | 1.991 | mg/L |
| 3 Se 196.026 | 1685.1 | 1633.3 | 0.5207 | mg/L |
| 3 Tl 190.800 | 2086.7 | 1880.8 | 0.5083 | mg/L |
| 3 V 292.402 | 263184.7 | 263043.8 | 2.001 | mg/L |
| 3 Zn 213.856 | 213662.0 | 214271.5 | 1.988 | mg/L |

ean Data ----------

): CCV 1447B Seq. No.: 10 Sample No.: 5 A/S Pos: 6

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 11:53:18 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 201435.7 | 0.9935 | 0.01375 | mg/L | | | | 1.38% |
| l 308.215 | 162770.8 | 5.033 | 0.0695 | mg/L | | | | 1.38% |
| s 188.979 | 1433.2 | 0.5018 | 0.00140 | mg/L | | | | 0.28% |
| a 233.527 | 2166002.5 | 5.111 | 0.0708 | mg/L | | | | 1.38% |
| e 313.107 | 1347379.9 | 0.5018 | 0.00726 | mg/L | | | | 1.45% |
| a 227.547 | 12185.9 | 49.63 | 0.834 | mg/L | | | | 1.68% |
| d 228.802 | 128483.0 | 0.9951 | 0.01358 | mg/L | | | | 1.36% |
| o 228.616 | 206882.3 | 2.009 | 0.0288 | mg/L | | | | 1.44% |
| r 267.716 | 46394.5 | 0.5065 | 0.00712 | mg/L | | | | 1.41% |
| u 324.754 | 599548.9 | 1.997 | 0.0254 | mg/L | | | | 1.27% |
| e 273.955 | 227476.1 | 5.063 | 0.0749 | mg/L | | | | 1.48% |
| 766.491 | 373524.7 | 15.35 | 0.223 | mg/L | | | | 1.45% |
| g 279.079 | 1067538.2 | 25.36 | 0.331 | mg/L | | | | 1.30% |
| n 257.610 | 2707312.2 | 2.034 | 0.0283 | mg/L | | | | 1.39% |
| o 202.030 | 36959.7 | 2.005 | 0.0235 | mg/L | | | | 1.17% |
| a 330.237 | 69940.8 | 99.97 | 1.460 | mg/L | | | | 1.46% |
| . 231.604 | 100670.9 | 2.017 | 0.0236 | mg/L | | | | 1.17% |
| o 220.353 | 8091.1 | 0.5088 | 0.00151 | mg/L | | | | 0.30% |
| o 206.833 | 7970.2 | 1.994 | 0.0037 | mg/L | | | | 0.18% |
| e 196.026 | 1634.0 | 0.5209 | 0.00129 | mg/L | | | | 0.25% |
| . 190.800 | 1876.5 | 0.5071 | 0.00112 | mg/L | | | | 0.22% |
| 292.402 | 266018.2 | 2.024 | 0.0307 | mg/L | | | | 1.52% |
| n 213.856 | 215918.3 | 2.004 | 0.0225 | mg/L | | | | 1.12% |

plicate Data ----------

): CCB Date: 4/23/03 11:56:49 AM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -111.2 | -40.0 | -0.0002 | mg/L | | |
| 1 | Al 308.215 | 3895.5 | -151.7 | -0.0047 | mg/L | | |
| 1 | As 188.979 | 121.7 | -6.5 | -0.0023 | mg/L | | |
| 1 | Ba 233.527 | 693.7 | 744.4 | 0.0018 | mg/L | | |
| 1 | Be 313.107 | 345.1 | 563.5 | 0.0002 | mg/L | | |
| 1 | Ca 227.547 | 615.4 | 4.1 | 0.0168 | mg/L | | |
| 1 | Cd 228.802 | 274.2 | 35.9 | 0.0003 | mg/L | | |
| 1 | Co 228.616 | -209.1 | 94.6 | 0.0009 | mg/L | | |
| 1 | Cr 267.716 | -307.2 | -6.2 | -0.0001 | mg/L | | |
| 1 | Cu 324.754 | 3820.9 | 680.5 | 0.0023 | mg/L | | |
| 1 | Fe 273.955 | 671.1 | 23.3 | 0.0005 | mg/L | | |
| 1 | K 766.491 | -2734.4 | -112.0 | 0.0411 | mg/L | | |
| 1 | Mg 279.079 | 4188.8 | -1098.2 | -0.0261 | mg/L | | |
| 1 | Mn 257.610 | 2179.9 | 1370.4 | 0.0010 | mg/L | | |
| 1 | Mo 202.030 | -34.0 | 23.6 | 0.0013 | mg/L | | |
| 1 | Na 330.237 | 6812.3 | 93.9 | 0.1304 | mg/L | | |
| 1 | Ni 231.604 | -45.7 | 34.7 | 0.0007 | mg/L | | |
| 1 | Pb 220.353 | -173.4 | 1.8 | 0.0001 | mg/L | | |
| 1 | Sb 206.833 | -21.5 | -10.3 | -0.0026 | mg/L | | |
| 1 | Se 196.026 | 61.5 | 9.6 | 0.0031 | mg/L | | |
| 1 | Tl 190.800 | 209.2 | 3.3 | 0.0009 | mg/L | | |
| 1 | V 292.402 | 287.7 | 146.8 | 0.0011 | mg/L | | |
| 1 | Zn 213.856 | -541.6 | 67.9 | 0.0006 | mg/L | | |
| 2 | Ag 328.068 | -68.0 | 3.2 | 0.0000 | mg/L | | |
| 2 | Al 308.215 | 3866.5 | -180.8 | -0.0056 | mg/L | | |
| 2 | As 188.979 | 127.7 | -0.5 | -0.0002 | mg/L | | |
| 2 | Ba 233.527 | 534.9 | 585.7 | 0.0014 | mg/L | | |
| 2 | Be 313.107 | 84.9 | 303.2 | 0.0001 | mg/L | | |
| 2 | Ca 227.547 | 624.1 | 12.8 | 0.0521 | mg/L | | |
| 2 | Cd 228.802 | 269.8 | 31.5 | 0.0002 | mg/L | | |
| 2 | Co 228.616 | -231.4 | 72.3 | 0.0007 | mg/L | | |
| 2 | Cr 267.716 | -315.7 | -14.7 | -0.0002 | mg/L | | |
| 2 | Cu 324.754 | 3676.8 | 536.4 | 0.0018 | mg/L | | |
| 2 | Fe 273.955 | 773.1 | 125.3 | 0.0028 | mg/L | | |
| 2 | K 766.491 | -2795.7 | -173.2 | 0.0383 | mg/L | | |
| 2 | Mg 279.079 | 3757.8 | -1529.2 | -0.0363 | mg/L | | |
| 2 | Mn 257.610 | 1788.3 | 978.8 | 0.0007 | mg/L | | |
| 2 | Mo 202.030 | -24.1 | 33.5 | 0.0018 | mg/L | | |
| 2 | Na 330.237 | 6901.2 | 182.7 | 0.2614 | mg/L | | |
| 2 | Ni 231.604 | -80.5 | -0.1 | 0.0000 | mg/L | | |
| 2 | Pb 220.353 | -167.3 | 7.9 | 0.0005 | mg/L | | |
| 2 | Sb 206.833 | 0.7 | 11.9 | 0.0030 | mg/L | | |
| 2 | Se 196.026 | 56.5 | 4.6 | 0.0015 | mg/L | | |
| 2 | Tl 190.800 | 210.2 | 4.3 | 0.0012 | mg/L | | |
| 2 | V 292.402 | 174.3 | 33.4 | 0.0003 | mg/L | | |
| 2 | Zn 213.856 | -570.3 | 39.2 | 0.0004 | mg/L | | |
| 3 | Ag 328.068 | 56.5 | 127.8 | 0.0006 | mg/L | | |
| 3 | Al 308.215 | 3867.9 | -179.3 | -0.0055 | mg/L | | |
| 3 | As 188.979 | 123.9 | -4.3 | -0.0015 | mg/L | | |
| 3 | Ba 233.527 | 357.6 | 408.4 | 0.0010 | mg/L | | |
| 3 | Be 313.107 | 65.9 | 284.3 | 0.0001 | mg/L | | |
| 3 | Ca 227.547 | 603.1 | -8.2 | -0.0334 | mg/L | | |
| 3 | Cd 228.802 | 238.0 | -0.3 | 0.0000 | mg/L | | |
| 3 | Co 228.616 | -224.5 | 79.2 | 0.0008 | mg/L | | |
| 3 | Cr 267.716 | -317.9 | -16.9 | -0.0002 | mg/L | | |
| 3 | Cu 324.754 | 3819.5 | 679.1 | 0.0023 | mg/L | | |
| 3 | Fe 273.955 | 610.9 | -36.9 | -0.0008 | mg/L | | |
| 3 | K 766.491 | -2187.0 | 435.4 | 0.0659 | mg/L | | |
| 3 | Mg 279.079 | 3615.0 | -1672.0 | -0.0397 | mg/L | | |
| 3 | Mn 257.610 | 1368.6 | 559.1 | 0.0004 | mg/L | | |
| 3 | Mo 202.030 | -41.3 | 16.4 | 0.0009 | mg/L | | |
| 3 | Na 330.237 | 6974.5 | 256.1 | 0.3695 | mg/L | | |
| 3 | Ni 231.604 | -50.5 | 29.9 | 0.0006 | mg/L | | |
| 3 | Pb 220.353 | -183.6 | -8.5 | -0.0005 | mg/L | | |
| 3 | Sb 206.833 | -0.2 | 11.0 | 0.0028 | mg/L | | |
| 3 | Se 196.026 | 47.0 | -4.8 | -0.0015 | mg/L | | |
| 3 | Tl 190.800 | 209.8 | 3.9 | 0.0011 | mg/L | | |

| | | | |
|---|---|---|---|
| 3 V 292.402 | 155.4 | 14.5 | 0.0001 mg/L |
| 3 Zn 213.856 | -587.9 | 21.6 | 0.0002 mg/L |

ean Data

D: CCB
ample Qty: 1.0000 g
Seq. No.: 11 Sample No.: 6 A/S Pos: 1
Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 11:56:49 AM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 30.3 | 0.0001 | 0.00043 | mg/L | | | | 287.29% |
| l 308.215 | -170.6 | -0.0053 | 0.00051 | mg/L | | | | 9.59% |
| s 188.979 | -3.8 | -0.0013 | 0.00106 | mg/L | | | | 80.88% |
| a 233.527 | 579.5 | 0.0014 | 0.00040 | mg/L | | | | 29.01% |
| e 313.107 | 383.7 | 0.0001 | 0.00006 | mg/L | | | | 40.66% |
| a 227.547 | 2.9 | 0.0118 | 0.04298 | mg/L | | | | 363.76% |
| d 228.802 | 22.3 | 0.0002 | 0.00015 | mg/L | | | | 88.43% |
| o 228.616 | 82.1 | 0.0008 | 0.00011 | mg/L | | | | 13.90% |
| r 267.716 | -12.6 | -0.0001 | 0.00006 | mg/L | | | | 44.63% |
| u 324.754 | 632.0 | 0.0021 | 0.00028 | mg/L | | | | 13.10% |
| e 273.955 | 37.3 | 0.0008 | 0.00183 | mg/L | | | | 220.11% |
| 766.491 | 50.1 | 0.0484 | 0.01520 | mg/L | | | | 31.39% |
| g 279.079 | -1433.1 | -0.0340 | 0.00710 | mg/L | | | | 20.84% |
| n 257.610 | 969.4 | 0.0007 | 0.00030 | mg/L | | | | 41.85% |
| o 202.030 | 24.5 | 0.0013 | 0.00047 | mg/L | | | | 35.17% |
| a 330.237 | 177.6 | 0.2538 | 0.11971 | mg/L | | | | 47.17% |
| i 231.604 | 21.5 | 0.0004 | 0.00038 | mg/L | | | | 87.82% |
| b 220.353 | 0.4 | 0.0000 | 0.00052 | mg/L | | | | >999.9% |
| b 206.833 | 4.2 | 0.0011 | 0.00317 | mg/L | | | | 300.78% |
| e 196.026 | 3.1 | 0.0010 | 0.00233 | mg/L | | | | 233.61% |
| l 190.800 | 3.8 | 0.0010 | 0.00014 | mg/L | | | | 13.16% |
| 292.402 | 64.9 | 0.0005 | 0.00054 | mg/L | | | | 110.26% |
| n 213.856 | 42.9 | 0.0004 | 0.00022 | mg/L | | | | 54.43% |

eplicate Data

D: M-BL 03M1359 Date: 4/23/03 12:00:10 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -102.2 | -31.0 | -0.0002 | mg/L | -0.0002 | ppm |
| 1 | Al 308.215 | 3773.0 | -274.3 | -0.0085 | mg/L | -0.0085 | ppm |
| 1 | As 188.979 | 118.4 | -9.8 | -0.0034 | mg/L | -0.0034 | ppm |
| 1 | Ba 233.527 | 16.5 | 67.3 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Be 313.107 | -241.0 | -22.7 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Ca 227.547 | 621.7 | 10.4 | 0.0424 | mg/L | 0.0424 | ppm |
| 1 | Cd 228.802 | 250.6 | 12.3 | 0.0001 | mg/L | 0.0001 | ppm |
| 1 | Co 228.616 | -286.4 | 17.3 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Cr 267.716 | -303.0 | -2.0 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Cu 324.754 | 3534.7 | 394.3 | 0.0013 | mg/L | 0.0013 | ppm |
| 1 | Fe 273.955 | 434.9 | -212.8 | -0.0047 | mg/L | -0.0047 | ppm |
| 1 | K 766.491 | -2696.3 | -73.9 | 0.0428 | mg/L | 0.0428 | ppm |
| 1 | Mg 279.079 | 3766.2 | -1520.8 | -0.0361 | mg/L | -0.0361 | ppm |
| 1 | Mn 257.610 | 891.0 | 81.5 | 0.0001 | mg/L | 0.0001 | ppm |
| 1 | Mo 202.030 | -59.7 | -2.1 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 | Na 330.237 | 6889.3 | 170.9 | 0.2439 | mg/L | 0.2439 | ppm |
| 1 | Ni 231.604 | -85.1 | -4.7 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 | Pb 220.353 | -172.6 | 2.6 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Sb 206.833 | -8.3 | 2.9 | 0.0007 | mg/L | 0.0007 | ppm |
| 1 | Se 196.026 | 56.8 | 5.0 | 0.0016 | mg/L | 0.0016 | ppm |
| 1 | Tl 190.800 | 209.5 | 3.6 | 0.0010 | mg/L | 0.0010 | ppm |
| 1 | V 292.402 | 110.8 | -30.1 | -0.0002 | mg/L | -0.0002 | ppm |
| 1 | Zn 213.856 | -618.6 | -9.1 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Ag 328.068 | -303.8 | -232.6 | -0.0011 | mg/L | -0.0011 | ppm |
| 2 | Al 308.215 | 3979.7 | -67.6 | -0.0021 | mg/L | -0.0021 | ppm |
| 2 | As 188.979 | 120.7 | -7.5 | -0.0026 | mg/L | -0.0026 | ppm |
| 2 | Ba 233.527 | -38.9 | 11.9 | 0.0000 | mg/L | 0.0000 | ppm |
| 2 | Be 313.107 | -404.8 | -186.5 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Ca 227.547 | 586.8 | -24.4 | -0.0995 | mg/L | -0.0995 | ppm |
| 2 | Cd 228.802 | 254.2 | 15.9 | 0.0001 | mg/L | 0.0001 | ppm |
| 2 | Co 228.616 | -298.1 | 5.6 | 0.0001 | mg/L | 0.0001 | ppm |

| | | | | | |
|---|---|---|---|---|---|
| 2 | Cr 267.716 | -316.9 | -15.9 | -0.0002 mg/L | -0.0002 ppm |
| 2 | Cu 324.754 | 3263.1 | 122.7 | 0.0004 mg/L | 0.0004 ppm |
| 2 | Fe 273.955 | 414.3 | -233.5 | -0.0052 mg/L | -0.0052 ppm |
| 2 | K 766.491 | -2638.2 | -15.7 | 0.0454 mg/L | 0.0454 ppm |
| 2 | Mg 279.079 | 3808.5 | -1478.5 | -0.0351 mg/L | -0.0351 ppm |
| 2 | Mn 257.610 | 873.9 | 64.4 | 0.0000 mg/L | 0.0000 ppm |
| 2 | Mo 202.030 | -56.4 | 1.2 | 0.0001 mg/L | 0.0001 ppm |
| 2 | Na 330.237 | 6797.9 | 79.5 | 0.1092 mg/L | 0.1092 ppm |
| 2 | Ni 231.604 | -108.5 | -28.1 | -0.0006 mg/L | -0.0006 ppm |
| 2 | Pb 220.353 | -169.4 | 5.8 | 0.0004 mg/L | 0.0004 ppm |
| 2 | Sb 206.833 | -0.9 | 10.3 | 0.0026 mg/L | 0.0026 ppm |
| 2 | Se 196.026 | 49.7 | -2.2 | -0.0007 mg/L | -0.0007 ppm |
| 2 | Tl 190.800 | 204.5 | -1.4 | -0.0004 mg/L | -0.0004 ppm |
| 2 | V 292.402 | 156.9 | 16.0 | 0.0001 mg/L | 0.0001 ppm |
| 2 | Zn 213.856 | -639.8 | -30.3 | -0.0003 mg/L | -0.0003 ppm |
| 3 | Ag 328.068 | -48.2 | 23.0 | 0.0001 mg/L | 0.0001 ppm |
| 3 | Al 308.215 | 3706.1 | -341.1 | -0.0105 mg/L | -0.0105 ppm |
| 3 | As 188.979 | 124.5 | -3.7 | -0.0013 mg/L | -0.0013 ppm |
| 3 | Ba 233.527 | -78.8 | -28.1 | -0.0001 mg/L | -0.0001 ppm |
| 3 | Be 313.107 | -293.6 | -75.3 | 0.0000 mg/L | 0.0000 ppm |
| 3 | Ca 227.547 | 592.5 | -18.8 | -0.0766 mg/L | -0.0766 ppm |
| 3 | Cd 228.802 | 252.4 | 14.1 | 0.0001 mg/L | 0.0001 ppm |
| 3 | Co 228.616 | -289.7 | 14.0 | 0.0001 mg/L | 0.0001 ppm |
| 3 | Cr 267.716 | -309.6 | -8.7 | -0.0001 mg/L | -0.0001 ppm |
| 3 | Cu 324.754 | 3261.3 | 120.9 | 0.0004 mg/L | 0.0004 ppm |
| 3 | Fe 273.955 | 360.6 | -287.2 | -0.0064 mg/L | -0.0064 ppm |
| 3 | K 766.491 | -2326.6 | 295.8 | 0.0596 mg/L | 0.0596 ppm |
| 3 | Mg 279.079 | 3577.2 | -1709.7 | -0.0406 mg/L | -0.0406 ppm |
| 3 | Mn 257.610 | 613.6 | -195.8 | -0.0001 mg/L | -0.0001 ppm |
| 3 | Mo 202.030 | -63.8 | -6.1 | -0.0003 mg/L | -0.0003 ppm |
| 3 | Na 330.237 | 7104.2 | 385.7 | 0.5605 mg/L | 0.5605 ppm |
| 3 | Ni 231.604 | -85.3 | -4.9 | -0.0001 mg/L | -0.0001 ppm |
| 3 | Pb 220.353 | -198.7 | -23.5 | -0.0015 mg/L | -0.0015 ppm |
| 3 | Sb 206.833 | -19.9 | -8.7 | -0.0022 mg/L | -0.0022 ppm |
| 3 | Se 196.026 | 77.8 | 25.9 | 0.0083 mg/L | 0.0083 ppm |
| 3 | Tl 190.800 | 197.8 | -8.0 | -0.0022 mg/L | -0.0022 ppm |
| 3 | V 292.402 | 20.0 | -120.9 | -0.0009 mg/L | -0.0009 ppm |
| 3 | Zn 213.856 | -643.5 | -34.1 | -0.0003 mg/L | -0.0003 ppm |

ean Data ----------

): M-BL 03M1359 Seq. No.: 12 Sample No.: 1 A/S Pos: 10
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:00:10 PM

| lement | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | -80.2 | -0.0004 | 0.00066 | mg/L | -0.0004 | 0.00066 | ppm | 168.00% |
| l 308.215 | -227.6 | -0.0070 | 0.00441 | mg/L | -0.0070 | 0.00441 | ppm | 62.65% |
| s 188.979 | -7.0 | -0.0024 | 0.00105 | mg/L | -0.0024 | 0.00105 | ppm | 43.51% |
| a 233.527 | 17.0 | 0.0000 | 0.00011 | mg/L | 0.0000 | 0.00011 | ppm | 281.22% |
| e 313.107 | -94.8 | 0.0000 | 0.00003 | mg/L | 0.0000 | 0.00003 | ppm | 88.20% |
| a 227.547 | -10.9 | -0.0446 | 0.07617 | mg/L | -0.0446 | 0.07617 | ppm | 170.93% |
| d 228.802 | 14.1 | 0.0001 | 0.00001 | mg/L | 0.0001 | 0.00001 | ppm | 12.76% |
| o 228.616 | 12.3 | 0.0001 | 0.00006 | mg/L | 0.0001 | 0.00006 | ppm | 49.29% |
| r 267.716 | -8.9 | -0.0001 | 0.00008 | mg/L | -0.0001 | 0.00008 | ppm | 78.79% |
| u 324.754 | 212.6 | 0.0007 | 0.00052 | mg/L | 0.0007 | 0.00052 | ppm | 73.99% |
| e 273.955 | -244.5 | -0.0054 | 0.00085 | mg/L | -0.0054 | 0.00085 | ppm | 15.70% |
| 766.491 | 68.7 | 0.0493 | 0.00901 | mg/L | 0.0493 | 0.00901 | ppm | 18.30% |
| g 279.079 | -1569.7 | -0.0373 | 0.00293 | mg/L | -0.0373 | 0.00293 | ppm | 7.85% |
| n 257.610 | -16.6 | 0.0000 | 0.00012 | mg/L | 0.0000 | 0.00012 | ppm | 934.12% |
| o 202.030 | -2.3 | -0.0001 | 0.00020 | mg/L | -0.0001 | 0.00020 | ppm | 157.60% |
| a 330.237 | 212.0 | 0.3045 | 0.23171 | mg/L | 0.3045 | 0.23171 | ppm | 76.08% |
| . 231.604 | -12.6 | -0.0003 | 0.00027 | mg/L | -0.0003 | 0.00027 | ppm | 107.02% |
| o 220.353 | -5.1 | -0.0003 | 0.00101 | mg/L | -0.0003 | 0.00101 | ppm | 317.71% |
| o 206.833 | 1.5 | 0.0004 | 0.00241 | mg/L | 0.0004 | 0.00241 | ppm | 635.65% |
| e 196.026 | 9.6 | 0.0030 | 0.00465 | mg/L | 0.0030 | 0.00465 | ppm | 152.79% |
| . 190.800 | -1.9 | -0.0005 | 0.00158 | mg/L | -0.0005 | 0.00158 | ppm | 303.77% |
| 292.402 | -45.0 | -0.0003 | 0.00053 | mg/L | -0.0003 | 0.00053 | ppm | 154.86% |
| a 213.856 | -24.5 | -0.0002 | 0.00012 | mg/L | -0.0002 | 0.00012 | ppm | 54.92% |

plicate Data ----------

D: LCS-03M1359 Date: 4/23/03 12:03:42 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 201881.6 | 201952.9 | 0.9960 | mg/L | 0.9960 | ppm |
| 1 | Al 308.215 | 70838.3 | 66791.0 | 2.065 | mg/L | 2.065 | ppm |
| 1 | As 188.979 | 1575.5 | 1447.3 | 0.5093 | mg/L | 0.5093 | ppm |
| 1 | Ba 233.527 | 1849800.2 | 1849851.0 | 4.365 | mg/L | 4.365 | ppm |
| 1 | Be 313.107 | 522645.8 | 522864.1 | 0.1947 | mg/L | 0.1947 | ppm |
| 1 | Ca 227.547 | 5539.8 | 4928.5 | 20.07 | mg/L | 20.07 | ppm |
| 1 | Cd 228.802 | 33523.9 | 33285.6 | 0.2578 | mg/L | 0.2578 | ppm |
| 1 | Co 228.616 | 105718.8 | 106022.5 | 1.030 | mg/L | 1.030 | ppm |
| 1 | Cr 267.716 | 94767.6 | 95068.6 | 1.038 | mg/L | 1.038 | ppm |
| 1 | Cu 324.754 | 308251.6 | 305111.2 | 1.016 | mg/L | 1.016 | ppm |
| 1 | Fe 273.955 | 45998.3 | 45350.6 | 1.009 | mg/L | 1.009 | ppm |
| 1 | K 766.491 | 123974.0 | 126596.5 | 5.573 | mg/L | 5.573 | ppm |
| 1 | Mg 279.079 | 427418.5 | 422131.5 | 10.03 | mg/L | 10.03 | ppm |
| 1 | Mn 257.610 | 1282386.2 | 1281576.7 | 0.9628 | mg/L | 0.9628 | ppm |
| 1 | Mo 202.030 | 39271.0 | 39328.6 | 2.134 | mg/L | 2.134 | ppm |
| 1 | Na 330.237 | 33117.9 | 26399.5 | 38.45 | mg/L | 38.45 | ppm |
| 1 | Ni 231.604 | 50922.2 | 51002.6 | 1.022 | mg/L | 1.022 | ppm |
| 1 | Pb 220.353 | 49412.1 | 49587.3 | 3.118 | mg/L | 3.118 | ppm |
| 1 | Sb 206.833 | 2061.2 | 2072.4 | 0.4921 | mg/L | 0.4921 | ppm |
| 1 | Se 196.026 | 1725.4 | 1673.6 | 0.5323 | mg/L | 0.5323 | ppm |
| 1 | Tl 190.800 | 2160.5 | 1954.6 | 0.5282 | mg/L | 0.5282 | ppm |
| 1 | V 292.402 | 262871.2 | 262730.3 | 1.999 | mg/L | 1.999 | ppm |
| 1 | Zn 213.856 | 54162.1 | 54771.6 | 0.5082 | mg/L | 0.5082 | ppm |
| 2 | Ag 328.068 | 205080.4 | 205151.6 | 1.012 | mg/L | 1.012 | ppm |
| 2 | Al 308.215 | 72053.5 | 68006.3 | 2.103 | mg/L | 2.103 | ppm |
| 2 | As 188.979 | 1557.2 | 1429.0 | 0.5031 | mg/L | 0.5031 | ppm |
| 2 | Ba 233.527 | 1881231.2 | 1881282.0 | 4.439 | mg/L | 4.439 | ppm |
| 2 | Be 313.107 | 530516.1 | 530734.4 | 0.1976 | mg/L | 0.1976 | ppm |
| 2 | Ca 227.547 | 5473.7 | 4862.5 | 19.80 | mg/L | 19.80 | ppm |
| 2 | Cd 228.802 | 33933.6 | 33695.3 | 0.2610 | mg/L | 0.2610 | ppm |
| 2 | Co 228.616 | 107112.9 | 107416.6 | 1.043 | mg/L | 1.043 | ppm |
| 2 | Cr 267.716 | 96197.3 | 96498.2 | 1.054 | mg/L | 1.054 | ppm |
| 2 | Cu 324.754 | 312589.1 | 309448.7 | 1.030 | mg/L | 1.030 | ppm |
| 2 | Fe 273.955 | 46250.3 | 45602.5 | 1.015 | mg/L | 1.015 | ppm |
| 2 | K 766.491 | 129173.1 | 131795.6 | 5.792 | mg/L | 5.792 | ppm |
| 2 | Mg 279.079 | 435080.8 | 429793.8 | 10.21 | mg/L | 10.21 | ppm |
| 2 | Mn 257.610 | 1301406.9 | 1300597.4 | 0.9771 | mg/L | 0.9771 | ppm |
| 2 | Mo 202.030 | 40137.4 | 40195.0 | 2.181 | mg/L | 2.181 | ppm |
| 2 | Na 330.237 | 33755.5 | 27037.0 | 39.36 | mg/L | 39.36 | ppm |
| 2 | Ni 231.604 | 51175.9 | 51256.3 | 1.027 | mg/L | 1.027 | ppm |
| 2 | Pb 220.353 | 50077.7 | 50252.8 | 3.160 | mg/L | 3.160 | ppm |
| 2 | Sb 206.833 | 2019.6 | 2030.8 | 0.4812 | mg/L | 0.4812 | ppm |
| 2 | Se 196.026 | 1715.5 | 1663.6 | 0.5291 | mg/L | 0.5291 | ppm |
| 2 | Tl 190.800 | 2134.5 | 1928.6 | 0.5212 | mg/L | 0.5212 | ppm |
| 2 | V 292.402 | 267113.8 | 266972.9 | 2.031 | mg/L | 2.031 | ppm |
| 2 | Zn 213.856 | 54997.6 | 55607.1 | 0.5160 | mg/L | 0.5160 | ppm |
| 3 | Ag 328.068 | 203139.5 | 203210.7 | 1.002 | mg/L | 1.002 | ppm |
| 3 | Al 308.215 | 71852.4 | 67805.2 | 2.097 | mg/L | 2.097 | ppm |
| 3 | As 188.979 | 1579.2 | 1451.0 | 0.5106 | mg/L | 0.5106 | ppm |
| 3 | Ba 233.527 | 1856402.0 | 1856452.8 | 4.381 | mg/L | 4.381 | ppm |
| 3 | Be 313.107 | 523276.7 | 523495.0 | 0.1949 | mg/L | 0.1949 | ppm |
| 3 | Ca 227.547 | 5537.8 | 4926.6 | 20.07 | mg/L | 20.07 | ppm |
| 3 | Cd 228.802 | 33539.7 | 33301.4 | 0.2579 | mg/L | 0.2579 | ppm |
| 3 | Co 228.616 | 106134.5 | 106438.2 | 1.034 | mg/L | 1.034 | ppm |
| 3 | Cr 267.716 | 95362.1 | 95663.1 | 1.044 | mg/L | 1.044 | ppm |
| 3 | Cu 324.754 | 309152.7 | 306012.3 | 1.019 | mg/L | 1.019 | ppm |
| 3 | Fe 273.955 | 45786.7 | 45138.9 | 1.005 | mg/L | 1.005 | ppm |
| 3 | K 766.491 | 125509.1 | 128131.6 | 5.638 | mg/L | 5.638 | ppm |
| 3 | Mg 279.079 | 430011.9 | 424724.9 | 10.09 | mg/L | 10.09 | ppm |
| 3 | Mn 257.610 | 1285280.8 | 1284471.3 | 0.9650 | mg/L | 0.9650 | ppm |
| 3 | Mo 202.030 | 39627.5 | 39685.2 | 2.153 | mg/L | 2.153 | ppm |
| 3 | Na 330.237 | 33448.3 | 26729.8 | 38.92 | mg/L | 38.92 | ppm |
| 3 | Ni 231.604 | 50651.2 | 50731.6 | 1.016 | mg/L | 1.016 | ppm |
| 3 | Pb 220.353 | 49815.8 | 49991.0 | 3.143 | mg/L | 3.143 | ppm |
| 3 | Sb 206.833 | 2034.6 | 2045.8 | 0.4852 | mg/L | 0.4852 | ppm |

| | | | | |
|---|---|---|---|---|
| 3 Se 196.026 | 1740.6 | 1688.7 | 0.5371 mg/L | 0.5371 ppm |
| 3 Tl 190.800 | 2153.3 | 1947.4 | 0.5263 mg/L | 0.5263 ppm |
| 3 V 292.402 | 264509.3 | 264368.4 | 2.011 mg/L | 2.011 ppm |
| 3 Zn 213.856 | 54547.1 | 55156.6 | 0.5118 mg/L | 0.5118 ppm |

ean Data ----------

D: LCS-03M1359 Seq. No.: 13 Sample No.: 2 A/S Pos: 11
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:03:42 PM

| lement | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 203438.4 | 1.003 | 0.0079 | mg/L | 1.003 | 0.0079 | ppm | 0.79% |
| l 308.215 | 67534.2 | 2.088 | 0.0201 | mg/L | 2.088 | 0.0201 | ppm | 0.96% |
| s 188.979 | 1442.5 | 0.5077 | 0.00403 | mg/L | 0.5077 | 0.00403 | ppm | 0.79% |
| a 233.527 | 1862528.6 | 4.395 | 0.0391 | mg/L | 4.395 | 0.0391 | ppm | 0.89% |
| e 313.107 | 525697.9 | 0.1958 | 0.00163 | mg/L | 0.1958 | 0.00163 | ppm | 0.83% |
| a 227.547 | 4905.9 | 19.98 | 0.153 | mg/L | 19.98 | 0.153 | ppm | 0.77% |
| d 228.802 | 33427.4 | 0.2589 | 0.00180 | mg/L | 0.2589 | 0.00180 | ppm | 0.69% |
| o 228.616 | 106625.8 | 1.035 | 0.0070 | mg/L | 1.035 | 0.0070 | ppm | 0.67% |
| r 267.716 | 95743.3 | 1.045 | 0.0078 | mg/L | 1.045 | 0.0078 | ppm | 0.75% |
| u 324.754 | 306857.4 | 1.022 | 0.0076 | mg/L | 1.022 | 0.0076 | ppm | 0.75% |
| e 273.955 | 45364.0 | 1.010 | 0.0052 | mg/L | 1.010 | 0.0052 | ppm | 0.51% |
| 766.491 | 128841.2 | 5.668 | 0.1123 | mg/L | 5.668 | 0.1123 | ppm | 1.98% |
| g 279.079 | 425550.1 | 10.11 | 0.093 | mg/L | 10.11 | 0.093 | ppm | 0.92% |
| n 257.610 | 1288881.8 | 0.9683 | 0.00770 | mg/L | 0.9683 | 0.00770 | ppm | 0.80% |
| o 202.030 | 39736.3 | 2.156 | 0.0236 | mg/L | 2.156 | 0.0236 | ppm | 1.10% |
| a 330.237 | 26722.1 | 38.91 | 0.459 | mg/L | 38.91 | 0.459 | ppm | 1.18% |
| i 231.604 | 50996.9 | 1.022 | 0.0053 | mg/L | 1.022 | 0.0053 | ppm | 0.51% |
| b 220.353 | 49943.7 | 3.140 | 0.0211 | mg/L | 3.140 | 0.0211 | ppm | 0.67% |
| b 206.833 | 2049.7 | 0.4862 | 0.00553 | mg/L | 0.4862 | 0.00553 | ppm | 1.14% |
| e 196.026 | 1675.3 | 0.5328 | 0.00402 | mg/L | 0.5328 | 0.00402 | ppm | 0.75% |
| l 190.800 | 1943.6 | 0.5252 | 0.00362 | mg/L | 0.5252 | 0.00362 | ppm | 0.69% |
| 292.402 | 264690.5 | 2.014 | 0.0163 | mg/L | 2.014 | 0.0163 | ppm | 0.81% |
| n 213.856 | 55178.4 | 0.5120 | 0.00388 | mg/L | 0.5120 | 0.00388 | ppm | 0.76% |

atrix Check Sample: LCS-03M1359

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---|---|---|---|---|---|
| g 328.068 | 0.9996 | 1.003 | 0.008 | mg/L | 100.373 |
| l 308.215 | 1.993 | 2.088 | 0.020 | mg/L | 104.771 |
| s 188.979 | 0.4976 | 0.5077 | 0.004 | mg/L | 102.018 |
| a 233.527 | 4.000 | 4.395 | 0.039 | mg/L | 109.874 |
| e 313.107 | 0.2000 | 0.1958 | 0.002 | mg/L | 97.901 |
| a 227.547 | 19.96 | 19.98 | 0.153 | mg/L | 100.127 |
| d 228.802 | 0.2501 | 0.2589 | 0.002 | mg/L | 103.511 |
| o 228.616 | 1.000 | 1.035 | 0.007 | mg/L | 103.530 |
| r 267.716 | 0.9999 | 1.045 | 0.008 | mg/L | 104.541 |
| u 324.754 | 1.001 | 1.022 | 0.008 | mg/L | 102.114 |
| e 273.955 | 0.9946 | 1.010 | 0.005 | mg/L | 101.504 |
| 766.491 | 5.049 | 5.668 | 0.112 | mg/L | 112.368 |
| g 279.079 | 9.963 | 10.11 | 0.093 | mg/L | 101.470 |
| n 257.610 | 1.0000 | 0.9683 | 0.008 | mg/L | 96.834 |
| o 202.030 | 2.000 | 2.156 | 0.024 | mg/L | 107.791 |
| a 330.237 | 40.30 | 38.91 | 0.459 | mg/L | 96.515 |
| i 231.604 | 0.9997 | 1.022 | 0.005 | mg/L | 102.197 |
| o 220.353 | 3.000 | 3.140 | 0.021 | mg/L | 104.693 |
| o 206.833 | 0.5004 | 0.4862 | 0.006 | mg/L | 97.155 |
| e 196.026 | 0.5030 | 0.5328 | 0.004 | mg/L | 105.960 |
| 190.800 | 0.4995 | 0.5252 | 0.004 | mg/L | 105.150 |
| 292.402 | 2.000 | 2.014 | 0.016 | mg/L | 100.713 |
| n 213.856 | 0.4998 | 0.5120 | 0.004 | mg/L | 102.445 |

plicate Data ----------

): LCSD-03M1359 Date: 4/23/03 12:07:21 PM

| pl# Element | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|---|---|---|---|---|
| 1 Ag 328.068 | 212871.1 | 212942.3 | 1.050 mg/L | 1.050 ppm |

| | | | | | |
|---|---|---|---|---|---|
| 1 | Al 308.215 | 74820.6 | 70773.4 | 2.189 mg/L | 2.189 ppm |
| 1 | As 188.979 | 1562.8 | 1434.6 | 0.5054 mg/L | 0.5054 ppm |
| 1 | Ba 233.527 | 1859319.1 | 1859369.9 | 4.388 mg/L | 4.388 ppm |
| 1 | Be 313.107 | 522563.9 | 522782.2 | 0.1947 mg/L | 0.1947 ppm |
| 1 | Ca 227.547 | 5537.9 | 4926.7 | 20.07 mg/L | 20.07 ppm |
| 1 | Cd 228.802 | 35176.1 | 34937.8 | 0.2706 mg/L | 0.2706 ppm |
| 1 | Co 228.616 | 111068.9 | 111372.5 | 1.082 mg/L | 1.082 ppm |
| 1 | Cr 267.716 | 100138.5 | 100439.5 | 1.097 mg/L | 1.097 ppm |
| 1 | Cu 324.754 | 324321.6 | 321181.2 | 1.070 mg/L | 1.070 ppm |
| 1 | Fe 273.955 | 47923.8 | 47276.0 | 1.052 mg/L | 1.052 ppm |
| 1 | K 766.491 | 125140.8 | 127763.3 | 5.622 mg/L | 5.622 ppm |
| 1 | Mg 279.079 | 449854.9 | 444567.9 | 10.56 mg/L | 10.56 ppm |
| 1 | Mn 257.610 | 1287262.3 | 1286452.8 | 0.9665 mg/L | 0.9665 ppm |
| 1 | Mo 202.030 | 41338.8 | 41396.5 | 2.246 mg/L | 2.246 ppm |
| 1 | Na 330.237 | 34634.6 | 27916.2 | 40.63 mg/L | 40.63 ppm |
| 1 | Ni 231.604 | 53289.2 | 53369.6 | 1.069 mg/L | 1.069 ppm |
| 1 | Pb 220.353 | 52076.4 | 52251.6 | 3.286 mg/L | 3.286 ppm |
| 1 | Sb 206.833 | 2034.7 | 2045.9 | 0.4837 mg/L | 0.4837 ppm |
| 1 | Se 196.026 | 1723.3 | 1671.4 | 0.5316 mg/L | 0.5316 ppm |
| 1 | Tl 190.800 | 2137.2 | 1931.3 | 0.5219 mg/L | 0.5219 ppm |
| 1 | V 292.402 | 277596.3 | 277455.4 | 2.111 mg/L | 2.111 ppm |
| 1 | Zn 213.856 | 56537.8 | 57147.3 | 0.5303 mg/L | 0.5303 ppm |
| 2 | Ag 328.068 | 194250.2 | 194321.4 | 0.9584 mg/L | 0.9584 ppm |
| 2 | Al 308.215 | 68351.7 | 64304.5 | 1.989 mg/L | 1.989 ppm |
| 2 | As 188.979 | 1576.2 | 1448.0 | 0.5092 mg/L | 0.5092 ppm |
| 2 | Ba 233.527 | 1854967.3 | 1855018.1 | 4.377 mg/L | 4.377 ppm |
| 2 | Be 313.107 | 523556.6 | 523775.0 | 0.1951 mg/L | 0.1951 ppm |
| 2 | Ca 227.547 | 5574.1 | 4962.8 | 20.21 mg/L | 20.21 ppm |
| 2 | Cd 228.802 | 32153.1 | 31914.8 | 0.2472 mg/L | 0.2472 ppm |
| 2 | Co 228.616 | 101782.4 | 102086.1 | 0.9913 mg/L | 0.9913 ppm |
| 2 | Cr 267.716 | 90834.3 | 91135.3 | 0.9950 mg/L | 0.9950 ppm |
| 2 | Cu 324.754 | 296860.3 | 293719.9 | 0.9781 mg/L | 0.9781 ppm |
| 2 | Fe 273.955 | 43974.9 | 43327.1 | 0.9643 mg/L | 0.9643 ppm |
| 2 | K 766.491 | 124637.1 | 127259.6 | 5.601 mg/L | 5.601 ppm |
| 2 | Mg 279.079 | 410715.5 | 405428.5 | 9.632 mg/L | 9.632 ppm |
| 2 | Mn 257.610 | 1283477.8 | 1282668.3 | 0.9637 mg/L | 0.9637 ppm |
| 2 | Mo 202.030 | 37857.8 | 37915.4 | 2.057 mg/L | 2.057 ppm |
| 2 | Na 330.237 | 31921.8 | 25203.4 | 36.72 mg/L | 36.72 ppm |
| 2 | Ni 231.604 | 49020.7 | 49101.1 | 0.9837 mg/L | 0.9837 ppm |
| 2 | Pb 220.353 | 47569.1 | 47744.3 | 3.002 mg/L | 3.002 ppm |
| 2 | Sb 206.833 | 2065.7 | 2076.9 | 0.4945 mg/L | 0.4945 ppm |
| 2 | Se 196.026 | 1748.7 | 1696.8 | 0.5397 mg/L | 0.5397 ppm |
| 2 | Tl 190.800 | 2185.2 | 1979.4 | 0.5349 mg/L | 0.5349 ppm |
| 2 | V 292.402 | 252339.9 | 252199.0 | 1.919 mg/L | 1.919 ppm |
| 2 | Zn 213.856 | 51867.2 | 52476.7 | 0.4869 mg/L | 0.4869 ppm |
| 3 | Ag 328.068 | 208270.0 | 208341.2 | 1.028 mg/L | 1.028 ppm |
| 3 | Al 308.215 | 73280.6 | 69233.4 | 2.141 mg/L | 2.141 ppm |
| 3 | As 188.979 | 1558.6 | 1430.4 | 0.5037 mg/L | 0.5037 ppm |
| 3 | Ba 233.527 | 1793345.6 | 1793396.3 | 4.232 mg/L | 4.232 ppm |
| 3 | Be 313.107 | 506100.6 | 506318.9 | 0.1885 mg/L | 0.1885 ppm |
| 3 | Ca 227.547 | 5529.1 | 4917.8 | 20.03 mg/L | 20.03 ppm |
| 3 | Cd 228.802 | 34513.7 | 34275.4 | 0.2655 mg/L | 0.2655 ppm |
| 3 | Co 228.616 | 108859.2 | 109162.8 | 1.060 mg/L | 1.060 ppm |
| 3 | Cr 267.716 | 97481.0 | 97782.0 | 1.068 mg/L | 1.068 ppm |
| 3 | Cu 324.754 | 318765.3 | 315624.9 | 1.051 mg/L | 1.051 ppm |
| 3 | Fe 273.955 | 47042.6 | 46394.8 | 1.033 mg/L | 1.033 ppm |
| 3 | K 766.491 | 119834.3 | 122456.7 | 5.399 mg/L | 5.399 ppm |
| 3 | Mg 279.079 | 440669.3 | 435382.4 | 10.34 mg/L | 10.34 ppm |
| 3 | Mn 257.610 | 1243030.1 | 1242220.6 | 0.9333 mg/L | 0.9333 ppm |
| 3 | Mo 202.030 | 40612.8 | 40670.5 | 2.206 mg/L | 2.206 ppm |
| 3 | Na 330.237 | 34125.4 | 27407.0 | 39.90 mg/L | 39.90 ppm |
| 3 | Ni 231.604 | 52441.3 | 52521.7 | 1.052 mg/L | 1.052 ppm |
| 3 | Pb 220.353 | 51214.5 | 51389.7 | 3.231 mg/L | 3.231 ppm |
| 3 | Sb 206.833 | 2043.5 | 2054.7 | 0.4868 mg/L | 0.4868 ppm |
| 3 | Se 196.026 | 1712.4 | 1660.5 | 0.5281 mg/L | 0.5281 ppm |
| 3 | Tl 190.800 | 2144.3 | 1938.5 | 0.5239 mg/L | 0.5239 ppm |
| 3 | V 292.402 | 270593.1 | 270452.2 | 2.058 mg/L | 2.058 ppm |
| 3 | Zn 213.856 | 55998.5 | 56608.0 | 0.5253 mg/L | 0.5253 ppm |

an Data ----------

D: LCSD-03M1359 Seq. No.: 14 Sample No.: 3 A/S Pos: 12
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:07:21 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 205201.7 | 1.012 | 0.0478 | mg/L | 1.012 | 0.0478 | ppm | 4.73% |
| l 308.215 | 68103.8 | 2.106 | 0.1045 | mg/L | 2.106 | 0.1045 | ppm | 4.96% |
| s 188.979 | 1437.7 | 0.5061 | 0.00284 | mg/L | 0.5061 | 0.00284 | ppm | 0.56% |
| a 233.527 | 1835928.1 | 4.332 | 0.0871 | mg/L | 4.332 | 0.0871 | ppm | 2.01% |
| e 313.107 | 517625.4 | 0.1928 | 0.00365 | mg/L | 0.1928 | 0.00365 | ppm | 1.89% |
| a 227.547 | 4935.8 | 20.10 | 0.097 | mg/L | 20.10 | 0.097 | ppm | 0.48% |
| d 228.802 | 33709.3 | 0.2611 | 0.01231 | mg/L | 0.2611 | 0.01231 | ppm | 4.71% |
| o 228.616 | 107540.5 | 1.044 | 0.0471 | mg/L | 1.044 | 0.0471 | ppm | 4.51% |
| r 267.716 | 96452.3 | 1.053 | 0.0523 | mg/L | 1.053 | 0.0523 | ppm | 4.97% |
| u 324.754 | 310175.3 | 1.033 | 0.0483 | mg/L | 1.033 | 0.0483 | ppm | 4.68% |
| e 273.955 | 45666.0 | 1.016 | 0.0461 | mg/L | 1.016 | 0.0461 | ppm | 4.54% |
| 766.491 | 125826.5 | 5.541 | 0.1234 | mg/L | 5.541 | 0.1234 | ppm | 2.23% |
| g 279.079 | 428459.6 | 10.18 | 0.486 | mg/L | 10.18 | 0.486 | ppm | 4.78% |
| n 257.610 | 1270447.2 | 0.9545 | 0.01842 | mg/L | 0.9545 | 0.01842 | ppm | 1.93% |
| o 202.030 | 39994.1 | 2.170 | 0.0996 | mg/L | 2.170 | 0.0996 | ppm | 4.59% |
| a 330.237 | 26842.2 | 39.08 | 2.076 | mg/L | 39.08 | 2.076 | ppm | 5.31% |
| i 231.604 | 51664.1 | 1.035 | 0.0453 | mg/L | 1.035 | 0.0453 | ppm | 4.37% |
| b 220.353 | 50461.8 | 3.173 | 0.1504 | mg/L | 3.173 | 0.1504 | ppm | 4.74% |
| b 206.833 | 2059.2 | 0.4883 | 0.00554 | mg/L | 0.4883 | 0.00554 | ppm | 1.14% |
| e 196.026 | 1676.3 | 0.5332 | 0.00592 | mg/L | 0.5332 | 0.00592 | ppm | 1.11% |
| l 190.800 | 1949.7 | 0.5269 | 0.00701 | mg/L | 0.5269 | 0.00701 | ppm | 1.33% |
| 292.402 | 266702.2 | 2.029 | 0.0992 | mg/L | 2.029 | 0.0992 | ppm | 4.89% |
| n 213.856 | 55410.6 | 0.5142 | 0.02371 | mg/L | 0.5142 | 0.02371 | ppm | 4.61% |

atrix Check Sample: LCSD-03M1359

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---|---|---|---|---|---|
| g 328.068 | 0.9996 | 1.012 | 0.048 | mg/L | 101.243 |
| l 308.215 | 1.993 | 2.106 | 0.104 | mg/L | 105.652 |
| s 188.979 | 0.4976 | 0.5061 | 0.003 | mg/L | 101.699 |
| a 233.527 | 4.000 | 4.332 | 0.087 | mg/L | 108.305 |
| e 313.107 | 0.2000 | 0.1928 | 0.004 | mg/L | 96.398 |
| a 227.547 | 19.96 | 20.10 | 0.097 | mg/L | 100.736 |
| d 228.802 | 0.2501 | 0.2611 | 0.012 | mg/L | 104.384 |
| o 228.616 | 1.000 | 1.044 | 0.047 | mg/L | 104.419 |
| r 267.716 | 0.9999 | 1.053 | 0.052 | mg/L | 105.315 |
| u 324.754 | 1.001 | 1.033 | 0.048 | mg/L | 103.219 |
| e 273.955 | 0.9946 | 1.016 | 0.046 | mg/L | 102.176 |
| 766.491 | 5.049 | 5.541 | 0.123 | mg/L | 109.831 |
| g 279.079 | 9.963 | 10.18 | 0.486 | mg/L | 102.161 |
| n 257.610 | 1.0000 | 0.9545 | 0.018 | mg/L | 95.449 |
| o 202.030 | 2.000 | 2.170 | 0.100 | mg/L | 108.490 |
| a 330.237 | 40.30 | 39.08 | 2.076 | mg/L | 96.945 |
| i 231.604 | 0.9997 | 1.035 | 0.045 | mg/L | 103.534 |
| o 220.353 | 3.000 | 3.173 | 0.150 | mg/L | 105.779 |
| o 206.833 | 0.5004 | 0.4883 | 0.006 | mg/L | 97.589 |
| e 196.026 | 0.5030 | 0.5332 | 0.006 | mg/L | 106.021 |
| l 190.800 | 0.4995 | 0.5269 | 0.007 | mg/L | 105.483 |
| 292.402 | 2.000 | 2.029 | 0.099 | mg/L | 101.479 |
| n 213.856 | 0.4998 | 0.5142 | 0.024 | mg/L | 102.876 |

eplicate Data
D: 2809-4 S F=1 Date: 4/23/03 12:10:53 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 213.7 | 285.0 | 0.0014 | mg/L | 0.0014 | ppm |
| 1 | Al 308.215 | 4267.1 | 219.9 | 0.0068 | mg/L | 0.0068 | ppm |
| 1 | As 188.979 | 123.5 | -4.7 | 0.0020 | mg/L | 0.0020 | ppm |
| 1 | Ba 233.527 | 57295.6 | 57346.3 | 0.1353 | mg/L | 0.1353 | ppm |
| 1 | Be 313.107 | -140.4 | 78.0 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Ca 227.547 | 28709.3 | 28098.0 | 114.4 | mg/L | 114.4 | ppm |
| 1 | Cd 228.802 | 248.0 | 9.7 | 0.0001 | mg/L | 0.0001 | ppm |

| | | | | | |
|---|---|---|---|---|---|
| 1 | Co 228.616 | -272.4 | 31.3 | 0.0003 mg/L | 0.0003 ppm |
| 1 | Cr 267.716 | 295.7 | 596.7 | 0.0065 mg/L | 0.0065 ppm |
| 1 | Cu 324.754 | 4308.0 | 1167.6 | 0.0039 mg/L | 0.0039 ppm |
| 1 | Fe 273.955 | 26301.0 | 25653.3 | 0.5709 mg/L | 0.5709 ppm |
| 1 | K 766.491 | 63273.6 | 65896.1 | 2.974 mg/L | 2.974 ppm |
| 1 | Mg 279.079 | 1649602.5 | 1644315.5 | 39.06 mg/L | 39.06 ppm |
| 1 | Mn 257.610 | 12616.0 | 11806.5 | 0.0089 mg/L | 0.0089 ppm |
| 1 | Mo 202.030 | -3.2 | 54.4 | 0.0030 mg/L | 0.0030 ppm |
| 1 | Na 330.237 | 29021.7 | 22303.2 | 32.54 mg/L | 32.54 ppm |
| 1 | Ni 231.604 | 74.0 | 154.4 | 0.0031 mg/L | 0.0031 ppm |
| 1 | Pb 220.353 | -128.3 | 46.9 | 0.0029 mg/L | 0.0029 ppm |
| 1 | Sb 206.833 | -15.4 | -4.2 | -0.0011 mg/L | -0.0011 ppm |
| 1 | Se 196.026 | 73.5 | 21.7 | 0.0069 mg/L | 0.0069 ppm |
| 1 | Tl 190.800 | 219.1 | 13.3 | 0.0036 mg/L | 0.0036 ppm |
| 1 | V 292.402 | 917.7 | 776.8 | 0.0059 mg/L | 0.0059 ppm |
| 1 | Zn 213.856 | -124.6 | 484.9 | 0.0045 mg/L | 0.0045 ppm |
| 2 | Ag 328.068 | 209.8 | 281.0 | 0.0014 mg/L | 0.0014 ppm |
| 2 | Al 308.215 | 4336.6 | 289.4 | 0.0089 mg/L | 0.0089 ppm |
| 2 | As 188.979 | 121.4 | -6.8 | 0.0013 mg/L | 0.0013 ppm |
| 2 | Ba 233.527 | 57470.9 | 57521.7 | 0.1357 mg/L | 0.1357 ppm |
| 2 | Be 313.107 | -151.0 | 67.4 | 0.0000 mg/L | 0.0000 ppm |
| 2 | Ca 227.547 | 29027.0 | 28415.7 | 115.7 mg/L | 115.7 ppm |
| 2 | Cd 228.802 | 250.7 | 12.4 | 0.0001 mg/L | 0.0001 ppm |
| 2 | Co 228.616 | -284.2 | 19.5 | 0.0002 mg/L | 0.0002 ppm |
| 2 | Cr 267.716 | 309.6 | 610.6 | 0.0067 mg/L | 0.0067 ppm |
| 2 | Cu 324.754 | 4145.3 | 1004.9 | 0.0033 mg/L | 0.0033 ppm |
| 2 | Fe 273.955 | 26372.5 | 25724.7 | 0.5725 mg/L | 0.5725 ppm |
| 2 | K 766.491 | 64679.5 | 67301.9 | 3.036 mg/L | 3.036 ppm |
| 2 | Mg 279.079 | 1673124.8 | 1667837.8 | 39.62 mg/L | 39.62 ppm |
| 2 | Mn 257.610 | 12684.7 | 11875.3 | 0.0089 mg/L | 0.0089 ppm |
| 2 | Mo 202.030 | -2.6 | 55.1 | 0.0030 mg/L | 0.0030 ppm |
| 2 | Na 330.237 | 29110.1 | 22391.6 | 32.67 mg/L | 32.67 ppm |
| 2 | Ni 231.604 | 77.1 | 157.5 | 0.0032 mg/L | 0.0032 ppm |
| 2 | Pb 220.353 | -143.6 | 31.6 | 0.0020 mg/L | 0.0020 ppm |
| 2 | Sb 206.833 | 0.9 | 12.1 | 0.0031 mg/L | 0.0031 ppm |
| 2 | Se 196.026 | 54.1 | 2.2 | 0.0007 mg/L | 0.0007 ppm |
| 2 | Tl 190.800 | 221.7 | 15.8 | 0.0043 mg/L | 0.0043 ppm |
| 2 | V 292.402 | 668.1 | 527.1 | 0.0040 mg/L | 0.0040 ppm |
| 2 | Zn 213.856 | -112.2 | 497.3 | 0.0046 mg/L | 0.0046 ppm |
| 3 | Ag 328.068 | -67.6 | 3.6 | 0.0000 mg/L | 0.0000 ppm |
| 3 | Al 308.215 | 4163.2 | 116.0 | 0.0036 mg/L | 0.0036 ppm |
| 3 | As 188.979 | 117.5 | -10.7 | -0.0001 mg/L | -0.0001 ppm |
| 3 | Ba 233.527 | 56782.6 | 56833.3 | 0.1341 mg/L | 0.1341 ppm |
| 3 | Be 313.107 | -122.5 | 95.8 | 0.0000 mg/L | 0.0000 ppm |
| 3 | Ca 227.547 | 28759.2 | 28148.0 | 114.6 mg/L | 114.6 ppm |
| 3 | Cd 228.802 | 238.6 | 0.3 | 0.0000 mg/L | 0.0000 ppm |
| 3 | Co 228.616 | -292.5 | 11.2 | 0.0001 mg/L | 0.0001 ppm |
| 3 | Cr 267.716 | 283.4 | 584.4 | 0.0064 mg/L | 0.0064 ppm |
| 3 | Cu 324.754 | 4145.0 | 1004.6 | 0.0033 mg/L | 0.0033 ppm |
| 3 | Fe 273.955 | 29065.3 | 28417.6 | 0.6324 mg/L | 0.6324 ppm |
| 3 | K 766.491 | 63031.7 | 65654.1 | 2.964 mg/L | 2.964 ppm |
| 3 | Mg 279.079 | 1651322.7 | 1646035.7 | 39.10 mg/L | 39.10 ppm |
| 3 | Mn 257.610 | 12332.6 | 11523.2 | 0.0087 mg/L | 0.0087 ppm |
| 3 | Mo 202.030 | -4.1 | 53.6 | 0.0029 mg/L | 0.0029 ppm |
| 3 | Na 330.237 | 28782.3 | 22063.9 | 32.19 mg/L | 32.19 ppm |
| 3 | Ni 231.604 | 68.9 | 149.3 | 0.0030 mg/L | 0.0030 ppm |
| 3 | Pb 220.353 | -138.5 | 36.7 | 0.0023 mg/L | 0.0023 ppm |
| 3 | Sb 206.833 | -7.7 | 3.5 | 0.0009 mg/L | 0.0009 ppm |
| 3 | Se 196.026 | 57.1 | 5.2 | 0.0017 mg/L | 0.0017 ppm |
| 3 | Tl 190.800 | 219.3 | 13.5 | 0.0036 mg/L | 0.0036 ppm |
| 3 | V 292.402 | 761.8 | 620.9 | 0.0047 mg/L | 0.0047 ppm |
| 3 | Zn 213.856 | -98.5 | 510.9 | 0.0047 mg/L | 0.0047 ppm |

ean Data ----------

): 2809-4 S F=1 Seq. No.: 15 Sample No.: 4 A/S Pos: 13

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:10:53 PM

| ement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| g 328.068 | 189.9 | 0.0009 | 0.00080 mg/L | 0.0009 | 0.00080 ppm | 84.95% |
| l 308.215 | 208.4 | 0.0064 | 0.00270 mg/L | 0.0064 | 0.00270 ppm | 41.86% |
| s 188.979 | -7.4 | 0.0010 | 0.00106 mg/L | 0.0010 | 0.00106 ppm | 101.76% |
| a 233.527 | 57233.8 | 0.1351 | 0.00084 mg/L | 0.1351 | 0.00084 ppm | 0.62% |
| e 313.107 | 80.4 | 0.0000 | 0.00001 mg/L | 0.0000 | 0.00001 ppm | 17.89% |
| a 227.547 | 28220.6 | 114.9 | 0.70 mg/L | 114.9 | 0.70 ppm | 0.61% |
| d 228.802 | 7.5 | 0.0001 | 0.00005 mg/L | 0.0001 | 0.00005 ppm | 84.77% |
| o 228.616 | 20.7 | 0.0002 | 0.00010 mg/L | 0.0002 | 0.00010 ppm | 49.02% |
| r 267.716 | 597.2 | 0.0065 | 0.00014 mg/L | 0.0065 | 0.00014 ppm | 2.20% |
| u 324.754 | 1059.0 | 0.0035 | 0.00031 mg/L | 0.0035 | 0.00031 ppm | 8.88% |
| e 273.955 | 26598.5 | 0.5920 | 0.03507 mg/L | 0.5920 | 0.03507 ppm | 5.92% |
| 766.491 | 66284.0 | 2.991 | 0.0387 mg/L | 2.991 | 0.0387 ppm | 1.30% |
| g 279.079 | 1652729.7 | 39.26 | 0.312 mg/L | 39.26 | 0.312 ppm | 0.79% |
| n 257.610 | 11735.0 | 0.0088 | 0.00014 mg/L | 0.0088 | 0.00014 ppm | 1.59% |
| o 202.030 | 54.4 | 0.0029 | 0.00004 mg/L | 0.0029 | 0.00004 ppm | 1.40% |
| a 330.237 | 22252.9 | 32.47 | 0.245 mg/L | 32.47 | 0.245 ppm | 0.75% |
| i 231.604 | 153.7 | 0.0031 | 0.00008 mg/L | 0.0031 | 0.00008 ppm | 2.70% |
| b 220.353 | 38.4 | 0.0024 | 0.00049 mg/L | 0.0024 | 0.00049 ppm | 20.31% |
| b 206.833 | 3.8 | 0.0010 | 0.00206 mg/L | 0.0010 | 0.00206 ppm | 214.66% |
| e 196.026 | 9.7 | 0.0031 | 0.00334 mg/L | 0.0031 | 0.00334 ppm | 108.14% |
| l 190.800 | 14.2 | 0.0038 | 0.00039 mg/L | 0.0038 | 0.00039 ppm | 10.03% |
| 292.402 | 641.6 | 0.0049 | 0.00096 mg/L | 0.0049 | 0.00096 ppm | 19.65% |
| n 213.856 | 497.7 | 0.0046 | 0.00012 mg/L | 0.0046 | 0.00012 ppm | 2.62% |

eplicate Data ----------

D: 2809-4 D F=1 Date: 4/23/03 12:14:21 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -120.1 | -48.9 | -0.0002 | mg/L | -0.0002 | ppm |
| 1 | Al 308.215 | 4187.1 | 139.9 | 0.0043 | mg/L | 0.0043 | ppm |
| 1 | As 188.979 | 130.7 | 2.5 | 0.0046 | mg/L | 0.0046 | ppm |
| 1 | Ba 233.527 | 58228.8 | 58279.6 | 0.1375 | mg/L | 0.1375 | ppm |
| 1 | Be 313.107 | -305.9 | -87.6 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Ca 227.547 | 29770.1 | 29158.9 | 118.8 | mg/L | 118.8 | ppm |
| 1 | Cd 228.802 | 269.8 | 31.5 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Co 228.616 | -307.6 | -3.9 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Cr 267.716 | 260.4 | 561.4 | 0.0061 | mg/L | 0.0061 | ppm |
| 1 | Cu 324.754 | 3896.0 | 755.6 | 0.0025 | mg/L | 0.0025 | ppm |
| 1 | Fe 273.955 | 27047.7 | 26399.9 | 0.5875 | mg/L | 0.5875 | ppm |
| 1 | K 766.491 | 64981.2 | 67603.6 | 3.049 | mg/L | 3.049 | ppm |
| 1 | Mg 279.079 | 1697812.4 | 1692525.4 | 40.21 | mg/L | 40.21 | ppm |
| 1 | Mn 257.610 | 12239.5 | 11430.0 | 0.0086 | mg/L | 0.0086 | ppm |
| 1 | Mo 202.030 | -42.8 | 14.8 | 0.0008 | mg/L | 0.0008 | ppm |
| 1 | Na 330.237 | 29612.9 | 22894.5 | 33.39 | mg/L | 33.39 | ppm |
| 1 | Ni 231.604 | 59.4 | 139.8 | 0.0028 | mg/L | 0.0028 | ppm |
| 1 | Pb 220.353 | -152.1 | 23.1 | 0.0014 | mg/L | 0.0014 | ppm |
| 1 | Sb 206.833 | -9.3 | 1.9 | 0.0005 | mg/L | 0.0005 | ppm |
| 1 | Se 196.026 | 63.8 | 11.9 | 0.0038 | mg/L | 0.0038 | ppm |
| 1 | Tl 190.800 | 221.5 | 15.6 | 0.0042 | mg/L | 0.0042 | ppm |
| 1 | V 292.402 | 625.5 | 484.6 | 0.0037 | mg/L | 0.0037 | ppm |
| 1 | Zn 213.856 | -174.0 | 435.5 | 0.0040 | mg/L | 0.0040 | ppm |
| 2 | Ag 328.068 | 177.1 | 248.3 | 0.0012 | mg/L | 0.0012 | ppm |
| 2 | Al 308.215 | 4031.5 | -15.7 | -0.0005 | mg/L | -0.0005 | ppm |
| 2 | As 188.979 | 119.9 | -8.3 | 0.0006 | mg/L | 0.0006 | ppm |
| 2 | Ba 233.527 | 54121.2 | 54171.9 | 0.1278 | mg/L | 0.1278 | ppm |
| 2 | Be 313.107 | -442.6 | -224.3 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Ca 227.547 | 27648.3 | 27037.0 | 110.1 | mg/L | 110.1 | ppm |
| 2 | Cd 228.802 | 229.6 | -8.7 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Co 228.616 | -332.8 | -29.1 | -0.0003 | mg/L | -0.0003 | ppm |
| 2 | Cr 267.716 | 243.1 | 544.1 | 0.0059 | mg/L | 0.0059 | ppm |
| 2 | Cu 324.754 | 3861.1 | 720.7 | 0.0024 | mg/L | 0.0024 | ppm |
| 2 | Fe 273.955 | 25343.6 | 24695.8 | 0.5496 | mg/L | 0.5496 | ppm |
| 2 | K 766.491 | 59685.0 | 62307.5 | 2.818 | mg/L | 2.818 | ppm |
| 2 | Mg 279.079 | 1591088.3 | 1585801.3 | 37.67 | mg/L | 37.67 | ppm |
| 2 | Mn 257.610 | 11306.0 | 10496.5 | 0.0079 | mg/L | 0.0079 | ppm |
| 2 | Mo 202.030 | -37.9 | 19.8 | 0.0011 | mg/L | 0.0011 | ppm |
| 2 | Na 330.237 | 27877.4 | 21159.0 | 30.88 | mg/L | 30.88 | ppm |
| 2 | Ni 231.604 | 65.6 | 146.0 | 0.0029 | mg/L | 0.0029 | ppm |
| 2 | Pb 220.353 | -155.8 | 19.4 | 0.0012 | mg/L | 0.0012 | ppm |

| | | | | |
|---|---|---|---|---|
| 2 Sb 206.833 | -21.7 | -10.5 | -0.0027 mg/L | -0.0027 ppm |
| 2 Se 196.026 | 50.8 | -1.1 | -0.0003 mg/L | -0.0003 ppm |
| 2 Tl 190.800 | 231.3 | 25.4 | 0.0069 mg/L | 0.0069 ppm |
| 2 V 292.402 | 535.7 | 394.8 | 0.0030 mg/L | 0.0030 ppm |
| 2 Zn 213.856 | -165.5 | 444.0 | 0.0041 mg/L | 0.0041 ppm |
| 3 Ag 328.068 | -145.4 | -74.2 | -0.0004 mg/L | -0.0004 ppm |
| 3 Al 308.215 | 4441.1 | 393.9 | 0.0122 mg/L | 0.0122 ppm |
| 3 As 188.979 | 124.9 | -3.3 | 0.0026 mg/L | 0.0026 ppm |
| 3 Ba 233.527 | 58375.4 | 58426.2 | 0.1379 mg/L | 0.1379 ppm |
| 3 Be 313.107 | -492.7 | -274.4 | -0.0001 mg/L | -0.0001 ppm |
| 3 Ca 227.547 | 29811.4 | 29200.2 | 118.9 mg/L | 118.9 ppm |
| 3 Cd 228.802 | 226.0 | -12.3 | -0.0001 mg/L | -0.0001 ppm |
| 3 Co 228.616 | -313.6 | -10.0 | -0.0001 mg/L | -0.0001 ppm |
| 3 Cr 267.716 | 232.5 | 533.5 | 0.0058 mg/L | 0.0058 ppm |
| 3 Cu 324.754 | 3791.0 | 650.6 | 0.0022 mg/L | 0.0022 ppm |
| 3 Fe 273.955 | 27326.6 | 26678.8 | 0.5938 mg/L | 0.5938 ppm |
| 3 K 766.491 | 65884.2 | 68506.7 | 3.088 mg/L | 3.088 ppm |
| 3 Mg 279.079 | 1715246.6 | 1709959.6 | 40.62 mg/L | 40.62 ppm |
| 3 Mn 257.610 | 12135.1 | 11325.6 | 0.0085 mg/L | 0.0085 ppm |
| 3 Mo 202.030 | -35.9 | 21.7 | 0.0012 mg/L | 0.0012 ppm |
| 3 Na 330.237 | 29945.7 | 23227.3 | 33.87 mg/L | 33.87 ppm |
| 3 Ni 231.604 | 69.5 | 149.9 | 0.0030 mg/L | 0.0030 ppm |
| 3 Pb 220.353 | -158.0 | 17.2 | 0.0011 mg/L | 0.0011 ppm |
| 3 Sb 206.833 | -18.6 | -7.4 | -0.0019 mg/L | -0.0019 ppm |
| 3 Se 196.026 | 57.9 | 6.0 | 0.0019 mg/L | 0.0019 ppm |
| 3 Tl 190.800 | 231.9 | 26.1 | 0.0070 mg/L | 0.0070 ppm |
| 3 V 292.402 | 722.8 | 581.9 | 0.0044 mg/L | 0.0044 ppm |
| 3 Zn 213.856 | -161.5 | 448.0 | 0.0042 mg/L | 0.0042 ppm |

ean Data ----------

D: 2809-4 D F=1 Seq. No.: 16 Sample No.: 5 A/S Pos: 14
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:14:21 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 41.8 | 0.0002 | 0.00088 | mg/L | 0.0002 | 0.00088 | ppm | 429.42% |
| l 308.215 | 172.7 | 0.0053 | 0.00639 | mg/L | 0.0053 | 0.00639 | ppm | 119.74% |
| s 188.979 | -3.0 | 0.0026 | 0.00201 | mg/L | 0.0026 | 0.00201 | ppm | 78.08% |
| a 233.527 | 56959.2 | 0.1344 | 0.00570 | mg/L | 0.1344 | 0.00570 | ppm | 4.24% |
| e 313.107 | -195.4 | -0.0001 | 0.00004 | mg/L | -0.0001 | 0.00004 | ppm | 49.49% |
| a 227.547 | 28465.4 | 115.9 | 5.04 | mg/L | 115.9 | 5.04 | ppm | 4.35% |
| d 228.802 | 3.5 | 0.0000 | 0.00019 | mg/L | 0.0000 | 0.00019 | ppm | 693.52% |
| o 228.616 | -14.3 | -0.0001 | 0.00013 | mg/L | -0.0001 | 0.00013 | ppm | 91.72% |
| r 267.716 | 546.3 | 0.0060 | 0.00015 | mg/L | 0.0060 | 0.00015 | ppm | 2.58% |
| u 324.754 | 709.0 | 0.0024 | 0.00018 | mg/L | 0.0024 | 0.00018 | ppm | 7.54% |
| e 273.955 | 25924.9 | 0.5770 | 0.02389 | mg/L | 0.5770 | 0.02389 | ppm | 4.14% |
| 766.491 | 66139.3 | 2.985 | 0.1459 | mg/L | 2.985 | 0.1459 | ppm | 4.89% |
| g 279.079 | 1662762.1 | 39.50 | 1.597 | mg/L | 39.50 | 1.597 | ppm | 4.04% |
| n 257.610 | 11084.1 | 0.0083 | 0.00038 | mg/L | 0.0083 | 0.00038 | ppm | 4.61% |
| o 202.030 | 18.8 | 0.0010 | 0.00019 | mg/L | 0.0010 | 0.00019 | ppm | 18.92% |
| a 330.237 | 22426.9 | 32.72 | 1.605 | mg/L | 32.72 | 1.605 | ppm | 4.91% |
| i 231.604 | 145.2 | 0.0029 | 0.00010 | mg/L | 0.0029 | 0.00010 | ppm | 3.52% |
| o 220.353 | 19.9 | 0.0012 | 0.00019 | mg/L | 0.0012 | 0.00019 | ppm | 14.92% |
| o 206.833 | -5.4 | -0.0013 | 0.00164 | mg/L | -0.0013 | 0.00164 | ppm | 121.31% |
| e 196.026 | 5.6 | 0.0018 | 0.00207 | mg/L | 0.0018 | 0.00207 | ppm | 115.94% |
| l 190.800 | 22.4 | 0.0060 | 0.00158 | mg/L | 0.0060 | 0.00158 | ppm | 26.19% |
| 292.402 | 487.1 | 0.0037 | 0.00071 | mg/L | 0.0037 | 0.00071 | ppm | 19.21% |
| n 213.856 | 442.5 | 0.0041 | 0.00006 | mg/L | 0.0041 | 0.00006 | ppm | 1.44% |

atrix Check Sample: 2809-4 D F=1

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | Relative % Diff. |
|---|---|---|---|---|---|
| g 328.068 | 0.0009 | 0.0002 | 0.001 | mg/L | 127.883 |
| l 308.215 | 0.0064 | 0.0053 | 0.006 | mg/L | 18.750 |
| s 188.979 | 0.0010 | 0.0026 | 0.002 | mg/L | 84.819 |
| a 233.527 | 0.1351 | 0.1344 | 0.006 | mg/L | 0.481 |
| e 313.107 | 0.0000 | -0.0001 | 0.000 | mg/L | -479.585 |
| a 227.547 | 114.9 | 115.9 | 5.039 | mg/L | 0.864 |

| | | | | | |
|---|---|---|---|---|---|
| d 228.802 | 0.0001 | 0.0000 | 0.000 | mg/L | 72.671 |
| o 228.616 | 0.0002 | -0.0001 | 0.000 | mg/L | 1103.193 |
| r 267.716 | 0.0065 | 0.0060 | 0.000 | mg/L | 8.900 |
| u 324.754 | 0.0035 | 0.0024 | 0.000 | mg/L | 39.598 |
| e 273.955 | 0.5920 | 0.5770 | 0.024 | mg/L | 2.565 |
| 766.491 | 2.991 | 2.985 | 0.146 | mg/L | 0.214 |
| g 279.079 | 39.26 | 39.50 | 1.597 | mg/L | 0.605 |
| n 257.610 | 0.0088 | 0.0083 | 0.000 | mg/L | 5.705 |
| o 202.030 | 0.0029 | 0.0010 | 0.000 | mg/L | 97.334 |
| a 330.237 | 32.47 | 32.72 | 1.605 | mg/L | 0.770 |
| i 231.604 | 0.0031 | 0.0029 | 0.000 | mg/L | 5.680 |
| b 220.353 | 0.0024 | 0.0012 | 0.000 | mg/L | 63.514 |
| b 206.833 | 0.0010 | -0.0013 | 0.002 | mg/L | -1180.627 |
| e 196.026 | 0.0031 | 0.0018 | 0.002 | mg/L | 53.167 |
| l 190.800 | 0.0038 | 0.0060 | 0.002 | mg/L | 44.635 |
| 292.402 | 0.0049 | 0.0037 | 0.001 | mg/L | 27.378 |
| n 213.856 | 0.0046 | 0.0041 | 0.000 | mg/L | 11.752 |

eplicate Data ----------

D: 2809-4 1/5 F=5 Date: 4/23/03 12:17:51 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -43.7 | 27.5 | 0.0001 | mg/L | 0.0007 | ppm |
| 1 | Al 308.215 | 3820.8 | -226.5 | -0.0070 | mg/L | -0.0350 | ppm |
| 1 | As 188.979 | 122.8 | -5.4 | -0.0019 | mg/L | -0.0093 | ppm |
| 1 | Ba 233.527 | 11441.4 | 11492.2 | 0.0271 | mg/L | 0.1356 | ppm |
| 1 | Be 313.107 | -501.9 | -283.6 | -0.0001 | mg/L | -0.0005 | ppm |
| 1 | Ca 227.547 | 6378.8 | 5767.5 | 23.49 | mg/L | 117.5 | ppm |
| 1 | Cd 228.802 | 217.0 | -21.3 | -0.0002 | mg/L | -0.0008 | ppm |
| 1 | Co 228.616 | -338.2 | -34.5 | -0.0003 | mg/L | -0.0017 | ppm |
| 1 | Cr 267.716 | -207.2 | 93.7 | 0.0010 | mg/L | 0.0051 | ppm |
| 1 | Cu 324.754 | 3122.2 | -18.2 | -0.0001 | mg/L | -0.0003 | ppm |
| 1 | Fe 273.955 | 5765.3 | 5117.6 | 0.1139 | mg/L | 0.5695 | ppm |
| 1 | K 766.491 | 7100.3 | 9722.7 | 0.4857 | mg/L | 2.428 | ppm |
| 1 | Mg 279.079 | 349834.2 | 344547.2 | 8.185 | mg/L | 40.93 | ppm |
| 1 | Mn 257.610 | 2484.4 | 1675.0 | 0.0013 | mg/L | 0.0063 | ppm |
| 1 | Mo 202.030 | -54.6 | 3.1 | 0.0002 | mg/L | 0.0008 | ppm |
| 1 | Na 330.237 | 10946.2 | 4227.8 | 6.212 | mg/L | 31.06 | ppm |
| 1 | Ni 231.604 | -70.1 | 10.3 | 0.0002 | mg/L | 0.0010 | ppm |
| 1 | Pb 220.353 | -167.9 | 7.2 | 0.0005 | mg/L | 0.0023 | ppm |
| 1 | Sb 206.833 | -13.2 | -2.0 | -0.0005 | mg/L | -0.0026 | ppm |
| 1 | Se 196.026 | 50.8 | -1.0 | -0.0003 | mg/L | -0.0017 | ppm |
| 1 | Tl 190.800 | 209.4 | 3.6 | 0.0010 | mg/L | 0.0048 | ppm |
| 1 | V 292.402 | 215.8 | 74.9 | 0.0006 | mg/L | 0.0028 | ppm |
| 1 | Zn 213.856 | -614.7 | -5.2 | 0.0000 | mg/L | -0.0002 | ppm |
| 2 | Ag 328.068 | -103.0 | -31.8 | -0.0002 | mg/L | -0.0008 | ppm |
| 2 | Al 308.215 | 3941.4 | -105.8 | -0.0033 | mg/L | -0.0164 | ppm |
| 2 | As 188.979 | 121.2 | -7.0 | -0.0024 | mg/L | -0.0122 | ppm |
| 2 | Ba 233.527 | 11517.0 | 11567.7 | 0.0273 | mg/L | 0.1365 | ppm |
| 2 | Be 313.107 | -477.6 | -259.3 | -0.0001 | mg/L | -0.0005 | ppm |
| 2 | Ca 227.547 | 6408.8 | 5797.5 | 23.61 | mg/L | 118.1 | ppm |
| 2 | Cd 228.802 | 209.1 | -29.2 | -0.0002 | mg/L | -0.0011 | ppm |
| 2 | Co 228.616 | -302.2 | 1.4 | 0.0000 | mg/L | 0.0001 | ppm |
| 2 | Cr 267.716 | -182.9 | 118.1 | 0.0013 | mg/L | 0.0064 | ppm |
| 2 | Cu 324.754 | 3188.2 | 47.8 | 0.0002 | mg/L | 0.0008 | ppm |
| 2 | Fe 273.955 | 5811.6 | 5163.8 | 0.1149 | mg/L | 0.5746 | ppm |
| 2 | K 766.491 | 7580.8 | 10203.3 | 0.5073 | mg/L | 2.537 | ppm |
| 2 | Mg 279.079 | 354898.3 | 349611.3 | 8.306 | mg/L | 41.53 | ppm |
| 2 | Mn 257.610 | 2599.0 | 1789.6 | 0.0013 | mg/L | 0.0067 | ppm |
| 2 | Mo 202.030 | -54.7 | 2.9 | 0.0002 | mg/L | 0.0008 | ppm |
| 2 | Na 330.237 | 11067.0 | 4348.6 | 6.390 | mg/L | 31.95 | ppm |
| 2 | Ni 231.604 | -79.8 | 0.6 | 0.0000 | mg/L | 0.0001 | ppm |
| 2 | Pb 220.353 | -168.9 | 6.2 | 0.0004 | mg/L | 0.0020 | ppm |
| 2 | Sb 206.833 | -4.5 | 6.7 | 0.0017 | mg/L | 0.0085 | ppm |
| 2 | Se 196.026 | 57.5 | 5.7 | 0.0018 | mg/L | 0.0090 | ppm |
| 2 | Tl 190.800 | 212.0 | 6.2 | 0.0017 | mg/L | 0.0083 | ppm |
| 2 | V 292.402 | 190.6 | 49.7 | 0.0004 | mg/L | 0.0019 | ppm |
| 2 | Zn 213.856 | -610.0 | -0.5 | 0.0000 | mg/L | 0.0000 | ppm |

| | | | | |
|---|---|---|---|---|
| 3 Ag 328.068 | -121.6 | -50.4 | -0.0002 mg/L | -0.0012 ppm |
| 3 Al 308.215 | 4046.8 | -0.4 | 0.0000 mg/L | -0.0001 ppm |
| 3 As 188.979 | 119.9 | -8.3 | -0.0029 mg/L | -0.0144 ppm |
| 3 Ba 233.527 | 11129.7 | 11180.5 | 0.0264 mg/L | 0.1319 ppm |
| 3 Be 313.107 | -499.9 | -281.5 | -0.0001 mg/L | -0.0005 ppm |
| 3 Ca 227.547 | 6383.3 | 5772.0 | 23.51 mg/L | 117.5 ppm |
| 3 Cd 228.802 | 244.5 | 6.2 | 0.0000 mg/L | 0.0002 ppm |
| 3 Co 228.616 | -314.1 | -10.4 | -0.0001 mg/L | -0.0005 ppm |
| 3 Cr 267.716 | -201.7 | 99.3 | 0.0011 mg/L | 0.0054 ppm |
| 3 Cu 324.754 | 3213.4 | 73.0 | 0.0002 mg/L | 0.0012 ppm |
| 3 Fe 273.955 | 5580.4 | 4932.7 | 0.1098 mg/L | 0.5489 ppm |
| 3 K 766.491 | 7624.8 | 10247.3 | 0.5093 mg/L | 2.547 ppm |
| 3 Mg 279.079 | 345478.3 | 340191.3 | 8.082 mg/L | 40.41 ppm |
| 3 Mn 257.610 | 2482.6 | 1673.1 | 0.0013 mg/L | 0.0063 ppm |
| 3 Mo 202.030 | -58.2 | -0.6 | 0.0000 mg/L | -0.0002 ppm |
| 3 Na 330.237 | 11047.9 | 4329.4 | 6.361 mg/L | 31.81 ppm |
| 3 Ni 231.604 | -86.1 | -5.7 | -0.0001 mg/L | -0.0006 ppm |
| 3 Pb 220.353 | -193.7 | -18.5 | -0.0012 mg/L | -0.0058 ppm |
| 3 Sb 206.833 | -12.8 | -1.6 | -0.0004 mg/L | -0.0021 ppm |
| 3 Se 196.026 | 67.6 | 15.7 | 0.0050 mg/L | 0.0250 ppm |
| 3 Tl 190.800 | 216.8 | 10.9 | 0.0030 mg/L | 0.0148 ppm |
| 3 V 292.402 | 185.5 | 44.6 | 0.0003 mg/L | 0.0017 ppm |
| 3 Zn 213.856 | -610.8 | -1.3 | 0.0000 mg/L | -0.0001 ppm |

ean Data ----------

D: 2809-4 1/5 F=5 Seq. No.: 17 Sample No.: 6 A/S Pos: 15
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 5.0
Data: Original Date: 4/23/03 12:17:51 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | -18.2 | -0.0001 | 0.00020 | mg/L | -0.0004 | 0.00100 | ppm | 223.34% |
| l 308.215 | -110.9 | -0.0034 | 0.00350 | mg/L | -0.0171 | 0.01749 | ppm | 101.99% |
| s 188.979 | -6.9 | -0.0024 | 0.00051 | mg/L | -0.0119 | 0.00256 | ppm | 21.45% |
| a 233.527 | 11413.5 | 0.0269 | 0.00048 | mg/L | 0.1347 | 0.00242 | ppm | 1.80% |
| e 313.107 | -274.8 | -0.0001 | 0.00001 | mg/L | -0.0005 | 0.00003 | ppm | 4.90% |
| a 227.547 | 5779.0 | 23.54 | 0.066 | mg/L | 117.7 | 0.33 | ppm | 0.28% |
| d 228.802 | -14.8 | -0.0001 | 0.00014 | mg/L | -0.0006 | 0.00072 | ppm | 126.02% |
| o 228.616 | -14.5 | -0.0001 | 0.00018 | mg/L | -0.0007 | 0.00089 | ppm | 126.49% |
| r 267.716 | 103.7 | 0.0011 | 0.00014 | mg/L | 0.0057 | 0.00070 | ppm | 12.31% |
| u 324.754 | 34.2 | 0.0001 | 0.00016 | mg/L | 0.0006 | 0.00078 | ppm | 137.65% |
| e 273.955 | 5071.4 | 0.1129 | 0.00272 | mg/L | 0.5643 | 0.01361 | ppm | 2.41% |
| 766.491 | 10057.7 | 0.5008 | 0.01311 | mg/L | 2.504 | 0.0656 | ppm | 2.62% |
| g 279.079 | 344783.3 | 8.191 | 0.1120 | mg/L | 40.95 | 0.560 | ppm | 1.37% |
| n 257.610 | 1712.5 | 0.0013 | 0.00005 | mg/L | 0.0064 | 0.00025 | ppm | 3.89% |
| o 202.030 | 1.8 | 0.0001 | 0.00011 | mg/L | 0.0005 | 0.00056 | ppm | 113.96% |
| a 330.237 | 4301.9 | 6.321 | 0.0953 | mg/L | 31.61 | 0.477 | ppm | 1.51% |
| i 231.604 | 1.7 | 0.0000 | 0.00016 | mg/L | 0.0002 | 0.00081 | ppm | 474.66% |
| o 220.353 | -1.7 | -0.0001 | 0.00092 | mg/L | -0.0005 | 0.00458 | ppm | 854.65% |
| o 206.833 | 1.0 | 0.0003 | 0.00125 | mg/L | 0.0013 | 0.00623 | ppm | 488.81% |
| e 196.026 | 6.8 | 0.0022 | 0.00269 | mg/L | 0.0108 | 0.01344 | ppm | 124.37% |
| l 190.800 | 6.9 | 0.0019 | 0.00101 | mg/L | 0.0093 | 0.00506 | ppm | 54.34% |
| 292.402 | 56.4 | 0.0004 | 0.00012 | mg/L | 0.0021 | 0.00062 | ppm | 28.70% |
| n 213.856 | -2.4 | 0.0000 | 0.00002 | mg/L | -0.0001 | 0.00012 | ppm | 107.26% |

eplicate Data ----------

D: 2809-4 MS F=1 Date: 4/23/03 12:21:27 PM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 206951.3 | 207022.5 | 1.021 | mg/L | 1.021 | ppm |
| 1 Al 308.215 | 74486.3 | 70439.0 | 2.178 | mg/L | 2.178 | ppm |
| 1 As 188.979 | 1600.4 | 1472.2 | 0.5225 | mg/L | 0.5225 | ppm |
| 1 Ba 233.527 | 1899673.8 | 1899724.5 | 4.483 | mg/L | 4.483 | ppm |
| 1 Be 313.107 | 521443.3 | 521661.6 | 0.1943 | mg/L | 0.1943 | ppm |
| 1 Ca 227.547 | 34663.8 | 34052.6 | 138.7 | mg/L | 138.7 | ppm |
| 1 Cd 228.802 | 33593.9 | 33355.6 | 0.2583 | mg/L | 0.2583 | ppm |
| 1 Co 228.616 | 103025.5 | 103329.2 | 1.003 | mg/L | 1.003 | ppm |
| 1 Cr 267.716 | 97753.7 | 98054.7 | 1.071 | mg/L | 1.071 | ppm |
| 1 Cu 324.754 | 283392.6 | 280252.2 | 0.9333 | mg/L | 0.9333 | ppm |
| 1 Fe 273.955 | 72631.6 | 71983.9 | 1.602 | mg/L | 1.602 | ppm |

| | | | | |
|---|---|---|---|---|
| 1 K 766.491 | 197178.8 | 199801.3 | 8.596 mg/L | 8.596 ppm |
| 1 Mg 279.079 | 2028553.1 | 2023266.1 | 48.07 mg/L | 48.07 ppm |
| 1 Mn 257.610 | 1290482.8 | 1289673.3 | 0.9689 mg/L | 0.9689 ppm |
| 1 Mo 202.030 | 40792.6 | 40850.3 | 2.216 mg/L | 2.216 ppm |
| 1 Na 330.237 | 58797.9 | 52079.5 | 75.01 mg/L | 75.01 ppm |
| 1 Ni 231.604 | 48191.7 | 48272.1 | 0.9671 mg/L | 0.9671 ppm |
| 1 Pb 220.353 | 49400.3 | 49575.4 | 3.117 mg/L | 3.117 ppm |
| 1 Sb 206.833 | 2119.9 | 2131.1 | 0.5059 mg/L | 0.5059 ppm |
| 1 Se 196.026 | 1723.0 | 1671.1 | 0.5315 mg/L | 0.5315 ppm |
| 1 Tl 190.800 | 2143.3 | 1937.4 | 0.5235 mg/L | 0.5235 ppm |
| 1 V 292.402 | 273180.1 | 273039.2 | 2.077 mg/L | 2.077 ppm |
| 1 Zn 213.856 | 54300.0 | 54909.5 | 0.5095 mg/L | 0.5095 ppm |
| 2 Ag 328.068 | 206883.6 | 206954.8 | 1.021 mg/L | 1.021 ppm |
| 2 Al 308.215 | 74493.6 | 70446.4 | 2.178 mg/L | 2.178 ppm |
| 2 As 188.979 | 1631.6 | 1503.4 | 0.5332 mg/L | 0.5332 ppm |
| 2 Ba 233.527 | 1957613.0 | 1957663.8 | 4.619 mg/L | 4.619 ppm |
| 2 Be 313.107 | 537352.7 | 537571.0 | 0.2002 mg/L | 0.2002 ppm |
| 2 Ca 227.547 | 34400.8 | 33789.5 | 137.6 mg/L | 137.6 ppm |
| 2 Cd 228.802 | 33560.3 | 33322.0 | 0.2581 mg/L | 0.2581 ppm |
| 2 Co 228.616 | 103299.9 | 103603.6 | 1.006 mg/L | 1.006 ppm |
| 2 Cr 267.716 | 97321.2 | 97622.2 | 1.066 mg/L | 1.066 ppm |
| 2 Cu 324.754 | 287356.9 | 284216.5 | 0.9465 mg/L | 0.9465 ppm |
| 2 Fe 273.955 | 72404.3 | 71756.5 | 1.597 mg/L | 1.597 ppm |
| 2 K 766.491 | 207563.7 | 210186.2 | 9.015 mg/L | 9.015 ppm |
| 2 Mg 279.079 | 2095919.7 | 2090632.7 | 49.67 mg/L | 49.67 ppm |
| 2 Mn 257.610 | 1328633.8 | 1327824.4 | 0.9976 mg/L | 0.9976 ppm |
| 2 Mo 202.030 | 40682.4 | 40740.0 | 2.210 mg/L | 2.210 ppm |
| 2 Na 330.237 | 58832.0 | 52113.6 | 75.06 mg/L | 75.06 ppm |
| 2 Ni 231.604 | 48077.7 | 48158.1 | 0.9648 mg/L | 0.9648 ppm |
| 2 Pb 220.353 | 49446.6 | 49621.7 | 3.120 mg/L | 3.120 ppm |
| 2 Sb 206.833 | 2150.6 | 2161.7 | 0.5138 mg/L | 0.5138 ppm |
| 2 Se 196.026 | 1760.5 | 1708.6 | 0.5434 mg/L | 0.5434 ppm |
| 2 Tl 190.800 | 2172.7 | 1966.9 | 0.5314 mg/L | 0.5314 ppm |
| 2 V 292.402 | 272047.4 | 271906.5 | 2.069 mg/L | 2.069 ppm |
| 2 Zn 213.856 | 54658.6 | 55268.0 | 0.5128 mg/L | 0.5128 ppm |
| 3 Ag 328.068 | 208285.8 | 208357.0 | 1.028 mg/L | 1.028 ppm |
| 3 Al 308.215 | 75043.9 | 70996.7 | 2.195 mg/L | 2.195 ppm |
| 3 As 188.979 | 1615.0 | 1486.8 | 0.5276 mg/L | 0.5276 ppm |
| 3 Ba 233.527 | 1918521.5 | 1918572.2 | 4.527 mg/L | 4.527 ppm |
| 3 Be 313.107 | 525363.1 | 525581.4 | 0.1957 mg/L | 0.1957 ppm |
| 3 Ca 227.547 | 34503.0 | 33891.8 | 138.0 mg/L | 138.0 ppm |
| 3 Cd 228.802 | 33857.3 | 33619.0 | 0.2604 mg/L | 0.2604 ppm |
| 3 Co 228.616 | 103597.5 | 103901.2 | 1.009 mg/L | 1.009 ppm |
| 3 Cr 267.716 | 98064.4 | 98365.4 | 1.074 mg/L | 1.074 ppm |
| 3 Cu 324.754 | 290647.6 | 287507.2 | 0.9574 mg/L | 0.9574 ppm |
| 3 Fe 273.955 | 72873.0 | 72225.3 | 1.607 mg/L | 1.607 ppm |
| 3 K 766.491 | 199357.0 | 201979.5 | 8.684 mg/L | 8.684 ppm |
| 3 Mg 279.079 | 2050691.8 | 2045404.8 | 48.59 mg/L | 48.59 ppm |
| 3 Mn 257.610 | 1300405.7 | 1299596.2 | 0.9764 mg/L | 0.9764 ppm |
| 3 Mo 202.030 | 40886.9 | 40944.5 | 2.221 mg/L | 2.221 ppm |
| 3 Na 330.237 | 58820.8 | 52102.4 | 75.04 mg/L | 75.04 ppm |
| 3 Ni 231.604 | 48462.1 | 48542.5 | 0.9725 mg/L | 0.9725 ppm |
| 3 Pb 220.353 | 49857.3 | 50032.5 | 3.146 mg/L | 3.146 ppm |
| 3 Sb 206.833 | 2122.1 | 2133.3 | 0.5064 mg/L | 0.5064 ppm |
| 3 Se 196.026 | 1735.9 | 1684.0 | 0.5356 mg/L | 0.5356 ppm |
| 3 Tl 190.800 | 2161.0 | 1955.1 | 0.5283 mg/L | 0.5283 ppm |
| 3 V 292.402 | 274497.8 | 274356.9 | 2.087 mg/L | 2.087 ppm |
| 3 Zn 213.856 | 55162.8 | 55772.3 | 0.5175 mg/L | 0.5175 ppm |

ean Data ----------

): 2809-4 MS F=1 Seq. No.: 18 Sample No.: 7 A/S Pos: 16

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:21:27 PM

| ement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| 328.068 | 207444.8 | 1.023 | 0.0039 | mg/L | 1.023 | 0.0039 | ppm | 0.38% |
| 308.215 | 70627.4 | 2.184 | 0.0099 | mg/L | 2.184 | 0.0099 | ppm | 0.45% |
| 188.979 | 1487.5 | 0.5278 | 0.00536 | mg/L | 0.5278 | 0.00536 | ppm | 1.02% |
| 233.527 | 1925320.2 | 4.543 | 0.0697 | mg/L | 4.543 | 0.0697 | ppm | 1.53% |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| e 313.107 | 528271.3 | 0.1967 | 0.00309 | mg/L | 0.1967 | 0.00309 | ppm 1.57% |
| a 227.547 | 33911.3 | 138.1 | 0.54 | mg/L | 138.1 | 0.54 | ppm 0.39% |
| d 228.802 | 33432.2 | 0.2589 | 0.00126 | mg/L | 0.2589 | 0.00126 | ppm 0.49% |
| o 228.616 | 103611.3 | 1.006 | 0.0028 | mg/L | 1.006 | 0.0028 | ppm 0.28% |
| r 267.716 | 98014.1 | 1.070 | 0.0041 | mg/L | 1.070 | 0.0041 | ppm 0.38% |
| u 324.754 | 283992.0 | 0.9457 | 0.01210 | mg/L | 0.9457 | 0.01210 | ppm 1.28% |
| e 273.955 | 71988.5 | 1.602 | 0.0052 | mg/L | 1.602 | 0.0052 | ppm 0.33% |
| 766.491 | 203989.0 | 8.765 | 0.2212 | mg/L | 8.765 | 0.2212 | ppm 2.52% |
| g 279.079 | 2053101.2 | 48.77 | 0.816 | mg/L | 48.77 | 0.816 | ppm 1.67% |
| n 257.610 | 1305697.9 | 0.9810 | 0.01487 | mg/L | 0.9810 | 0.01487 | ppm 1.52% |
| o 202.030 | 40844.9 | 2.216 | 0.0056 | mg/L | 2.216 | 0.0056 | ppm 0.25% |
| a 330.237 | 52098.5 | 75.03 | 0.024 | mg/L | 75.03 | 0.024 | ppm 0.03% |
| i 231.604 | 48324.2 | 0.9682 | 0.00396 | mg/L | 0.9682 | 0.00396 | ppm 0.41% |
| b 220.353 | 49743.2 | 3.128 | 0.0158 | mg/L | 3.128 | 0.0158 | ppm 0.51% |
| b 206.833 | 2142.0 | 0.5087 | 0.00442 | mg/L | 0.5087 | 0.00442 | ppm 0.87% |
| e 196.026 | 1687.9 | 0.5369 | 0.00605 | mg/L | 0.5369 | 0.00605 | ppm 1.13% |
| l 190.800 | 1953.1 | 0.5277 | 0.00398 | mg/L | 0.5277 | 0.00398 | ppm 0.76% |
| 292.402 | 273100.9 | 2.078 | 0.0093 | mg/L | 2.078 | 0.0093 | ppm 0.45% |
| n 213.856 | 55316.6 | 0.5133 | 0.00402 | mg/L | 0.5133 | 0.00402 | ppm 0.78% |

atrix Check Sample: 2809-4 MS F=1

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---|---|---|---|---|---|
| g 328.068 | 1.001 | 1.023 | 0.004 | mg/L | 102.216 |
| l 308.215 | 2.006 | 2.184 | 0.010 | mg/L | 108.880 |
| s 188.979 | 0.5010 | 0.5278 | 0.005 | mg/L | 105.348 |
| a 233.527 | 4.135 | 4.543 | 0.070 | mg/L | 110.203 |
| e 313.107 | 0.2000 | 0.1967 | 0.003 | mg/L | 98.347 |
| a 227.547 | 134.9 | 138.1 | 0.540 | mg/L | 115.888 |
| d 228.802 | 0.2501 | 0.2589 | 0.001 | mg/L | 103.546 |
| o 228.616 | 1.000 | 1.006 | 0.003 | mg/L | 100.595 |
| r 267.716 | 1.007 | 1.070 | 0.004 | mg/L | 106.359 |
| u 324.754 | 1.004 | 0.9457 | 0.012 | mg/L | 94.218 |
| e 273.955 | 1.592 | 1.602 | 0.005 | mg/L | 101.018 |
| 766.491 | 7.991 | 8.765 | 0.221 | mg/L | 115.472 |
| g 279.079 | 49.26 | 48.77 | 0.816 | mg/L | 95.115 |
| n 257.610 | 1.009 | 0.9810 | 0.015 | mg/L | 97.215 |
| o 202.030 | 2.003 | 2.216 | 0.006 | mg/L | 110.644 |
| a 330.237 | 72.47 | 75.03 | 0.024 | mg/L | 106.420 |
| i 231.604 | 1.003 | 0.9682 | 0.004 | mg/L | 96.509 |
| b 220.353 | 3.002 | 3.128 | 0.016 | mg/L | 104.182 |
| b 206.833 | 0.5010 | 0.5087 | 0.004 | mg/L | 101.552 |
| e 196.026 | 0.5031 | 0.5369 | 0.006 | mg/L | 106.754 |
| l 190.800 | 0.5038 | 0.5277 | 0.004 | mg/L | 104.779 |
| 292.402 | 2.005 | 2.078 | 0.009 | mg/L | 103.652 |
| n 213.856 | 0.5046 | 0.5133 | 0.004 | mg/L | 101.733 |

eplicate Data ----------

D: 2809-4 MSD F=1 Date: 4/23/03 12:25:06 PM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 209269.6 | 209340.9 | 1.032 | mg/L | 1.032 | ppm |
| 1 Al 308.215 | 74990.4 | 70943.2 | 2.194 | mg/L | 2.194 | ppm |
| 1 As 188.979 | 1604.5 | 1476.3 | 0.5240 | mg/L | 0.5240 | ppm |
| 1 Ba 233.527 | 1973803.6 | 1973854.4 | 4.658 | mg/L | 4.658 | ppm |
| 1 Be 313.107 | 542883.6 | 543102.0 | 0.2022 | mg/L | 0.2022 | ppm |
| 1 Ca 227.547 | 34868.8 | 34257.6 | 139.5 | mg/L | 139.5 | ppm |
| 1 Cd 228.802 | 34022.9 | 33784.6 | 0.2617 | mg/L | 0.2617 | ppm |
| 1 Co 228.616 | 104505.7 | 104809.4 | 1.018 | mg/L | 1.018 | ppm |
| 1 Cr 267.716 | 98662.7 | 98963.7 | 1.080 | mg/L | 1.080 | ppm |
| 1 Cu 324.754 | 290690.7 | 287550.3 | 0.9576 | mg/L | 0.9576 | ppm |
| 1 Fe 273.955 | 72912.5 | 72264.7 | 1.608 | mg/L | 1.608 | ppm |
| 1 K 766.491 | 205734.5 | 208357.0 | 8.941 | mg/L | 8.941 | ppm |
| 1 Mg 279.079 | 2110059.2 | 2104772.2 | 50.00 | mg/L | 50.00 | ppm |
| 1 Mn 257.610 | 1341204.2 | 1340394.7 | 1.007 | mg/L | 1.007 | ppm |
| 1 Mo 202.030 | 41100.6 | 41158.2 | 2.233 | mg/L | 2.233 | ppm |
| 1 Na 330.237 | 59155.0 | 52436.6 | 75.51 | mg/L | 75.51 | ppm |
| 1 Ni 231.604 | 48694.2 | 48774.6 | 0.9772 | mg/L | 0.9772 | ppm |

| | | | | | |
|---|---|---|---|---|---|
| 1 | Pb 220.353 | 50134.3 | 50309.5 | 3.163 mg/L | 3.163 ppm |
| 1 | Sb 206.833 | 2116.4 | 2127.6 | 0.5048 mg/L | 0.5048 ppm |
| 1 | Se 196.026 | 1718.0 | 1666.2 | 0.5299 mg/L | 0.5299 ppm |
| 1 | Tl 190.800 | 2129.3 | 1923.4 | 0.5197 mg/L | 0.5197 ppm |
| 1 | V 292.402 | 275275.3 | 275134.4 | 2.093 mg/L | 2.093 ppm |
| 1 | Zn 213.856 | 55139.7 | 55749.2 | 0.5173 mg/L | 0.5173 ppm |
| 2 | Ag 328.068 | 204960.3 | 205031.5 | 1.011 mg/L | 1.011 ppm |
| 2 | Al 308.215 | 73531.8 | 69484.6 | 2.149 mg/L | 2.149 ppm |
| 2 | As 188.979 | 1601.5 | 1473.3 | 0.5227 mg/L | 0.5227 ppm |
| 2 | Ba 233.527 | 1959393.8 | 1959444.6 | 4.624 mg/L | 4.624 ppm |
| 2 | Be 313.107 | 537759.0 | 537977.4 | 0.2003 mg/L | 0.2003 ppm |
| 2 | Ca 227.547 | 34224.2 | 33613.0 | 136.9 mg/L | 136.9 ppm |
| 2 | Cd 228.802 | 33568.9 | 33330.6 | 0.2581 mg/L | 0.2581 ppm |
| 2 | Co 228.616 | 102638.9 | 102942.6 | 0.9997 mg/L | 0.9997 ppm |
| 2 | Cr 267.716 | 96528.3 | 96829.3 | 1.057 mg/L | 1.057 ppm |
| 2 | Cu 324.754 | 288074.3 | 284933.9 | 0.9488 mg/L | 0.9488 ppm |
| 2 | Fe 273.955 | 71455.1 | 70807.4 | 1.576 mg/L | 1.576 ppm |
| 2 | K 766.491 | 205925.4 | 208547.9 | 8.949 mg/L | 8.949 ppm |
| 2 | Mg 279.079 | 2095298.8 | 2090011.8 | 49.65 mg/L | 49.65 ppm |
| 2 | Mn 257.610 | 1330786.5 | 1329977.0 | 0.9992 mg/L | 0.9992 ppm |
| 2 | Mo 202.030 | 40314.2 | 40371.9 | 2.190 mg/L | 2.190 ppm |
| 2 | Na 330.237 | 58144.8 | 51426.4 | 74.09 mg/L | 74.09 ppm |
| 2 | Ni 231.604 | 47844.2 | 47924.6 | 0.9602 mg/L | 0.9602 ppm |
| 2 | Pb 220.353 | 49102.6 | 49277.8 | 3.099 mg/L | 3.099 ppm |
| 2 | Sb 206.833 | 2120.9 | 2132.1 | 0.5066 mg/L | 0.5066 ppm |
| 2 | Se 196.026 | 1710.9 | 1659.0 | 0.5277 mg/L | 0.5277 ppm |
| 2 | Tl 190.800 | 2125.5 | 1919.6 | 0.5186 mg/L | 0.5186 ppm |
| 2 | V 292.402 | 269227.0 | 269086.1 | 2.047 mg/L | 2.047 ppm |
| 2 | Zn 213.856 | 54211.5 | 54821.0 | 0.5087 mg/L | 0.5087 ppm |
| 3 | Ag 328.068 | 206945.1 | 207016.3 | 1.021 mg/L | 1.021 ppm |
| 3 | Al 308.215 | 74323.6 | 70276.4 | 2.173 mg/L | 2.173 ppm |
| 3 | As 188.979 | 1628.0 | 1499.8 | 0.5320 mg/L | 0.5320 ppm |
| 3 | Ba 233.527 | 1955656.9 | 1955707.7 | 4.615 mg/L | 4.615 ppm |
| 3 | Be 313.107 | 537550.3 | 537768.7 | 0.2003 mg/L | 0.2003 ppm |
| 3 | Ca 227.547 | 34532.6 | 33921.3 | 138.2 mg/L | 138.2 ppm |
| 3 | Cd 228.802 | 33767.4 | 33529.1 | 0.2597 mg/L | 0.2597 ppm |
| 3 | Co 228.616 | 103245.3 | 103548.9 | 1.006 mg/L | 1.006 ppm |
| 3 | Cr 267.716 | 97520.9 | 97821.9 | 1.068 mg/L | 1.068 ppm |
| 3 | Cu 324.754 | 292687.1 | 289546.7 | 0.9642 mg/L | 0.9642 ppm |
| 3 | Fe 273.955 | 72409.2 | 71761.4 | 1.597 mg/L | 1.597 ppm |
| 3 | K 766.491 | 204953.9 | 207576.3 | 8.910 mg/L | 8.910 ppm |
| 3 | Mg 279.079 | 2095925.5 | 2090638.5 | 49.67 mg/L | 49.67 ppm |
| 3 | Mn 257.610 | 1327558.7 | 1326749.2 | 0.9968 mg/L | 0.9968 ppm |
| 3 | Mo 202.030 | 40803.6 | 40861.3 | 2.217 mg/L | 2.217 ppm |
| 3 | Na 330.237 | 58668.4 | 51950.0 | 74.82 mg/L | 74.82 ppm |
| 3 | Ni 231.604 | 48159.5 | 48239.9 | 0.9665 mg/L | 0.9665 ppm |
| 3 | Pb 220.353 | 49652.4 | 49827.5 | 3.133 mg/L | 3.133 ppm |
| 3 | Sb 206.833 | 2144.3 | 2155.5 | 0.5122 mg/L | 0.5122 ppm |
| 3 | Se 196.026 | 1731.0 | 1679.1 | 0.5341 mg/L | 0.5341 ppm |
| 3 | Tl 190.800 | 2167.5 | 1961.6 | 0.5300 mg/L | 0.5300 ppm |
| 3 | V 292.402 | 272060.4 | 271919.5 | 2.069 mg/L | 2.069 ppm |
| 3 | Zn 213.856 | 55023.9 | 55633.4 | 0.5162 mg/L | 0.5162 ppm |

ean Data ----------

): 2809-4 MSD F=1 Seq. No.: 19 Sample No.: 8 A/S Pos: 17

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:25:06 PM

| ement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| 328.068 | 207129.6 | 1.022 | 0.0106 | mg/L | 1.022 | 0.0106 | ppm | 1.04% |
| 308.215 | 70234.7 | 2.172 | 0.0226 | mg/L | 2.172 | 0.0226 | ppm | 1.04% |
| 188.979 | 1483.1 | 0.5263 | 0.00503 | mg/L | 0.5263 | 0.00503 | ppm | 0.96% |
| 233.527 | 1963002.2 | 4.632 | 0.0226 | mg/L | 4.632 | 0.0226 | ppm | 0.49% |
| 313.107 | 539616.0 | 0.2009 | 0.00112 | mg/L | 0.2009 | 0.00112 | ppm | 0.56% |
| 227.547 | 33930.6 | 138.2 | 1.31 | mg/L | 138.2 | 1.31 | ppm | 0.95% |
| 228.802 | 33548.1 | 0.2598 | 0.00176 | mg/L | 0.2598 | 0.00176 | ppm | 0.68% |
| 228.616 | 103767.0 | 1.008 | 0.0092 | mg/L | 1.008 | 0.0092 | ppm | 0.92% |
| 267.716 | 97871.6 | 1.069 | 0.0117 | mg/L | 1.069 | 0.0117 | ppm | 1.09% |
| 324.754 | 287343.6 | 0.9569 | 0.00770 | mg/L | 0.9569 | 0.00770 | ppm | 0.81% |

| | | | | | | |
|---|---|---|---|---|---|---|
| e 273.955 | 71611.1 | 1.594 | 0.0165 mg/L | 1.594 | 0.0165 ppm | 1.03% |
| 766.491 | 208160.4 | 8.933 | 0.0208 mg/L | 8.933 | 0.0208 ppm | 0.23% |
| g 279.079 | 2095140.9 | 49.77 | 0.198 mg/L | 49.77 | 0.198 ppm | 0.40% |
| n 257.610 | 1332373.7 | 1.001 | 0.0054 mg/L | 1.001 | 0.0054 ppm | 0.54% |
| o 202.030 | 40797.1 | 2.213 | 0.0215 mg/L | 2.213 | 0.0215 ppm | 0.97% |
| a 330.237 | 51937.6 | 74.81 | 0.712 mg/L | 74.81 | 0.712 ppm | 0.95% |
| i 231.604 | 48313.0 | 0.9679 | 0.00861 mg/L | 0.9679 | 0.00861 ppm | 0.89% |
| b 220.353 | 49804.9 | 3.132 | 0.0325 mg/L | 3.132 | 0.0325 ppm | 1.04% |
| b 206.833 | 2138.4 | 0.5079 | 0.00386 mg/L | 0.5079 | 0.00386 ppm | 0.76% |
| e 196.026 | 1668.1 | 0.5305 | 0.00324 mg/L | 0.5305 | 0.00324 ppm | 0.61% |
| l 190.800 | 1934.9 | 0.5228 | 0.00628 mg/L | 0.5228 | 0.00628 ppm | 1.20% |
| 292.402 | 272046.7 | 2.070 | 0.0230 mg/L | 2.070 | 0.0230 ppm | 1.11% |
| n 213.856 | 55401.2 | 0.5141 | 0.00469 mg/L | 0.5141 | 0.00469 ppm | 0.91% |

atrix Check Sample: 2809-4 MSD F=1

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---|---|---|---|---|---|
| g 328.068 | 1.001 | 1.022 | 0.011 | mg/L | 102.061 |
| l 308.215 | 2.006 | 2.172 | 0.023 | mg/L | 108.273 |
| s 188.979 | 0.5010 | 0.5263 | 0.005 | mg/L | 105.044 |
| a 233.527 | 4.135 | 4.632 | 0.023 | mg/L | 112.426 |
| e 313.107 | 0.2000 | 0.2009 | 0.001 | mg/L | 100.460 |
| a 227.547 | 134.9 | 138.2 | 1.313 | mg/L | 116.281 |
| d 228.802 | 0.2501 | 0.2598 | 0.002 | mg/L | 103.905 |
| o 228.616 | 1.000 | 1.008 | 0.009 | mg/L | 100.746 |
| r 267.716 | 1.007 | 1.069 | 0.012 | mg/L | 106.203 |
| u 324.754 | 1.004 | 0.9569 | 0.008 | mg/L | 95.334 |
| e 273.955 | 1.592 | 1.594 | 0.016 | mg/L | 100.178 |
| 766.491 | 7.991 | 8.933 | 0.021 | mg/L | 118.844 |
| g 279.079 | 49.26 | 49.77 | 0.198 | mg/L | 105.102 |
| n 257.610 | 1.009 | 1.001 | 0.005 | mg/L | 99.219 |
| o 202.030 | 2.003 | 2.213 | 0.022 | mg/L | 110.515 |
| a 330.237 | 72.47 | 74.81 | 0.712 | mg/L | 105.853 |
| i 231.604 | 1.003 | 0.9679 | 0.009 | mg/L | 96.487 |
| o 220.353 | 3.002 | 3.132 | 0.032 | mg/L | 104.311 |
| o 206.833 | 0.5010 | 0.5079 | 0.004 | mg/L | 101.379 |
| e 196.026 | 0.5031 | 0.5305 | 0.003 | mg/L | 105.493 |
| l 190.800 | 0.5038 | 0.5228 | 0.006 | mg/L | 103.787 |
| 292.402 | 2.005 | 2.070 | 0.023 | mg/L | 103.251 |
| n 213.856 | 0.5046 | 0.5141 | 0.005 | mg/L | 101.890 |

eplicate Data ----------

D: 2809-4 PS F=1 Date: 4/23/03 12:28:41 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 202299.5 | 202370.7 | 0.9981 | mg/L | 0.9981 | ppm |
| 1 | Al 308.215 | 72867.2 | 68820.0 | 2.128 | mg/L | 2.128 | ppm |
| 1 | As 188.979 | 1631.2 | 1503.0 | 0.5329 | mg/L | 0.5329 | ppm |
| 1 | Ba 233.527 | 1930812.2 | 1930862.9 | 4.556 | mg/L | 4.556 | ppm |
| 1 | Be 313.107 | 531182.9 | 531401.2 | 0.1979 | mg/L | 0.1979 | ppm |
| 1 | Ca 227.547 | 33861.2 | 33250.0 | 135.4 | mg/L | 135.4 | ppm |
| 1 | Cd 228.802 | 33302.8 | 33064.5 | 0.2561 | mg/L | 0.2561 | ppm |
| 1 | Co 228.616 | 101962.2 | 102265.9 | 0.9931 | mg/L | 0.9931 | ppm |
| 1 | Cr 267.716 | 95522.1 | 95823.1 | 1.046 | mg/L | 1.046 | ppm |
| 1 | Cu 324.754 | 282036.5 | 278896.1 | 0.9287 | mg/L | 0.9287 | ppm |
| 1 | Fe 273.955 | 70975.3 | 70327.5 | 1.565 | mg/L | 1.565 | ppm |
| 1 | K 766.491 | 198405.6 | 201028.0 | 8.645 | mg/L | 8.645 | ppm |
| 1 | Mg 279.079 | 2059765.7 | 2054478.7 | 48.81 | mg/L | 48.81 | ppm |
| 1 | Mn 257.610 | 1314036.2 | 1313226.7 | 0.9866 | mg/L | 0.9866 | ppm |
| 1 | Mo 202.030 | 40007.1 | 40064.8 | 2.174 | mg/L | 2.174 | ppm |
| 1 | Na 330.237 | 57549.5 | 50831.1 | 73.25 | mg/L | 73.25 | ppm |
| 1 | Ni 231.604 | 47131.7 | 47212.1 | 0.9459 | mg/L | 0.9459 | ppm |
| 1 | Pb 220.353 | 48695.1 | 48870.2 | 3.073 | mg/L | 3.073 | ppm |
| 1 | Sb 206.833 | 2139.1 | 2150.3 | 0.5115 | mg/L | 0.5115 | ppm |
| 1 | Se 196.026 | 1741.9 | 1690.0 | 0.5375 | mg/L | 0.5375 | ppm |
| 1 | Tl 190.800 | 2159.4 | 1953.5 | 0.5268 | mg/L | 0.5268 | ppm |
| 1 | V 292.402 | 266911.3 | 266770.4 | 2.030 | mg/L | 2.030 | ppm |
| 1 | Zn 213.856 | 53660.0 | 54269.4 | 0.5036 | mg/L | 0.5036 | ppm |

| | | | | |
|---|---|---|---|---|
| 2 Ag 328.068 | 207395.1 | 207466.3 | 1.023 mg/L | 1.023 ppm |
| 2 Al 308.215 | 74521.2 | 70474.0 | 2.179 mg/L | 2.179 ppm |
| 2 As 188.979 | 1614.1 | 1485.9 | 0.5273 mg/L | 0.5273 ppm |
| 2 Ba 233.527 | 1940746.3 | 1940797.1 | 4.580 mg/L | 4.580 ppm |
| 2 Be 313.107 | 533985.6 | 534204.0 | 0.1989 mg/L | 0.1989 ppm |
| 2 Ca 227.547 | 34692.2 | 34080.9 | 138.8 mg/L | 138.8 ppm |
| 2 Cd 228.802 | 33980.6 | 33742.4 | 0.2613 mg/L | 0.2613 ppm |
| 2 Co 228.616 | 104011.1 | 104314.8 | 1.013 mg/L | 1.013 ppm |
| 2 Cr 267.716 | 98182.3 | 98483.2 | 1.075 mg/L | 1.075 ppm |
| 2 Cu 324.754 | 291981.8 | 288841.4 | 0.9619 mg/L | 0.9619 ppm |
| 2 Fe 273.955 | 72745.6 | 72097.9 | 1.605 mg/L | 1.605 ppm |
| 2 K 766.491 | 201074.8 | 203697.3 | 8.753 mg/L | 8.753 ppm |
| 2 Mg 279.079 | 2073570.2 | 2068283.2 | 49.14 mg/L | 49.14 ppm |
| 2 Mn 257.610 | 1317056.0 | 1316246.5 | 0.9889 mg/L | 0.9889 ppm |
| 2 Mo 202.030 | 40980.5 | 41038.2 | 2.226 mg/L | 2.226 ppm |
| 2 Na 330.237 | 58816.7 | 52098.3 | 75.03 mg/L | 75.03 ppm |
| 2 Ni 231.604 | 48557.1 | 48637.5 | 0.9744 mg/L | 0.9744 ppm |
| 2 Pb 220.353 | 49893.5 | 50068.6 | 3.148 mg/L | 3.148 ppm |
| 2 Sb 206.833 | 2130.6 | 2141.8 | 0.5085 mg/L | 0.5085 ppm |
| 2 Se 196.026 | 1733.4 | 1681.6 | 0.5348 mg/L | 0.5348 ppm |
| 2 Tl 190.800 | 2156.0 | 1950.1 | 0.5269 mg/L | 0.5269 ppm |
| 2 V 292.402 | 273293.3 | 273152.4 | 2.078 mg/L | 2.078 ppm |
| 2 Zn 213.856 | 55108.8 | 55718.3 | 0.5170 mg/L | 0.5170 ppm |
| 3 Ag 328.068 | 204651.3 | 204722.6 | 1.010 mg/L | 1.010 ppm |
| 3 Al 308.215 | 73589.8 | 69542.6 | 2.150 mg/L | 2.150 ppm |
| 3 As 188.979 | 1601.0 | 1472.8 | 0.5226 mg/L | 0.5226 ppm |
| 3 Ba 233.527 | 1986868.1 | 1986918.8 | 4.689 mg/L | 4.689 ppm |
| 3 Be 313.107 | 545015.7 | 545234.1 | 0.2030 mg/L | 0.2030 ppm |
| 3 Ca 227.547 | 34149.6 | 33538.4 | 136.6 mg/L | 136.6 ppm |
| 3 Cd 228.802 | 33501.1 | 33262.8 | 0.2576 mg/L | 0.2576 ppm |
| 3 Co 228.616 | 102581.5 | 102885.2 | 0.9991 mg/L | 0.9991 ppm |
| 3 Cr 267.716 | 96606.7 | 96907.7 | 1.058 mg/L | 1.058 ppm |
| 3 Cu 324.754 | 289671.7 | 286531.3 | 0.9542 mg/L | 0.9542 ppm |
| 3 Fe 273.955 | 71377.5 | 70729.8 | 1.574 mg/L | 1.574 ppm |
| 3 K 766.491 | 207774.4 | 210396.9 | 9.024 mg/L | 9.024 ppm |
| 3 Mg 279.079 | 2126480.8 | 2121193.8 | 50.39 mg/L | 50.39 ppm |
| 3 Mn 257.610 | 1351148.8 | 1350339.3 | 1.015 mg/L | 1.015 ppm |
| 3 Mo 202.030 | 40335.2 | 40392.9 | 2.191 mg/L | 2.191 ppm |
| 3 Na 330.237 | 58043.0 | 51324.6 | 73.94 mg/L | 73.94 ppm |
| 3 Ni 231.604 | 47969.0 | 48049.4 | 0.9627 mg/L | 0.9627 ppm |
| 3 Pb 220.353 | 49080.9 | 49256.0 | 3.097 mg/L | 3.097 ppm |
| 3 Sb 206.833 | 2146.8 | 2158.0 | 0.5131 mg/L | 0.5131 ppm |
| 3 Se 196.026 | 1714.2 | 1662.4 | 0.5287 mg/L | 0.5287 ppm |
| 3 Tl 190.800 | 2151.7 | 1945.8 | 0.5257 mg/L | 0.5257 ppm |
| 3 V 292.402 | 269128.8 | 268987.9 | 2.047 mg/L | 2.047 ppm |
| 3 Zn 213.856 | 54289.6 | 54899.0 | 0.5094 mg/L | 0.5094 ppm |

ean Data

): 2809-4 PS F=1 Seq. No.: 20 Sample No.: 9 A/S Pos: 18
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:28:41 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| ; 328.068 | 204853.2 | 1.010 | 0.0126 | mg/L | 1.010 | 0.0126 | ppm | 1.24% |
| . 308.215 | 69612.2 | 2.153 | 0.0256 | mg/L | 2.153 | 0.0256 | ppm | 1.19% |
| ; 188.979 | 1487.2 | 0.5276 | 0.00517 | mg/L | 0.5276 | 0.00517 | ppm | 0.98% |
| ı 233.527 | 1952859.6 | 4.608 | 0.0706 | mg/L | 4.608 | 0.0706 | ppm | 1.53% |
| ; 313.107 | 536946.4 | 0.2000 | 0.00272 | mg/L | 0.2000 | 0.00272 | ppm | 1.36% |
| ı 227.547 | 33623.1 | 136.9 | 1.72 | mg/L | 136.9 | 1.72 | ppm | 1.25% |
| ł 228.802 | 33356.5 | 0.2583 | 0.00270 | mg/L | 0.2583 | 0.00270 | ppm | 1.04% |
| ) 228.616 | 103155.3 | 1.002 | 0.0102 | mg/L | 1.002 | 0.0102 | ppm | 1.02% |
| : 267.716 | 97071.4 | 1.060 | 0.0146 | mg/L | 1.060 | 0.0146 | ppm | 1.38% |
| ı 324.754 | 284756.3 | 0.9483 | 0.01733 | mg/L | 0.9483 | 0.01733 | ppm | 1.83% |
| ; 273.955 | 71051.7 | 1.581 | 0.0207 | mg/L | 1.581 | 0.0207 | ppm | 1.31% |
| 766.491 | 205040.7 | 8.807 | 0.1949 | mg/L | 8.807 | 0.1949 | ppm | 2.21% |
| ; 279.079 | 2081318.6 | 49.45 | 0.837 | mg/L | 49.45 | 0.837 | ppm | 1.69% |
| ı 257.610 | 1326604.2 | 0.9967 | 0.01548 | mg/L | 0.9967 | 0.01548 | ppm | 1.55% |
| ) 202.030 | 40498.6 | 2.197 | 0.0269 | mg/L | 2.197 | 0.0269 | ppm | 1.22% |
| ı 330.237 | 51418.0 | 74.08 | 0.900 | mg/L | 74.08 | 0.900 | ppm | 1.21% |

| | | | | | | |
|---|---|---|---|---|---|---|
| i 231.604 | 47966.3 | 0.9610 | 0.01435 mg/L | 0.9610 | 0.01435 ppm | 1.49% |
| b 220.353 | 49398.3 | 3.106 | 0.0385 mg/L | 3.106 | 0.0385 ppm | 1.24% |
| b 206.833 | 2150.0 | 0.5110 | 0.00233 mg/L | 0.5110 | 0.00233 ppm | 0.46% |
| e 196.026 | 1678.0 | 0.5337 | 0.00451 mg/L | 0.5337 | 0.00451 ppm | 0.84% |
| l 190.800 | 1949.8 | 0.5265 | 0.00067 mg/L | 0.5265 | 0.00067 ppm | 0.13% |
| 292.402 | 269636.9 | 2.052 | 0.0247 mg/L | 2.052 | 0.0247 ppm | 1.20% |
| n 213.856 | 54962.3 | 0.5100 | 0.00674 mg/L | 0.5100 | 0.00674 ppm | 1.32% |

atrix Check Sample: 2809-4 PS F=1

| lement | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---|---|---|---|---|---|
| g 328.068 | 1.001 | 1.010 | 0.013 | mg/L | 100.938 |
| l 308.215 | 2.006 | 2.153 | 0.026 | mg/L | 107.310 |
| s 188.979 | 0.5010 | 0.5276 | 0.005 | mg/L | 105.307 |
| a 233.527 | 4.135 | 4.608 | 0.071 | mg/L | 111.827 |
| e 313.107 | 0.2000 | 0.2000 | 0.003 | mg/L | 99.963 |
| a 227.547 | 134.9 | 136.9 | 1.718 | mg/L | 110.019 |
| d 228.802 | 0.2501 | 0.2583 | 0.003 | mg/L | 103.312 |
| o 228.616 | 1.000 | 1.002 | 0.010 | mg/L | 100.152 |
| r 267.716 | 1.007 | 1.060 | 0.015 | mg/L | 105.329 |
| u 324.754 | 1.004 | 0.9483 | 0.017 | mg/L | 94.473 |
| e 273.955 | 1.592 | 1.581 | 0.021 | mg/L | 98.933 |
| 766.491 | 7.991 | 8.807 | 0.195 | mg/L | 116.323 |
| g 279.079 | 49.26 | 49.45 | 0.837 | mg/L | 101.819 |
| n 257.610 | 1.009 | 0.9967 | 0.015 | mg/L | 98.785 |
| o 202.030 | 2.003 | 2.197 | 0.027 | mg/L | 109.705 |
| a 330.237 | 72.47 | 74.08 | 0.900 | mg/L | 104.023 |
| i 231.604 | 1.003 | 0.9610 | 0.014 | mg/L | 95.792 |
| b 220.353 | 3.002 | 3.106 | 0.038 | mg/L | 103.459 |
| b 206.833 | 0.5010 | 0.5110 | 0.002 | mg/L | 102.014 |
| e 196.026 | 0.5031 | 0.5337 | 0.005 | mg/L | 106.122 |
| l 190.800 | 0.5038 | 0.5265 | 0.001 | mg/L | 104.527 |
| 292.402 | 2.005 | 2.052 | 0.025 | mg/L | 102.334 |
| n 213.856 | 0.5046 | 0.5100 | 0.007 | mg/L | 101.075 |

eplicate Data ----------

D: CCV 1447B Date: 4/23/03 12:32:20 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 200600.9 | 200672.2 | 0.9897 | mg/L | | |
| 1 | Al 308.215 | 166230.4 | 162183.2 | 5.015 | mg/L | | |
| 1 | As 188.979 | 1557.5 | 1429.3 | 0.5004 | mg/L | | |
| 1 | Ba 233.527 | 2171973.8 | 2172024.6 | 5.125 | mg/L | | |
| 1 | Be 313.107 | 1332206.0 | 1332424.3 | 0.4962 | mg/L | | |
| 1 | Ca 227.547 | 12989.0 | 12377.7 | 50.41 | mg/L | | |
| 1 | Cd 228.802 | 129932.6 | 129694.4 | 1.004 | mg/L | | |
| 1 | Co 228.616 | 208559.2 | 208862.8 | 2.028 | mg/L | | |
| 1 | Cr 267.716 | 45839.8 | 46140.8 | 0.5038 | mg/L | | |
| 1 | Cu 324.754 | 609930.2 | 606789.8 | 2.021 | mg/L | | |
| 1 | Fe 273.955 | 227135.6 | 226487.9 | 5.041 | mg/L | | |
| 1 | K 766.491 | 359390.5 | 362013.0 | 14.92 | mg/L | | |
| 1 | Mg 279.079 | 1074922.6 | 1069635.6 | 25.41 | mg/L | | |
| 1 | Mn 257.610 | 2685196.1 | 2684386.6 | 2.017 | mg/L | | |
| 1 | Mo 202.030 | 37018.0 | 37075.6 | 2.011 | mg/L | | |
| 1 | Na 330.237 | 76011.2 | 69292.8 | 99.07 | mg/L | | |
| 1 | Ni 231.604 | 101467.6 | 101548.0 | 2.035 | mg/L | | |
| 1 | Pb 220.353 | 8126.4 | 8301.6 | 0.5220 | mg/L | | |
| 1 | Sb 206.833 | 7995.0 | 8006.2 | 2.003 | mg/L | | |
| 1 | Se 196.026 | 1672.6 | 1620.7 | 0.5167 | mg/L | | |
| 1 | Tl 190.800 | 2076.9 | 1871.0 | 0.5056 | mg/L | | |
| 1 | V 292.402 | 264378.1 | 264237.2 | 2.010 | mg/L | | |
| 1 | Zn 213.856 | 215653.4 | 216262.9 | 2.007 | mg/L | | |
| 2 | Ag 328.068 | 199372.8 | 199444.0 | 0.9836 | mg/L | | |
| 2 | Al 308.215 | 164629.5 | 160582.3 | 4.966 | mg/L | | |
| 2 | As 188.979 | 1535.5 | 1407.3 | 0.4927 | mg/L | | |
| 2 | Ba 233.527 | 2149596.6 | 2149647.4 | 5.073 | mg/L | | |
| 2 | Be 313.107 | 1326457.9 | 1326676.2 | 0.4940 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 2 Ca 227.547 | 12705.7 | 12094.4 | 49.26 | mg/L |
| 2 Cd 228.802 | 129093.3 | 128855.0 | 0.9979 | mg/L |
| 2 Co 228.616 | 206652.5 | 206956.2 | 2.010 | mg/L |
| 2 Cr 267.716 | 45312.7 | 45613.7 | 0.4980 | mg/L |
| 2 Cu 324.754 | 606339.6 | 603199.2 | 2.009 | mg/L |
| 2 Fe 273.955 | 224904.7 | 224257.0 | 4.991 | mg/L |
| 2 K 766.491 | 360509.9 | 363132.3 | 14.96 | mg/L |
| 2 Mg 279.079 | 1063845.7 | 1058558.7 | 25.15 | mg/L |
| 2 Mn 257.610 | 2680537.7 | 2679728.2 | 2.013 | mg/L |
| 2 Mo 202.030 | 36801.7 | 36859.3 | 2.000 | mg/L |
| 2 Na 330.237 | 75816.4 | 69098.0 | 98.80 | mg/L |
| 2 Ni 231.604 | 100602.0 | 100682.4 | 2.017 | mg/L |
| 2 Pb 220.353 | 7977.7 | 8152.8 | 0.5127 | mg/L |
| 2 Sb 206.833 | 7901.8 | 7913.0 | 1.980 | mg/L |
| 2 Se 196.026 | 1649.3 | 1597.5 | 0.5093 | mg/L |
| 2 Tl 190.800 | 2057.5 | 1851.7 | 0.5004 | mg/L |
| 2 V 292.402 | 262882.3 | 262741.4 | 1.999 | mg/L |
| 2 Zn 213.856 | 214617.0 | 215226.5 | 1.997 | mg/L |
| | | | | |
| 3 Ag 328.068 | 194800.6 | 194871.9 | 0.9611 | mg/L |
| 3 Al 308.215 | 161544.0 | 157496.8 | 4.870 | mg/L |
| 3 As 188.979 | 1566.0 | 1437.8 | 0.5032 | mg/L |
| 3 Ba 233.527 | 2108364.8 | 2108415.6 | 4.975 | mg/L |
| 3 Be 313.107 | 1309031.6 | 1309249.9 | 0.4876 | mg/L |
| 3 Ca 227.547 | 12438.2 | 11827.0 | 48.17 | mg/L |
| 3 Cd 228.802 | 126583.4 | 126345.1 | 0.9785 | mg/L |
| 3 Co 228.616 | 202638.5 | 202942.2 | 1.971 | mg/L |
| 3 Cr 267.716 | 44488.9 | 44789.9 | 0.4890 | mg/L |
| 3 Cu 324.754 | 593156.5 | 590016.1 | 1.965 | mg/L |
| 3 Fe 273.955 | 220709.2 | 220061.4 | 4.898 | mg/L |
| 3 K 766.491 | 355355.2 | 357977.7 | 14.77 | mg/L |
| 3 Mg 279.079 | 1044640.9 | 1039353.9 | 24.69 | mg/L |
| 3 Mn 257.610 | 2643948.0 | 2643138.5 | 1.986 | mg/L |
| 3 Mo 202.030 | 35956.0 | 36013.7 | 1.954 | mg/L |
| 3 Na 330.237 | 74280.1 | 67561.6 | 96.67 | mg/L |
| 3 Ni 231.604 | 98372.0 | 98452.3 | 1.972 | mg/L |
| 3 Pb 220.353 | 8036.9 | 8212.1 | 0.5164 | mg/L |
| 3 Sb 206.833 | 8000.9 | 8012.1 | 2.005 | mg/L |
| 3 Se 196.026 | 1689.3 | 1637.4 | 0.5220 | mg/L |
| 3 Tl 190.800 | 2083.1 | 1877.2 | 0.5073 | mg/L |
| 3 V 292.402 | 257037.3 | 256896.4 | 1.955 | mg/L |
| 3 Zn 213.856 | 210389.2 | 210998.7 | 1.958 | mg/L |

ean Data ----------

D: CCV 1447B Seq. No.: 21 Sample No.: 5 A/S Pos: 6

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:32:20 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 198329.4 | 0.9781 | 0.01507 | mg/L | | | | 1.54% |
| l 308.215 | 160087.4 | 4.950 | 0.0737 | mg/L | | | | 1.49% |
| s 188.979 | 1424.8 | 0.4988 | 0.00542 | mg/L | | | | 1.09% |
| a 233.527 | 2143362.5 | 5.058 | 0.0761 | mg/L | | | | 1.51% |
| e 313.107 | 1322783.5 | 0.4926 | 0.00449 | mg/L | | | | 0.91% |
| a 227.547 | 12099.7 | 49.28 | 1.122 | mg/L | | | | 2.28% |
| d 228.802 | 128298.2 | 0.9936 | 0.01350 | mg/L | | | | 1.36% |
| o 228.616 | 206253.7 | 2.003 | 0.0293 | mg/L | | | | 1.47% |
| r 267.716 | 45514.8 | 0.4969 | 0.00743 | mg/L | | | | 1.50% |
| u 324.754 | 600001.7 | 1.998 | 0.0294 | mg/L | | | | 1.47% |
| e 273.955 | 223602.1 | 4.976 | 0.0726 | mg/L | | | | 1.46% |
| 766.491 | 361041.0 | 14.88 | 0.102 | mg/L | | | | 0.68% |
| g 279.079 | 1055849.4 | 25.08 | 0.364 | mg/L | | | | 1.45% |
| n 257.610 | 2669084.4 | 2.005 | 0.0170 | mg/L | | | | 0.85% |
| o 202.030 | 36649.5 | 1.988 | 0.0304 | mg/L | | | | 1.53% |
| a 330.237 | 68650.8 | 98.18 | 1.317 | mg/L | | | | 1.34% |
| i 231.604 | 100227.6 | 2.008 | 0.0320 | mg/L | | | | 1.59% |
| o 220.353 | 8222.1 | 0.5170 | 0.00471 | mg/L | | | | 0.91% |
| o 206.833 | 7977.1 | 1.996 | 0.0140 | mg/L | | | | 0.70% |
| e 196.026 | 1618.5 | 0.5160 | 0.00637 | mg/L | | | | 1.23% |
| l 190.800 | 1866.6 | 0.5044 | 0.00360 | mg/L | | | | 0.71% |
| 292.402 | 261291.7 | 1.988 | 0.0295 | mg/L | | | | 1.48% |

in 213.856 214162.7 1.987 0.0259 mg/L 1.30%

eplicate Data ----------

D: CCB Date: 4/23/03 12:35:50 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | 151.9 | 223.2 | 0.0011 | mg/L | | |
| 1 | Al 308.215 | 3913.3 | -133.9 | -0.0041 | mg/L | | |
| 1 | As 188.979 | 116.8 | -11.3 | -0.0039 | mg/L | | |
| 1 | Ba 233.527 | 709.3 | 760.1 | 0.0018 | mg/L | | |
| 1 | Be 313.107 | 238.2 | 456.5 | 0.0002 | mg/L | | |
| 1 | Ca 227.547 | 614.3 | 3.0 | 0.0124 | mg/L | | |
| 1 | Cd 228.802 | 246.3 | 8.0 | 0.0001 | mg/L | | |
| 1 | Co 228.616 | -217.2 | 86.4 | 0.0008 | mg/L | | |
| 1 | Cr 267.716 | -287.1 | 13.9 | 0.0002 | mg/L | | |
| 1 | Cu 324.754 | 5134.2 | 1993.8 | 0.0066 | mg/L | | |
| 1 | Fe 273.955 | 645.5 | -2.2 | 0.0000 | mg/L | | |
| 1 | K 766.491 | -2317.5 | 304.9 | 0.0600 | mg/L | | |
| 1 | Mg 279.079 | 3362.0 | -1925.0 | -0.0457 | mg/L | | |
| 1 | Mn 257.610 | 1759.1 | 949.6 | 0.0007 | mg/L | | |
| 1 | Mo 202.030 | -24.2 | 33.5 | 0.0018 | mg/L | | |
| 1 | Na 330.237 | 6962.8 | 244.4 | 0.3523 | mg/L | | |
| 1 | Ni 231.604 | -25.6 | 54.8 | 0.0011 | mg/L | | |
| 1 | Pb 220.353 | -154.5 | 20.7 | 0.0013 | mg/L | | |
| 1 | Sb 206.833 | -20.6 | -9.4 | -0.0024 | mg/L | | |
| 1 | Se 196.026 | 60.1 | 8.3 | 0.0026 | mg/L | | |
| 1 | Tl 190.800 | 201.9 | -4.0 | -0.0011 | mg/L | | |
| 1 | V 292.402 | 170.2 | 29.3 | 0.0002 | mg/L | | |
| 1 | Zn 213.856 | -578.9 | 30.6 | 0.0003 | mg/L | | |
| 2 | Ag 328.068 | 39.3 | 110.6 | 0.0005 | mg/L | | |
| 2 | Al 308.215 | 3759.4 | -287.8 | -0.0089 | mg/L | | |
| 2 | As 188.979 | 125.8 | -2.4 | -0.0008 | mg/L | | |
| 2 | Ba 233.527 | 461.8 | 512.6 | 0.0012 | mg/L | | |
| 2 | Be 313.107 | 78.4 | 296.8 | 0.0001 | mg/L | | |
| 2 | Ca 227.547 | 615.8 | 4.5 | 0.0185 | mg/L | | |
| 2 | Cd 228.802 | 247.8 | 9.5 | 0.0001 | mg/L | | |
| 2 | Co 228.616 | -248.6 | 55.1 | 0.0005 | mg/L | | |
| 2 | Cr 267.716 | -304.6 | -3.6 | 0.0000 | mg/L | | |
| 2 | Cu 324.754 | 4857.7 | 1717.3 | 0.0057 | mg/L | | |
| 2 | Fe 273.955 | 490.8 | -157.0 | -0.0035 | mg/L | | |
| 2 | K 766.491 | -2603.2 | 19.3 | 0.0470 | mg/L | | |
| 2 | Mg 279.079 | 3294.0 | -1992.9 | -0.0473 | mg/L | | |
| 2 | Mn 257.610 | 1340.6 | 531.1 | 0.0004 | mg/L | | |
| 2 | Mo 202.030 | -29.5 | 28.2 | 0.0015 | mg/L | | |
| 2 | Na 330.237 | 6968.1 | 249.7 | 0.3601 | mg/L | | |
| 2 | Ni 231.604 | -68.3 | 12.1 | 0.0002 | mg/L | | |
| 2 | Pb 220.353 | -153.2 | 22.0 | 0.0014 | mg/L | | |
| 2 | Sb 206.833 | -6.4 | 4.8 | 0.0012 | mg/L | | |
| 2 | Se 196.026 | 67.4 | 15.6 | 0.0050 | mg/L | | |
| 2 | Tl 190.800 | 210.8 | 5.0 | 0.0013 | mg/L | | |
| 2 | V 292.402 | 111.1 | -29.8 | -0.0002 | mg/L | | |
| 2 | Zn 213.856 | -585.3 | 24.1 | 0.0002 | mg/L | | |
| 3 | Ag 328.068 | -92.7 | -21.5 | -0.0001 | mg/L | | |
| 3 | Al 308.215 | 3941.9 | -105.4 | -0.0033 | mg/L | | |
| 3 | As 188.979 | 122.1 | -6.1 | -0.0021 | mg/L | | |
| 3 | Ba 233.527 | 295.8 | 346.6 | 0.0008 | mg/L | | |
| 3 | Be 313.107 | -53.4 | 165.0 | 0.0001 | mg/L | | |
| 3 | Ca 227.547 | 602.3 | -8.9 | -0.0364 | mg/L | | |
| 3 | Cd 228.802 | 233.4 | -4.9 | 0.0000 | mg/L | | |
| 3 | Co 228.616 | -255.1 | 48.6 | 0.0005 | mg/L | | |
| 3 | Cr 267.716 | -313.9 | -12.9 | -0.0001 | mg/L | | |
| 3 | Cu 324.754 | 4417.3 | 1276.9 | 0.0043 | mg/L | | |
| 3 | Fe 273.955 | 290.9 | -356.8 | -0.0079 | mg/L | | |
| 3 | K 766.491 | -2722.8 | -100.3 | 0.0416 | mg/L | | |
| 3 | Mg 279.079 | 3271.7 | -2015.3 | -0.0479 | mg/L | | |
| 3 | Mn 257.610 | 1244.8 | 435.3 | 0.0003 | mg/L | | |
| 3 | Mo 202.030 | -40.2 | 17.5 | 0.0009 | mg/L | | |
| 3 | Na 330.237 | 6932.8 | 214.3 | 0.3079 | mg/L | | |

| | | | | |
|---|---|---|---|---|
| 3 Ni 231.604 | -73.5 | 6.9 | 0.0001 | mg/L |
| 3 Pb 220.353 | -132.8 | 42.3 | 0.0027 | mg/L |
| 3 Sb 206.833 | -12.0 | -0.8 | -0.0002 | mg/L |
| 3 Se 196.026 | 56.9 | 5.1 | 0.0016 | mg/L |
| 3 Tl 190.800 | 205.4 | -0.4 | -0.0001 | mg/L |
| 3 V 292.402 | 195.1 | 54.2 | 0.0004 | mg/L |
| 3 Zn 213.856 | -609.5 | -0.0 | 0.0000 | mg/L |

ean Data ----------

D: CCB Seq. No.: 22 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:35:50 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 104.1 | 0.0005 | 0.00060 | mg/L | | | | 117.64% |
| l 308.215 | -175.7 | -0.0054 | 0.00303 | mg/L | | | | 55.85% |
| s 188.979 | -6.6 | -0.0023 | 0.00156 | mg/L | | | | 68.06% |
| a 233.527 | 539.8 | 0.0013 | 0.00049 | mg/L | | | | 38.55% |
| e 313.107 | 306.1 | 0.0001 | 0.00005 | mg/L | | | | 47.70% |
| a 227.547 | -0.5 | -0.0019 | 0.03010 | mg/L | | | | >999.9% |
| d 228.802 | 4.2 | 0.0000 | 0.00006 | mg/L | | | | 187.78% |
| o 228.616 | 63.4 | 0.0006 | 0.00020 | mg/L | | | | 31.91% |
| r 267.716 | -0.9 | 0.0000 | 0.00015 | mg/L | | | | >999.9% |
| u 324.754 | 1662.7 | 0.0055 | 0.00120 | mg/L | | | | 21.74% |
| e 273.955 | -172.0 | -0.0038 | 0.00396 | mg/L | | | | 103.35% |
| 766.491 | 74.6 | 0.0495 | 0.00944 | mg/L | | | | 19.07% |
| g 279.079 | -1977.7 | -0.0470 | 0.00112 | mg/L | | | | 2.38% |
| n 257.610 | 638.7 | 0.0005 | 0.00021 | mg/L | | | | 42.83% |
| o 202.030 | 26.4 | 0.0014 | 0.00044 | mg/L | | | | 30.84% |
| a 330.237 | 236.1 | 0.3401 | 0.02811 | mg/L | | | | 8.26% |
| i 231.604 | 24.6 | 0.0005 | 0.00053 | mg/L | | | | 106.79% |
| b 220.353 | 28.3 | 0.0018 | 0.00076 | mg/L | | | | 42.93% |
| b 206.833 | -1.8 | -0.0005 | 0.00181 | mg/L | | | | 394.81% |
| e 196.026 | 9.6 | 0.0031 | 0.00171 | mg/L | | | | 55.78% |
| l 190.800 | 0.2 | 0.0001 | 0.00122 | mg/L | | | | >999.9% |
| 292.402 | 17.9 | 0.0001 | 0.00033 | mg/L | | | | 241.42% |
| n 213.856 | 18.2 | 0.0002 | 0.00015 | mg/L | | | | 88.61% |

eplicate Data ----------

D: 2809-1 F=1 Date: 4/23/03 12:39:13 PM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 1025.3 | 1096.5 | 0.0054 | mg/L | 0.0054 | ppm |
| 1 Al 308.215 | 4254.2 | 207.0 | 0.0064 | mg/L | 0.0064 | ppm |
| 1 As 188.979 | 132.1 | 3.9 | 0.0014 | mg/L | 0.0014 | ppm |
| 1 Ba 233.527 | 10623.4 | 10674.1 | 0.0252 | mg/L | 0.0252 | ppm |
| 1 Be 313.107 | -457.3 | -238.9 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 Ca 227.547 | 6613.5 | 6002.3 | 24.45 | mg/L | 24.45 | ppm |
| 1 Cd 228.802 | 226.9 | -11.4 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 Co 228.616 | -279.5 | 24.2 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 Cr 267.716 | -128.2 | 172.8 | 0.0019 | mg/L | 0.0019 | ppm |
| 1 Cu 324.754 | 4606.4 | 1466.0 | 0.0049 | mg/L | 0.0049 | ppm |
| 1 Fe 273.955 | 11244.7 | 10597.0 | 0.2358 | mg/L | 0.2358 | ppm |
| 1 K 766.491 | 38950.9 | 41573.4 | 1.907 | mg/L | 1.907 | ppm |
| 1 Mg 279.079 | 505932.9 | 500646.0 | 11.89 | mg/L | 11.89 | ppm |
| 1 Mn 257.610 | 90953.7 | 90144.2 | 0.0677 | mg/L | 0.0677 | ppm |
| 1 Mo 202.030 | 108.7 | 166.3 | 0.0090 | mg/L | 0.0090 | ppm |
| 1 Na 330.237 | 32696.8 | 25978.4 | 37.84 | mg/L | 37.84 | ppm |
| 1 Ni 231.604 | -6.5 | 73.9 | 0.0015 | mg/L | 0.0015 | ppm |
| 1 Pb 220.353 | -157.4 | 17.7 | 0.0011 | mg/L | 0.0011 | ppm |
| 1 Sb 206.833 | 1.6 | 12.8 | 0.0032 | mg/L | 0.0032 | ppm |
| 1 Se 196.026 | 55.3 | 3.5 | 0.0011 | mg/L | 0.0011 | ppm |
| 1 Tl 190.800 | 220.3 | 14.5 | 0.0039 | mg/L | 0.0039 | ppm |
| 1 V 292.402 | 479.3 | 338.4 | 0.0026 | mg/L | 0.0026 | ppm |
| 1 Zn 213.856 | -374.1 | 235.4 | 0.0022 | mg/L | 0.0022 | ppm |
| 2 Ag 328.068 | 985.5 | 1056.7 | 0.0052 | mg/L | 0.0052 | ppm |
| 2 Al 308.215 | 4206.5 | 159.3 | 0.0049 | mg/L | 0.0049 | ppm |
| 2 As 188.979 | 128.9 | 0.7 | 0.0002 | mg/L | 0.0002 | ppm |

| | | | | |
|---|---|---|---|---|
| 2 Ba 233.527 | 10606.6 | 10657.3 | 0.0251 mg/L | 0.0251 ppm |
| 2 Be 313.107 | -412.7 | -194.4 | -0.0001 mg/L | -0.0001 ppm |
| 2 Ca 227.547 | 6610.7 | 5999.5 | 24.43 mg/L | 24.43 ppm |
| 2 Cd 228.802 | 227.0 | -11.3 | -0.0001 mg/L | -0.0001 ppm |
| 2 Co 228.616 | -289.3 | 14.4 | 0.0001 mg/L | 0.0001 ppm |
| 2 Cr 267.716 | -133.5 | 167.4 | 0.0018 mg/L | 0.0018 ppm |
| 2 Cu 324.754 | 4263.7 | 1123.3 | 0.0037 mg/L | 0.0037 ppm |
| 2 Fe 273.955 | 10921.6 | 10273.9 | 0.2287 mg/L | 0.2287 ppm |
| 2 K 766.491 | 39909.4 | 42531.8 | 1.949 mg/L | 1.949 ppm |
| 2 Mg 279.079 | 507018.5 | 501731.5 | 11.92 mg/L | 11.92 ppm |
| 2 Mn 257.610 | 91258.8 | 90449.3 | 0.0680 mg/L | 0.0680 ppm |
| 2 Mo 202.030 | 95.1 | 152.7 | 0.0083 mg/L | 0.0083 ppm |
| 2 Na 330.237 | 32704.1 | 25985.7 | 37.85 mg/L | 37.85 ppm |
| 2 Ni 231.604 | 15.6 | 96.0 | 0.0019 mg/L | 0.0019 ppm |
| 2 Pb 220.353 | -148.8 | 26.4 | 0.0017 mg/L | 0.0017 ppm |
| 2 Sb 206.833 | 4.0 | 15.2 | 0.0038 mg/L | 0.0038 ppm |
| 2 Se 196.026 | 71.9 | 20.0 | 0.0064 mg/L | 0.0064 ppm |
| 2 Tl 190.800 | 211.8 | 6.0 | 0.0016 mg/L | 0.0016 ppm |
| 2 V 292.402 | 354.0 | 213.1 | 0.0016 mg/L | 0.0016 ppm |
| 2 Zn 213.856 | -383.7 | 225.8 | 0.0021 mg/L | 0.0021 ppm |
| | | | | |
| 3 Ag 328.068 | 747.5 | 818.7 | 0.0040 mg/L | 0.0040 ppm |
| 3 Al 308.215 | 4303.8 | 256.6 | 0.0079 mg/L | 0.0079 ppm |
| 3 As 188.979 | 134.8 | 6.6 | 0.0023 mg/L | 0.0023 ppm |
| 3 Ba 233.527 | 10531.2 | 10581.9 | 0.0250 mg/L | 0.0250 ppm |
| 3 Be 313.107 | -418.8 | -200.4 | -0.0001 mg/L | -0.0001 ppm |
| 3 Ca 227.547 | 6626.3 | 6015.1 | 24.50 mg/L | 24.50 ppm |
| 3 Cd 228.802 | 224.9 | -13.4 | -0.0001 mg/L | -0.0001 ppm |
| 3 Co 228.616 | -288.0 | 15.7 | 0.0002 mg/L | 0.0002 ppm |
| 3 Cr 267.716 | -153.9 | 147.1 | 0.0016 mg/L | 0.0016 ppm |
| 3 Cu 324.754 | 4370.1 | 1229.7 | 0.0041 mg/L | 0.0041 ppm |
| 3 Fe 273.955 | 10878.3 | 10230.6 | 0.2277 mg/L | 0.2277 ppm |
| 3 K 766.491 | 39818.8 | 42441.3 | 1.945 mg/L | 1.945 ppm |
| 3 Mg 279.079 | 500210.0 | 494923.1 | 11.76 mg/L | 11.76 ppm |
| 3 Mn 257.610 | 89688.9 | 88879.4 | 0.0668 mg/L | 0.0668 ppm |
| 3 Mo 202.030 | 103.7 | 161.3 | 0.0088 mg/L | 0.0088 ppm |
| 3 Na 330.237 | 31993.2 | 25274.7 | 36.83 mg/L | 36.83 ppm |
| 3 Ni 231.604 | -2.9 | 77.4 | 0.0016 mg/L | 0.0016 ppm |
| 3 Pb 220.353 | -166.0 | 9.2 | 0.0006 mg/L | 0.0006 ppm |
| 3 Sb 206.833 | -4.7 | 6.5 | 0.0016 mg/L | 0.0016 ppm |
| 3 Se 196.026 | 57.3 | 5.4 | 0.0017 mg/L | 0.0017 ppm |
| 3 Tl 190.800 | 210.1 | 4.3 | 0.0012 mg/L | 0.0012 ppm |
| 3 V 292.402 | 560.5 | 419.6 | 0.0032 mg/L | 0.0032 ppm |
| 3 Zn 213.856 | -380.9 | 228.6 | 0.0021 mg/L | 0.0021 ppm |

ean Data ----------

D: 2809-1 F=1 Seq. No.: 23 Sample No.: 10 A/S Pos: 19
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:39:13 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Units | Mean Conc. | Sample Std.Dev. | Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 990.6 | 0.0049 | 0.00074 | mg/L | 0.0049 | 0.00074 | ppm | 15.16% |
| l 308.215 | 207.6 | 0.0064 | 0.00150 | mg/L | 0.0064 | 0.00150 | ppm | 23.43% |
| s 188.979 | 3.7 | 0.0013 | 0.00103 | mg/L | 0.0013 | 0.00103 | ppm | 79.27% |
| a 233.527 | 10637.8 | 0.0251 | 0.00012 | mg/L | 0.0251 | 0.00012 | ppm | 0.46% |
| e 313.107 | -211.2 | -0.0001 | 0.00001 | mg/L | -0.0001 | 0.00001 | ppm | 11.43% |
| a 227.547 | 6005.6 | 24.46 | 0.034 | mg/L | 24.46 | 0.034 | ppm | 0.14% |
| d 228.802 | -12.0 | -0.0001 | 0.00001 | mg/L | -0.0001 | 0.00001 | ppm | 9.82% |
| o 228.616 | 18.1 | 0.0002 | 0.00005 | mg/L | 0.0002 | 0.00005 | ppm | 29.59% |
| r 267.716 | 162.4 | 0.0018 | 0.00015 | mg/L | 0.0018 | 0.00015 | ppm | 8.33% |
| u 324.754 | 1273.0 | 0.0042 | 0.00058 | mg/L | 0.0042 | 0.00058 | ppm | 13.78% |
| e 273.955 | 10367.1 | 0.2307 | 0.00446 | mg/L | 0.2307 | 0.00446 | ppm | 1.93% |
| 766.491 | 42182.2 | 1.934 | 0.0234 | mg/L | 1.934 | 0.0234 | ppm | 1.21% |
| g 279.079 | 499100.2 | 11.86 | 0.087 | mg/L | 11.86 | 0.087 | ppm | 0.73% |
| n 257.610 | 89824.3 | 0.0675 | 0.00063 | mg/L | 0.0675 | 0.00063 | ppm | 0.93% |
| o 202.030 | 160.1 | 0.0087 | 0.00037 | mg/L | 0.0087 | 0.00037 | ppm | 4.29% |
| a 330.237 | 25746.3 | 37.51 | 0.588 | mg/L | 37.51 | 0.588 | ppm | 1.57% |
| i 231.604 | 82.4 | 0.0017 | 0.00024 | mg/L | 0.0017 | 0.00024 | ppm | 14.36% |
| b 220.353 | 17.8 | 0.0011 | 0.00054 | mg/L | 0.0011 | 0.00054 | ppm | 48.55% |
| b 206.833 | 11.5 | 0.0029 | 0.00113 | mg/L | 0.0029 | 0.00113 | ppm | 38.89% |
| e 196.026 | 9.6 | 0.0031 | 0.00288 | mg/L | 0.0031 | 0.00288 | ppm | 94.00% |

| | | | | | | |
|---|---|---|---|---|---|---|
| l 190.800 | 8.2 | 0.0022 | 0.00148 mg/L | 0.0022 | 0.00148 ppm | 66.41% |
| 292.402 | 323.7 | 0.0025 | 0.00079 mg/L | 0.0025 | 0.00079 ppm | 32.14% |
| n 213.856 | 229.9 | 0.0021 | 0.00005 mg/L | 0.0021 | 0.00005 ppm | 2.16% |

eplicate Data
D: 2809-2 F=1 Date: 4/23/03 12:42:36 PM

| epl# | Element | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---|---|---|---|---|---|---|---|
| 1 | Ag 328.068 | -54.8 | 16.4 | 0.0001 | mg/L | 0.0001 | ppm |
| 1 | Al 308.215 | 4265.0 | 217.8 | 0.0067 | mg/L | 0.0067 | ppm |
| 1 | As 188.979 | 130.4 | 2.2 | 0.0008 | mg/L | 0.0008 | ppm |
| 1 | Ba 233.527 | 434.3 | 485.1 | 0.0011 | mg/L | 0.0011 | ppm |
| 1 | Be 313.107 | -392.5 | -174.1 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 | Ca 227.547 | 638.1 | 26.8 | 0.1092 | mg/L | 0.1092 | ppm |
| 1 | Cd 228.802 | 251.1 | 12.8 | 0.0001 | mg/L | 0.0001 | ppm |
| 1 | Co 228.616 | -303.4 | 0.3 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 | Cr 267.716 | -87.7 | 213.3 | 0.0023 | mg/L | 0.0023 | ppm |
| 1 | Cu 324.754 | 4066.0 | 925.6 | 0.0031 | mg/L | 0.0031 | ppm |
| 1 | Fe 273.955 | 1362.9 | 715.2 | 0.0159 | mg/L | 0.0159 | ppm |
| 1 | K 766.491 | -1762.5 | 859.9 | 0.0851 | mg/L | 0.0851 | ppm |
| 1 | Mg 279.079 | 3546.8 | -1740.2 | -0.0413 | mg/L | -0.0413 | ppm |
| 1 | Mn 257.610 | 1584.9 | 775.4 | 0.0006 | mg/L | 0.0006 | ppm |
| 1 | Mo 202.030 | -53.7 | 3.9 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Na 330.237 | 7093.9 | 375.5 | 0.5454 | mg/L | 0.5454 | ppm |
| 1 | Ni 231.604 | 157.9 | 238.3 | 0.0048 | mg/L | 0.0048 | ppm |
| 1 | Pb 220.353 | -165.5 | 9.7 | 0.0006 | mg/L | 0.0006 | ppm |
| 1 | Sb 206.833 | -19.7 | -8.5 | -0.0022 | mg/L | -0.0022 | ppm |
| 1 | Se 196.026 | 52.5 | 0.6 | 0.0002 | mg/L | 0.0002 | ppm |
| 1 | Tl 190.800 | 203.9 | -2.0 | -0.0005 | mg/L | -0.0005 | ppm |
| 1 | V 292.402 | 175.3 | 34.4 | 0.0003 | mg/L | 0.0003 | ppm |
| 1 | Zn 213.856 | -165.2 | 444.2 | 0.0041 | mg/L | 0.0041 | ppm |
| 2 | Ag 328.068 | -144.8 | -73.6 | -0.0004 | mg/L | -0.0004 | ppm |
| 2 | Al 308.215 | 4209.3 | 162.1 | 0.0050 | mg/L | 0.0050 | ppm |
| 2 | As 188.979 | 126.2 | -2.0 | -0.0007 | mg/L | -0.0007 | ppm |
| 2 | Ba 233.527 | 379.4 | 430.2 | 0.0010 | mg/L | 0.0010 | ppm |
| 2 | Be 313.107 | -485.3 | -266.9 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Ca 227.547 | 619.6 | 8.4 | 0.0341 | mg/L | 0.0341 | ppm |
| 2 | Cd 228.802 | 221.0 | -17.3 | -0.0001 | mg/L | -0.0001 | ppm |
| 2 | Co 228.616 | -303.1 | 0.6 | 0.0000 | mg/L | 0.0000 | ppm |
| 2 | Cr 267.716 | -91.7 | 209.3 | 0.0023 | mg/L | 0.0023 | ppm |
| 2 | Cu 324.754 | 3929.6 | 789.2 | 0.0026 | mg/L | 0.0026 | ppm |
| 2 | Fe 273.955 | 1263.2 | 615.5 | 0.0137 | mg/L | 0.0137 | ppm |
| 2 | K 766.491 | -1701.7 | 920.8 | 0.0879 | mg/L | 0.0879 | ppm |
| 2 | Mg 279.079 | 3402.4 | -1884.6 | -0.0448 | mg/L | -0.0448 | ppm |
| 2 | Mn 257.610 | 1519.3 | 709.8 | 0.0005 | mg/L | 0.0005 | ppm |
| 2 | Mo 202.030 | -51.5 | 6.1 | 0.0003 | mg/L | 0.0003 | ppm |
| 2 | Na 330.237 | 6977.4 | 258.9 | 0.3737 | mg/L | 0.3737 | ppm |
| 2 | Ni 231.604 | 154.8 | 235.2 | 0.0047 | mg/L | 0.0047 | ppm |
| 2 | Pb 220.353 | -139.1 | 36.0 | 0.0023 | mg/L | 0.0023 | ppm |
| 2 | Sb 206.833 | -12.7 | -1.5 | -0.0004 | mg/L | -0.0004 | ppm |
| 2 | Se 196.026 | 69.8 | 17.9 | 0.0057 | mg/L | 0.0057 | ppm |
| 2 | Tl 190.800 | 206.8 | 0.9 | 0.0003 | mg/L | 0.0003 | ppm |
| 2 | V 292.402 | 154.7 | 13.8 | 0.0001 | mg/L | 0.0001 | ppm |
| 2 | Zn 213.856 | -170.1 | 439.3 | 0.0041 | mg/L | 0.0041 | ppm |
| 3 | Ag 328.068 | 40.4 | 111.6 | 0.0006 | mg/L | 0.0006 | ppm |
| 3 | Al 308.215 | 4388.6 | 341.4 | 0.0106 | mg/L | 0.0106 | ppm |
| 3 | As 188.979 | 117.6 | -10.6 | -0.0037 | mg/L | -0.0037 | ppm |
| 3 | Ba 233.527 | 330.5 | 381.3 | 0.0009 | mg/L | 0.0009 | ppm |
| 3 | Be 313.107 | -419.1 | -200.7 | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Ca 227.547 | 641.9 | 30.6 | 0.1248 | mg/L | 0.1248 | ppm |
| 3 | Cd 228.802 | 243.3 | 5.0 | 0.0000 | mg/L | 0.0000 | ppm |
| 3 | Co 228.616 | -288.1 | 15.6 | 0.0002 | mg/L | 0.0002 | ppm |
| 3 | Cr 267.716 | -125.9 | 175.1 | 0.0019 | mg/L | 0.0019 | ppm |
| 3 | Cu 324.754 | 3898.0 | 757.6 | 0.0025 | mg/L | 0.0025 | ppm |
| 3 | Fe 273.955 | 1247.6 | 599.8 | 0.0133 | mg/L | 0.0133 | ppm |
| 3 | K 766.491 | -2116.3 | 506.2 | 0.0691 | mg/L | 0.0691 | ppm |
| 3 | Mg 279.079 | 3417.3 | -1869.7 | -0.0444 | mg/L | -0.0444 | ppm |
| 3 | Mn 257.610 | 1595.1 | 785.6 | 0.0006 | mg/L | 0.0006 | ppm |

| | | | | |
|---|---|---|---|---|
| 3 Mo 202.030 | -53.2 | 4.4 | 0.0002 mg/L | 0.0002 ppm |
| 3 Na 330.237 | 6910.9 | 192.5 | 0.2757 mg/L | 0.2757 ppm |
| 3 Ni 231.604 | 129.4 | 209.8 | 0.0042 mg/L | 0.0042 ppm |
| 3 Pb 220.353 | -155.2 | 19.9 | 0.0013 mg/L | 0.0013 ppm |
| 3 Sb 206.833 | -4.9 | 6.3 | 0.0016 mg/L | 0.0016 ppm |
| 3 Se 196.026 | 55.1 | 3.2 | 0.0010 mg/L | 0.0010 ppm |
| 3 Tl 190.800 | 201.6 | -4.3 | -0.0012 mg/L | -0.0012 ppm |
| 3 V 292.402 | 102.0 | -38.9 | -0.0003 mg/L | -0.0003 ppm |
| 3 Zn 213.856 | -182.1 | 427.4 | 0.0040 mg/L | 0.0040 ppm |

ean Data ----------

D: 2809-2 F=1 Seq. No.: 24 Sample No.: 11 A/S Pos: 20
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:42:36 PM

| lement | Mean Corr. Intensity | Mean Conc. | Calib Std.Dev. | Calib Units | Sample Mean Conc. | Sample Std.Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| g 328.068 | 18.2 | 0.0001 | 0.00046 | mg/L | 0.0001 | 0.00046 | ppm | 509.73% |
| l 308.215 | 240.4 | 0.0074 | 0.00284 | mg/L | 0.0074 | 0.00284 | ppm | 38.16% |
| s 188.979 | -3.5 | -0.0012 | 0.00225 | mg/L | -0.0012 | 0.00225 | ppm | 187.99% |
| a 233.527 | 432.2 | 0.0010 | 0.00012 | mg/L | 0.0010 | 0.00012 | ppm | 12.01% |
| e 313.107 | -213.9 | -0.0001 | 0.00002 | mg/L | -0.0001 | 0.00002 | ppm | 22.35% |
| a 227.547 | 21.9 | 0.0894 | 0.04850 | mg/L | 0.0894 | 0.04850 | ppm | 54.26% |
| d 228.802 | 0.2 | 0.0000 | 0.00012 | mg/L | 0.0000 | 0.00012 | ppm | >999.9% |
| o 228.616 | 5.5 | 0.0001 | 0.00008 | mg/L | 0.0001 | 0.00008 | ppm | 158.41% |
| r 267.716 | 199.2 | 0.0022 | 0.00023 | mg/L | 0.0022 | 0.00023 | ppm | 10.54% |
| u 324.754 | 824.1 | 0.0027 | 0.00030 | mg/L | 0.0027 | 0.00030 | ppm | 10.83% |
| e 273.955 | 643.5 | 0.0143 | 0.00139 | mg/L | 0.0143 | 0.00139 | ppm | 9.72% |
| 766.491 | 762.3 | 0.0807 | 0.01015 | mg/L | 0.0807 | 0.01015 | ppm | 12.57% |
| g 279.079 | -1831.5 | -0.0435 | 0.00189 | mg/L | -0.0435 | 0.00189 | ppm | 4.34% |
| n 257.610 | 756.9 | 0.0006 | 0.00003 | mg/L | 0.0006 | 0.00003 | ppm | 5.43% |
| o 202.030 | 4.8 | 0.0003 | 0.00006 | mg/L | 0.0003 | 0.00006 | ppm | 23.52% |
| a 330.237 | 275.6 | 0.3983 | 0.13650 | mg/L | 0.3983 | 0.13650 | ppm | 34.27% |
| i 231.604 | 227.8 | 0.0046 | 0.00031 | mg/L | 0.0046 | 0.00031 | ppm | 6.88% |
| b 220.353 | 21.9 | 0.0014 | 0.00083 | mg/L | 0.0014 | 0.00083 | ppm | 60.65% |
| b 206.833 | -1.3 | -0.0003 | 0.00186 | mg/L | -0.0003 | 0.00186 | ppm | 587.89% |
| e 196.026 | 7.2 | 0.0023 | 0.00297 | mg/L | 0.0023 | 0.00297 | ppm | 128.79% |
| l 190.800 | -1.8 | -0.0005 | 0.00071 | mg/L | -0.0005 | 0.00071 | ppm | 147.39% |
| 292.402 | 3.1 | 0.0000 | 0.00029 | mg/L | 0.0000 | 0.00029 | ppm | >999.9% |
| n 213.856 | 437.0 | 0.0041 | 0.00008 | mg/L | 0.0041 | 0.00008 | ppm | 1.98% |

eplicate Data ----------

D: 2809-3 F=1 Date: 4/23/03 12:45:59 PM

| epl# Element | Net Intensity | Corrected Intensity | Calib Conc. | Calib Units | Sample Conc. | Sample Units |
|---|---|---|---|---|---|---|
| 1 Ag 328.068 | 158.6 | 229.9 | 0.0011 | mg/L | 0.0011 | ppm |
| 1 Al 308.215 | 4351.8 | 304.6 | 0.0094 | mg/L | 0.0094 | ppm |
| 1 As 188.979 | 129.9 | 1.7 | 0.0023 | mg/L | 0.0023 | ppm |
| 1 Ba 233.527 | 23006.1 | 23056.9 | 0.0544 | mg/L | 0.0544 | ppm |
| 1 Be 313.107 | -546.8 | -328.5 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 Ca 227.547 | 13806.9 | 13195.6 | 53.74 | mg/L | 53.74 | ppm |
| 1 Cd 228.802 | 234.7 | -3.6 | 0.0000 | mg/L | 0.0000 | ppm |
| 1 Co 228.616 | -309.5 | -5.8 | -0.0001 | mg/L | -0.0001 | ppm |
| 1 Cr 267.716 | -179.2 | 121.8 | 0.0013 | mg/L | 0.0013 | ppm |
| 1 Cu 324.754 | 4111.0 | 970.6 | 0.0032 | mg/L | 0.0032 | ppm |
| 1 Fe 273.955 | 12842.9 | 12195.2 | 0.2714 | mg/L | 0.2714 | ppm |
| 1 K 766.491 | 51231.6 | 53854.0 | 2.448 | mg/L | 2.448 | ppm |
| 1 Mg 279.079 | 739830.6 | 734543.6 | 17.45 | mg/L | 17.45 | ppm |
| 1 Mn 257.610 | 2167.3 | 1357.8 | 0.0010 | mg/L | 0.0010 | ppm |
| 1 Mo 202.030 | 2.9 | 60.6 | 0.0033 | mg/L | 0.0033 | ppm |
| 1 Na 330.237 | 19634.1 | 12915.6 | 18.92 | mg/L | 18.92 | ppm |
| 1 Ni 231.604 | -35.0 | 45.4 | 0.0009 | mg/L | 0.0009 | ppm |
| 1 Pb 220.353 | -152.5 | 22.6 | 0.0014 | mg/L | 0.0014 | ppm |
| 1 Sb 206.833 | -6.4 | 4.8 | 0.0012 | mg/L | 0.0012 | ppm |
| 1 Se 196.026 | 56.3 | 4.5 | 0.0014 | mg/L | 0.0014 | ppm |
| 1 Tl 190.800 | 213.7 | 7.8 | 0.0021 | mg/L | 0.0021 | ppm |
| 1 V 292.402 | 306.8 | 165.9 | 0.0013 | mg/L | 0.0013 | ppm |
| 1 Zn 213.856 | -169.6 | 439.9 | 0.0041 | mg/L | 0.0041 | ppm |
| 2 Ag 328.068 | 39.6 | 110.8 | 0.0005 | mg/L | 0.0005 | ppm |