

Level C Data Package Deliverables

# Metals



Applied P & Ch Laboratory





Applied P & Ch Laboratory  
**Metal Analysis Results**

Client Name: GEOFON, Inc.  
 Project ID: JPL GW Mon-2Q03  
 Sample ID: **EB-13-5/13/03**  
 Sample Type: Field Sample

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-2  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

| 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | < 200  | U | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 31.5   | B | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 85.8   | B | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 172    | B | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 1000   | B | P |   | 03M1479M | 05/19/03 | 05/19/03 | 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 ID: JPL GW Mon-2Q03

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-3  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

Sample ID: MW-18-1  
 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | 48100  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 138    |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 15500  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 2340   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 15600  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 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 ID: JPL GW Mon-2Q03

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-4  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

Sample ID: MW-18-2  
 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | 53200  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 176    |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 17500  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 2460   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 19400  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 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 ID: JPL GW Mon-2Q03

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-5  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

Sample ID: MW-18-3  
 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | 71600  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 58.0   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 20400  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 3050   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 23600  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |

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

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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 ID: JPL GW Mon-2Q03  
 Sample ID: **MW-18-4**  
 Sample Type: Field Sample

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-6  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

| 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | 41600  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 169    |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 13800  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 1960   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 28800  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |

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

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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 ID: JPL GW Mon-2Q03

Project No: 04-4428.10  
 Service ID: 33205  
 Lab Sample ID: 03-3205-7  
 Sample Matrix: Water

Collection Date: 05/13/2003  
 Collected by:  
 Received Date: 05/13/2003  
 Moisture %: -

Sample ID: **MW-18-5**  
 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 |   | 03M1481E | 05/19/03 | 05/19/03 | 1  | 200.9  |
| CALCIUM      | 7440-70-2 | µg/L | 200  | 8960   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| IRON         | 7439-89-6 | µg/L | 50   | 206    |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| MAGNESIUM    | 7439-95-4 | µg/L | 100  | 4660   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| POTASSIUM    | 7440-09-7 | µg/L | 400  | 1830   |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 1  | 200.7  |
| SODIUM       | 7440-23-5 | µg/L | 2000 | 52800  |   | P |   | 03M1479M | 05/19/03 | 05/19/03 | 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 GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1481E |
| Batch No.(s): 03M1481         | Instrument: GFAA-E     | Method: 200.9          |

Analysis Date: 05/19/03

Concentration Units: UG/L

| # | Analyte | ICV 11:42 |        |      | CCV 12:59 |        |       | CCV 13:43 |        |      | True | Result | %R |
|---|---------|-----------|--------|------|-----------|--------|-------|-----------|--------|------|------|--------|----|
|   |         | True      | Result | %R   | True      | Result | %R    | True      | Result | %R   |      |        |    |
| 1 | Arsenic | 50.0      | 49.90  | 99.8 | 50.0      | 51.80  | 103.6 | 50.0      | 45.90  | 91.8 |      |        |    |

(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 GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1479M |
| Batch No.(s): 03M1479         | Instrument: ICP -M     | Method: 200.9          |

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | ICV 10:47 |           |       | CCV 11:03 |           |       | CCV 11:20 |           |       | CCV 12:03 |          |       |
|----|------------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|----------|-------|
|    |            | True      | Result    | %R    | True      | Result    | %R    | True      | Result    | %R    | True      | Result   | %R    |
| 1  | Aluminum   | 10000.0   | 9942.63   | 99.4  | 5000.0    | 5186.30   | 103.7 | 5000.0    | 5183.33   | 103.7 | 5000.0    | 5137.05  | 102.7 |
| 2  | Antimony   | 4000.0    | 3865.24   | 96.6  | 2000.0    | 1984.22   | 99.2  | 2000.0    | 1970.94   | 98.5  | 2000.0    | 1986.03  | 99.3  |
| 3  | Arsenic    | 1000.0    | 968.45    | 96.8  | 500.0     | 492.46    | 98.5  | 500.0     | 483.44    | 96.7  | 500.0     | 479.30   | 95.9  |
| 4  | Barium     | 10000.0   | 10121.48  | 101.2 | 5000.0    | 5190.82   | 103.8 | 5000.0    | 5164.94   | 103.3 | 5000.0    | 5145.31  | 102.9 |
| 5  | Beryllium  | 1000.0    | 1006.01   | 100.6 | 500.0     | 503.37    | 100.7 | 500.0     | 496.21    | 99.2  | 500.0     | 499.51   | 99.9  |
| 6  | Cadmium    | 2000.0    | 1964.79   | 98.2  | 1000.0    | 1011.86   | 101.2 | 1000.0    | 998.52    | 99.9  | 1000.0    | 1011.10  | 101.1 |
| 7  | Calcium    | 100000.0  | 99466.23  | 99.5  | 50000.0   | 51783.51  | 103.6 | 50000.0   | 51092.38  | 102.2 | 50000.0   | 50771.66 | 101.5 |
| 8  | Chromium   | 1000.0    | 993.70    | 99.4  | 500.0     | 514.89    | 103.0 | 500.0     | 513.12    | 102.6 | 500.0     | 508.89   | 101.8 |
| 9  | Cobalt     | 4000.0    | 3926.42   | 98.2  | 2000.0    | 2052.61   | 102.6 | 2000.0    | 2029.85   | 101.5 | 2000.0    | 2048.30  | 102.4 |
| 10 | Copper     | 4000.0    | 4023.37   | 100.6 | 2000.0    | 2023.49   | 101.2 | 2000.0    | 2006.89   | 100.3 | 2000.0    | 2004.97  | 100.2 |
| 11 | Iron       | 10000.0   | 9979.55   | 99.8  | 5000.0    | 5224.25   | 104.5 | 5000.0    | 5170.26   | 103.4 | 5000.0    | 5115.08  | 102.3 |
| 12 | Lead       | 1000.0    | 979.95    | 98.0  | 500.0     | 514.71    | 102.9 | 500.0     | 515.79    | 103.2 | 500.0     | 514.50   | 102.9 |
| 13 | Magnesium  | 50000.0   | 50297.12  | 100.6 | 25000.0   | 25824.79  | 103.3 | 25000.0   | 25565.84  | 102.3 | 25000.0   | 25621.85 | 102.5 |
| 14 | Manganese  | 4000.0    | 3930.59   | 98.3  | 2000.0    | 2089.43   | 104.5 | 2000.0    | 2060.93   | 103.0 | 2000.0    | 2064.55  | 103.2 |
| 15 | Nickel     | 4000.0    | 3906.29   | 97.7  | 2000.0    | 2052.34   | 102.6 | 2000.0    | 2025.77   | 101.3 | 2000.0    | 2041.31  | 102.1 |
| 16 | Potassium  | 30000.0   | 30076.74  | 100.3 | 15000.0   | 15687.15  | 104.6 | 15000.0   | 15649.81  | 104.3 | 15000.0   | 15661.93 | 104.4 |
| 17 | Selenium   | 1000.0    | 982.27    | 98.2  | 500.0     | 514.08    | 102.8 | 500.0     | 513.02    | 102.6 | 500.0     | 513.23   | 102.6 |
| 18 | Silver     | 2000.0    | 1992.19   | 99.6  | 1000.0    | 1011.35   | 101.1 | 1000.0    | 1002.83   | 100.3 | 1000.0    | 997.43   | 99.7  |
| 19 | Sodium     | 200000.0  | 203256.44 | 101.6 | 100000.0  | 100032.27 | 100.0 | 100000.0  | 100383.64 | 100.4 | 100000.0  | 99331.55 | 99.3  |
| 20 | Thallium   | 1000.0    | 958.79    | 95.9  | 500.0     | 499.99    | 100.0 | 500.0     | 486.32    | 97.3  | 500.0     | 486.20   | 97.2  |
| 21 | Vanadium   | 4000.0    | 4057.15   | 101.4 | 2000.0    | 2054.64   | 102.7 | 2000.0    | 2048.07   | 102.4 | 2000.0    | 2026.26  | 101.3 |
| 22 | Zinc       | 4000.0    | 3940.91   | 98.5  | 2000.0    | 2029.85   | 101.5 | 2000.0    | 2006.08   | 100.3 | 2000.0    | 2007.80  | 100.4 |
| 23 | Molybdenum | 4000.0    | 3960.32   | 99.0  | 2000.0    | 2036.03   | 101.8 | 2000.0    | 2022.03   | 101.1 | 2000.0    | 2012.12  | 100.6 |

- (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 GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1479M |
| Batch No.(s): 03M1479         | Instrument: ICP -M     | Method: 200.9          |

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | CCV 12:45 |           |       | CCV 13:23 |          |       | CCV 14:24 |          |       | CCV 14:33 |          |       |
|----|------------|-----------|-----------|-------|-----------|----------|-------|-----------|----------|-------|-----------|----------|-------|
|    |            | True      | Result    | %R    | True      | Result   | %R    | True      | Result   | %R    | True      | Result   | %R    |
| 1  | Aluminum   | 5000.0    | 5291.99   | 105.8 | 5000.0    | 5024.51  | 100.5 | 5000.0    | 5178.42  | 103.6 | 5000.0    | 5178.71  | 103.6 |
| 2  | Antimony   | 2000.0    | 1999.24   | 100.0 | 2000.0    | 2097.84  | 104.9 | 2000.0    | 2027.46  | 101.4 | 2000.0    | 2015.53  | 100.8 |
| 3  | Arsenic    | 500.0     | 474.69    | 94.9  | 500.0     | 475.72   | 95.1  | 500.0     | 512.10   | 102.4 | 500.0     | 498.02   | 99.6  |
| 4  | Barium     | 5000.0    | 5270.22   | 105.4 | 5000.0    | 5085.19  | 101.7 | 5000.0    | 5260.42  | 105.2 | 5000.0    | 5226.44  | 104.5 |
| 5  | Beryllium  | 500.0     | 513.49    | 102.7 | 500.0     | 535.34   | 107.1 | 500.0     | 511.61   | 102.3 | 500.0     | 500.50   | 100.1 |
| 6  | Cadmium    | 1000.0    | 1042.62   | 104.3 | 1000.0    | 1090.53  | 109.1 | 1000.0    | 1017.83  | 101.8 | 1000.0    | 999.35   | 99.9  |
| 7  | Calcium    | 50000.0   | 51780.12  | 103.6 | 50000.0   | 48390.33 | 96.8  | 50000.0   | 50641.54 | 101.3 | 50000.0   | 50368.44 | 100.7 |
| 8  | Chromium   | 500.0     | 516.68    | 103.3 | 500.0     | 477.68   | 95.5  | 500.0     | 513.74   | 102.7 | 500.0     | 512.57   | 102.5 |
| 9  | Cobalt     | 2000.0    | 2105.72   | 105.3 | 2000.0    | 2175.60  | 108.8 | 2000.0    | 2050.50  | 102.5 | 2000.0    | 2018.17  | 100.9 |
| 10 | Copper     | 2000.0    | 2052.41   | 102.6 | 2000.0    | 2053.48  | 102.7 | 2000.0    | 2068.78  | 103.4 | 2000.0    | 2039.05  | 102.0 |
| 11 | Iron       | 5000.0    | 5217.67   | 104.4 | 5000.0    | 4853.22  | 97.1  | 5000.0    | 5154.39  | 103.1 | 5000.0    | 5163.20  | 103.3 |
| 12 | Lead       | 500.0     | 515.22    | 103.0 | 500.0     | 515.16   | 103.0 | 500.0     | 513.71   | 102.7 | 500.0     | 513.15   | 102.6 |
| 13 | Magnesium  | 25000.0   | 26395.05  | 105.6 | 25000.0   | 26021.38 | 104.1 | 25000.0   | 26027.66 | 104.1 | 25000.0   | 25788.71 | 103.2 |
| 14 | Manganese  | 2000.0    | 2089.66   | 104.5 | 2000.0    | 2105.94  | 105.3 | 2000.0    | 2046.25  | 102.3 | 2000.0    | 2056.98  | 102.8 |
| 15 | Nickel     | 2000.0    | 2100.81   | 105.0 | 2000.0    | 2183.16  | 109.2 | 2000.0    | 2048.09  | 102.4 | 2000.0    | 2004.78  | 100.2 |
| 16 | Potassium  | 15000.0   | 15041.49  | 100.3 | 15000.0   | 14256.23 | 95.0  | 15000.0   | 15211.34 | 101.4 | 15000.0   | 15626.62 | 104.2 |
| 17 | Selenium   | 500.0     | 514.40    | 102.9 | 500.0     | 505.01   | 101.0 | 500.0     | 521.06   | 104.2 | 500.0     | 524.81   | 105.0 |
| 18 | Silver     | 1000.0    | 1017.12   | 101.7 | 1000.0    | 959.20   | 95.9  | 1000.0    | 1012.70  | 101.3 | 1000.0    | 1005.46  | 100.5 |
| 19 | Sodium     | 100000.0  | 102003.28 | 102.0 | 100000.0  | 92745.48 | 92.7  | 100000.0  | 99983.66 | 100.0 | 100000.0  | 99935.09 | 99.9  |
| 20 | Thallium   | 500.0     | 493.14    | 98.6  | 500.0     | 482.94   | 96.6  | 500.0     | 505.82   | 101.2 | 500.0     | 515.24   | 103.0 |
| 21 | Vanadium   | 2000.0    | 2058.60   | 102.9 | 2000.0    | 1871.05  | 93.6  | 2000.0    | 2052.06  | 102.6 | 2000.0    | 2046.02  | 102.3 |
| 22 | Zinc       | 2000.0    | 2064.97   | 103.2 | 2000.0    | 2090.83  | 104.5 | 2000.0    | 2035.71  | 101.8 | 2000.0    | 2008.46  | 100.4 |
| 23 | Molybdenum | 2000.0    | 2066.27   | 103.3 | 2000.0    | 2038.88  | 101.9 | 2000.0    | 2046.12  | 102.3 | 2000.0    | 2022.81  | 101.1 |

- (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 Name: JPL GW Mon-2Q03  
Batch No.(s): 03M1479

Project No: 04-4428.10      Lab Code: APCL  
Service ID: 033205          Sequence No.: 03M1479M  
Instrument: ICP -M          Method: 200.9

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | CCV 15:25 |           |       |      |        |    |      |        |    |      |        |    |
|----|------------|-----------|-----------|-------|------|--------|----|------|--------|----|------|--------|----|
|    |            | True      | Result    | %R    | True | Result | %R | True | Result | %R | True | Result | %R |
| 1  | Aluminum   | 5000.0    | 5326.60   | 106.5 |      |        |    |      |        |    |      |        |    |
| 2  | Antimony   | 2000.0    | 1927.89   | 96.4  |      |        |    |      |        |    |      |        |    |
| 3  | Arsenic    | 500.0     | 454.73    | 90.9  |      |        |    |      |        |    |      |        |    |
| 4  | Barium     | 5000.0    | 5304.25   | 106.1 |      |        |    |      |        |    |      |        |    |
| 5  | Beryllium  | 500.0     | 487.08    | 97.4  |      |        |    |      |        |    |      |        |    |
| 6  | Cadmium    | 1000.0    | 966.26    | 96.6  |      |        |    |      |        |    |      |        |    |
| 7  | Calcium    | 50000.0   | 51259.17  | 102.5 |      |        |    |      |        |    |      |        |    |
| 8  | Chromium   | 500.0     | 518.08    | 103.6 |      |        |    |      |        |    |      |        |    |
| 9  | Cobalt     | 2000.0    | 1968.15   | 98.4  |      |        |    |      |        |    |      |        |    |
| 10 | Copper     | 2000.0    | 2005.97   | 100.3 |      |        |    |      |        |    |      |        |    |
| 11 | Iron       | 5000.0    | 5404.95   | 108.1 |      |        |    |      |        |    |      |        |    |
| 12 | Lead       | 500.0     | 494.04    | 98.8  |      |        |    |      |        |    |      |        |    |
| 13 | Magnesium  | 25000.0   | 25567.90  | 102.3 |      |        |    |      |        |    |      |        |    |
| 14 | Manganese  | 2000.0    | 2003.58   | 100.2 |      |        |    |      |        |    |      |        |    |
| 15 | Nickel     | 2000.0    | 1927.31   | 96.4  |      |        |    |      |        |    |      |        |    |
| 16 | Potassium  | 15000.0   | 16488.47  | 109.9 |      |        |    |      |        |    |      |        |    |
| 17 | Selenium   | 500.0     | 515.14    | 103.0 |      |        |    |      |        |    |      |        |    |
| 18 | Silver     | 1000.0    | 1010.77   | 101.1 |      |        |    |      |        |    |      |        |    |
| 19 | Sodium     | 100000.0  | 104099.81 | 104.1 |      |        |    |      |        |    |      |        |    |
| 20 | Thallium   | 500.0     | 486.18    | 97.2  |      |        |    |      |        |    |      |        |    |
| 21 | Vanadium   | 2000.0    | 2076.81   | 103.8 |      |        |    |      |        |    |      |        |    |
| 22 | Zinc       | 2000.0    | 1986.03   | 99.3  |      |        |    |      |        |    |      |        |    |
| 23 | Molybdenum | 2000.0    | 2014.74   | 100.7 |      |        |    |      |        |    |      |        |    |

(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 GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1479M |
| Batch No.(s): 03M1479         | Instrument: ICP -M     | Method: 200.9          |

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | True   | 10:54<br>Found | R%    | Time<br>Found | R% |
|----|------------|--------|----------------|-------|---------------|----|
| 1  | Aluminum   | 200.0  | 208.50         | 104.3 |               |    |
| 2  | Antimony   | 20.0   | 24.55          | 122.7 |               |    |
| 3  | Arsenic    | 20.0   | 21.36          | 106.8 |               |    |
| 4  | Barium     | 10.0   | 11.82          | 118.2 |               |    |
| 5  | Beryllium  | 4.0    | 4.87           | 121.6 |               |    |
| 6  | Cadmium    | 5.0    | 4.80           | 96.0  |               |    |
| 7  | Calcium    | 1000.0 | 1290.84        | 129.1 |               |    |
| 8  | Chromium   | 10.0   | 10.94          | 109.4 |               |    |
| 9  | Cobalt     | 20.0   | 23.87          | 119.3 |               |    |
| 10 | Copper     | 10.0   | 5.42           | 54.2  |               |    |
| 11 | Iron       | 50.0   | 53.95          | 107.9 |               |    |
| 12 | Lead       | 10.0   | 9.95           | 99.5  |               |    |
| 13 | Magnesium  |        | -26.28         |       |               |    |
| 14 | Manganese  | 10.0   | 11.55          | 115.5 |               |    |
| 15 | Nickel     | 20.0   | 23.99          | 120.0 |               |    |
| 16 | Potassium  |        | 95.60          |       |               |    |
| 17 | Selenium   | 10.0   | 8.65           | 86.5  |               |    |
| 18 | Silver     | 10.0   | 11.20          | 112.0 |               |    |
| 19 | Sodium     |        | 87.83          |       |               |    |
| 20 | Thallium   | 10.0   | 6.20           | 62.0  |               |    |
| 21 | Vanadium   | 10.0   | 10.67          | 106.7 |               |    |
| 22 | Zinc       | 20.0   | 19.83          | 99.1  |               |    |
| 23 | Molybdenum | 15.0   | 16.36          | 109.0 |               |    |

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 GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1481E |
| Batch No.(s): 03M1481         | Instrument: GFAA-E     | Method: 200.9          |

Analysis Date: 05/19/03

Concentration Units: **UG/L**

| # | Analyte | ICB 11:48 |   | CCB 13:05 |   | CCB 13:49 |   | CCB Time |   | CCB Time |   |
|---|---------|-----------|---|-----------|---|-----------|---|----------|---|----------|---|
|   |         | Result    | C | Result    | C | Result    | C | Result   | C | Result   | C |
| 1 | Arsenic | 1.80      | U | 1.80      | U | 1.80      | U |          |   |          |   |

FORM-3 Metal  
Applied P & Ch Laboratory  
Metal ICB/CCB Summary

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
Instrument: ICP -M

Lab Code: APCL  
Sequence No.: 03M1479M  
Method: 200.9

Batch No.(s): 03M1479

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | ICB    | 10:51 | CCB    | 11:08 | CCB    | 11:23 | CCB    | 12:06 | CCB    | 12:48 |
|----|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|    |            | Result | C     | Result | C     | Result | C     | Result | C     | Result | C     |
| 1  | Aluminum   | 6.90   | U     | 6.90   | U     | 6.90   | U     | 6.90   | U     | 6.90   | U     |
| 2  | Antimony   | 2.40   | U     | 2.40   | U     | 2.40   | U     | 3.16   | B     | 3.85   | B     |
| 3  | Arsenic    | 1.80   | U     | 3.38   | B     | 1.80   | U     | 1.80   | U     | 1.80   | U     |
| 4  | Barium     | 1.57   | B     | 0.89   | U     | 0.89   | U     | 0.89   | U     | 0.89   | U     |
| 5  | Beryllium  | 0.89   | B     | 0.40   | B     | 0.26   | B     | 0.31   | B     | 0.21   | B     |
| 6  | Cadmium    | 0.16   | U     | 0.16   | U     | 0.16   | U     | -0.38  | B     | -0.35  | B     |
| 7  | Calcium    | 193.40 | B     | 198.81 | B     | 121.00 | U     | 121.00 | U     | 121.00 | U     |
| 8  | Chromium   | 0.26   | U     | -0.28  | B     | 0.26   | U     | 0.33   | B     | 0.45   | B     |
| 9  | Cobalt     | 1.27   | B     | 0.46   | U     | 0.55   | B     | 0.46   | U     | 0.46   | U     |
| 10 | Copper     | 1.90   | U     | -1.98  | B     | 1.90   | U     | 1.90   | U     | 1.90   | U     |
| 11 | Iron       | 7.70   | U     | 7.70   | U     | 7.70   | U     | 7.70   | U     | 7.70   | U     |
| 12 | Lead       | 0.90   | U     | -1.03  | B     | 0.90   | U     | 0.90   | U     | 0.90   | U     |
| 13 | Magnesium  | -23.89 | B     | 64.79  | B     | 19.00  | U     | -20.51 | B     | 19.00  | U     |
| 14 | Manganese  | 1.50   | B     | 0.63   | U     | 0.96   | B     | 0.67   | B     | 0.79   | B     |
| 15 | Nickel     | 1.58   | B     | 0.62   | B     | 0.44   | U     | 0.44   | U     | 0.44   | U     |
| 16 | Potassium  | 82.49  | B     | 84.79  | B     | 71.39  | B     | 100.60 | B     | 80.71  | B     |
| 17 | Selenium   | -3.49  | B     | 1.82   | B     | 1.80   | U     | 1.80   | U     | 1.94   | B     |
| 18 | Silver     | 0.43   | U     | 0.43   | U     | 0.43   | U     | 0.43   | U     | 0.43   | U     |
| 19 | Sodium     | 253.30 | B     | 189.00 | U     | 189.00 | U     | 189.00 | U     | 211.17 | B     |
| 20 | Thallium   | -3.16  | B     | -2.80  | B     | 1.80   | U     | 2.17   | B     | 3.57   | B     |
| 21 | Vanadium   | 1.04   | B     | 0.53   | U     | -0.64  | B     | 0.53   | U     | 0.53   | U     |
| 22 | Zinc       | 1.30   | U     | 1.30   | U     | 1.30   | U     | 1.30   | U     | 1.30   | U     |
| 23 | Molybdenum | 3.57   | B     | 0.95   | B     | 0.98   | B     | 0.86   | B     | 0.48   | U     |



FORM-3 Metal  
Applied P & Ch Laboratory  
Metal ICB/CCB Summary

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
Instrument: ICP -M

Lab Code: APCL  
Sequence No.: 03M1479M  
Method: 200.9

Batch No.(s): 03M1479

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | CCB<br>Result | 13:27<br>C | CCB<br>Result | 14:28<br>C | CCB<br>Result | 14:36<br>C | CCB<br>Result | 15:28<br>C | CCB<br>Result | Time<br>C |
|----|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|-----------|
| 1  | Aluminum   | 26.21         | B          | 6.90          | U          | 6.90          | U          | 6.90          | U          |               |           |
| 2  | Antimony   | 4.45          | B          | 2.40          | U          | 2.40          | U          | 2.40          | U          |               |           |
| 3  | Arsenic    | 2.38          | B          | 3.17          | B          | 1.80          | U          | 1.80          | U          |               |           |
| 4  | Barium     | 0.89          | U          | 1.43          | B          | 0.89          | U          | 0.89          | U          |               |           |
| 5  | Beryllium  | 0.22          | B          | 0.62          | B          | 0.25          | B          | 0.19          | U          |               |           |
| 6  | Cadmium    | -0.34         | B          | 0.31          | B          | 0.16          | U          | 0.46          | B          |               |           |
| 7  | Calcium    | 121.00        | U          | -323.19       |            | 121.00        | U          | -523.88       |            |               |           |
| 8  | Chromium   | 0.73          | B          | 0.26          | U          | -0.93         | B          | 0.26          | U          |               |           |
| 9  | Cobalt     | 0.46          | U          | 0.78          | B          | 0.46          | B          | 0.86          | B          |               |           |
| 10 | Copper     | -3.17         | B          | 1.90          | U          | 1.90          | U          | 1.90          | U          |               |           |
| 11 | Iron       | 7.70          | U          | 7.70          | U          | 7.70          | U          | 13.43         | B          |               |           |
| 12 | Lead       | 1.69          | B          | -1.05         | B          | 0.90          | U          | -2.92         | B          |               |           |
| 13 | Magnesium  | 31.02         | B          | -58.36        | B          | 19.00         | U          | 73.33         | B          |               |           |
| 14 | Manganese  | 0.67          | B          | 1.13          | B          | 0.63          | U          | 0.63          | U          |               |           |
| 15 | Nickel     | 0.44          | U          | 0.55          | B          | 0.44          | U          | 0.44          | U          |               |           |
| 16 | Potassium  | 95.67         | B          | 129.26        | B          | 130.28        | B          | 134.69        | B          |               |           |
| 17 | Selenium   | 6.39          | B          | -2.73         | B          | 1.80          | U          | -9.06         | B          |               |           |
| 18 | Silver     | 0.43          | U          | 2.15          | B          | 0.72          | B          | 1.31          | B          |               |           |
| 19 | Sodium     | 739.40        | B          | 731.19        | B          | 189.27        | B          | 553.68        | B          |               |           |
| 20 | Thallium   | 1.80          | U          | -10.32        |            | -2.15         | B          | -6.08         | B          |               |           |
| 21 | Vanadium   | 0.53          | U          | 0.53          | U          | -1.70         | B          | 0.53          | U          |               |           |
| 22 | Zinc       | 1.30          | U          | 1.30          | U          | 1.30          | U          | 1.30          | U          |               |           |
| 23 | Molybdenum | 0.48          | U          | 2.03          | B          | 0.78          | B          | 2.08          | B          |               |           |

FORM-4 Metal  
Applied P & Ch Laboratory  
**ICP Interference Check Sample**

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
ICP ID Number: ICP -M

Lab Code: APCL  
Sequence No.: 03M1479M

Batch No.(s): 03M1479

Analysis Date: 05/19/03

Concentration Units: UG/L

| #  | Analyte    | Expected |         | Initial<br>10:57 |          |       | Final<br>15:13 |          |       |
|----|------------|----------|---------|------------------|----------|-------|----------------|----------|-------|
|    |            | Sol. A   | Sol. AB | Sol. A           | Sol. AB  | %R    | Sol. A         | Sol. AB  | %R    |
| 1  | Aluminum   | 500000   | 500000  | 479307           | 465835.4 | 93.2  | 497329         | 477029.7 | 95.4  |
| 2  | Antimony   | 0        | 1000    | 12               | 903.8    | 90.4  | -5             | 909.8    | 91.0  |
| 3  | Arsenic    | 0        | 1000    | -9               | 879.6    | 88.0  | 10             | 859.9    | 86.0  |
| 4  | Barium     | 0        | 500     | 5                | 510.4    | 102.1 | 4              | 535.4    | 107.1 |
| 5  | Beryllium  | 0        | 500     | 0                | 476.7    | 95.3  | 0              | 478.6    | 95.7  |
| 6  | Cadmium    | 0        | 1000    | -1               | 915.1    | 91.5  | 0              | 906.3    | 90.6  |
| 7  | Calcium    | 500000   | 500000  | 507231           | 473687.0 | 94.7  | 514345         | 488928.9 | 97.8  |
| 8  | Chromium   | 0        | 500     | 9                | 487.6    | 97.5  | 5              | 506.1    | 101.2 |
| 9  | Cobalt     | 0        | 500     | 1                | 456.0    | 91.2  | 4              | 454.2    | 90.8  |
| 10 | Copper     | 0        | 500     | 2                | 465.4    | 93.1  | 8              | 482.3    | 96.5  |
| 11 | Iron       | 200000   | 200000  | 188868           | 178980.3 | 89.5  | 201161         | 188314.7 | 94.2  |
| 12 | Lead       | 0        | 1000    | 2                | 904.4    | 90.4  | -16            | 895.5    | 89.6  |
| 13 | Magnesium  | 500000   | 500000  | 485564           | 464614.2 | 92.9  | 492704         | 463808.6 | 92.8  |
| 14 | Manganese  | 0        | 500     | 0                | 464.3    | 92.9  | 0              | 472.7    | 94.5  |
| 15 | Nickel     | 0        | 1000    | 3                | 874.1    | 87.4  | 0              | 853.7    | 85.4  |
| 16 | Potassium  | 0        | 0       | 162              | 169.8    |       | 248            | 237.9    |       |
| 17 | Selenium   | 0        | 1000    | -15              | 896.6    | 89.7  | 79             | 1038.8   | 103.9 |
| 18 | Silver     | 0        | 1000    | -4               | 963.2    | 96.3  | -8             | 991.6    | 99.2  |
| 19 | Sodium     | 0        | 0       | -7               | 55.0     |       | 1445           | 1608.3   |       |
| 20 | Thallium   | 0        | 1000    | -9               | 832.3    | 83.2  | -6             | 872.3    | 87.2  |
| 21 | Vanadium   | 0        | 500     | 0                | 471.0    | 94.2  | 6              | 497.7    | 99.5  |
| 22 | Zinc       | 0        | 1000    | 10               | 929.0    | 92.9  | 21             | 942.3    | 94.2  |
| 23 | Molybdenum | 0        | 1000    | -2               | 890.8    | 89.1  | -13            | 902.3    | 90.2  |

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 200.9

|                             |                          |                      |
|-----------------------------|--------------------------|----------------------|
| Client Name: GEOFON, Inc.   | Contract No:             | Lab Code: APCL       |
| Case No:                    | SAS No:                  | Service ID: 33205    |
| Project ID: JPL GW Mon-2Q03 | Project No: 04-4428.10   | Sample Matrix: Water |
|                             | Batch No: 03M1481E       |                      |
| MS Filename: -              | Date Analyzed: 051903    | Time Analyzed: 12:33 |
| MSD Filename: -             | Date Analyzed: 051903    | Time Analyzed: 12:39 |
| MS Sample No: DUPE-7-2Q03   | Sample Lab ID: 03-3205-1 |                      |

| Spiked Components   | Unit | Spike Added | Concentration |      | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
|                     |      |             | Unspiked      | MS   |           |                 |
| ARSENIC             | µg/L | 50          | 0             | 40.4 | 81        | 75-125          |
| # of Out-of-control |      |             |               |      | 0         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % RPD REC |      |
|---------------------|------|-------------|-------------------|------------|--------|---------------------|------|
|                     |      |             |                   |            |        | ARSENIC             | µg/L |
| # of Out-of-control |      |             |                   | 0          | 1      |                     |      |

# 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 &amp; 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: 33205    |
| Project ID: JPL GW Mon-2Q03 | Project No: 04-4428.10   | Sample Matrix: Water |
|                             | Batch No: 03M1479M       |                      |
| MS Filename: -              | Date Analyzed: 051903    | Time Analyzed: 11:48 |
| MSD Filename: -             | Date Analyzed: 051903    | Time Analyzed: 11:52 |
| MS Sample No: 01GP-03-1-GW  | Sample Lab ID: 03-3261-1 |                      |

| Spiked Components   | Unit | Spike Added | Concentration |         | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|---------|-----------|-----------------|
|                     |      |             | Unspiked      | MS      |           |                 |
| CALCIUM             | µg/L | 20000       | 43900         | 64400   | 103       | 75-125          |
| IRON                | µg/L | 1000        | 59.3          | 995     | 94        | 75-125          |
| MAGNESIUM           | µg/L | 10000       | 54000         | 63100   | 91        | 75-125          |
| POTASSIUM           | µg/L | 5000        | 24400         | 31300   | 138 *     | 75-125          |
| SODIUM              | µg/L | 40000       | 1200000       | 1390000 | 475 *     | 75-125          |
| # of Out-of-control |      |             |               |         | 2         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
|                     |      |             |                   |            |        | RPD         | REC    |
| CALCIUM             | µg/L | 20000       | 62200             | 92         | 11     | 20          | 75-125 |
| IRON                | µg/L | 1000        | 967               | 91         | 3      | 20          | 75-125 |
| MAGNESIUM           | µg/L | 10000       | 62800             | 88         | 3      | 20          | 75-125 |
| POTASSIUM           | µg/L | 5000        | 31400             | 140 *      | 1      | 20          | 75-125 |
| SODIUM              | µg/L | 40000       | 1370000           | 425 *      | 11     | 20          | 75-125 |
| # of Out-of-control |      |             |                   |            | 2      | 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-6 Metal  
Applied P & Ch Laboratory  
**Duplicates Verification**

|                               |                        |                         |
|-------------------------------|------------------------|-------------------------|
| Client Name: GEOFON, Inc.     | Project No: 04-4428.10 | Lab Code: APCL          |
| Project Name: JPL GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1481E  |
|                               | Batch No.: 03M1481     | Method: 200.9           |
| Spike Sample No. 03-3205-01   | Matrix: WATER          | Instrument: GFAA-E      |
| Client Sample No. DUPE-7-2Q03 | % Solid: 0.00          | Analysis Date: 05/19/03 |

Concentration Unit: UG/L

| # | Analyte | 12:13     |   | 12:20     |   | RPD(%) | Q |
|---|---------|-----------|---|-----------|---|--------|---|
|   |         | Sample(s) | C | Duplicate | C |        |   |
| 1 | Arsenic | 0.2000    | U | 0.6000    | U |        |   |

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 GW Mon-2Q03 | Service ID:    | 033205     | Sequence No.: | 03M1481E |
| Spike Sample No. : | 03-3205-01      | Batch No.:     | 03M1481    | Method:       | 200.9    |
| Client Sample No.: | DUPE-7-2Q03     | Matrix:        | WATER      | Instrument:   | GFAA-E   |
|                    |                 | Analysis Date: | 05/19/03   |               |          |

Concentration Units: **UG/L**

| # | Analyte | Spiked Sample<br>Result(SSR) | 12:46<br>C | Sample<br>Result(SR) | 12:13<br>C | Spike<br>Added(SA) | % Rec. | Control Limit | Q |
|---|---------|------------------------------|------------|----------------------|------------|--------------------|--------|---------------|---|
| 1 | Arsenic | 50.3000                      |            | 0.2000               | U          | 50.00              | 100.6  | 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 GW Mon-2Q03   | Service ID: 033205      | Sequence No.: 03M1479M |
|                                 | Batch No.: 03M1479      | Method: 200.9          |
| Spike Sample No. : 03-3261-01   | Matrix: WATER           | Instrument: ICP -M     |
| Client Sample No.: 01GP-03-1-GW | Analysis Date: 05/19/03 |                        |

Concentration Units: UG/L

| #  | Analyte    | Spiked Sample<br>Result(SSR) | 11:56<br>C | Sample<br>Result(SR) | 11:37<br>C | Spike<br>Added(SA) | % Rec. | Control Limit | Q |
|----|------------|------------------------------|------------|----------------------|------------|--------------------|--------|---------------|---|
| 1  | Aluminum   | 1939.8334                    |            | 32.8771              | B          | 2000.00            | 95.3   | 75-125        |   |
| 2  | Antimony   | 467.0731                     |            | 2.0862               | U          | 500.00             | 93.4   | 75-125        |   |
| 3  | Arsenic    | 479.4828                     |            | 5.1252               |            | 500.00             | 94.9   | 75-125        |   |
| 4  | Barium     | 4201.4277                    |            | 43.5452              |            | 4000.00            | 103.9  | 75-125        |   |
| 5  | Beryllium  | 184.7050                     |            | 0.0649               | U          | 200.00             | 92.4   | 75-125        |   |
| 6  | Cadmium    | 244.7721                     |            | -0.1758              | U          | 250.00             | 97.9   | 75-125        |   |
| 7  | Calcium    | 61987.8164                   |            | 43893.3477           |            | 20000.00           | 90.5   | 75-125        |   |
| 8  | Chromium   | 966.4279                     |            | 11.0826              |            | 1000.00            | 95.5   | 75-125        |   |
| 9  | Cobalt     | 984.0964                     |            | 0.7971               | B          | 1000.00            | 98.3   | 75-125        |   |
| 10 | Copper     | 1011.2004                    |            | 29.0796              |            | 1000.00            | 98.2   | 75-125        |   |
| 11 | Iron       | 959.9175                     |            | 59.3112              |            | 1000.00            | 90.1   | 75-125        |   |
| 12 | Lead       | 2890.6616                    |            | 2.8600               | B          | 3000.00            | 96.3   | 75-125        |   |
| 13 | Magnesium  | 62767.4961                   |            | 53992.8125           |            | 10000.00           | 87.7   |               |   |
| 14 | Manganese  | 913.6199                     |            | 17.3223              |            | 1000.00            | 89.6   | 75-125        |   |
| 15 | Nickel     | 957.6406                     |            | 3.5161               | B          | 1000.00            | 95.4   | 75-125        |   |
| 16 | Potassium  | 30683.5566                   |            | 24420.0547           |            | 5000.00            | 125.3  |               |   |
| 17 | Selenium   | 462.2114                     |            | 4.6063               | B          | 500.00             | 91.5   | 75-125        |   |
| 18 | Silver     | 957.3848                     |            | 0.1659               | U          | 1000.00            | 95.7   | 75-125        |   |
| 19 | Sodium     | 1361943.8750                 |            | 1338976.1250         |            | 40000.00           | 57.4   |               |   |
| 20 | Thallium   | 439.7741                     |            | 1.9031               | B          | 500.00             | 87.6   | 75-125        |   |
| 21 | Vanadium   | 1978.7847                    |            | 68.2877              |            | 2000.00            | 95.5   | 75-125        |   |
| 22 | Zinc       | 492.9264                     |            | 30.5689              |            | 500.00             | 92.5   | 75-125        |   |
| 23 | Molybdenum | 2020.7742                    |            | 7.2141               |            | 2000.00            | 100.7  | 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 GW Mon-2Q03  | Service ID: 033205     | Sequence No.: 03M1479M  |
|                                | Batch No.: 03M1479     | Method: 200.9           |
| Spike Sample No. 03-3261-01    | Matrix: WATER          | Instrument: ICP -M      |
| Client Sample No. 01GP-03-1-GW | % Solid: 0.00          | Analysis Date: 05/19/03 |

Concentration Unit: UG/L

| #  | Analyte    | 11:37        |   | 11:41        |   | RPD(%) | Q |
|----|------------|--------------|---|--------------|---|--------|---|
|    |            | Sample(s)    | C | Duplicate    | C |        |   |
| 1  | Aluminum   | 32.8771      | B | 25.0282      | B | 27.1   |   |
| 2  | Antimony   | 2.0862       | U | 0.3174       | U |        |   |
| 3  | Arsenic    | 5.1252       |   | 5.6617       |   | 9.9    |   |
| 4  | Barium     | 43.5452      |   | 39.6019      |   | 9.5    |   |
| 5  | Beryllium  | 0.0649       | U | -0.0053      | U |        |   |
| 6  | Cadmium    | -0.1758      | U | -0.0905      | U |        |   |
| 7  | Calcium    | 43893.3477   |   | 41694.7930   |   | 5.1    |   |
| 8  | Chromium   | 11.0826      |   | 9.5604       |   | 14.7   |   |
| 9  | Cobalt     | 0.7971       | B | 0.1237       | U | 200.0  |   |
| 10 | Copper     | 29.0796      |   | 2.2202       | B | 171.6  | * |
| 11 | Iron       | 59.3112      |   | 25.3966      | B | 80.1   |   |
| 12 | Lead       | 2.8600       | B | 1.9279       | B | 38.9   |   |
| 13 | Magnesium  | 53992.8125   |   | 51966.1133   |   | 3.8    |   |
| 14 | Manganese  | 17.3223      |   | 15.4543      |   | 11.4   |   |
| 15 | Nickel     | 3.5161       | B | 1.8132       | B | 63.9   |   |
| 16 | Potassium  | 24420.0547   |   | 23802.9004   |   | 2.6    |   |
| 17 | Selenium   | 4.6063       | B | 3.7502       | B | 20.5   |   |
| 18 | Silver     | 0.1659       | U | -0.3920      | U |        |   |
| 19 | Sodium     | 1338976.1250 |   | 1272147.7500 |   | 5.1    |   |
| 20 | Thallium   | 1.9031       | B | -0.8939      | U | 200.0  |   |
| 21 | Vanadium   | 68.2877      |   | 66.1625      |   | 3.2    |   |
| 22 | Zinc       | 30.5689      |   | 5.6196       | B | 137.9  | * |
| 23 | Molybdenum | 7.2141       |   | 5.1015       |   | 34.3   |   |



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: 33205    |
| Project ID: JPL GW Mon-2Q03 | Project No: 04-4428.10 | Sample Matrix: Water |
|                             | Batch No: 03M1481E     |                      |
| LCS Filename: -             | Date Analyzed: 051903  | Time Analyzed: 12:00 |
| LCSD Filename: -            | Date Analyzed: 051903  | Time Analyzed: 12:07 |

| Spiked Components   | Unit | Spike Added | Concentration |      | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
|                     |      |             | Unspiked      | LCS  |            |                 |
| ARSENIC             | µg/L | 50          | 0             | 53.2 | 106        | 80-120          |
| # of Out-of-control |      |             |               |      | 0          |                 |

| Spiked Components   | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|--------------------|-------------|--------|-------------|--------|
|                     |      |             |                    |             |        | RPD         | REC    |
| ARSENIC             | µg/L | 50          | 53.2               | 106         | 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-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: 33205    |
| Project ID: JPL GW Mon-2Q03 | Project No: 04-4428.10 | Sample Matrix: Water |
|                             | Batch No: 03M1479M     |                      |
| LCS Filename: -             | Date Analyzed: 051903  | Time Analyzed: 11:30 |
| LCSD Filename: -            | Date Analyzed: 051903  | Time Analyzed: 11:34 |

| Spiked Components   | Unit | Spike Added | Concentration |       | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|-------|------------|-----------------|
|                     |      |             | Unspiked      | LCS   |            |                 |
| CALCIUM             | µg/L | 20000       | 0             | 21300 | 107        | 80-120          |
| IRON                | µg/L | 1000        | 0             | 1040  | 104        | 80-120          |
| MAGNESIUM           | µg/L | 10000       | 0             | 10600 | 106        | 80-120          |
| POTASSIUM           | µg/L | 5000        | 0             | 5130  | 103        | 80-120          |
| SODIUM              | µg/L | 40000       | 0             | 39400 | 99         | 80-120          |
| # of Out-of-control |      |             |               |       | 0          |                 |

| Spiked Components   | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|--------------------|-------------|--------|-------------|--------|
|                     |      |             |                    |             |        | RPD         | REC    |
| CALCIUM             | µg/L | 20000       | 21300              | 107         | 0      | 20          | 80-120 |
| IRON                | µg/L | 1000        | 1020               | 102         | 2      | 20          | 80-120 |
| MAGNESIUM           | µg/L | 10000       | 10300              | 103         | 3      | 20          | 80-120 |
| POTASSIUM           | µg/L | 5000        | 5200               | 104         | 1      | 20          | 80-120 |
| SODIUM              | µg/L | 40000       | 38900              | 97          | 2      | 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 GW Mon-2Q03 | Service ID:    | 033205     | Sequence No.: | 03M1481E |
|                      |                 | Batch No.:     | 03M1481    | Method:       | 200.9    |
| Dilution Sample No.: | 03-3205-01      | Matrix:        | WATER      | Instrument:   | GFAA-E   |
| Client Sample No.:   | DUPE-7-2Q03     | Analysis Date: | 05/19/03   |               |          |

Concentration Units: UG/L

| # | Analyte | Initial Sample<br>Results(I) | 12:13<br>C | Serial Dilut<br>Results(S) | 12:26<br>C | % Diff. | Q |
|---|---------|------------------------------|------------|----------------------------|------------|---------|---|
| 1 | Arsenic | 0.20                         | U          | -3.50                      | 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 GW Mon-2Q03 | Service ID:    | 033205     | Sequence No.: | 03M1479M |
|                      |                 | Batch No.:     | 03M1479    | Method:       | 200.9    |
| Dilution Sample No.: | 03-3261-01      | Matrix:        | WATER      | Instrument:   | ICP -M   |
| Client Sample No.:   | 01GP-03-1-GW    | Analysis Date: | 05/19/03   |               |          |

Concentration Units: UG/L

| #  | Analyte    | Initial Sample |            | Serial Dilut |            | % Diff. | Q |
|----|------------|----------------|------------|--------------|------------|---------|---|
|    |            | Results(I)     | 11:37<br>C | Results(S)   | 11:44<br>C |         |   |
| 1  | Aluminum   | 32.88          | B          | 80.03        | B          | 143.4   |   |
| 2  | Antimony   | 2.09           | U          | -3.78        | U          |         |   |
| 3  | Arsenic    | 5.13           |            | 12.25        | B          | 139.0   |   |
| 4  | Barium     | 43.55          |            | 43.81        | B          | 0.6     |   |
| 5  | Beryllium  | 0.06           | U          | -0.26        | U          |         |   |
| 6  | Cadmium    | -0.18          | U          | -1.83        | U          |         |   |
| 7  | Calcium    | 43893.35       |            | 47096.86     |            | 7.3     |   |
| 8  | Chromium   | 11.08          |            | 12.26        | B          | 10.7    |   |
| 9  | Cobalt     | 0.80           | B          | -0.58        | U          | 100.0   |   |
| 10 | Copper     | 29.08          |            | 19.87        | B          | 31.7    |   |
| 11 | Iron       | 59.31          |            | 47.36        | B          | 20.2    |   |
| 12 | Lead       | 2.86           | B          | 6.02         | B          | 110.6   |   |
| 13 | Magnesium  | 53992.81       |            | 59231.34     |            | 9.7     |   |
| 14 | Manganese  | 17.32          |            | 18.02        | B          | 4.0     |   |
| 15 | Nickel     | 3.52           | B          | 1.02         | U          | 100.0   |   |
| 16 | Potassium  | 24420.05       |            | 21119.08     |            | 13.5    | E |
| 17 | Selenium   | 4.61           | B          | 13.48        | B          | 192.7   |   |
| 18 | Silver     | 0.17           | U          | -0.63        | U          |         |   |
| 19 | Sodium     | 1338976.13     |            | 1226951.88   |            | 8.4     |   |
| 20 | Thallium   | 1.90           | B          | 3.49         | U          | 100.0   |   |
| 21 | Vanadium   | 68.29          |            | 72.68        |            | 6.4     |   |
| 22 | Zinc       | 30.57          |            | 34.68        | B          | 13.5    |   |
| 23 | Molybdenum | 7.21           |            | 3.88         | B          | 46.2    |   |

FORM-13 Metal  
Applied P & Ch Laboratory  
**Preparation Log**

|                               |                        |                        |
|-------------------------------|------------------------|------------------------|
| Client Name: GEOFON, Inc.     | Project No: 04-4428.10 | Lab Code: APCL         |
| Project Name: JPL GW Mon-2Q03 | Service ID: 033205     | Sequence No.: 03M1481E |
|                               | Batch No.: 03M1481     | Method: 200.9          |
| Preparation Matrix: WATER     | Instrument: GFAA-E     |                        |

| #  | Client Sample No. | APCL Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|----|-------------------|-----------------|------------------|---------------|-------------|
| 1  | DUPE-7-2Q03       | 03-3205-01DM    | 05/19/03         |               | 50.0        |
| 2  | EB-13-5/13/03     | 03-3205-02      | 05/19/03         |               | 50.0        |
| 3  | MW-18-1           | 03-3205-03      | 05/19/03         |               | 50.0        |
| 4  | MW-18-2           | 03-3205-04      | 05/19/03         |               | 50.0        |
| 5  | MW-18-3           | 03-3205-05      | 05/19/03         |               | 50.0        |
| 6  | MW-18-4           | 03-3205-06      | 05/19/03         |               | 50.0        |
| 7  | MW-18-5           | 03-3205-07      | 05/19/03         |               | 50.0        |
| 8  |                   | 03M1481MB       | 05/19/03         |               | 50.0        |
| 9  |                   | 03M1481LCS      | 05/19/03         |               | 50.0        |
| 10 |                   | 03M1481LCSD     | 05/19/03         |               | 50.0        |
| 11 | DUPE-7-2Q03 Dup.  | 03M1481MD       | 05/19/03         |               | 50.0        |
| 12 | DUPE-7-2Q03 MS    | 03M1481MS       | 05/19/03         |               | 50.0        |
| 13 | DUPE-7-2Q03 MSD   | 03M1481MSD      | 05/19/03         |               | 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 GW Mon-2Q03 Service ID: 033205 Sequence No.: 03M1479M  
 Batch No.: 03M1479 Method: 200.9  
 Preparation Matrix: WATER Instrument: ICP -M

| #  | Client Sample No.    | APCL Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|----|----------------------|-----------------|------------------|---------------|-------------|
| 1  | DUPE-7-2Q03          | 03-3205-01      | 05/19/03         |               | 50.0        |
| 2  | EB-13-5/13/03        | 03-3205-02      | 05/19/03         |               | 50.0        |
| 3  | MW-18-1              | 03-3205-03      | 05/19/03         |               | 50.0        |
| 4  | MW-18-2              | 03-3205-04      | 05/19/03         |               | 50.0        |
| 5  | MW-18-3              | 03-3205-05      | 05/19/03         |               | 50.0        |
| 6  | MW-18-4              | 03-3205-06      | 05/19/03         |               | 50.0        |
| 7  | MW-18-5              | 03-3205-07      | 05/19/03         |               | 50.0        |
| 8  | Tap Water 1373 White | 03-3234-01      | 05/19/03         |               | 50.0        |
| 9  | Tap Water 2104 Beech | 03-3234-02      | 05/19/03         |               | 50.0        |
| 10 | 01GP-03-1-GW         | 03-3261-01DM    | 05/19/03         |               | 50.0        |
| 11 | 01GP-04-1-GW         | 03-3261-02      | 05/19/03         |               | 50.0        |
| 12 | 01GP-10-1-GW         | 03-3261-03      | 05/19/03         |               | 50.0        |
| 13 | 01GP-11-1-GW         | 03-3261-04      | 05/19/03         |               | 50.0        |
| 14 | 01GP-13-1-GW         | 03-3261-05      | 05/19/03         |               | 50.0        |
| 15 | 01GP-13-3-GW         | 03-3261-06      | 05/19/03         |               | 50.0        |
| 16 | 01GP-14-1-GW         | 03-3261-07      | 05/19/03         |               | 50.0        |
| 17 | 01GP-15-1-GW         | 03-3261-08      | 05/19/03         |               | 50.0        |
| 18 | 01GP-11-1-GW         | 03-3276-01      | 05/19/03         |               | 50.0        |
| 19 | 01GP-12-1-GW         | 03-3276-02      | 05/19/03         |               | 50.0        |
| 20 | 32-MW05-WG2          | 02-6776-01      | 05/19/03         |               | 50.0        |
| 21 |                      | 03M1479MB       | 05/19/03         |               | 50.0        |
| 22 |                      | 03M1479LCS      | 05/19/03         |               | 50.0        |
| 23 |                      | 03M1479LCSD     | 05/19/03         |               | 50.0        |
| 24 | 01GP-03-1-GW Dup.    | 03M1479MD       | 05/19/03         |               | 50.0        |
| 25 | 01GP-03-1-GW MS      | 03M1479MS       | 05/19/03         |               | 50.0        |
| 26 | 01GP-03-1-GW MSD     | 03M1479MSD      | 05/19/03         |               | 50.0        |

FORM-14 Metal  
Applied P & Ch Laboratory  
Analysis Run Log

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
Instrument: GFAA-E  
Start Date: 05/19/03

Lab Code: APCL  
Sequence No.: 03M1481E  
Method: 200.9  
End Date: 05/19/03

Batch No.(s): 03M1481

| #  | 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 | 10:58 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 2  | AS Position 001 | 1.00 | 11:03 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 3  | Calib. Blank    | 1.00 | 11:07 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 4  | 1/2 STD1 1472A  | 1.00 | 11:13 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 5  | STD1 1472A      | 1.00 | 11:19 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 6  | STD2 1472B      | 1.00 | 11:25 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 7  | STD3 1472C      | 1.00 | 11:32 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 8  | ICV A1474       | 1.00 | 11:42 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 9  | ICB             | 1.00 | 11:48 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 10 | M-BL 03M1481    | 1.00 | 11:54 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 11 | LCS-03M1481     | 1.00 | 12:00 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 12 | LCSD-03M1481    | 1.00 | 12:07 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 13 | 3205-1 S F=1    | 1.00 | 12:13 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 14 | 3205-1 D F=1    | 1.00 | 12:20 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 15 | 3205-1 1/5 F=5  | 5.00 | 12:26 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 16 | 3205-1 MS F=1   | 1.00 | 12:33 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 17 | 3205-1 MSD F=1  | 1.00 | 12:39 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 18 | 3205-1 PS F=1   | 1.00 | 12:46 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 19 | 3205-2 F=1      | 1.00 | 12:52 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 20 | CCV A1474       | 1.00 | 12:59 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 21 | CCB             | 1.00 | 13:05 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 22 | 3205-3 F=1      | 1.00 | 13:11 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 23 | 3205-4 F=1      | 1.00 | 13:18 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 24 | 3205-5 F=1      | 1.00 | 13:24 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 25 | 3205-6 F=1      | 1.00 | 13:30 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 26 | 3205-7 F=1      | 1.00 | 13:36 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 27 | CCV A1474       | 1.00 | 13:43 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |
| 28 | CCB             | 1.00 | 13:49 |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |   |    |    |    |    |    |    |   |    |  |

FORM-14 Metal  
Applied P & Ch Laboratory  
Analysis Run Log

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
Instrument: ICP -M  
Start Date: 05/19/03

Lab Code: APCL  
Sequence No.: 03M1479M  
Method: 200.9  
End Date: 05/19/03

Batch No.(s): 03M1479

| #  | 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  | 10:32 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 2  | STD1 1423A      | 1.00  | 10:36 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 3  | STD2 1423B      | 1.00  | 10:40 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 4  | STD3 1423C      | 1.00  | 10:43 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 5  | ICV 1447A       | 1.00  | 10:47 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 6  | ICB             | 1.00  | 10:51 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 7  | CRI A1432       | 1.00  | 10:54 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 8  | ICSA 1441       | 1.00  | 10:57 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 9  | ICSAB 1443      | 1.00  | 11:00 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 10 | CCV 1447B       | 1.00  | 11:03 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 11 | CCB             | 1.00  | 11:08 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 12 | Calib Blank     | 1.00  | 11:17 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 13 | CCV 1447B       | 1.00  | 11:20 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 14 | CCB             | 1.00  | 11:23 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 15 | M-BL 03M1479 W  | 1.00  | 11:26 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 16 | LCS-03M1479     | 1.00  | 11:30 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 17 | LCSD-03M1479    | 1.00  | 11:34 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 18 | 3261-1 S F=1    | 1.00  | 11:37 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 19 | 3261-1 D F=1    | 1.00  | 11:41 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 20 | 3261-1 1/5 F=5  | 5.00  | 11:44 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 21 | 3261-1 MS F=1   | 1.00  | 11:48 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 22 | 3261-1 MSD F=1  | 1.00  | 11:52 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 23 | 3261-1 PS F=1   | 1.00  | 11:56 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 24 | 3261-1 F=10     | 10.00 | 11:59 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 25 | CCV 1447B       | 1.00  | 12:03 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 26 | CCB             | 1.00  | 12:06 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 27 | 3261-2 F=1      | 1.00  | 12:09 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 28 | 3261-2 F=10     | 10.00 | 12:12 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 29 | 3261-3 F=1      | 1.00  | 12:16 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 30 | 3261-3 F=15     | 15.00 | 12:19 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 31 | 3261-4 F=1      | 1.00  | 12:23 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 32 | 3261-4 F=10     | 10.00 | 12:27 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 33 | 3261-5 F=1      | 1.00  | 12:30 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 34 | 3261-5 F=10     | 10.00 | 12:34 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 35 | 3261-6 F=1      | 1.00  | 12:37 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 36 | 3261-6 F=10     | 10.00 | 12:41 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 37 | CCV 1447B       | 1.00  | 12:45 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 38 | CCB             | 1.00  | 12:48 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 39 | 3261-7 F=1      | 1.00  | 12:52 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |
| 40 | 3261-7 F=10     | 10.00 | 12:55 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ | ✓  |



FORM-14 Metal  
Applied P & Ch Laboratory  
Analysis Run Log

Client Name: GEOFON, Inc.  
Project Name: JPL GW Mon-2Q03

Project No: 04-4428.10  
Service ID: 033205  
Instrument: ICP -M  
Start Date: 05/19/03

Lab Code: APCL  
Sequence No.: 03M1479M  
Method: 200.9  
End Date: 05/19/03

Batch No.(s): 03M1479

| #  | 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 | 3261-8 F=1      | 1.00  | 12:59 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 42 | 3261-8 F=10     | 10.00 | 13:02 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 43 | 3276-1 F=1      | 1.00  | 13:06 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 44 | 3276-1 F=10     | 10.00 | 13:09 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 45 | 3276-2 F=1      | 1.00  | 13:13 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 46 | 3276-2 F=10     | 10.00 | 13:16 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 47 | 3205-1 F=1      | 1.00  | 13:20 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 48 | CCV 1447B       | 1.00  | 13:23 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 49 | CCB             | 1.00  | 13:27 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 50 | 3205-2 F=1      | 1.00  | 13:30 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 51 | 3205-3 F=1      | 1.00  | 13:33 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 52 | 3205-4 F=1      | 1.00  | 13:37 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 53 | 3205-5 F=1      | 1.00  | 13:40 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 54 | 3205-6 F=1      | 1.00  | 13:44 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 55 | 3205-7 F=1      | 1.00  | 13:47 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 56 | 3234-1 F=1      | 1.00  | 13:51 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 57 | Calib Blank     | 1.00  | 14:10 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 58 | STD1 1423A      | 1.00  | 14:14 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 59 | STD2 1423B      | 1.00  | 14:17 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 60 | STD3 1423C      | 1.00  | 14:21 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 61 | CCV 1447B       | 1.00  | 14:24 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 62 | CCB             | 1.00  | 14:28 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 63 | Calib Blank     | 1.00  | 14:30 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 64 | CCV 1447B       | 1.00  | 14:33 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 65 | CCB             | 1.00  | 14:36 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 66 | 3205-2 F=1      | 1.00  | 14:43 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 67 | 3205-3 F=1      | 1.00  | 14:47 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 68 | 3205-4 F=1      | 1.00  | 14:50 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 69 | 3205-5 F=1      | 1.00  | 14:54 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 70 | 3205-6 F=1      | 1.00  | 14:57 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 71 | 3205-7 F=1      | 1.00  | 15:01 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 72 | 3234-1 F=1      | 1.00  | 15:04 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 73 | 3234-2 F=1      | 1.00  | 15:10 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 74 | ICSA 1441       | 1.00  | 15:13 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 75 | ICSAB 1443      | 1.00  | 15:16 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 76 | CCV 1447B       | 1.00  | 15:25 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 77 | CCB             | 1.00  | 15:28 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |
| 78 | DLC A1427       | 1.00  | 15:32 | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √  | √ | √  | √  | √  | √  | √ | √  | √  | √  | √  | √  | √  | √ | √  |

13760 Magnolia Ave. Chino CA 91710

Metal Digestion (3010/3050) Worksheet

Tel: (909) 590-1828 Fax: (909) 590-1498

Batch # 23M1481 Matrix: W Method used: 3020A Date: 5/19/03 Digested by: XI Diluted by: \_\_\_\_\_

Lot #: ASTM Type I water RW1412 HNO<sub>3</sub> 1102120 H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_ HCl \_\_\_\_\_ H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

| OP # | Type         | Samp ID /Lot #       | X (g or mL) | V <sub>digest</sub> /X = f <sub>1</sub> | V <sub>j</sub> /V <sub>i</sub> = f <sub>2</sub> | V <sub>j</sub> /V <sub>i</sub> = f <sub>3</sub> | F = f <sub>1</sub> f <sub>2</sub> f <sub>3</sub> | Note             |
|------|--------------|----------------------|-------------|---|---|---|--|------------------|
| 2145 | Method Blank | Bl. L. <u>RW1412</u> | <u>50</u>   | <u>50/X = 1</u>                         | <u>/ =</u>                                      | <u>/ =</u>                                      |  | <u>GTAA / As</u> |
| 2146 | LCS1         | Bl. Lot: <u>11</u>   |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2147 | Sample-1     | <u>3205 - 1</u>      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  | <u>T = 95°C</u>  |
| 2148 | MS1 on S-1   | <u>1</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2149 | MS2 on S-1   | <u>1</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2150 | Sample 2     | <u>2</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2151 | Sample 3     | <u>3</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2152 | Sample 4     | <u>4</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2153 | Sample 5     | <u>5</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2154 | Sample 6     | <u>6</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2155 | Sample 7     | <u>7</u>             |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2156 | Sample 8     |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2157 | Sample 9     |                      |             | <u>XI</u><br><u>/X = 5/19/03</u>        | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2158 | Sample 10    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2159 | LCS2         | Bl. L. <u>RW1412</u> | <u>50</u>   | <u>50/X = 1</u>                         | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2160 | Sample 11    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2161 | Sample 12    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2162 | Sample 13    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2163 | Sample 14    |                      |             | <u>/X = XI</u>                          | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2164 | Sample 15    |                      |             | <u>/X = 5/19/03</u>                     | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2165 | Sample 16    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2166 | Sample 17    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2167 | Sample 18    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2168 | Sample 19    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2169 | Sample 20    |                      |             | <u>/X =</u>                             | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |
| 2170 | Duplicate    | <u>3205 - 1</u>      | <u>50</u>   | <u>50/X = 1</u>                         | <u>/ =</u>                                      | <u>/ =</u>                                      |  |                  |

Specification of matrix spike and lab control spike

| QC Type | Spiked Element *         | Spike Stock Solution Lot #     | Spike Stock (Rep.) Conc. C <sub>s</sub> , µg/mL | Spike Stock Volum Used V <sub>s</sub> , mL | Spike Level T' = C <sub>s</sub> V <sub>s</sub> /V ppm or mg/L | Sample Spike T, ppm |
|---------|--------------------------|--------------------------------|---|--|---|---------------------|
| MS1     | /AsSc/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>1473</u> | / / / <u>5</u>                                  | / / / <u>10.5</u>                          | / / / <u>1005</u>   |                     |
| MS2     | /AsSc/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>11</u>   | / / /   | / / /                                      | / / /   |                     |
| LCS1    | /AsSc/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>1471</u> | / / /   | / / /                                      | / / /   |                     |
| LCS2    | /AsSc/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>11</u>   | / / /   | / / /                                      | / / /   |                     |

\* Notation: T - rep. sample spike level. T' - digest solution spike level. T = f T' = C<sub>s</sub>V<sub>s</sub>/X. M20 (or Mj) represents 20 (or j) metals, (see STD logbook).  
 If digest needs dilution for different metals, use dilution worksheet.  
 APCL form 6-116 April, 03, 1996. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.  
 Root-File:[CUST.DOC.AA]DIGEST-ROOT.TEX File:[CUST.DOC.AA]DIGEST.TEX Supervisor Initial XI

13760 Magnolia Ave. Chino CA 91710

Metal Digestion (3010/3050) Worksheet

Tel: (909) 590-1828 Fax: (909) 590-1498

Batch # 02M1479 Matrix: W Method used: 6010A Date: 5/19/03 Digested by: XI Diluted by: YU

Lot #: ASTM Type I water RW1412 HNO<sub>3</sub> 1102120 H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_ HCl 4102000 H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

| OP # | Type         | Samp ID /Lot #        | X (g or mL) | V <sub>digest</sub> /X = f <sub>1</sub> | V <sub>1</sub> /V <sub>i</sub> = f <sub>2</sub> | V <sub>1</sub> /V <sub>i</sub> = f <sub>3</sub> | F = f <sub>1</sub> f <sub>2</sub> f <sub>3</sub> | Note                  |
|------|--------------|-----------------------|-------------|---|---|---|--|-----------------------|
| 2093 | Method Blank | Bl. Lot <u>RW1412</u> | <u>50</u>   | <u>50/X = 1</u>                         | <u>1 =</u>                                      | <u>1 =</u>                                      |  | <u>23 Me</u>          |
| 2094 | LCS1         | Bl. Lot: <u>"</u>     |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2095 | Sample-1     | <u>3261 -1</u>        |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      | <u>for Na, T=95°C</u> |
| 2096 | MS1 on S-1   | <u>-1</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2097 | MS2 on S-1   | <u>-1</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2098 | Sample 2     | <u>-2</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2099 | Sample 3     | <u>-3</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=15</u>                                      |                       |
| 2100 | Sample 4     | <u>-4</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2101 | Sample 5     | <u>-5</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2102 | Sample 6     | <u>-6</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      | <u>for K, Na</u>      |
| 2103 | Sample 7     | <u>-7</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2104 | Sample 8     | <u>-8</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2105 | Sample 9     | <u>3276 -1</u>        |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2106 | Sample 10    | <u>-2</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      | <u>F=10</u>                                      |                       |
| 2107 | LCS2         | Bl. Lot <u>RW1412</u> |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2108 | Sample 11    | <u>3205 -1</u>        |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2109 | Sample 12    | <u>-2</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2110 | Sample 13    | <u>-3</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2111 | Sample 14    | <u>-4</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2112 | Sample 15    | <u>-5</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2113 | Sample 16    | <u>-6</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2114 | Sample 17    | <u>-7</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2115 | Sample 18    | <u>3234 -1</u>        |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2116 | Sample 19    | <u>-2</u>             |             | <u>/X =</u>                             | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |
| 2117 | Sample 20    | <u>6776 -1</u>        | <u>2</u>    | <u>1/X =</u>                            | <u>913 = 3</u>                                  | <u>1 =</u>                                      | <u>3</u>   |                       |
| 2118 | Duplicate    | <u>3261 -1</u>        | <u>50</u>   | <u>50/X = 1</u>                         | <u>1 =</u>                                      | <u>1 =</u>                                      |  |                       |

Specification of matrix spike and lab control spike

| QC Type | Spiked Element *         | Spike Stock Solution Lot #    | Spike Stock (Rep.) Conc. C <sub>s</sub> , µg/mL | Spike Stock Volum Used V <sub>s</sub> , mL | Spike Level T' = C <sub>s</sub> V <sub>s</sub> /V ppm or mg/L | Sample Spike T, ppm |
|---------|--------------------------|-------------------------------|---|--|---|---------------------|
| MS1     | /AsSe/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>433</u> | <u>1 1 1 X</u>                                  | <u>1 1 1 2</u>                             | <u>1 1 1 1</u>  |                     |
| MS2     | /AsSe/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>11</u>  | <u>1 1 1</u>                                    | <u>1 1 1</u>                               | <u>1 1 1</u>  |                     |
| LCS1    | /AsSe/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>492</u> | <u>1 1 1</u>                                    | <u>1 1 1</u>                               | <u>1 1 1</u>  |                     |
| LCS2    | /AsSe/Sb/M <sub>20</sub> | AA- /AA- /AA- /AA- <u>11</u>  | <u>1 1 1</u>                                    | <u>1 1 1</u>                               | <u>1 1 1</u>  |                     |

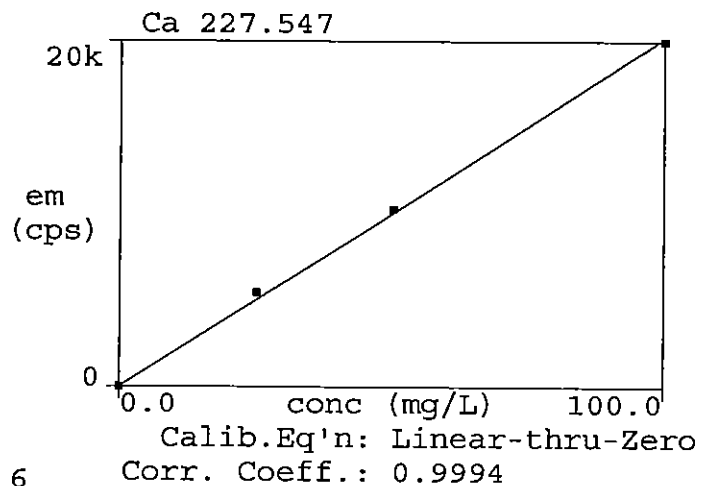
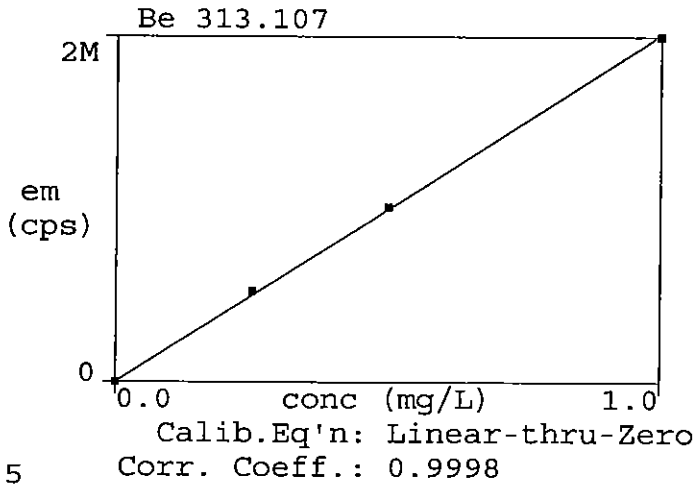
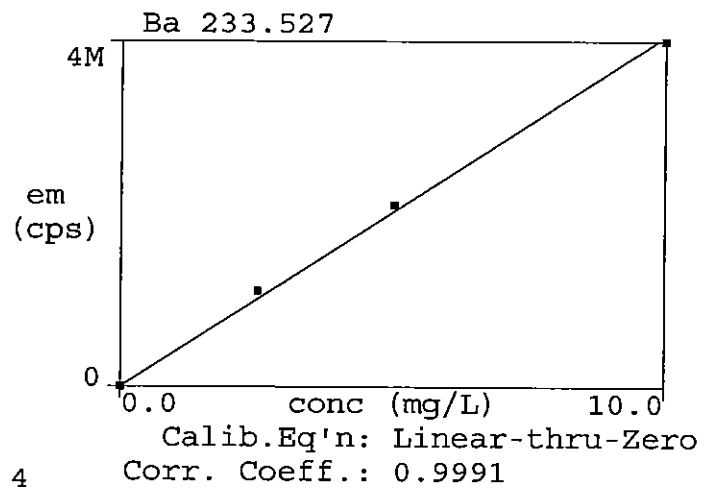
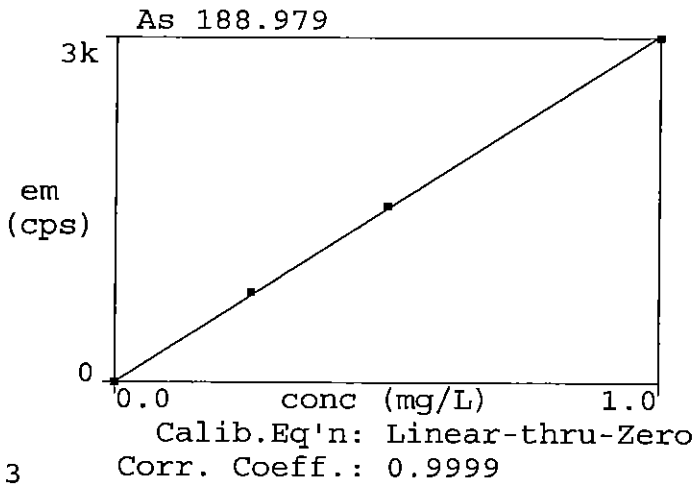
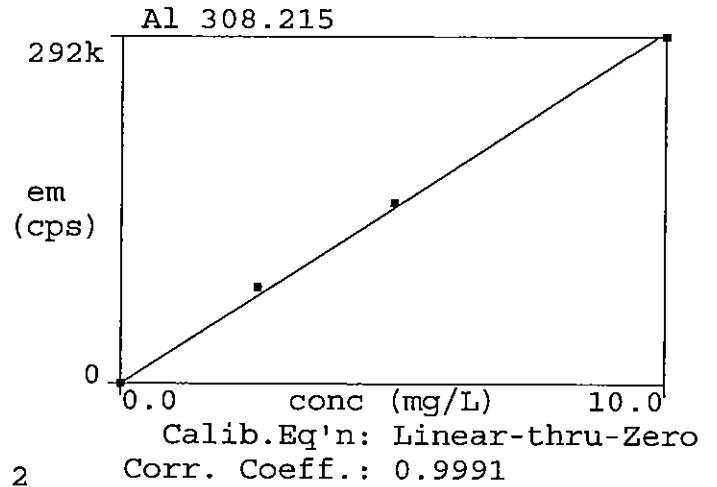
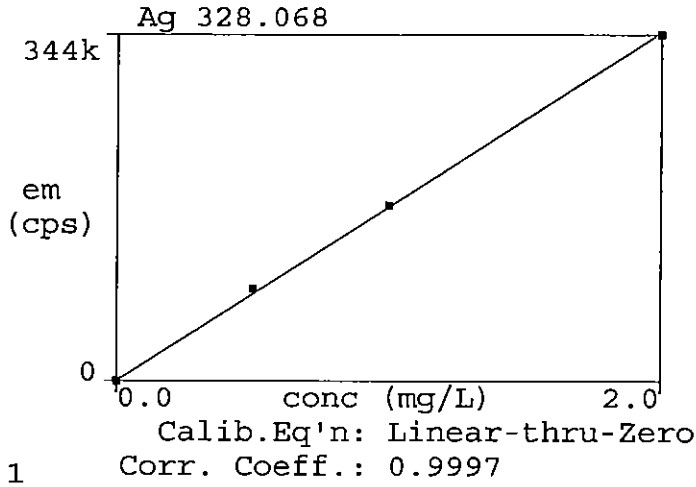
\* Notation: T - rep. sample spike level. T' - digest solution spike level. T = f T' = C<sub>s</sub>V<sub>s</sub>/X. M20 (or Mj) represents 20 (or j) metals, (see STD logbook). If digest needs dilution for different metals, use dilution worksheet.

YU

Calibration

Method: 23ME ICP-M

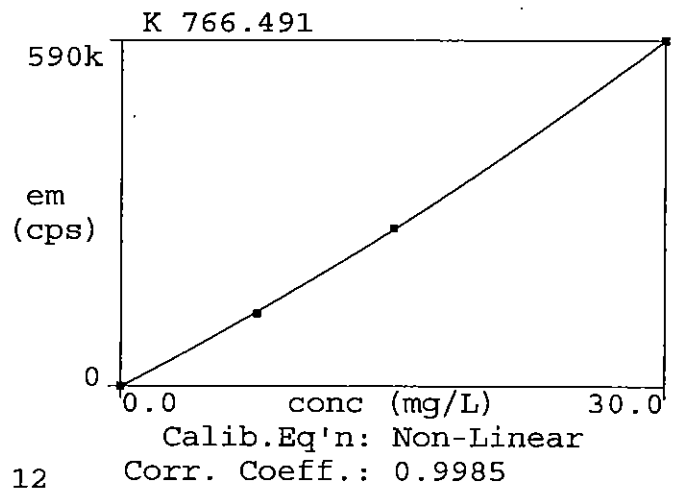
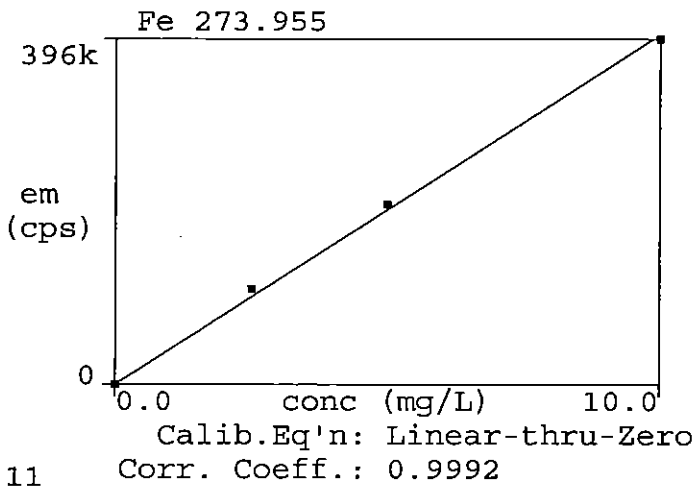
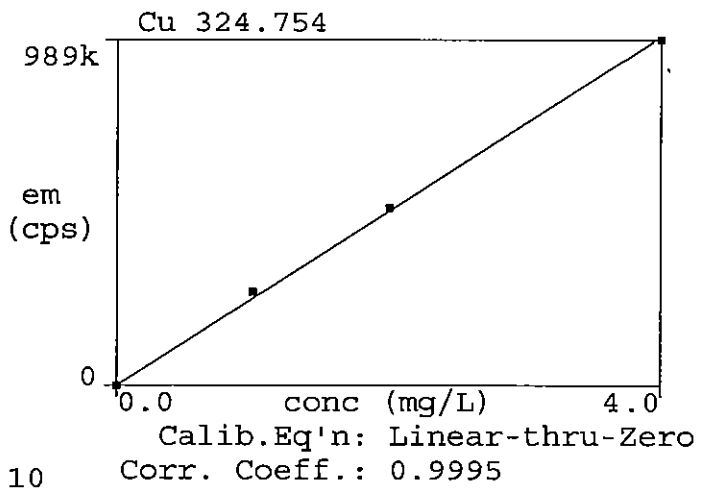
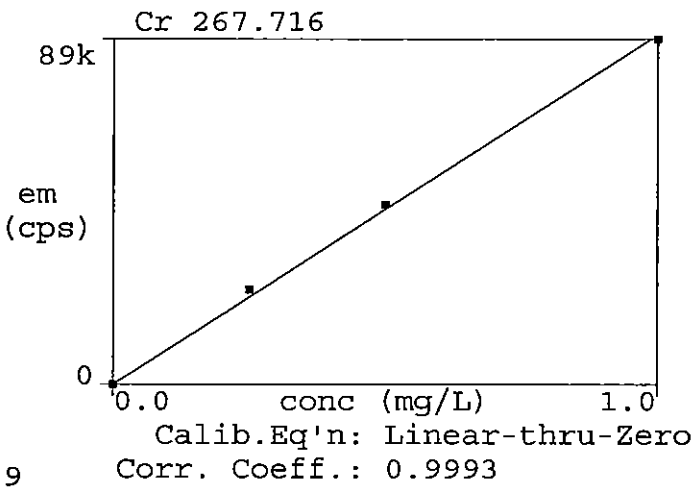
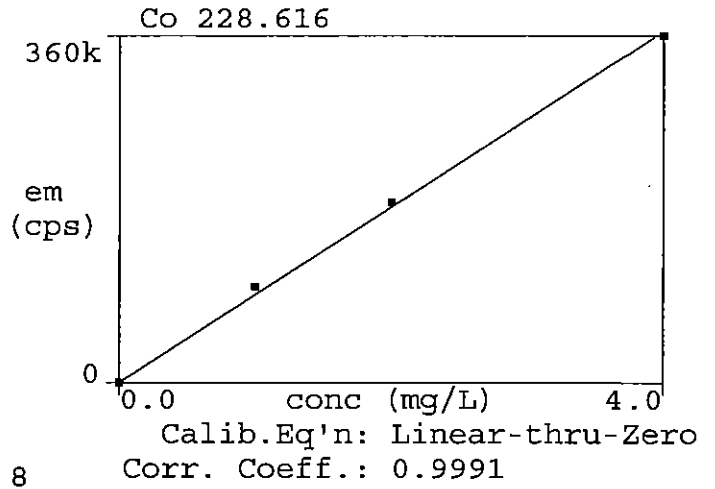
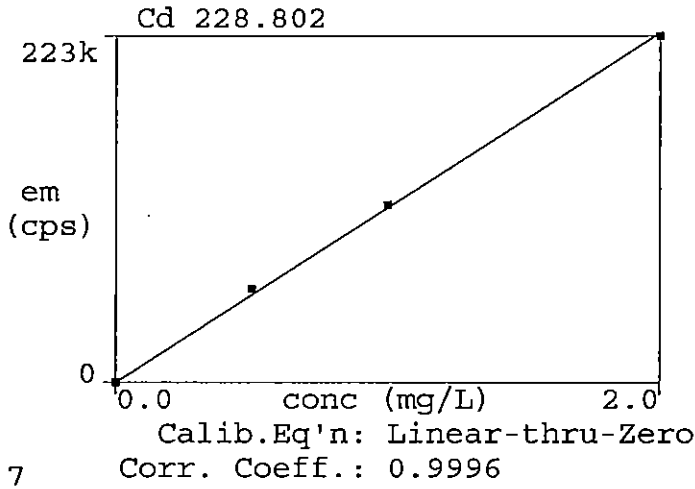
Result: 03M1479M



Calibration

Method: 23ME ICP-M

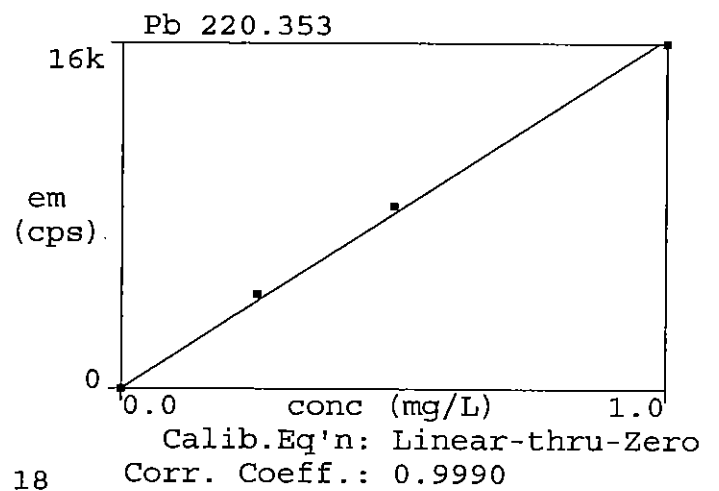
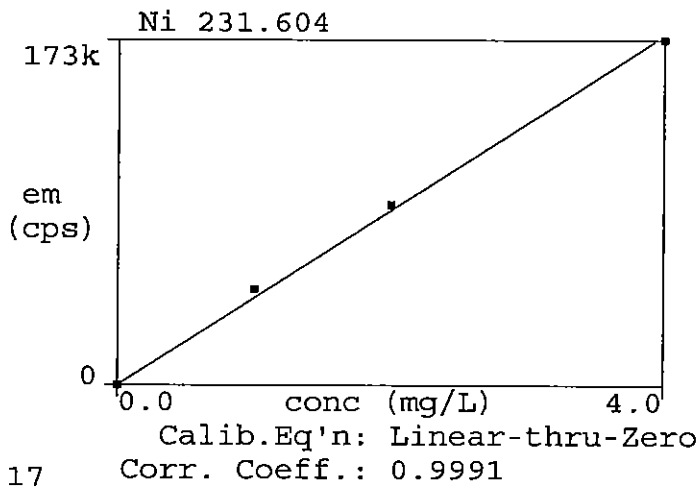
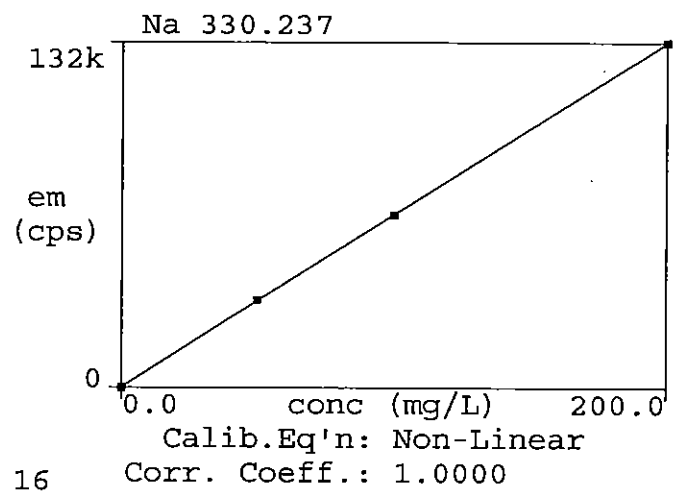
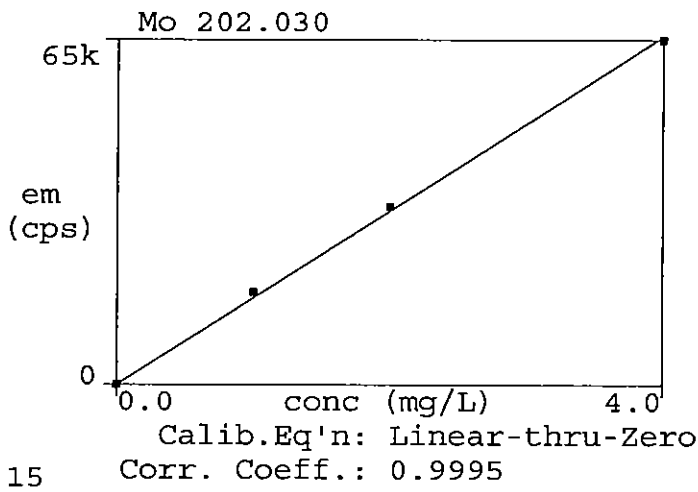
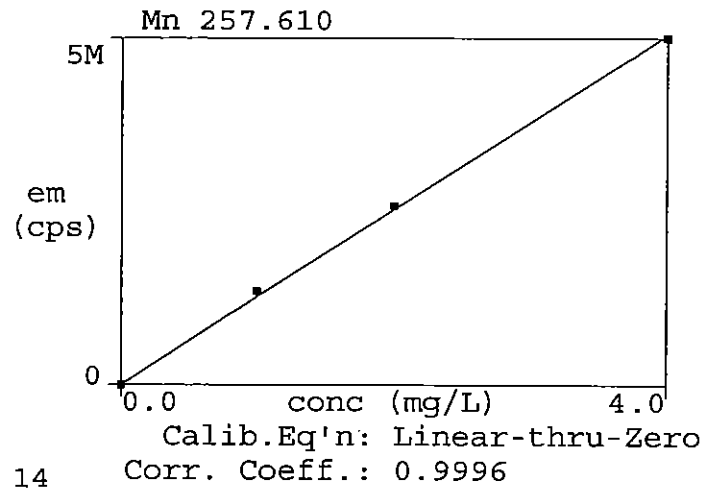
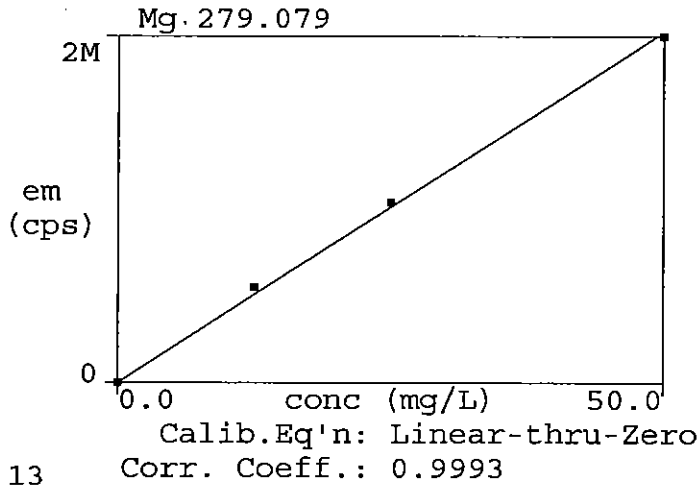
Result: 03M1479M



Calibration

Method: 23ME ICP-M

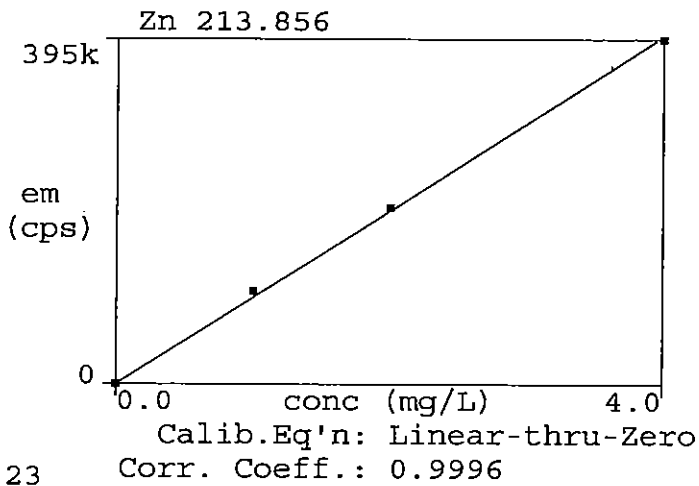
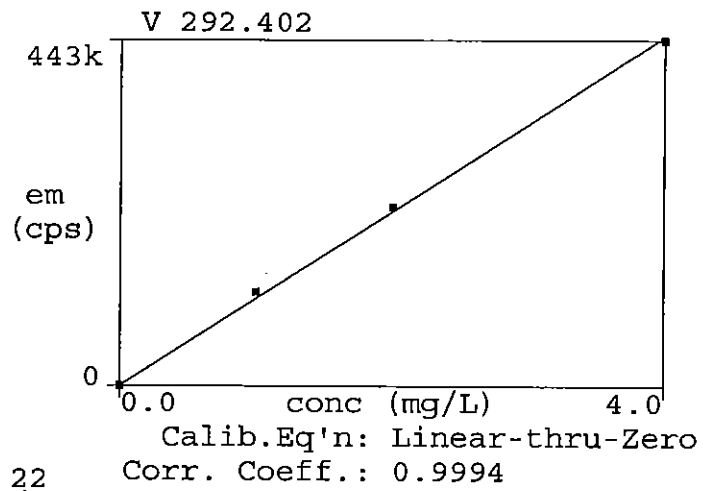
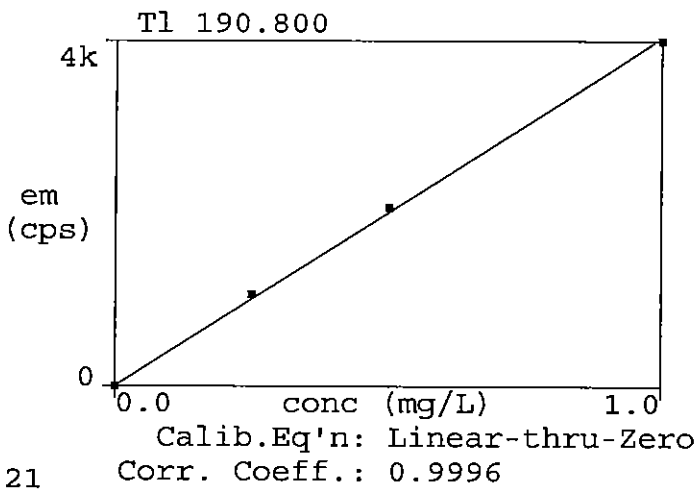
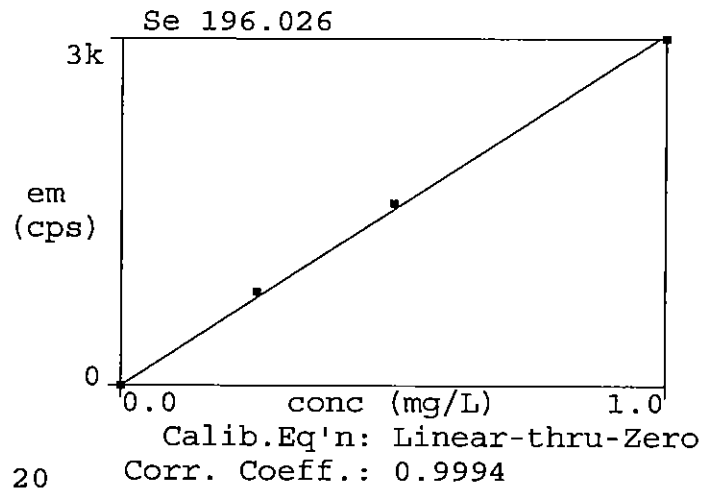
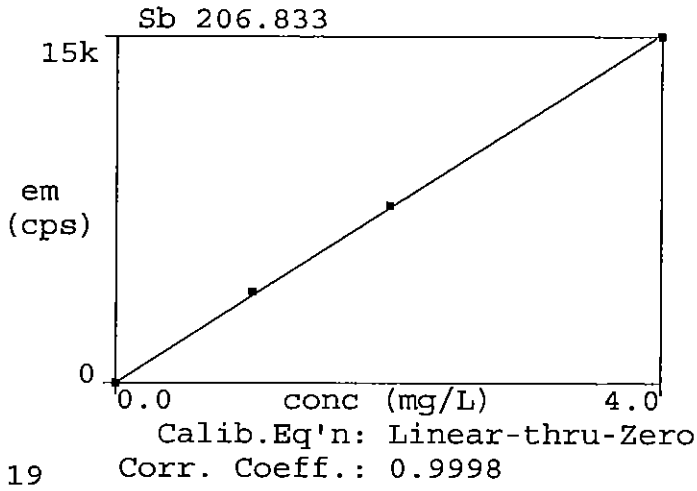
Result: 03M1479M



Calibration

Method: 23ME ICP-M

Result: 03M1479M



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Results: 03M1479M          Spectra Stored: Yes      Method Stored: Yes
Sample Info: 03m1479m      User: User1              Date: 5/19/03 10:30:39 AM
Method Description: 6010B/200.7--23ME 5/15/03
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Duplicate Data -----
D: Calib Blank                                           Date: 5/19/03 10:32:03 AM
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| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units |
|------|------------|---------------|---------------------|-------------------|
| 1    | Ag 328.068 | 1740.0        | 1740.0              | 0 mg/L            |
| 1    | Al 308.215 | 3760.5        | 3760.5              | 0 mg/L            |
| 1    | As 188.979 | 133.1         | 133.1               | 0 mg/L            |
| 1    | Ba 233.527 | -1203.7       | -1203.7             | 0 mg/L            |
| 1    | Be 313.107 | -317.2        | -317.2              | 0 mg/L            |
| 1    | Ca 227.547 | 594.2         | 594.2               | 0 mg/L            |
| 1    | Cd 228.802 | 53.8          | 53.8                | 0 mg/L            |
| 1    | Co 228.616 | -576.9        | -576.9              | 0 mg/L            |
| 1    | Cr 267.716 | 110.2         | 110.2               | 0 mg/L            |
| 1    | Cu 324.754 | 3535.7        | 3535.7              | 0 mg/L            |
| 1    | Fe 273.955 | 346.2         | 346.2               | 0 mg/L            |
| 1    | K 766.491  | 917.6         | 917.6               | 0 mg/L            |
| 1    | Mg 279.079 | 3153.3        | 3153.3              | 0 mg/L            |
| 1    | Mn 257.610 | 1040.7        | 1040.7              | 0 mg/L            |
| 1    | Mo 202.030 | -155.1        | -155.1              | 0 mg/L            |
| 1    | Na 330.237 | 4608.7        | 4608.7              | 0 mg/L            |
| 1    | Ni 231.604 | -430.4        | -430.4              | 0 mg/L            |
| 1    | Pb 220.353 | 436.7         | 436.7               | 0 mg/L            |
| 1    | Sb 206.833 | 70.8          | 70.8                | 0 mg/L            |
| 1    | Se 196.026 | 116.3         | 116.3               | 0 mg/L            |
| 1    | Tl 190.800 | 386.0         | 386.0               | 0 mg/L            |
| 1    | V 292.402  | -404.5        | -404.5              | 0 mg/L            |
| 1    | Zn 213.856 | -239.1        | -239.1              | 0 mg/L            |
| 2    | Ag 328.068 | 1670.0        | 1670.0              | 0 mg/L            |
| 2    | Al 308.215 | 3805.2        | 3805.2              | 0 mg/L            |
| 2    | As 188.979 | 125.2         | 125.2               | 0 mg/L            |
| 2    | Ba 233.527 | -1135.3       | -1135.3             | 0 mg/L            |
| 2    | Be 313.107 | -235.4        | -235.4              | 0 mg/L            |
| 2    | Ca 227.547 | 617.9         | 617.9               | 0 mg/L            |
| 2    | Cd 228.802 | 57.7          | 57.7                | 0 mg/L            |
| 2    | Co 228.616 | -570.9        | -570.9              | 0 mg/L            |
| 2    | Cr 267.716 | 76.6          | 76.6                | 0 mg/L            |
| 2    | Cu 324.754 | 3769.9        | 3769.9              | 0 mg/L            |
| 2    | Fe 273.955 | 206.5         | 206.5               | 0 mg/L            |
| 2    | K 766.491  | 1631.5        | 1631.5              | 0 mg/L            |
| 2    | Mg 279.079 | 2817.6        | 2817.6              | 0 mg/L            |
| 2    | Mn 257.610 | 1023.2        | 1023.2              | 0 mg/L            |
| 2    | Mo 202.030 | -165.9        | -165.9              | 0 mg/L            |
| 2    | Na 330.237 | 4370.1        | 4370.1              | 0 mg/L            |
| 2    | Ni 231.604 | -408.0        | -408.0              | 0 mg/L            |
| 2    | Pb 220.353 | 422.4         | 422.4               | 0 mg/L            |
| 2    | Sb 206.833 | 94.6          | 94.6                | 0 mg/L            |
| 2    | Se 196.026 | 103.2         | 103.2               | 0 mg/L            |
| 2    | Tl 190.800 | 393.5         | 393.5               | 0 mg/L            |
| 2    | V 292.402  | -503.2        | -503.2              | 0 mg/L            |
| 2    | Zn 213.856 | -301.0        | -301.0              | 0 mg/L            |
| 3    | Ag 328.068 | 1708.1        | 1708.1              | 0 mg/L            |
| 3    | Al 308.215 | 3896.9        | 3896.9              | 0 mg/L            |
| 3    | As 188.979 | 125.4         | 125.4               | 0 mg/L            |
| 3    | Ba 233.527 | -966.4        | -966.4              | 0 mg/L            |
| 3    | Be 313.107 | -284.3        | -284.3              | 0 mg/L            |
| 3    | Ca 227.547 | 596.6         | 596.6               | 0 mg/L            |
| 3    | Cd 228.802 | 38.5          | 38.5                | 0 mg/L            |
| 3    | Co 228.616 | -563.2        | -563.2              | 0 mg/L            |
| 3    | Cr 267.716 | 107.0         | 107.0               | 0 mg/L            |
| 3    | Cu 324.754 | 3951.9        | 3951.9              | 0 mg/L            |
| 3    | Fe 273.955 | 18.6          | 18.6                | 0 mg/L            |



|              |        |        |        |
|--------------|--------|--------|--------|
| 3 K 766.491  | 1587.6 | 1587.6 | 0 mg/L |
| 3 Mg 279.079 | 2631.8 | 2631.8 | 0 mg/L |
| 3 Mn 257.610 | 1141.5 | 1141.5 | 0 mg/L |
| 3 Mo 202.030 | -156.5 | -156.5 | 0 mg/L |
| 3 Na 330.237 | 4436.7 | 4436.7 | 0 mg/L |
| 3 Ni 231.604 | -440.3 | -440.3 | 0 mg/L |
| 3 Pb 220.353 | 426.3  | 426.3  | 0 mg/L |
| 3 Sb 206.833 | 77.5   | 77.5   | 0 mg/L |
| 3 Se 196.026 | 112.1  | 112.1  | 0 mg/L |
| 3 Tl 190.800 | 388.1  | 388.1  | 0 mg/L |
| 3 V 292.402  | -380.8 | -380.8 | 0 mg/L |
| 3 Zn 213.856 | -341.1 | -341.1 | 0 mg/L |

ean Data

D: Calib Blank

Seq. No.: 1  
Data: Original

A/S Pos: 1  
Date: 5/19/03 10:32:03 AM

| Element   | Mean Intensity | Corr. Intensity | Std.Dev. | RSD    | Conc. | Calib Units |
|-----------|----------------|-----------------|----------|--------|-------|-------------|
| g 328.068 | 1706.0         |                 | 35.05    | 2.05%  | 0     | mg/L        |
| l 308.215 | 3820.9         |                 | 69.57    | 1.82%  | 0     | mg/L        |
| s 188.979 | 127.9          |                 | 4.50     | 3.52%  | 0     | mg/L        |
| a 233.527 | -1101.8        |                 | 122.16   | 11.09% | 0     | mg/L        |
| e 313.107 | -279.0         |                 | 41.18    | 14.76% | 0     | mg/L        |
| a 227.547 | 602.9          |                 | 13.01    | 2.16%  | 0     | mg/L        |
| d 228.802 | 50.0           |                 | 10.15    | 20.31% | 0     | mg/L        |
| c 228.616 | -570.3         |                 | 6.89     | 1.21%  | 0     | mg/L        |
| r 267.716 | 97.9           |                 | 18.52    | 18.91% | 0     | mg/L        |
| l 324.754 | 3752.5         |                 | 208.61   | 5.56%  | 0     | mg/L        |
| e 273.955 | 190.4          |                 | 164.39   | 86.33% | 0     | mg/L        |
| 766.491   | 1378.9         |                 | 400.09   | 29.02% | 0     | mg/L        |
| g 279.079 | 2867.6         |                 | 264.28   | 9.22%  | 0     | mg/L        |
| n 257.610 | 1068.4         |                 | 63.83    | 5.97%  | 0     | mg/L        |
| c 202.030 | -159.1         |                 | 5.89     | 3.70%  | 0     | mg/L        |
| a 330.237 | 4471.9         |                 | 123.13   | 2.75%  | 0     | mg/L        |
| i 231.604 | -426.2         |                 | 16.53    | 3.88%  | 0     | mg/L        |
| c 220.353 | 428.5          |                 | 7.38     | 1.72%  | 0     | mg/L        |
| c 206.833 | 81.0           |                 | 12.28    | 15.17% | 0     | mg/L        |
| e 196.026 | 110.5          |                 | 6.67     | 6.04%  | 0     | mg/L        |
| l 190.800 | 389.2          |                 | 3.85     | 0.99%  | 0     | mg/L        |
| 292.402   | -429.5         |                 | 64.92    | 15.12% | 0     | mg/L        |
| n 213.856 | -293.7         |                 | 51.38    | 17.49% | 0     | mg/L        |

uplicate Data

D: STD1 1423A

Date: 5/19/03 10:35:42 AM

| apl# Element | Net Intensity | Corrected Intensity | Conc.   | Calib Units |
|--------------|---------------|---------------------|---------|-------------|
| 1 Ag 328.068 | 347546.4      | 345840.3            | 2.0000  | mg/L        |
| 1 Al 308.215 | 297888.1      | 294067.2            | 10.00   | mg/L        |
| 1 As 188.979 | 3085.4        | 2957.5              | 1.000   | mg/L        |
| 1 Ba 233.527 | 3811265.2     | 3812367.1           | 10.0000 | mg/L        |
| 1 Be 313.107 | 2356504.0     | 2356783.0           | 1.00000 | mg/L        |
| 1 Ca 227.547 | 20402.3       | 19799.5             | 100.0   | mg/L        |
| 1 Cd 228.802 | 224482.8      | 224432.8            | 2.000   | mg/L        |
| 1 Co 228.616 | 362313.3      | 362883.7            | 4.0000  | mg/L        |
| 1 Cr 267.716 | 89344.1       | 89246.1             | 1.0000  | mg/L        |
| 1 Cu 324.754 | 1012148.7     | 1008396.2           | 4.0000  | mg/L        |
| 1 Fe 273.955 | 397118.5      | 396928.1            | 10.00   | mg/L        |
| 1 K 766.491  | 606303.1      | 604924.2            | 30.00   | mg/L        |
| 1 Mg 279.079 | 2030699.9     | 2027832.3           | 50.00   | mg/L        |
| 1 Mn 257.610 | 5120679.4     | 5119611.0           | 4.0000  | mg/L        |
| 1 Mo 202.030 | 64947.4       | 65106.6             | 4.000   | mg/L        |
| 1 Na 330.237 | 136010.8      | 131538.9            | 200.00  | mg/L        |
| 1 Ni 231.604 | 174368.7      | 174794.9            | 4.0000  | mg/L        |
| 1 Pb 220.353 | 16476.6       | 16048.1             | 1.000   | mg/L        |
| 1 Sb 206.833 | 15363.5       | 15282.6             | 4.000   | mg/L        |
| 1 Se 196.026 | 2598.1        | 2487.6              | 1.000   | mg/L        |
| 1 Tl 190.800 | 3943.6        | 3554.4              | 1.000   | mg/L        |
| 1 V 292.402  | 450499.7      | 450929.2            | 4.0000  | mg/L        |
| 1 Zn 213.856 | 397897.9      | 398191.6            | 4.000   | mg/L        |

|   |    |         |           |           |         |      |
|---|----|---------|-----------|-----------|---------|------|
| 2 | Ag | 328.068 | 353737.5  | 352031.5  | 2.0000  | mg/L |
| 2 | Al | 308.215 | 302145.9  | 298325.1  | 10.00   | mg/L |
| 2 | As | 188.979 | 3117.6    | 2989.7    | 1.000   | mg/L |
| 2 | Ba | 233.527 | 3669768.5 | 3670870.3 | 10.0000 | mg/L |
| 2 | Be | 313.107 | 2251876.8 | 2252155.7 | 1.00000 | mg/L |
| 2 | Ca | 227.547 | 20669.6   | 20066.7   | 100.0   | mg/L |
| 2 | Cd | 228.802 | 227294.3  | 227244.3  | 2.000   | mg/L |
| 2 | Co | 228.616 | 365745.5  | 366315.8  | 4.0000  | mg/L |
| 2 | Cr | 267.716 | 91282.7   | 91184.8   | 1.0000  | mg/L |
| 2 | Cu | 324.754 | 969502.2  | 965749.7  | 4.0000  | mg/L |
| 2 | Fe | 273.955 | 404888.5  | 404698.1  | 10.00   | mg/L |
| 2 | K  | 766.491 | 578819.0  | 577440.1  | 30.00   | mg/L |
| 2 | Mg | 279.079 | 1949043.6 | 1946176.1 | 50.00   | mg/L |
| 2 | Mn | 257.610 | 5015815.2 | 5014746.7 | 4.0000  | mg/L |
| 2 | Mo | 202.030 | 65762.0   | 65921.1   | 4.000   | mg/L |
| 2 | Na | 330.237 | 139362.9  | 134891.0  | 200.00  | mg/L |
| 2 | Ni | 231.604 | 175542.5  | 175968.7  | 4.0000  | mg/L |
| 2 | Pb | 220.353 | 16705.4   | 16277.0   | 1.000   | mg/L |
| 2 | Sb | 206.833 | 15447.8   | 15366.9   | 4.000   | mg/L |
| 2 | Se | 196.026 | 2635.6    | 2525.1    | 1.000   | mg/L |
| 2 | Tl | 190.800 | 4008.7    | 3619.5    | 1.000   | mg/L |
| 2 | V  | 292.402 | 433871.2  | 434300.7  | 4.0000  | mg/L |
| 2 | Zn | 213.856 | 403102.8  | 403396.5  | 4.000   | mg/L |
|   |    |         |           |           |         |      |
| 3 | Ag | 328.068 | 336843.9  | 335137.8  | 2.0000  | mg/L |
| 3 | Al | 308.215 | 288702.1  | 284881.2  | 10.00   | mg/L |
| 3 | As | 188.979 | 3096.2    | 2968.3    | 1.000   | mg/L |
| 3 | Ba | 233.527 | 3765826.4 | 3766928.2 | 10.0000 | mg/L |
| 3 | Be | 313.107 | 2309641.7 | 2309920.7 | 1.00000 | mg/L |
| 3 | Ca | 227.547 | 19709.1   | 19106.2   | 100.0   | mg/L |
| 3 | Cd | 228.802 | 216580.3  | 216530.3  | 2.000   | mg/L |
| 3 | Co | 228.616 | 349068.8  | 349639.2  | 4.0000  | mg/L |
| 3 | Cr | 267.716 | 86924.0   | 86826.0   | 1.0000  | mg/L |
| 3 | Cu | 324.754 | 996072.5  | 992320.0  | 4.0000  | mg/L |
| 3 | Fe | 273.955 | 387244.1  | 387053.7  | 10.00   | mg/L |
| 3 | K  | 766.491 | 589768.2  | 588389.3  | 30.00   | mg/L |
| 3 | Mg | 279.079 | 2000013.0 | 1997145.4 | 50.00   | mg/L |
| 3 | Mn | 257.610 | 5097914.5 | 5096846.1 | 4.0000  | mg/L |
| 3 | Mo | 202.030 | 63211.3   | 63370.4   | 4.000   | mg/L |
| 3 | Na | 330.237 | 132818.2  | 128346.4  | 200.00  | mg/L |
| 3 | Ni | 231.604 | 167730.3  | 168156.6  | 4.0000  | mg/L |
| 3 | Pb | 220.353 | 16014.3   | 15585.9   | 1.000   | mg/L |
| 3 | Sb | 206.833 | 15504.5   | 15423.5   | 4.000   | mg/L |
| 3 | Se | 196.026 | 2633.6    | 2523.1    | 1.000   | mg/L |
| 3 | Tl | 190.800 | 4030.1    | 3640.9    | 1.000   | mg/L |
| 3 | V  | 292.402 | 444716.1  | 445145.6  | 4.0000  | mg/L |
| 3 | Zn | 213.856 | 384430.0  | 384723.7  | 4.000   | mg/L |

ean Data

D: STD1 1423A

Seq. No.: 2

A/S Pos: 2

Data: Original

Date: 5/19/03

10:35:42 AM

| Element | Mean    | Corr. | Intensity | Std.Dev. | RSD   | Conc.   | Calib Units |
|---------|---------|-------|-----------|----------|-------|---------|-------------|
| y       | 328.068 |       | 344336.5  | 8546.64  | 2.48% | 2.0000  | mg/L        |
| l       | 308.215 |       | 292424.5  | 6870.83  | 2.35% | 10.00   | mg/L        |
| s       | 188.979 |       | 2971.9    | 16.38    | 0.55% | 1.000   | mg/L        |
| a       | 233.527 |       | 3750055.2 | 72241.64 | 1.93% | 10.0000 | mg/L        |
| e       | 313.107 |       | 2306286.5 | 52408.21 | 2.27% | 1.00000 | mg/L        |
| a       | 227.547 |       | 19657.5   | 495.75   | 2.52% | 100.0   | mg/L        |
| i       | 228.802 |       | 222735.8  | 5554.94  | 2.49% | 2.000   | mg/L        |
| o       | 228.616 |       | 359612.9  | 8806.31  | 2.45% | 4.0000  | mg/L        |
| c       | 267.716 |       | 89085.7   | 2183.81  | 2.45% | 1.0000  | mg/L        |
| l       | 324.754 |       | 988822.0  | 21537.36 | 2.18% | 4.0000  | mg/L        |
| e       | 273.955 |       | 396226.6  | 8843.10  | 2.23% | 10.00   | mg/L        |
|         | 766.491 |       | 590251.2  | 13836.34 | 2.34% | 30.00   | mg/L        |
| y       | 279.079 |       | 1990384.6 | 41245.82 | 2.07% | 50.00   | mg/L        |
| l       | 257.610 |       | 5077067.9 | 55158.95 | 1.09% | 4.0000  | mg/L        |
| o       | 202.030 |       | 64799.4   | 1302.82  | 2.01% | 4.000   | mg/L        |
| i       | 330.237 |       | 131592.1  | 3272.63  | 2.49% | 200.00  | mg/L        |
| i       | 231.604 |       | 172973.4  | 4212.57  | 2.44% | 4.0000  | mg/L        |

|           |          |         |       |             |
|-----------|----------|---------|-------|-------------|
| b 220.353 | 15970.3  | 352.05  | 2.20% | 1.000 mg/L  |
| b 206.833 | 15357.7  | 70.94   | 0.46% | 4.000 mg/L  |
| e 196.026 | 2511.9   | 21.10   | 0.84% | 1.000 mg/L  |
| l 190.800 | 3604.9   | 45.06   | 1.25% | 1.000 mg/L  |
| 292.402   | 443458.5 | 8441.64 | 1.90% | 4.0000 mg/L |
| n 213.856 | 395437.3 | 9636.30 | 2.44% | 4.000 mg/L  |

uplicate Data -----

D: STD2 1423B

Date: 5/19/03 10:39:25 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units |
|------|------------|---------------|---------------------|-------------------|
| 1    | Ag 328.068 | 173547.7      | 171841.7            | 1.0000 mg/L       |
| 1    | Al 308.215 | 153189.8      | 149368.9            | 5.000 mg/L        |
| 1    | As 188.979 | 1630.0        | 1502.1              | 0.500 mg/L        |
| 1    | Ba 233.527 | 1931905.2     | 1933007.1           | 5.0000 mg/L       |
| 1    | Be 313.107 | 1150271.6     | 1150550.6           | 0.50000 mg/L      |
| 1    | Ca 227.547 | 10574.2       | 9971.3              | 50.00 mg/L        |
| 1    | Cd 228.802 | 111967.3      | 111917.3            | 1.000 mg/L        |
| 1    | Co 228.616 | 183274.4      | 183844.7            | 2.0000 mg/L       |
| 1    | Cr 267.716 | 45683.4       | 45585.5             | 0.5000 mg/L       |
| 1    | Cu 324.754 | 501454.0      | 497701.5            | 2.0000 mg/L       |
| 1    | Fe 273.955 | 202928.8      | 202738.4            | 5.000 mg/L        |
| 1    | K 766.491  | 275514.6      | 274135.7            | 15.00 mg/L        |
| 1    | Mg 279.079 | 1017424.5     | 1014557.0           | 25.000 mg/L       |
| 1    | Mn 257.610 | 2654492.4     | 2653424.0           | 2.0000 mg/L       |
| 1    | Mo 202.030 | 32790.7       | 32949.9             | 2.000 mg/L        |
| 1    | Na 330.237 | 69162.6       | 64690.8             | 100.00 mg/L       |
| 1    | Ni 231.604 | 88257.0       | 88683.2             | 2.0000 mg/L       |
| 1    | Pb 220.353 | 8899.5        | 8471.0              | 0.500 mg/L        |
| 1    | Sb 206.833 | 7894.6        | 7813.7              | 2.000 mg/L        |
| 1    | Se 196.026 | 1415.3        | 1304.7              | 0.5000 mg/L       |
| 1    | Tl 190.800 | 2240.9        | 1851.7              | 0.500 mg/L        |
| 1    | V 292.402  | 225614.3      | 226043.8            | 2.0000 mg/L       |
| 1    | Zn 213.856 | 198463.5      | 198757.2            | 2.000 mg/L        |
| 2    | Ag 328.068 | 178642.3      | 176936.2            | 1.0000 mg/L       |
| 2    | Al 308.215 | 158027.7      | 154206.9            | 5.000 mg/L        |
| 2    | As 188.979 | 1637.1        | 1509.2              | 0.500 mg/L        |
| 2    | Ba 233.527 | 1988681.2     | 1989783.0           | 5.0000 mg/L       |
| 2    | Be 313.107 | 1186113.8     | 1186392.8           | 0.50000 mg/L      |
| 2    | Ca 227.547 | 10797.8       | 10194.9             | 50.00 mg/L        |
| 2    | Cd 228.802 | 115555.0      | 115505.0            | 1.000 mg/L        |
| 2    | Co 228.616 | 188821.1      | 189391.4            | 2.0000 mg/L       |
| 2    | Cr 267.716 | 46816.5       | 46718.5             | 0.5000 mg/L       |
| 2    | Cu 324.754 | 516527.2      | 512774.7            | 2.0000 mg/L       |
| 2    | Fe 273.955 | 208810.5      | 208620.0            | 5.000 mg/L        |
| 2    | K 766.491  | 271025.9      | 269647.0            | 15.00 mg/L        |
| 2    | Mg 279.079 | 1050041.0     | 1047173.4           | 25.000 mg/L       |
| 2    | Mn 257.610 | 2588124.7     | 2587056.3           | 2.0000 mg/L       |
| 2    | Mo 202.030 | 33895.6       | 34054.8             | 2.000 mg/L        |
| 2    | Na 330.237 | 71108.6       | 66636.7             | 100.00 mg/L       |
| 2    | Ni 231.604 | 90949.0       | 91375.2             | 2.0000 mg/L       |
| 2    | Pb 220.353 | 8862.4        | 8433.9              | 0.500 mg/L        |
| 2    | Sb 206.833 | 7872.3        | 7791.4              | 2.000 mg/L        |
| 2    | Se 196.026 | 1431.3        | 1320.8              | 0.5000 mg/L       |
| 2    | Tl 190.800 | 2255.9        | 1866.6              | 0.500 mg/L        |
| 2    | V 292.402  | 232112.6      | 232542.0            | 2.0000 mg/L       |
| 2    | Zn 213.856 | 205140.1      | 205433.9            | 2.000 mg/L        |
| 3    | Ag 328.068 | 177787.1      | 176081.0            | 1.0000 mg/L       |
| 3    | Al 308.215 | 158287.3      | 154466.5            | 5.000 mg/L        |
| 3    | As 188.979 | 1661.0        | 1533.1              | 0.500 mg/L        |
| 3    | Ba 233.527 | 1983054.3     | 1984156.1           | 5.0000 mg/L       |
| 3    | Be 313.107 | 1183537.4     | 1183816.3           | 0.50000 mg/L      |
| 3    | Ca 227.547 | 10897.9       | 10295.0             | 50.00 mg/L        |
| 3    | Cd 228.802 | 115475.7      | 115425.7            | 1.000 mg/L        |
| 3    | Co 228.616 | 188233.8      | 188804.1            | 2.0000 mg/L       |
| 3    | Cr 267.716 | 46959.1       | 46861.2             | 0.5000 mg/L       |
| 3    | Cu 324.754 | 515182.5      | 511430.0            | 2.0000 mg/L       |
| 3    | Fe 273.955 | 208657.4      | 208466.9            | 5.000 mg/L        |

|              |           |           |             |
|--------------|-----------|-----------|-------------|
| 3 K 766.491  | 268489.4  | 267110.4  | 15.00 mg/L  |
| 3 Mg 279.079 | 1047177.7 | 1044310.1 | 25.000 mg/L |
| 3 Mn 257.610 | 2614883.8 | 2613815.4 | 2.0000 mg/L |
| 3 Mo 202.030 | 33638.8   | 33797.9   | 2.000 mg/L  |
| 3 Na 330.237 | 71247.1   | 66775.2   | 100.00 mg/L |
| 3 Ni 231.604 | 90875.3   | 91301.5   | 2.0000 mg/L |
| 3 Pb 220.353 | 8927.1    | 8498.6    | 0.500 mg/L  |
| 3 Sb 206.833 | 7988.1    | 7907.1    | 2.000 mg/L  |
| 3 Se 196.026 | 1427.3    | 1316.7    | 0.5000 mg/L |
| 3 Tl 190.800 | 2277.0    | 1887.7    | 0.500 mg/L  |
| 3 V 292.402  | 231804.0  | 232233.5  | 2.0000 mg/L |
| 3 Zn 213.856 | 204719.0  | 205012.7  | 2.000 mg/L  |

ean Data

D: STD2 1423B

Seq. No.: 3  
Data: Original

A/S Pos: 3  
Date: 5/19/03 10:39:25 AM

| Element   | Mean Intensity | Corr. Intensity | Std.Dev. | RSD   | Conc.   | Calib Units |
|-----------|----------------|-----------------|----------|-------|---------|-------------|
| g 328.068 | 174953.0       |                 | 2728.18  | 1.56% | 1.0000  | mg/L        |
| l 308.215 | 152680.8       |                 | 2871.06  | 1.88% | 5.000   | mg/L        |
| s 188.979 | 1514.8         |                 | 16.27    | 1.07% | 0.500   | mg/L        |
| a 233.527 | 1968982.1      |                 | 31282.05 | 1.59% | 5.0000  | mg/L        |
| e 313.107 | 1173586.6      |                 | 19991.30 | 1.70% | 0.50000 | mg/L        |
| a 227.547 | 10153.7        |                 | 165.72   | 1.63% | 50.00   | mg/L        |
| d 228.802 | 114282.7       |                 | 2048.85  | 1.79% | 1.000   | mg/L        |
| c 228.616 | 187346.8       |                 | 3047.02  | 1.63% | 2.0000  | mg/L        |
| r 267.716 | 46388.4        |                 | 699.00   | 1.51% | 0.5000  | mg/L        |
| u 324.754 | 507302.0       |                 | 8341.46  | 1.64% | 2.0000  | mg/L        |
| e 273.955 | 206608.5       |                 | 3352.43  | 1.62% | 5.000   | mg/L        |
| 766.491   | 270297.7       |                 | 3557.57  | 1.32% | 15.00   | mg/L        |
| g 279.079 | 1035346.8      |                 | 18061.39 | 1.74% | 25.000  | mg/L        |
| n 257.610 | 2618098.5      |                 | 33390.54 | 1.28% | 2.0000  | mg/L        |
| c 202.030 | 33600.9        |                 | 578.21   | 1.72% | 2.000   | mg/L        |
| a 330.237 | 66034.2        |                 | 1165.53  | 1.77% | 100.00  | mg/L        |
| i 231.604 | 90453.3        |                 | 1533.42  | 1.70% | 2.0000  | mg/L        |
| c 220.353 | 8467.9         |                 | 32.47    | 0.38% | 0.500   | mg/L        |
| c 206.833 | 7837.4         |                 | 61.40    | 0.78% | 2.000   | mg/L        |
| e 196.026 | 1314.1         |                 | 8.35     | 0.64% | 0.5000  | mg/L        |
| l 190.800 | 1868.7         |                 | 18.10    | 0.97% | 0.500   | mg/L        |
| 292.402   | 230273.1       |                 | 3665.96  | 1.59% | 2.0000  | mg/L        |
| n 213.856 | 203067.9       |                 | 3739.12  | 1.84% | 2.000   | mg/L        |

uplicate Data

D: STD3 1423C

Date: 5/19/03 10:43:01 AM

| Element      | Net Intensity | Corrected Intensity | Conc.   | Calib Units |
|--------------|---------------|---------------------|---------|-------------|
| 1 Ag 328.068 | 94709.2       | 93003.2             | 0.5000  | mg/L        |
| 1 Al 308.215 | 85818.6       | 81997.8             | 2.500   | mg/L        |
| 1 As 188.979 | 891.5         | 763.6               | 0.250   | mg/L        |
| 1 Ba 233.527 | 1040060.5     | 1041162.3           | 2.5000  | mg/L        |
| 1 Be 313.107 | 609090.4      | 609369.4            | 0.25000 | mg/L        |
| 1 Ca 227.547 | 6002.4        | 5399.5              | 25.00   | mg/L        |
| 1 Cd 228.802 | 60648.1       | 60598.1             | 0.500   | mg/L        |
| 1 Co 228.616 | 100459.4      | 101029.7            | 1.0000  | mg/L        |
| 1 Cr 267.716 | 24905.7       | 24807.8             | 0.2500  | mg/L        |
| 1 Cu 324.754 | 274207.6      | 270455.1            | 1.0000  | mg/L        |
| 1 Fe 273.955 | 110535.4      | 110344.9            | 2.500   | mg/L        |
| 1 K 766.491  | 124644.5      | 123265.6            | 7.500   | mg/L        |
| 1 Mg 279.079 | 549136.4      | 546268.8            | 12.500  | mg/L        |
| 1 Mn 257.610 | 1366424.4     | 1365356.0           | 1.0000  | mg/L        |
| 1 Mo 202.030 | 17290.4       | 17449.5             | 1.000   | mg/L        |
| 1 Na 330.237 | 38440.9       | 33969.0             | 50.00   | mg/L        |
| 1 Ni 231.604 | 48302.9       | 48729.2             | 1.0000  | mg/L        |
| 1 Pb 220.353 | 4789.2        | 4360.7              | 0.250   | mg/L        |
| 1 Sb 206.833 | 4130.3        | 4049.3              | 1.000   | mg/L        |
| 1 Se 196.026 | 777.8         | 667.3               | 0.250   | mg/L        |
| 1 Tl 190.800 | 1352.2        | 963.0               | 0.250   | mg/L        |
| 1 V 292.402  | 121796.3      | 122225.8            | 1.0000  | mg/L        |
| 1 Zn 213.856 | 107410.0      | 107703.7            | 1.000   | mg/L        |

|   |    |         |           |           |         |      |
|---|----|---------|-----------|-----------|---------|------|
| 2 | Ag | 328.068 | 93478.6   | 91772.6   | 0.5000  | mg/L |
| 2 | Al | 308.215 | 84928.3   | 81107.5   | 2.500   | mg/L |
| 2 | As | 188.979 | 906.0     | 778.1     | 0.250   | mg/L |
| 2 | Ba | 233.527 | 1045557.3 | 1046659.1 | 2.5000  | mg/L |
| 2 | Be | 313.107 | 613592.9  | 613871.9  | 0.25000 | mg/L |
| 2 | Ca | 227.547 | 5981.6    | 5378.7    | 25.00   | mg/L |
| 2 | Cd | 228.802 | 60161.5   | 60111.5   | 0.500   | mg/L |
| 2 | Co | 228.616 | 98773.2   | 99343.5   | 1.0000  | mg/L |
| 2 | Cr | 267.716 | 24394.1   | 24296.2   | 0.2500  | mg/L |
| 2 | Cu | 324.754 | 270830.1  | 267077.6  | 1.0000  | mg/L |
| 2 | Fe | 273.955 | 109399.7  | 109209.3  | 2.500   | mg/L |
| 2 | K  | 766.491 | 125730.4  | 124351.5  | 7.500   | mg/L |
| 2 | Mg | 279.079 | 552502.6  | 549635.0  | 12.500  | mg/L |
| 2 | Mn | 257.610 | 1372737.2 | 1371668.8 | 1.0000  | mg/L |
| 2 | Mo | 202.030 | 17266.4   | 17425.6   | 1.000   | mg/L |
| 2 | Na | 330.237 | 38005.6   | 33533.8   | 50.00   | mg/L |
| 2 | Ni | 231.604 | 47599.3   | 48025.6   | 1.0000  | mg/L |
| 2 | Pb | 220.353 | 4772.2    | 4343.8    | 0.250   | mg/L |
| 2 | Sb | 206.833 | 4110.4    | 4029.5    | 1.000   | mg/L |
| 2 | Se | 196.026 | 784.8     | 674.2     | 0.250   | mg/L |
| 2 | Tl | 190.800 | 1354.2    | 965.0     | 0.250   | mg/L |
| 2 | V  | 292.402 | 120254.5  | 120683.9  | 1.0000  | mg/L |
| 2 | Zn | 213.856 | 106215.0  | 106508.7  | 1.000   | mg/L |

|   |    |         |           |           |         |      |
|---|----|---------|-----------|-----------|---------|------|
| 3 | Ag | 328.068 | 93139.1   | 91433.0   | 0.5000  | mg/L |
| 3 | Al | 308.215 | 84487.0   | 80666.1   | 2.500   | mg/L |
| 3 | As | 188.979 | 910.0     | 782.1     | 0.250   | mg/L |
| 3 | Ba | 233.527 | 1025326.9 | 1026428.7 | 2.5000  | mg/L |
| 3 | Be | 313.107 | 601891.9  | 602170.9  | 0.25000 | mg/L |
| 3 | Ca | 227.547 | 5993.2    | 5390.3    | 25.00   | mg/L |
| 3 | Cd | 228.802 | 59959.1   | 59909.1   | 0.500   | mg/L |
| 3 | Co | 228.616 | 98257.7   | 98828.0   | 1.0000  | mg/L |
| 3 | Cr | 267.716 | 24316.7   | 24218.8   | 0.2500  | mg/L |
| 3 | Cu | 324.754 | 270783.4  | 267030.9  | 1.0000  | mg/L |
| 3 | Fe | 273.955 | 108447.7  | 108257.3  | 2.500   | mg/L |
| 3 | K  | 766.491 | 124099.2  | 122720.3  | 7.500   | mg/L |
| 3 | Mg | 279.079 | 542361.2  | 539493.6  | 12.500  | mg/L |
| 3 | Mn | 257.610 | 1346252.9 | 1345184.4 | 1.0000  | mg/L |
| 3 | Mo | 202.030 | 17322.6   | 17481.7   | 1.000   | mg/L |
| 3 | Na | 330.237 | 37660.9   | 33189.1   | 50.00   | mg/L |
| 3 | Ni | 231.604 | 47205.9   | 47632.1   | 1.0000  | mg/L |
| 3 | Pb | 220.353 | 4785.2    | 4356.8    | 0.250   | mg/L |
| 3 | Sb | 206.833 | 4119.8    | 4038.9    | 1.000   | mg/L |
| 3 | Se | 196.026 | 795.1     | 684.6     | 0.250   | mg/L |
| 3 | Tl | 190.800 | 1335.6    | 946.3     | 0.250   | mg/L |
| 3 | V  | 292.402 | 119504.8  | 119934.3  | 1.0000  | mg/L |
| 3 | Zn | 213.856 | 106246.2  | 106539.9  | 1.000   | mg/L |

ean Data

STD3 1423C

Seq. No.: 4

A/S Pos: 4

Data: Original

Date: 5/19/03

10:43:01 AM

| Element | Mean    | Corr. | Intensity | Std.Dev. | RSD   | Conc.   | Calib | Units |
|---------|---------|-------|-----------|----------|-------|---------|-------|-------|
| Ag      | 328.068 |       | 92069.6   | 826.16   | 0.90% | 0.5000  | mg/L  |       |
| Al      | 308.215 |       | 81257.1   | 678.34   | 0.83% | 2.500   | mg/L  |       |
| As      | 188.979 |       | 774.6     | 9.71     | 1.25% | 0.250   | mg/L  |       |
| Ba      | 233.527 |       | 1038083.4 | 10460.72 | 1.01% | 2.5000  | mg/L  |       |
| Be      | 313.107 |       | 608470.7  | 5902.06  | 0.97% | 0.25000 | mg/L  |       |
| Ca      | 227.547 |       | 5389.5    | 10.42    | 0.19% | 25.00   | mg/L  |       |
| Cd      | 228.802 |       | 60206.2   | 354.11   | 0.59% | 0.500   | mg/L  |       |
| Co      | 228.616 |       | 99733.8   | 1151.56  | 1.15% | 1.0000  | mg/L  |       |
| Cr      | 267.716 |       | 24440.9   | 320.05   | 1.31% | 0.2500  | mg/L  |       |
| Cu      | 324.754 |       | 268187.9  | 1963.58  | 0.73% | 1.0000  | mg/L  |       |
| Fe      | 273.955 |       | 109270.5  | 1045.16  | 0.96% | 2.500   | mg/L  |       |
| K       | 766.491 |       | 123445.8  | 830.36   | 0.67% | 7.500   | mg/L  |       |
| Mg      | 279.079 |       | 545132.5  | 5165.31  | 0.95% | 12.500  | mg/L  |       |
| Mn      | 257.610 |       | 1360736.4 | 13833.32 | 1.02% | 1.0000  | mg/L  |       |
| Mo      | 202.030 |       | 17452.3   | 28.18    | 0.16% | 1.000   | mg/L  |       |
| Na      | 330.237 |       | 33564.0   | 390.86   | 1.16% | 50.00   | mg/L  |       |
| Ni      | 231.604 |       | 48129.0   | 555.77   | 1.15% | 1.0000  | mg/L  |       |

|           |          |         |       |             |
|-----------|----------|---------|-------|-------------|
| b 220.353 | 4353.8   | 8.87    | 0.20% | 0.250 mg/L  |
| b 206.833 | 4039.2   | 9.92    | 0.25% | 1.000 mg/L  |
| e 196.026 | 675.4    | 8.70    | 1.29% | 0.250 mg/L  |
| l 190.800 | 958.1    | 10.25   | 1.07% | 0.250 mg/L  |
| 292.402   | 120948.0 | 1168.34 | 0.97% | 1.0000 mg/L |
| n 213.856 | 106917.4 | 681.13  | 0.64% | 1.000 mg/L  |

alibration Summary

ethod: 23ME ICP-M

Date: 5/19/03 10:44:05 AM

| Element   | Stds | Equation         | Intercept | Slope     | Curvature | Corr. Coeff. |
|-----------|------|------------------|-----------|-----------|-----------|--------------|
| g 328.068 | 3    | Linear-thru-Zero | 0.0       | 173268.7  | 0.00000   | 0.999717     |
| l 308.215 | 3    | Linear-thru-Zero | 0.0       | 29644.1   | 0.00000   | 0.999093     |
| a 188.979 | 3    | Linear-thru-Zero | 0.0       | 2988.9    | 0.00000   | 0.999851     |
| a 233.527 | 3    | Linear-thru-Zero | 0.0       | 380500.3  | 0.00000   | 0.999054     |
| a 313.107 | 3    | Linear-thru-Zero | 0.0       | 2320150.4 | 0.00000   | 0.999799     |
| a 227.547 | 3    | Linear-thru-Zero | 0.0       | 198.7     | 0.00000   | 0.999372     |
| d 228.802 | 3    | Linear-thru-Zero | 0.0       | 112353.8  | 0.00000   | 0.999568     |
| c 228.616 | 3    | Linear-thru-Zero | 0.0       | 91089.5   | 0.00000   | 0.999146     |
| r 267.716 | 3    | Linear-thru-Zero | 0.0       | 90202.0   | 0.00000   | 0.999272     |
| r 324.754 | 3    | Linear-thru-Zero | 0.0       | 249432.4  | 0.00000   | 0.999539     |
| a 273.955 | 3    | Linear-thru-Zero | 0.0       | 40140.8   | 0.00000   | 0.999198     |
| 766.491   | 3    | Non-Linear       | -1199.1   | 16151.5   | 119.22867 | 0.998501     |
| g 279.079 | 3    | Linear-thru-Zero | 0.0       | 40294.7   | 0.00000   | 0.999303     |
| r 257.610 | 3    | Linear-thru-Zero | 0.0       | 1281200.2 | 0.00000   | 0.999592     |
| c 202.030 | 3    | Linear-thru-Zero | 0.0       | 16373.9   | 0.00000   | 0.999494     |
| a 330.237 | 3    | Non-Linear       | 106.3     | 665.6     | -0.04154  | 0.999986     |
| i 231.604 | 3    | Linear-thru-Zero | 0.0       | 43853.8   | 0.00000   | 0.999055     |
| c 220.353 | 3    | Linear-thru-Zero | 0.0       | 16223.0   | 0.00000   | 0.999028     |
| c 206.833 | 3    | Linear-thru-Zero | 0.0       | 3864.0    | 0.00000   | 0.999800     |
| a 196.026 | 3    | Linear-thru-Zero | 0.0       | 2543.1    | 0.00000   | 0.999385     |
| l 190.800 | 3    | Linear-thru-Zero | 0.0       | 3641.0    | 0.00000   | 0.999592     |
| 292.402   | 3    | Linear-thru-Zero | 0.0       | 112158.5  | 0.00000   | 0.999366     |
| r 213.856 | 3    | Linear-thru-Zero | 0.0       | 99752.5   | 0.00000   | 0.999559     |

uplicate Data

): ICV 1447A

Date: 5/19/03 10:46:46 AM

| Sample# | Element    | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---------|------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1       | Ag 328.068 | 341452.1      | 339746.0            | 1.961       | mg/L  |              |       |
| 1       | Al 308.215 | 294610.4      | 290789.5            | 9.809       | mg/L  |              |       |
| 1       | As 188.979 | 2971.0        | 2843.1              | 0.9620      | mg/L  |              |       |
| 1       | Ba 233.527 | 3778182.4     | 3779284.2           | 9.932       | mg/L  |              |       |
| 1       | Be 313.107 | 2291568.4     | 2291847.4           | 0.9878      | mg/L  |              |       |
| 1       | Ca 227.547 | 19976.1       | 19373.2             | 97.49       | mg/L  |              |       |
| 1       | Cd 228.802 | 217662.1      | 217612.1            | 1.937       | mg/L  |              |       |
| 1       | Co 228.616 | 352113.5      | 352683.8            | 3.872       | mg/L  |              |       |
| 1       | Cr 267.716 | 88492.4       | 88394.5             | 0.9800      | mg/L  |              |       |
| 1       | Cu 324.754 | 988732.5      | 984980.0            | 3.949       | mg/L  |              |       |
| 1       | Fe 273.955 | 395068.7      | 394878.2            | 9.837       | mg/L  |              |       |
| 1       | K 766.491  | 599385.1      | 598006.2            | 30.32       | mg/L  |              |       |
| 1       | Mg 279.079 | 1992361.4     | 1989493.8           | 49.37       | mg/L  |              |       |
| 1       | Mn 257.610 | 5075490.9     | 5074422.5           | 3.961       | mg/L  |              |       |
| 1       | Mo 202.030 | 63777.6       | 63936.7             | 3.905       | mg/L  |              |       |
| 1       | Na 330.237 | 136084.4      | 131612.5            | 200.1       | mg/L  |              |       |
| 1       | Ni 231.604 | 168442.8      | 168869.1            | 3.851       | mg/L  |              |       |
| 1       | Pb 220.353 | 16142.3       | 15713.8             | 0.9686      | mg/L  |              |       |
| 1       | Sb 206.833 | 14993.2       | 14912.3             | 3.831       | mg/L  |              |       |
| 1       | Se 196.026 | 2589.4        | 2478.9              | 0.9762      | mg/L  |              |       |
| 1       | Tl 190.800 | 3841.7        | 3452.5              | 0.9444      | mg/L  |              |       |
| 1       | V 292.402  | 446931.9      | 447361.4            | 3.989       | mg/L  |              |       |
| 1       | Zn 213.856 | 386859.1      | 387152.8            | 3.881       | mg/L  |              |       |
| 2       | Ag 328.068 | 352051.6      | 350345.5            | 2.022       | mg/L  |              |       |
| 2       | Al 308.215 | 301708.2      | 297887.3            | 10.05       | mg/L  |              |       |
| 2       | As 188.979 | 2970.9        | 2843.0              | 0.9623      | mg/L  |              |       |
| 2       | Ba 233.527 | 3796858.1     | 3797960.0           | 9.981       | mg/L  |              |       |
| 2       | Be 313.107 | 2299055.6     | 2299334.6           | 0.9910      | mg/L  |              |       |

|   |    |         |           |           |             |
|---|----|---------|-----------|-----------|-------------|
| 2 | Ca | 227.547 | 20743.1   | 20140.2   | 101.4 mg/L  |
| 2 | Cd | 228.802 | 223907.1  | 223857.1  | 1.992 mg/L  |
| 2 | Co | 228.616 | 361932.9  | 362503.3  | 3.980 mg/L  |
| 2 | Cr | 267.716 | 90944.5   | 90846.6   | 1.007 mg/L  |
| 2 | Cu | 324.754 | 992245.3  | 988492.8  | 3.963 mg/L  |
| 2 | Fe | 273.955 | 406722.9  | 406532.4  | 10.13 mg/L  |
| 2 | K  | 766.491 | 594353.5  | 592974.6  | 30.10 mg/L  |
| 2 | Mg | 279.079 | 1999818.0 | 1996950.5 | 49.56 mg/L  |
| 2 | Mn | 257.610 | 5040763.1 | 5039694.7 | 3.934 mg/L  |
| 2 | Mo | 202.030 | 65566.4   | 65725.5   | 4.014 mg/L  |
| 2 | Na | 330.237 | 140340.9  | 135869.0  | 206.6 mg/L  |
| 2 | Ni | 231.604 | 173292.4  | 173718.7  | 3.961 mg/L  |
| 2 | Pb | 220.353 | 16471.2   | 16042.8   | 0.9889 mg/L |
| 2 | Sb | 206.833 | 15044.0   | 14963.0   | 3.843 mg/L  |
| 2 | Se | 196.026 | 2594.5    | 2484.0    | 0.9783 mg/L |
| 2 | Tl | 190.800 | 3888.9    | 3499.7    | 0.9573 mg/L |
| 2 | V  | 292.402 | 448249.5  | 448679.0  | 4.000 mg/L  |
| 2 | Zn | 213.856 | 398571.0  | 398864.8  | 3.999 mg/L  |
| 3 | Ag | 328.068 | 347167.6  | 345461.5  | 1.994 mg/L  |
| 3 | Al | 308.215 | 299365.9  | 295545.0  | 9.970 mg/L  |
| 3 | As | 188.979 | 3027.2    | 2899.3    | 0.9810 mg/L |
| 3 | Ba | 233.527 | 3975334.0 | 3976435.9 | 10.45 mg/L  |
| 3 | Be | 313.107 | 2410853.6 | 2411132.5 | 1.039 mg/L  |
| 3 | Ca | 227.547 | 20386.6   | 19783.7   | 99.56 mg/L  |
| 3 | Cd | 228.802 | 220836.5  | 220786.5  | 1.965 mg/L  |
| 3 | Co | 228.616 | 357207.9  | 357778.3  | 3.928 mg/L  |
| 3 | Cr | 267.716 | 89757.4   | 89659.5   | 0.9940 mg/L |
| 3 | Cu | 324.754 | 1040954.7 | 1037202.2 | 4.158 mg/L  |
| 3 | Fe | 273.955 | 400542.3  | 400351.8  | 9.974 mg/L  |
| 3 | K  | 766.491 | 587733.6  | 586354.7  | 29.82 mg/L  |
| 3 | Mg | 279.079 | 2096548.1 | 2093680.5 | 51.96 mg/L  |
| 3 | Mn | 257.610 | 4994585.7 | 4993517.3 | 3.898 mg/L  |
| 3 | Mo | 202.030 | 64716.2   | 64875.4   | 3.962 mg/L  |
| 3 | Na | 330.237 | 137997.8  | 133525.9  | 203.0 mg/L  |
| 3 | Ni | 231.604 | 170902.6  | 171328.8  | 3.907 mg/L  |
| 3 | Pb | 220.353 | 16364.9   | 15936.4   | 0.9823 mg/L |
| 3 | Sb | 206.833 | 15347.1   | 15266.2   | 3.922 mg/L  |
| 3 | Se | 196.026 | 2630.1    | 2519.6    | 0.9923 mg/L |
| 3 | Tl | 190.800 | 3952.5    | 3563.2    | 0.9747 mg/L |
| 3 | V  | 292.402 | 468660.4  | 469089.9  | 4.182 mg/L  |
| 3 | Zn | 213.856 | 393034.1  | 393327.8  | 3.943 mg/L  |

Mean Data

ICV 1447A  
 Sample Qty: 1.0000 g  
 Seq. No.: 5  
 Prep. Vol.:  
 Data: Original  
 Sample No.: 1  
 1.0 L  
 A/S Pos: 5  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 10:46:46 AM

| Element | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|---------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Ag      | 345184.4             | 1.992      | 0.0306   | mg/L        |            |          |              | 1.54% |
| Al      | 294740.6             | 9.943      | 0.1220   | mg/L        |            |          |              | 1.23% |
| As      | 2861.8               | 0.9685     | 0.01087  | mg/L        |            |          |              | 1.12% |
| Ba      | 3851226.7            | 10.12      | 0.286    | mg/L        |            |          |              | 2.83% |
| Be      | 2334104.8            | 1.006      | 0.0288   | mg/L        |            |          |              | 2.86% |
| Ca      | 19765.7              | 99.47      | 1.932    | mg/L        |            |          |              | 1.94% |
| Cd      | 220751.9             | 1.965      | 0.0278   | mg/L        |            |          |              | 1.41% |
| Co      | 357655.1             | 3.926      | 0.0539   | mg/L        |            |          |              | 1.37% |
| Cr      | 89633.5              | 0.9937     | 0.01359  | mg/L        |            |          |              | 1.37% |
| Cu      | 1003558.3            | 4.023      | 0.1170   | mg/L        |            |          |              | 2.91% |
| Fe      | 400587.5             | 9.980      | 0.1453   | mg/L        |            |          |              | 1.46% |
| K       | 592445.1             | 30.08      | 0.251    | mg/L        |            |          |              | 0.83% |
| Mg      | 2026708.3            | 50.30      | 1.442    | mg/L        |            |          |              | 2.87% |
| Mn      | 5035878.1            | 3.931      | 0.0317   | mg/L        |            |          |              | 0.81% |
| Mo      | 64845.9              | 3.960      | 0.0546   | mg/L        |            |          |              | 1.38% |
| Na      | 133669.2             | 203.3      | 3.29     | mg/L        |            |          |              | 1.62% |
| Ni      | 171305.5             | 3.906      | 0.0553   | mg/L        |            |          |              | 1.42% |
| Pb      | 15897.7              | 0.9799     | 0.01035  | mg/L        |            |          |              | 1.06% |
| Sb      | 15047.1              | 3.865      | 0.0495   | mg/L        |            |          |              | 1.28% |
| Se      | 2494.1               | 0.9823     | 0.00872  | mg/L        |            |          |              | 0.89% |
| Tl      | 3505.1               | 0.9588     | 0.01522  | mg/L        |            |          |              | 1.59% |
| V       | 455043.4             | 4.057      | 0.1086   | mg/L        |            |          |              | 2.68% |

n 213.856 393115.1 3.941 0.0587 mg/L 1.49%

uplicate Data

D: ICB

Date: 5/19/03 10:50:22 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 1734.5        | 28.4                | 0.0002 mg/L       |                    |
| 1    | Al 308.215 | 3714.4        | -106.5              | -0.0036 mg/L      |                    |
| 1    | As 188.979 | 135.7         | 7.8                 | 0.0026 mg/L       |                    |
| 1    | Ba 233.527 | -298.1        | 803.7               | 0.0021 mg/L       |                    |
| 1    | Be 313.107 | 2003.2        | 2282.2              | 0.0010 mg/L       |                    |
| 1    | Ca 227.547 | 640.0         | 37.1                | 0.1869 mg/L       |                    |
| 1    | Cd 228.802 | 40.7          | -9.3                | -0.0001 mg/L      |                    |
| 1    | Co 228.616 | -441.3        | 129.1               | 0.0014 mg/L       |                    |
| 1    | Cr 267.716 | 123.6         | 25.7                | 0.0003 mg/L       |                    |
| 1    | Cu 324.754 | 3812.3        | 59.8                | 0.0002 mg/L       |                    |
| 1    | Fe 273.955 | 224.2         | 33.7                | 0.0008 mg/L       |                    |
| 1    | K 766.491  | 1365.3        | -13.6               | 0.0734 mg/L       |                    |
| 1    | Mg 279.079 | 2052.1        | -815.5              | -0.0202 mg/L      |                    |
| 1    | Mn 257.610 | 3397.4        | 2329.0              | 0.0018 mg/L       |                    |
| 1    | Mo 202.030 | -89.4         | 69.8                | 0.0043 mg/L       |                    |
| 1    | Na 330.237 | 4569.6        | 97.7                | -0.0129 mg/L      |                    |
| 1    | Ni 231.604 | -347.1        | 79.1                | 0.0018 mg/L       |                    |
| 1    | Pb 220.353 | 411.3         | -17.2               | -0.0011 mg/L      |                    |
| 1    | Sb 206.833 | 83.3          | 2.3                 | 0.0006 mg/L       |                    |
| 1    | Se 196.026 | 109.5         | -1.0                | -0.0004 mg/L      |                    |
| 1    | Tl 190.800 | 378.2         | -11.1               | -0.0030 mg/L      |                    |
| 1    | V 292.402  | -208.5        | 221.0               | 0.0020 mg/L       |                    |
| 1    | Zn 213.856 | -241.4        | 52.4                | 0.0005 mg/L       |                    |
| 2    | Ag 328.068 | 1871.4        | 165.3               | 0.0010 mg/L       |                    |
| 2    | Al 308.215 | 3918.2        | 97.3                | 0.0033 mg/L       |                    |
| 2    | As 188.979 | 132.3         | 4.4                 | 0.0015 mg/L       |                    |
| 2    | Ba 233.527 | -487.5        | 614.3               | 0.0016 mg/L       |                    |
| 2    | Be 313.107 | 1755.6        | 2034.5              | 0.0009 mg/L       |                    |
| 2    | Ca 227.547 | 651.0         | 48.1                | 0.2421 mg/L       |                    |
| 2    | Cd 228.802 | 47.6          | -2.4                | 0.0000 mg/L       |                    |
| 2    | Co 228.616 | -456.8        | 113.5               | 0.0012 mg/L       |                    |
| 2    | Cr 267.716 | 81.2          | -16.7               | -0.0002 mg/L      |                    |
| 2    | Cu 324.754 | 3605.2        | -147.3              | -0.0006 mg/L      |                    |
| 2    | Fe 273.955 | 144.5         | -45.9               | -0.0011 mg/L      |                    |
| 2    | K 766.491  | 1861.4        | 482.5               | 0.1040 mg/L       |                    |
| 2    | Mg 279.079 | 1992.6        | -875.0              | -0.0217 mg/L      |                    |
| 2    | Mn 257.610 | 2964.6        | 1896.2              | 0.0015 mg/L       |                    |
| 2    | Mo 202.030 | -103.9        | 55.2                | 0.0034 mg/L       |                    |
| 2    | Na 330.237 | 4967.9        | 496.1               | 0.5856 mg/L       |                    |
| 2    | Ni 231.604 | -366.2        | 60.0                | 0.0014 mg/L       |                    |
| 2    | Pb 220.353 | 423.5         | -4.9                | -0.0003 mg/L      |                    |
| 2    | Sb 206.833 | 93.7          | 12.7                | 0.0033 mg/L       |                    |
| 2    | Se 196.026 | 102.6         | -8.0                | -0.0031 mg/L      |                    |
| 2    | Tl 190.800 | 378.1         | -11.1               | -0.0031 mg/L      |                    |
| 2    | V 292.402  | -341.4        | 88.1                | 0.0008 mg/L       |                    |
| 2    | Zn 213.856 | -301.1        | -7.4                | -0.0001 mg/L      |                    |
| 3    | Ag 328.068 | 1583.6        | -122.5              | -0.0007 mg/L      |                    |
| 3    | Al 308.215 | 3765.9        | -55.0               | -0.0019 mg/L      |                    |
| 3    | As 188.979 | 131.0         | 3.2                 | 0.0011 mg/L       |                    |
| 3    | Ba 233.527 | -724.9        | 376.9               | 0.0010 mg/L       |                    |
| 3    | Be 313.107 | 1576.2        | 1855.1              | 0.0008 mg/L       |                    |
| 3    | Ca 227.547 | 632.9         | 30.1                | 0.1513 mg/L       |                    |
| 3    | Cd 228.802 | 38.4          | -11.6               | -0.0001 mg/L      |                    |
| 3    | Co 228.616 | -466.2        | 104.1               | 0.0011 mg/L       |                    |
| 3    | Cr 267.716 | 93.3          | -4.7                | -0.0001 mg/L      |                    |
| 3    | Cu 324.754 | 3632.7        | -119.8              | -0.0005 mg/L      |                    |
| 3    | Fe 273.955 | 235.8         | 45.4                | 0.0011 mg/L       |                    |
| 3    | K 766.491  | 1312.1        | -66.8               | 0.0701 mg/L       |                    |
| 3    | Mg 279.079 | 1669.5        | -1198.1             | -0.0297 mg/L      |                    |
| 3    | Mn 257.610 | 2626.8        | 1558.4              | 0.0012 mg/L       |                    |
| 3    | Mo 202.030 | -108.6        | 50.5                | 0.0031 mg/L       |                    |
| 3    | Na 330.237 | 4702.7        | 230.9               | 0.1872 mg/L       |                    |



|              |        |       |              |
|--------------|--------|-------|--------------|
| 3 Ni 231.604 | -356.9 | 69.3  | 0.0016 mg/L  |
| 3 Pb 220.353 | 411.3  | -17.2 | -0.0011 mg/L |
| 3 Sb 206.833 | 85.7   | 4.8   | 0.0012 mg/L  |
| 3 Se 196.026 | 92.9   | -17.7 | -0.0069 mg/L |
| 3 Tl 190.800 | 376.9  | -12.4 | -0.0034 mg/L |
| 3 V 292.402  | -389.0 | 40.5  | 0.0004 mg/L  |
| 3 Zn 213.856 | -329.5 | -35.8 | -0.0004 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: 5/19/03  | 10:50:22 AM |

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| g 328.068 | 23.8                 | 0.0001     | 0.00083  | mg/L        |            |          |              | 606.10% |
| l 308.215 | -21.4                | -0.0007    | 0.00357  | mg/L        |            |          |              | 495.47% |
| s 188.979 | 5.1                  | 0.0017     | 0.00080  | mg/L        |            |          |              | 46.65%  |
| a 233.527 | 598.3                | 0.0016     | 0.00056  | mg/L        |            |          |              | 35.74%  |
| e 313.107 | 2057.3               | 0.0009     | 0.00009  | mg/L        |            |          |              | 10.42%  |
| a 227.547 | 38.4                 | 0.1934     | 0.04575  | mg/L        |            |          |              | 23.66%  |
| d 228.802 | -7.8                 | -0.0001    | 0.00004  | mg/L        |            |          |              | 61.31%  |
| o 228.616 | 115.6                | 0.0013     | 0.00014  | mg/L        |            |          |              | 10.90%  |
| r 267.716 | 1.4                  | 0.0000     | 0.00024  | mg/L        |            |          |              | >999.9% |
| u 324.754 | -69.1                | -0.0003    | 0.00045  | mg/L        |            |          |              | 162.84% |
| e 273.955 | 11.1                 | 0.0003     | 0.00124  | mg/L        |            |          |              | 449.09% |
| 766.491   | 134.0                | 0.0825     | 0.01873  | mg/L        |            |          |              | 22.71%  |
| g 279.079 | -962.8               | -0.0239    | 0.00511  | mg/L        |            |          |              | 21.38%  |
| n 257.610 | 1927.9               | 0.0015     | 0.00030  | mg/L        |            |          |              | 20.04%  |
| o 202.030 | 58.5                 | 0.0036     | 0.00061  | mg/L        |            |          |              | 17.13%  |
| a 330.237 | 274.9                | 0.2533     | 0.30467  | mg/L        |            |          |              | 120.28% |
| i 231.604 | 69.5                 | 0.0016     | 0.00022  | mg/L        |            |          |              | 13.77%  |
| b 220.353 | -13.1                | -0.0008    | 0.00044  | mg/L        |            |          |              | 54.06%  |
| b 206.833 | 6.6                  | 0.0017     | 0.00141  | mg/L        |            |          |              | 82.40%  |
| e 196.026 | -8.9                 | -0.0035    | 0.00329  | mg/L        |            |          |              | 94.31%  |
| l 190.800 | -11.5                | -0.0032    | 0.00020  | mg/L        |            |          |              | 6.39%   |
| 292.402   | 116.5                | 0.0010     | 0.00083  | mg/L        |            |          |              | 80.28%  |
| n 213.856 | 3.1                  | 0.0000     | 0.00045  | mg/L        |            |          |              | >999.9% |

uplicate Data

|              |               |             |
|--------------|---------------|-------------|
| D: CRI A1432 | Date: 5/19/03 | 10:53:43 AM |
|--------------|---------------|-------------|

| Element      | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|--------------|---------------|---------------------|-------------------|--------------------|
| 1 Ag 328.068 | 3630.7        | 1924.7              | 0.0111 mg/L       |                    |
| 1 Al 308.215 | 10111.1       | 6290.2              | 0.2122 mg/L       |                    |
| 1 As 188.979 | 187.0         | 59.1                | 0.0198 mg/L       |                    |
| 1 Ba 233.527 | 3581.9        | 4683.7              | 0.0123 mg/L       |                    |
| 1 Be 313.107 | 11468.6       | 11747.6             | 0.0051 mg/L       |                    |
| 1 Ca 227.547 | 839.7         | 236.8               | 1.192 mg/L        |                    |
| 1 Cd 228.802 | 599.9         | 549.9               | 0.0049 mg/L       |                    |
| 1 Co 228.616 | 1619.9        | 2190.2              | 0.0240 mg/L       |                    |
| 1 Cr 267.716 | 1079.6        | 981.7               | 0.0109 mg/L       |                    |
| 1 Cu 324.754 | 5330.5        | 1578.0              | 0.0063 mg/L       |                    |
| 1 Fe 273.955 | 2394.4        | 2204.0              | 0.0549 mg/L       |                    |
| 1 K 766.491  | 1628.5        | 249.6               | 0.0896 mg/L       |                    |
| 1 Mg 279.079 | 1970.7        | -896.9              | -0.0223 mg/L      |                    |
| 1 Mn 257.610 | 16615.5       | 15547.0             | 0.0121 mg/L       |                    |
| 1 Mo 202.030 | 107.5         | 266.7               | 0.0163 mg/L       |                    |
| 1 Na 330.237 | 4645.8        | 174.0               | 0.1016 mg/L       |                    |
| 1 Ni 231.604 | 636.5         | 1062.7              | 0.0242 mg/L       |                    |
| 1 Pb 220.353 | 576.2         | 147.8               | 0.0091 mg/L       |                    |
| 1 Sb 206.833 | 183.4         | 102.4               | 0.0265 mg/L       |                    |
| 1 Se 196.026 | 121.2         | 10.7                | 0.0042 mg/L       |                    |
| 1 Tl 190.800 | 407.8         | 18.5                | 0.0051 mg/L       |                    |
| 1 V 292.402  | 807.9         | 1237.4              | 0.0110 mg/L       |                    |
| 1 Zn 213.856 | 1675.4        | 1969.2              | 0.0197 mg/L       |                    |
| 2 Ag 328.068 | 3688.5        | 1982.4              | 0.0114 mg/L       |                    |
| 2 Al 308.215 | 9886.9        | 6066.1              | 0.2046 mg/L       |                    |
| 2 As 188.979 | 198.6         | 70.7                | 0.0237 mg/L       |                    |

|              |         |         |              |
|--------------|---------|---------|--------------|
| 2 Ba 233.527 | 3219.7  | 4321.6  | 0.0114 mg/L  |
| 2 Be 313.107 | 10740.5 | 11019.5 | 0.0047 mg/L  |
| 2 Ca 227.547 | 875.6   | 272.7   | 1.372 mg/L   |
| 2 Cd 228.802 | 580.8   | 530.8   | 0.0047 mg/L  |
| 2 Co 228.616 | 1603.8  | 2174.2  | 0.0239 mg/L  |
| 2 Cr 267.716 | 1083.1  | 985.2   | 0.0109 mg/L  |
| 2 Cu 324.754 | 5049.3  | 1296.8  | 0.0052 mg/L  |
| 2 Fe 273.955 | 2386.3  | 2195.9  | 0.0547 mg/L  |
| 2 K 766.491  | 1723.8  | 344.9   | 0.0955 mg/L  |
| 2 Mg 279.079 | 1732.0  | -1135.6 | -0.0282 mg/L |
| 2 Mn 257.610 | 15555.2 | 14486.8 | 0.0113 mg/L  |
| 2 Mo 202.030 | 103.4   | 262.6   | 0.0160 mg/L  |
| 2 Na 330.237 | 4865.7  | 393.8   | 0.4320 mg/L  |
| 2 Ni 231.604 | 619.2   | 1045.4  | 0.0238 mg/L  |
| 2 Pb 220.353 | 602.3   | 173.8   | 0.0107 mg/L  |
| 2 Sb 206.833 | 179.7   | 98.7    | 0.0255 mg/L  |
| 2 Se 196.026 | 131.3   | 20.7    | 0.0082 mg/L  |
| 2 Tl 190.800 | 417.1   | 27.9    | 0.0077 mg/L  |
| 2 V 292.402  | 749.1   | 1178.6  | 0.0105 mg/L  |
| 2 Zn 213.856 | 1680.6  | 1974.3  | 0.0198 mg/L  |
|              |         |         |              |
| 3 Ag 328.068 | 3620.4  | 1914.3  | 0.0110 mg/L  |
| 3 Al 308.215 | 10007.0 | 6186.1  | 0.2087 mg/L  |
| 3 As 188.979 | 189.6   | 61.7    | 0.0206 mg/L  |
| 3 Ba 233.527 | 3385.1  | 4487.0  | 0.0118 mg/L  |
| 3 Be 313.107 | 10816.8 | 11095.8 | 0.0048 mg/L  |
| 3 Ca 227.547 | 862.9   | 260.0   | 1.309 mg/L   |
| 3 Cd 228.802 | 587.7   | 537.7   | 0.0048 mg/L  |
| 3 Co 228.616 | 1587.8  | 2158.2  | 0.0237 mg/L  |
| 3 Cr 267.716 | 1091.3  | 993.4   | 0.0110 mg/L  |
| 3 Cu 324.754 | 4931.8  | 1179.3  | 0.0047 mg/L  |
| 3 Fe 273.955 | 2286.8  | 2096.4  | 0.0522 mg/L  |
| 3 K 766.491  | 1822.5  | 443.6   | 0.1016 mg/L  |
| 3 Mg 279.079 | 1723.6  | -1143.9 | -0.0284 mg/L |
| 3 Mn 257.610 | 15444.6 | 14376.1 | 0.0112 mg/L  |
| 3 Mo 202.030 | 115.0   | 274.1   | 0.0167 mg/L  |
| 3 Na 330.237 | 4398.4  | -73.5   | -0.2702 mg/L |
| 3 Ni 231.604 | 622.4   | 1048.6  | 0.0239 mg/L  |
| 3 Pb 220.353 | 590.9   | 162.5   | 0.0100 mg/L  |
| 3 Sb 206.833 | 164.3   | 83.4    | 0.0216 mg/L  |
| 3 Se 196.026 | 145.1   | 34.5    | 0.0136 mg/L  |
| 3 Tl 190.800 | 410.5   | 21.3    | 0.0059 mg/L  |
| 3 V 292.402  | 744.0   | 1173.4  | 0.0105 mg/L  |
| 3 Zn 213.856 | 1696.2  | 1989.9  | 0.0199 mg/L  |

ean Data

|                   |               |             |
|-------------------|---------------|-------------|
| Sample No.: 7     | Sample No.: 8 | A/S Pos: 9  |
| Prep. Vol.: 1.0 L | Dilution: 1.0 | 1.0         |
| Data: Original    | Date: 5/19/03 | 10:53:43 AM |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | 1940.5               | 0.0112     | 0.00021  | mg/L        |            |          |              | 1.89%   |
| Al 308.215 | 6180.8               | 0.2085     | 0.00378  | mg/L        |            |          |              | 1.81%   |
| As 188.979 | 63.9                 | 0.0214     | 0.00204  | mg/L        |            |          |              | 9.56%   |
| Ba 233.527 | 4497.4               | 0.0118     | 0.00048  | mg/L        |            |          |              | 4.03%   |
| Be 313.107 | 11287.6              | 0.0049     | 0.00017  | mg/L        |            |          |              | 3.55%   |
| Ca 227.547 | 256.5                | 1.291      | 0.0915   | mg/L        |            |          |              | 7.09%   |
| Cd 228.802 | 539.5                | 0.0048     | 0.00009  | mg/L        |            |          |              | 1.80%   |
| Co 228.616 | 2174.2               | 0.0239     | 0.00018  | mg/L        |            |          |              | 0.74%   |
| Cr 267.716 | 986.8                | 0.0109     | 0.00007  | mg/L        |            |          |              | 0.61%   |
| Cu 324.754 | 1351.4               | 0.0054     | 0.00082  | mg/L        |            |          |              | 15.16%  |
| Fe 273.955 | 2165.4               | 0.0539     | 0.00149  | mg/L        |            |          |              | 2.77%   |
| K 766.491  | 346.0                | 0.0956     | 0.00600  | mg/L        |            |          |              | 6.27%   |
| Mg 279.079 | -1058.8              | -0.0263    | 0.00348  | mg/L        |            |          |              | 13.25%  |
| Mn 257.610 | 14803.3              | 0.0116     | 0.00050  | mg/L        |            |          |              | 4.37%   |
| Mo 202.030 | 267.8                | 0.0164     | 0.00036  | mg/L        |            |          |              | 2.19%   |
| Na 330.237 | 164.8                | 0.0878     | 0.35130  | mg/L        |            |          |              | 399.99% |
| Ni 231.604 | 1052.3               | 0.0240     | 0.00021  | mg/L        |            |          |              | 0.88%   |
| Pb 220.353 | 161.3                | 0.0099     | 0.00080  | mg/L        |            |          |              | 8.08%   |
| Sb 206.833 | 94.8                 | 0.0245     | 0.00261  | mg/L        |            |          |              | 10.64%  |
| Se 196.026 | 22.0                 | 0.0086     | 0.00470  | mg/L        |            |          |              | 54.40%  |

|           |        |        |              |        |
|-----------|--------|--------|--------------|--------|
| l 190.800 | 22.6   | 0.0062 | 0.00132 mg/L | 21.24% |
| 292.402   | 1196.5 | 0.0107 | 0.00032 mg/L | 2.97%  |
| n 213.856 | 1977.8 | 0.0198 | 0.00011 mg/L | 0.55%  |

uplicate Data

D: ICSA 1441

Date: 5/19/03

10:56:54 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 1107.4        | -598.6              | -0.0035 mg/L      |                    |
| 1    | Al 308.215 | 14375453.6    | 14371632.7          | 484.8 mg/L        |                    |
| 1    | As 188.979 | 82.5          | -45.4               | -0.0176 mg/L      |                    |
| 1    | Ba 233.527 | 948.9         | 2050.7              | 0.0054 mg/L       |                    |
| 1    | Be 313.107 | 691.2         | 970.1               | 0.0004 mg/L       |                    |
| 1    | Ca 227.547 | 99046.9       | 98444.0             | 499.9 mg/L        |                    |
| 1    | Cd 228.802 | -141.2        | -191.2              | -0.0017 mg/L      |                    |
| 1    | Co 228.616 | -455.8        | 114.5               | 0.0013 mg/L       |                    |
| 1    | Cr 267.716 | 942.3         | 844.3               | 0.0094 mg/L       |                    |
| 1    | Cu 324.754 | 2328.8        | -1423.7             | 0.0022 mg/L       |                    |
| 1    | Fe 273.955 | 7675984.6     | 7675794.2           | 191.2 mg/L        |                    |
| 1    | K 766.491  | 2424.8        | 1045.9              | 0.1389 mg/L       |                    |
| 1    | Mg 279.079 | 19822090.4    | 19819222.8          | 491.9 mg/L        |                    |
| 1    | Mn 257.610 | 10321.7       | 9253.2              | -0.0004 mg/L      |                    |
| 1    | Mo 202.030 | -106.6        | 52.5                | -0.0014 mg/L      |                    |
| 1    | Na 330.237 | 4438.9        | -32.9               | -0.2092 mg/L      |                    |
| 1    | Ni 231.604 | -275.5        | 150.7               | 0.0034 mg/L       |                    |
| 1    | Pb 220.353 | -215.2        | -643.6              | -0.0056 mg/L      |                    |
| 1    | Sb 206.833 | 237.5         | 156.5               | 0.0226 mg/L       |                    |
| 1    | Se 196.026 | 120.3         | 9.8                 | -0.0061 mg/L      |                    |
| 1    | Tl 190.800 | 701.0         | 311.8               | -0.0205 mg/L      |                    |
| 1    | V 292.402  | -1219.5       | -790.0              | 0.0003 mg/L       |                    |
| 1    | Zn 213.856 | 3150.0        | 3443.7              | 0.0105 mg/L       |                    |
| 2    | Ag 328.068 | 829.2         | -876.8              | -0.0051 mg/L      |                    |
| 2    | Al 308.215 | 13915659.7    | 13911838.9          | 469.3 mg/L        |                    |
| 2    | As 188.979 | 128.2         | 0.3                 | -0.0015 mg/L      |                    |
| 2    | Ba 233.527 | 904.2         | 2006.0              | 0.0053 mg/L       |                    |
| 2    | Be 313.107 | 697.8         | 976.7               | 0.0004 mg/L       |                    |
| 2    | Ca 227.547 | 100417.2      | 99814.3             | 506.7 mg/L        |                    |
| 2    | Cd 228.802 | 99.2          | 49.2                | 0.0004 mg/L       |                    |
| 2    | Co 228.616 | -451.7        | 118.7               | 0.0013 mg/L       |                    |
| 2    | Cr 267.716 | 1002.6        | 904.6               | 0.0100 mg/L       |                    |
| 2    | Cu 324.754 | 2165.9        | -1586.6             | 0.0013 mg/L       |                    |
| 2    | Fe 273.955 | 7425870.5     | 7425680.0           | 185.0 mg/L        |                    |
| 2    | K 766.491  | 2703.2        | 1324.3              | 0.1561 mg/L       |                    |
| 2    | Mg 279.079 | 19123458.0    | 19120590.5          | 474.5 mg/L        |                    |
| 2    | Mn 257.610 | 10157.6       | 9089.1              | -0.0002 mg/L      |                    |
| 2    | Mo 202.030 | -146.7        | 12.5                | -0.0037 mg/L      |                    |
| 2    | Na 330.237 | 4565.3        | 93.5                | -0.0193 mg/L      |                    |
| 2    | Ni 231.604 | -308.3        | 117.9               | 0.0027 mg/L       |                    |
| 2    | Pb 220.353 | -42.8         | -471.3              | 0.0040 mg/L       |                    |
| 2    | Sb 206.833 | 154.9         | 73.9                | 0.0019 mg/L       |                    |
| 2    | Se 196.026 | 46.7          | -63.8               | -0.0348 mg/L      |                    |
| 2    | Tl 190.800 | 714.3         | 325.0               | -0.0132 mg/L      |                    |
| 2    | V 292.402  | -1238.9       | -809.5              | -0.0001 mg/L      |                    |
| 2    | Zn 213.856 | 3019.6        | 3313.3              | 0.0100 mg/L       |                    |
| 3    | Ag 328.068 | 1109.5        | -596.5              | -0.0034 mg/L      |                    |
| 3    | Al 308.215 | 14346284.6    | 14342463.7          | 483.8 mg/L        |                    |
| 3    | As 188.979 | 112.4         | -15.5               | -0.0071 mg/L      |                    |
| 3    | Ba 233.527 | 856.3         | 1958.1              | 0.0051 mg/L       |                    |
| 3    | Be 313.107 | 586.2         | 865.2               | 0.0004 mg/L       |                    |
| 3    | Ca 227.547 | 102075.5      | 101472.6            | 515.1 mg/L        |                    |
| 3    | Cd 228.802 | -73.0         | -122.9              | -0.0011 mg/L      |                    |
| 3    | Co 228.616 | -417.1        | 153.2               | 0.0017 mg/L       |                    |
| 3    | Cr 267.716 | 849.3         | 751.4               | 0.0083 mg/L       |                    |
| 3    | Cu 324.754 | 2278.9        | -1473.6             | 0.0020 mg/L       |                    |
| 3    | Fe 273.955 | 7642688.1     | 7642497.7           | 190.4 mg/L        |                    |
| 3    | K 766.491  | 3286.0        | 1907.1              | 0.1920 mg/L       |                    |
| 3    | Mg 279.079 | 19760100.5    | 19757232.9          | 490.3 mg/L        |                    |
| 3    | Mn 257.610 | 10381.4       | 9313.0              | -0.0003 mg/L      |                    |

|              |         |        |              |
|--------------|---------|--------|--------------|
| 3 Mo 202.030 | -87.9   | 71.3   | -0.0003 mg/L |
| 3 Na 330.237 | 4716.2  | 244.4  | 0.2074 mg/L  |
| 3 Ni 231.604 | -271.0  | 155.2  | 0.0035 mg/L  |
| 3 Pb 220.353 | -23.2   | -451.6 | 0.0062 mg/L  |
| 3 Sb 206.833 | 197.7   | 116.7  | 0.0125 mg/L  |
| 3 Se 196.026 | 128.2   | 17.7   | -0.0031 mg/L |
| 3 Tl 190.800 | 794.5   | 405.2  | 0.0056 mg/L  |
| 3 V 292.402  | -1331.4 | -902.0 | -0.0007 mg/L |
| 3 Zn 213.856 | 2947.3  | 3241.0 | 0.0086 mg/L  |

ean Data

D: ICSA 1441  
 ample Qty: 1.0000 g  
 Seq. No.: 8  
 Prep. Vol.: 1.0 L  
 Data: Original  
 Sample No.: 3  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 10:56:54 AM

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| g 328.068 | -690.7               | -0.0040    | 0.00093  | mg/L        |            |          |              | 23.35%  |
| l 308.215 | 14208645.1           | 479.3      | 8.68     | mg/L        |            |          |              | 1.81%   |
| s 188.979 | -20.2                | -0.0087    | 0.00816  | mg/L        |            |          |              | 93.92%  |
| a 233.527 | 2005.0               | 0.0053     | 0.00012  | mg/L        |            |          |              | 2.31%   |
| e 313.107 | 937.4                | 0.0004     | 0.00003  | mg/L        |            |          |              | 6.68%   |
| a 227.547 | 99910.3              | 507.2      | 7.63     | mg/L        |            |          |              | 1.50%   |
| i 228.802 | -88.3                | -0.0008    | 0.00110  | mg/L        |            |          |              | 140.24% |
| o 228.616 | 128.8                | 0.0014     | 0.00023  | mg/L        |            |          |              | 16.50%  |
| r 267.716 | 833.4                | 0.0092     | 0.00086  | mg/L        |            |          |              | 9.26%   |
| i 324.754 | -1494.6              | 0.0019     | 0.00047  | mg/L        |            |          |              | 25.44%  |
| e 273.955 | 7581324.0            | 188.9      | 3.38     | mg/L        |            |          |              | 1.79%   |
| 766.491   | 1425.8               | 0.1623     | 0.02714  | mg/L        |            |          |              | 16.72%  |
| g 279.079 | 19565682.1           | 485.6      | 9.60     | mg/L        |            |          |              | 1.98%   |
| i 257.610 | 9218.4               | -0.0003    | 0.00007  | mg/L        |            |          |              | 22.73%  |
| o 202.030 | 45.4                 | -0.0018    | 0.00176  | mg/L        |            |          |              | 96.79%  |
| a 330.237 | 101.6                | -0.0070    | 0.20858  | mg/L        |            |          |              | >999.9% |
| l 231.604 | 141.3                | 0.0032     | 0.00046  | mg/L        |            |          |              | 14.42%  |
| o 220.353 | -522.2               | 0.0015     | 0.00628  | mg/L        |            |          |              | 405.76% |
| o 206.833 | 115.7                | 0.0123     | 0.01035  | mg/L        |            |          |              | 83.94%  |
| e 196.026 | -12.1                | -0.0146    | 0.01751  | mg/L        |            |          |              | 119.63% |
| l 190.800 | 347.4                | -0.0094    | 0.01345  | mg/L        |            |          |              | 143.73% |
| 292.402   | -833.8               | -0.0002    | 0.00052  | mg/L        |            |          |              | 296.14% |
| i 213.856 | 3332.7               | 0.0097     | 0.00100  | mg/L        |            |          |              | 10.35%  |

uplicate Data

D: ICSAB 1443  
 Date: 5/19/03 10:59:42 AM

| Element      | Net Intensity | Corrected Intensity | Calib Conc. | Sample Conc. | RSD |
|--------------|---------------|---------------------|-------------|--------------|-----|
| 1 Ag 328.068 | 168327.3      | 166621.3            | 0.9616 mg/L |              |     |
| 1 Al 308.215 | 14242441.0    | 14238620.1          | 480.3 mg/L  |              |     |
| 1 As 188.979 | 2741.0        | 2613.1              | 0.8748 mg/L |              |     |
| 1 Ba 233.527 | 192976.0      | 194077.8            | 0.5101 mg/L |              |     |
| 1 Be 313.107 | 1104499.4     | 1104778.4           | 0.4762 mg/L |              |     |
| 1 Ca 227.547 | 93799.0       | 93196.1             | 473.3 mg/L  |              |     |
| 1 Cd 228.802 | 102868.8      | 102818.8            | 0.9151 mg/L |              |     |
| 1 Co 228.616 | 40854.3       | 41424.7             | 0.4548 mg/L |              |     |
| 1 Cr 267.716 | 44005.0       | 43907.1             | 0.4868 mg/L |              |     |
| 1 Cu 324.754 | 117069.2      | 113316.7            | 0.4620 mg/L |              |     |
| 1 Fe 273.955 | 7395652.3     | 7395461.9           | 184.2 mg/L  |              |     |
| 1 K 766.491  | 2692.6        | 1313.7              | 0.1554 mg/L |              |     |
| 1 Mg 279.079 | 19296143.1    | 19293275.5          | 478.8 mg/L  |              |     |
| 1 Mn 257.610 | 604613.0      | 603544.6            | 0.4637 mg/L |              |     |
| 1 Mo 202.030 | 14371.9       | 14531.1             | 0.8830 mg/L |              |     |
| 1 Na 330.237 | 4657.0        | 185.2               | 0.1185 mg/L |              |     |
| 1 Ni 231.604 | 37947.5       | 38373.7             | 0.8750 mg/L |              |     |
| 1 Pb 220.353 | 14493.4       | 14064.9             | 0.9008 mg/L |              |     |
| 1 Sb 206.833 | 3666.7        | 3585.7              | 0.8943 mg/L |              |     |
| 1 Se 196.026 | 2366.6        | 2256.0              | 0.8775 mg/L |              |     |
| 1 Tl 190.800 | 3675.8        | 3286.6              | 0.7982 mg/L |              |     |
| 1 V 292.402  | 51584.7       | 52014.2             | 0.4708 mg/L |              |     |
| 1 Zn 213.856 | 94291.9       | 94585.6             | 0.9250 mg/L |              |     |
| 2 Ag 328.068 | 167125.4      | 165419.4            | 0.9547 mg/L |              |     |

|   |    |         |            |            |         |      |
|---|----|---------|------------|------------|---------|------|
| 2 | Al | 308.215 | 13834558.4 | 13830737.5 | 466.6   | mg/L |
| 2 | As | 188.979 | 2754.9     | 2627.0     | 0.8798  | mg/L |
| 2 | Ba | 233.527 | 191234.1   | 192335.9   | 0.5055  | mg/L |
| 2 | Be | 313.107 | 1094646.0  | 1094924.9  | 0.4719  | mg/L |
| 2 | Ca | 227.547 | 92807.0    | 92204.1    | 468.2   | mg/L |
| 2 | Cd | 228.802 | 101799.3   | 101749.3   | 0.9056  | mg/L |
| 2 | Co | 228.616 | 40562.4    | 41132.7    | 0.4516  | mg/L |
| 2 | Cr | 267.716 | 43703.4    | 43605.4    | 0.4834  | mg/L |
| 2 | Cu | 324.754 | 117203.8   | 113451.3   | 0.4623  | mg/L |
| 2 | Fe | 273.955 | 7194510.5  | 7194320.1  | 179.2   | mg/L |
| 2 | K  | 766.491 | 3059.5     | 1680.6     | 0.1781  | mg/L |
| 2 | Mg | 279.079 | 18745311.7 | 18742444.1 | 465.1   | mg/L |
| 2 | Mn | 257.610 | 599314.7   | 598246.2   | 0.4598  | mg/L |
| 2 | Mo | 202.030 | 14298.2    | 14457.3    | 0.8786  | mg/L |
| 2 | Na | 330.237 | 4663.0     | 191.2      | 0.1275  | mg/L |
| 2 | Ni | 231.604 | 37553.8    | 37980.0    | 0.8661  | mg/L |
| 2 | Pb | 220.353 | 14471.3    | 14042.8    | 0.8985  | mg/L |
| 2 | Sb | 206.833 | 3645.8     | 3564.9     | 0.8895  | mg/L |
| 2 | Se | 196.026 | 2411.9     | 2301.4     | 0.8957  | mg/L |
| 2 | Tl | 190.800 | 3723.1     | 3333.9     | 0.8142  | mg/L |
| 2 | V  | 292.402 | 50956.4    | 51385.9    | 0.4650  | mg/L |
| 2 | Zn | 213.856 | 93820.5    | 94114.2    | 0.9209  | mg/L |
| 3 | Ag | 328.068 | 170321.5   | 168615.5   | 0.9731  | mg/L |
| 3 | Al | 308.215 | 13362316.7 | 13358495.8 | 450.6   | mg/L |
| 3 | As | 188.979 | 2764.5     | 2636.6     | 0.8841  | mg/L |
| 3 | Ba | 233.527 | 195113.4   | 196215.3   | 0.5157  | mg/L |
| 3 | Be | 313.107 | 1117971.5  | 1118250.5  | 0.4820  | mg/L |
| 3 | Ca | 227.547 | 95075.4    | 94472.5    | 479.5   | mg/L |
| 3 | Cd | 228.802 | 103933.8   | 103883.8   | 0.9246  | mg/L |
| 3 | Co | 228.616 | 41470.4    | 42040.8    | 0.4615  | mg/L |
| 3 | Cr | 267.716 | 44523.6    | 44425.6    | 0.4925  | mg/L |
| 3 | Cu | 324.754 | 119685.7   | 115933.2   | 0.4720  | mg/L |
| 3 | Fe | 273.955 | 6963669.5  | 6963479.0  | 173.5   | mg/L |
| 3 | K  | 766.491 | 3025.6     | 1646.7     | 0.1760  | mg/L |
| 3 | Mg | 279.079 | 18131650.3 | 18128782.7 | 449.9   | mg/L |
| 3 | Mn | 257.610 | 611471.2   | 610402.8   | 0.4695  | mg/L |
| 3 | Mo | 202.030 | 14823.9    | 14983.1    | 0.9108  | mg/L |
| 3 | Na | 330.237 | 4524.3     | 52.5       | -0.0809 | mg/L |
| 3 | Ni | 231.604 | 38222.3    | 38648.5    | 0.8813  | mg/L |
| 3 | Pb | 220.353 | 14735.7    | 14307.2    | 0.9137  | mg/L |
| 3 | Sb | 206.833 | 3791.8     | 3710.8     | 0.9277  | mg/L |
| 3 | Se | 196.026 | 2464.5     | 2354.0     | 0.9167  | mg/L |
| 3 | Tl | 190.800 | 3965.7     | 3576.5     | 0.8845  | mg/L |
| 3 | V  | 292.402 | 52330.0    | 52759.5    | 0.4771  | mg/L |
| 3 | Zn | 213.856 | 95762.9    | 96056.6    | 0.9411  | mg/L |

an Data

Sample ID: ICSAB 1443  
 Sample Qty: 1.0000 g  
 Seq. No.: 9  
 Prep. Vol.:  
 Sample No.: 4  
 1.0 L  
 A/S Pos: 8  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 10:59:42 AM  
 Data: Original

| Element | Mean Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|---------|----------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag      | 166885.4       | 0.9632     | 0.00932  | mg/L        |            |          |              | 0.97%   |
| Al      | 13809284.5     | 465.8      | 14.86    | mg/L        |            |          |              | 3.19%   |
| As      | 2625.6         | 0.8796     | 0.00464  | mg/L        |            |          |              | 0.53%   |
| Ba      | 194209.6       | 0.5104     | 0.00511  | mg/L        |            |          |              | 1.00%   |
| Be      | 1105984.6      | 0.4767     | 0.00505  | mg/L        |            |          |              | 1.06%   |
| Ca      | 93290.9        | 473.7      | 5.65     | mg/L        |            |          |              | 1.19%   |
| Cd      | 102817.3       | 0.9151     | 0.00950  | mg/L        |            |          |              | 1.04%   |
| Co      | 41532.7        | 0.4560     | 0.00509  | mg/L        |            |          |              | 1.12%   |
| Cr      | 43979.4        | 0.4876     | 0.00460  | mg/L        |            |          |              | 0.94%   |
| Cu      | 114233.7       | 0.4654     | 0.00570  | mg/L        |            |          |              | 1.23%   |
| Fe      | 7184420.3      | 179.0      | 5.39     | mg/L        |            |          |              | 3.01%   |
| K       | 1547.0         | 0.1698     | 0.01252  | mg/L        |            |          |              | 7.37%   |
| Mg      | 18721500.8     | 464.6      | 14.46    | mg/L        |            |          |              | 3.11%   |
| Mn      | 604064.5       | 0.4643     | 0.00489  | mg/L        |            |          |              | 1.05%   |
| Mo      | 14657.2        | 0.8908     | 0.01749  | mg/L        |            |          |              | 1.96%   |
| Na      | 142.9          | 0.0550     | 0.11782  | mg/L        |            |          |              | 214.12% |
| Ni      | 38334.1        | 0.8741     | 0.00766  | mg/L        |            |          |              | 0.88%   |
| Pb      | 14138.3        | 0.9044     | 0.00821  | mg/L        |            |          |              | 0.91%   |

|   |         |         |        |              |       |
|---|---------|---------|--------|--------------|-------|
| b | 206.833 | 3620.5  | 0.9038 | 0.02079 mg/L | 2.30% |
| e | 196.026 | 2303.8  | 0.8966 | 0.01962 mg/L | 2.19% |
| l | 190.800 | 3399.0  | 0.8323 | 0.04588 mg/L | 5.51% |
|   | 292.402 | 52053.2 | 0.4710 | 0.00601 mg/L | 1.28% |
| n | 213.856 | 94918.8 | 0.9290 | 0.01068 mg/L | 1.15% |

uplicate Data

D: CCV 1447B

Date: 5/19/03

11:02:48 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 174926.9      | 173220.8            | 0.9997 mg/L       |                    |
| 1    | Al 308.215 | 155953.0      | 152132.2            | 5.132 mg/L        |                    |
| 1    | As 188.979 | 1588.6        | 1460.7              | 0.4943 mg/L       |                    |
| 1    | Ba 233.527 | 1954498.8     | 1955600.6           | 5.140 mg/L        |                    |
| 1    | Be 313.107 | 1153372.4     | 1153651.4           | 0.4972 mg/L       |                    |
| 1    | Ca 227.547 | 10715.6       | 10112.7             | 50.89 mg/L        |                    |
| 1    | Cd 228.802 | 112114.4      | 112064.4            | 0.9974 mg/L       |                    |
| 1    | Co 228.616 | 184297.9      | 184868.3            | 2.030 mg/L        |                    |
| 1    | Cr 267.716 | 45977.1       | 45879.2             | 0.5086 mg/L       |                    |
| 1    | Cu 324.754 | 501855.5      | 498103.0            | 1.997 mg/L        |                    |
| 1    | Fe 273.955 | 208007.7      | 207817.3            | 5.177 mg/L        |                    |
| 1    | K 766.491  | 272000.0      | 270621.1            | 15.14 mg/L        |                    |
| 1    | Mg 279.079 | 1031464.4     | 1028596.8           | 25.53 mg/L        |                    |
| 1    | Mn 257.610 | 2609929.5     | 2608861.1           | 2.036 mg/L        |                    |
| 1    | Mo 202.030 | 32737.0       | 32896.1             | 2.009 mg/L        |                    |
| 1    | Na 330.237 | 69928.4       | 65456.5             | 98.80 mg/L        |                    |
| 1    | Ni 231.604 | 88670.1       | 89096.4             | 2.032 mg/L        |                    |
| 1    | Pb 220.353 | 8847.7        | 8419.2              | 0.5190 mg/L       |                    |
| 1    | Sb 206.833 | 7853.8        | 7772.8              | 1.997 mg/L        |                    |
| 1    | Se 196.026 | 1441.8        | 1331.2              | 0.5235 mg/L       |                    |
| 1    | Tl 190.800 | 2201.6        | 1812.3              | 0.4978 mg/L       |                    |
| 1    | V 292.402  | 227618.1      | 228047.6            | 2.033 mg/L        |                    |
| 1    | Zn 213.856 | 199136.0      | 199429.7            | 1.999 mg/L        |                    |
| 2    | Ag 328.068 | 176530.5      | 174824.4            | 1.009 mg/L        |                    |
| 2    | Al 308.215 | 156662.7      | 152841.8            | 5.156 mg/L        |                    |
| 2    | As 188.979 | 1574.1        | 1446.3              | 0.4896 mg/L       |                    |
| 2    | Ba 233.527 | 1963546.3     | 1964648.2           | 5.163 mg/L        |                    |
| 2    | Be 313.107 | 1162716.6     | 1162995.6           | 0.5013 mg/L       |                    |
| 2    | Ca 227.547 | 10847.9       | 10245.0             | 51.56 mg/L        |                    |
| 2    | Cd 228.802 | 113627.7      | 113577.7            | 1.011 mg/L        |                    |
| 2    | Co 228.616 | 185753.7      | 186324.0            | 2.046 mg/L        |                    |
| 2    | Cr 267.716 | 46416.1       | 46318.1             | 0.5135 mg/L       |                    |
| 2    | Cu 324.754 | 507255.4      | 503502.9            | 2.019 mg/L        |                    |
| 2    | Fe 273.955 | 208892.3      | 208701.8            | 5.199 mg/L        |                    |
| 2    | K 766.491  | 291328.1      | 289949.2            | 16.11 mg/L        |                    |
| 2    | Mg 279.079 | 1039347.1     | 1036479.6           | 25.72 mg/L        |                    |
| 2    | Mn 257.610 | 2733854.5     | 2732786.0           | 2.133 mg/L        |                    |
| 2    | Mo 202.030 | 33025.4       | 33184.5             | 2.027 mg/L        |                    |
| 2    | Na 330.237 | 70618.7       | 66146.9             | 99.85 mg/L        |                    |
| 2    | Ni 231.604 | 89118.6       | 89544.8             | 2.042 mg/L        |                    |
| 2    | Pb 220.353 | 8687.2        | 8258.8              | 0.5091 mg/L       |                    |
| 2    | Sb 206.833 | 7734.6        | 7653.7              | 1.966 mg/L        |                    |
| 2    | Se 196.026 | 1392.9        | 1282.4              | 0.5043 mg/L       |                    |
| 2    | Tl 190.800 | 2195.2        | 1806.0              | 0.4960 mg/L       |                    |
| 2    | V 292.402  | 228783.7      | 229213.2            | 2.044 mg/L        |                    |
| 2    | Zn 213.856 | 201934.0      | 202227.7            | 2.027 mg/L        |                    |
| 3    | Ag 328.068 | 179368.7      | 177662.6            | 1.025 mg/L        |                    |
| 3    | Al 308.215 | 160077.2      | 156256.4            | 5.271 mg/L        |                    |
| 3    | As 188.979 | 1585.6        | 1457.7              | 0.4935 mg/L       |                    |
| 3    | Ba 233.527 | 2003978.7     | 2005080.6           | 5.270 mg/L        |                    |
| 3    | Be 313.107 | 1186729.8     | 1187008.8           | 0.5116 mg/L       |                    |
| 3    | Ca 227.547 | 11116.1       | 10513.2             | 52.91 mg/L        |                    |
| 3    | Cd 228.802 | 115465.4      | 115415.4            | 1.027 mg/L        |                    |
| 3    | Co 228.616 | 189152.1      | 189722.5            | 2.083 mg/L        |                    |
| 3    | Cr 267.716 | 47233.4       | 47135.5             | 0.5226 mg/L       |                    |
| 3    | Cu 324.754 | 516321.8      | 512569.3            | 2.055 mg/L        |                    |
| 3    | Fe 273.955 | 212788.3      | 212597.8            | 5.296 mg/L        |                    |
| 3    | K 766.491  | 285403.7      | 284024.8            | 15.81 mg/L        |                    |

|      |         |           |           |             |
|------|---------|-----------|-----------|-------------|
| 3 Mg | 279.079 | 1059599.1 | 1056731.5 | 26.23 mg/L  |
| 3 Mn | 257.610 | 2690337.4 | 2689269.0 | 2.099 mg/L  |
| 3 Mo | 202.030 | 33773.3   | 33932.4   | 2.072 mg/L  |
| 3 Na | 330.237 | 71672.6   | 67200.7   | 101.5 mg/L  |
| 3 Ni | 231.604 | 90940.8   | 91367.0   | 2.083 mg/L  |
| 3 Pb | 220.353 | 8801.2    | 8372.7    | 0.5161 mg/L |
| 3 Sb | 206.833 | 7829.5    | 7748.5    | 1.990 mg/L  |
| 3 Se | 196.026 | 1419.0    | 1308.5    | 0.5145 mg/L |
| 3 Tl | 190.800 | 2232.2    | 1843.0    | 0.5062 mg/L |
| 3 V  | 292.402 | 233645.0  | 234074.5  | 2.087 mg/L  |
| 3 Zn | 213.856 | 205497.1  | 205790.8  | 2.063 mg/L  |

ean Data

Sample ID: CCV 1447B      Seq. No.: 10      Sample No.: 5      A/S Pos: 6  
 Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03      11:02:48 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Ag 328.068 | 175236.0             | 1.011      | 0.0130   | mg/L        |            |          |              | 1.28% |
| Al 308.215 | 153743.5             | 5.186      | 0.0744   | mg/L        |            |          |              | 1.43% |
| As 188.979 | 1454.9               | 0.4925     | 0.00255  | mg/L        |            |          |              | 0.52% |
| Ba 233.527 | 1975109.8            | 5.191      | 0.0692   | mg/L        |            |          |              | 1.33% |
| Be 313.107 | 1167885.3            | 0.5034     | 0.00742  | mg/L        |            |          |              | 1.47% |
| Ca 227.547 | 10290.3              | 51.78      | 1.027    | mg/L        |            |          |              | 1.98% |
| Cd 228.802 | 113685.8             | 1.012      | 0.0149   | mg/L        |            |          |              | 1.48% |
| Co 228.616 | 186971.6             | 2.053      | 0.0273   | mg/L        |            |          |              | 1.33% |
| Cr 267.716 | 46444.3              | 0.5149     | 0.00707  | mg/L        |            |          |              | 1.37% |
| Cu 324.754 | 504725.1             | 2.023      | 0.0293   | mg/L        |            |          |              | 1.45% |
| Fe 273.955 | 209705.6             | 5.224      | 0.0634   | mg/L        |            |          |              | 1.21% |
| K 766.491  | 281531.7             | 15.69      | 0.498    | mg/L        |            |          |              | 3.18% |
| Mg 279.079 | 1040602.6            | 25.82      | 0.360    | mg/L        |            |          |              | 1.39% |
| Mn 257.610 | 2676972.0            | 2.089      | 0.0491   | mg/L        |            |          |              | 2.35% |
| Mo 202.030 | 33337.7              | 2.036      | 0.0327   | mg/L        |            |          |              | 1.60% |
| Na 330.237 | 66268.0              | 100.0      | 1.34     | mg/L        |            |          |              | 1.34% |
| Ni 231.604 | 90002.7              | 2.052      | 0.0274   | mg/L        |            |          |              | 1.34% |
| Pb 220.353 | 8350.2               | 0.5147     | 0.00509  | mg/L        |            |          |              | 0.99% |
| Sb 206.833 | 7725.0               | 1.984      | 0.0163   | mg/L        |            |          |              | 0.82% |
| Se 196.026 | 1307.3               | 0.5141     | 0.00962  | mg/L        |            |          |              | 1.87% |
| Tl 190.800 | 1820.4               | 0.5000     | 0.00544  | mg/L        |            |          |              | 1.09% |
| V 292.402  | 230445.1             | 2.055      | 0.0285   | mg/L        |            |          |              | 1.39% |
| Zn 213.856 | 202482.8             | 2.030      | 0.0320   | mg/L        |            |          |              | 1.57% |

uplicate Data

Sample ID: CCB      Date: 5/19/03      11:07:40 AM

| Sample# | Element    | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---------|------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1       | Ag 328.068 | 1559.4        | -146.7              | -0.0008     | mg/L  |              |       |
| 1       | Al 308.215 | 3607.7        | -213.1              | -0.0072     | mg/L  |              |       |
| 1       | As 188.979 | 142.1         | 14.3                | 0.0048      | mg/L  |              |       |
| 1       | Ba 233.527 | -896.5        | 205.3               | 0.0005      | mg/L  |              |       |
| 1       | Be 313.107 | 753.1         | 1032.1              | 0.0004      | mg/L  |              |       |
| 1       | Ca 227.547 | 650.8         | 47.9                | 0.2409      | mg/L  |              |       |
| 1       | Cd 228.802 | 64.3          | 14.3                | 0.0001      | mg/L  |              |       |
| 1       | Co 228.616 | -518.7        | 51.6                | 0.0006      | mg/L  |              |       |
| 1       | Cr 267.716 | 71.2          | -26.8               | -0.0003     | mg/L  |              |       |
| 1       | Cu 324.754 | 3053.3        | -699.2              | -0.0028     | mg/L  |              |       |
| 1       | Fe 273.955 | 602.7         | 412.3               | 0.0103      | mg/L  |              |       |
| 1       | K 766.491  | 1664.7        | 285.8               | 0.0919      | mg/L  |              |       |
| 1       | Mg 279.079 | 5457.2        | 2589.6              | 0.0643      | mg/L  |              |       |
| 1       | Mn 257.610 | 1457.4        | 388.9               | 0.0003      | mg/L  |              |       |
| 1       | Mo 202.030 | -141.3        | 17.8                | 0.0011      | mg/L  |              |       |
| 1       | Na 330.237 | 4611.0        | 139.1               | 0.0493      | mg/L  |              |       |
| 1       | Ni 231.604 | -391.2        | 35.0                | 0.0008      | mg/L  |              |       |
| 1       | Pb 220.353 | 425.5         | -3.0                | -0.0002     | mg/L  |              |       |
| 1       | Sb 206.833 | 75.9          | -5.0                | -0.0013     | mg/L  |              |       |
| 1       | Se 196.026 | 117.4         | 6.8                 | 0.0027      | mg/L  |              |       |
| 1       | Tl 190.800 | 377.5         | -11.7               | -0.0032     | mg/L  |              |       |
| 1       | V 292.402  | -324.0        | 105.4               | 0.0009      | mg/L  |              |       |
| 1       | Zn 213.856 | -404.3        | -110.6              | -0.0011     | mg/L  |              |       |

|      |         |        |        |              |
|------|---------|--------|--------|--------------|
| 2 Ag | 328.068 | 1819.5 | 113.5  | 0.0007 mg/L  |
| 2 Al | 308.215 | 3786.5 | -34.4  | -0.0012 mg/L |
| 2 As | 188.979 | 132.8  | 4.9    | 0.0016 mg/L  |
| 2 Ba | 233.527 | -924.3 | 177.5  | 0.0005 mg/L  |
| 2 Be | 313.107 | 677.4  | 956.4  | 0.0004 mg/L  |
| 2 Ca | 227.547 | 641.1  | 38.2   | 0.1922 mg/L  |
| 2 Cd | 228.802 | 60.9   | 10.9   | 0.0001 mg/L  |
| 2 Co | 228.616 | -536.9 | 33.4   | 0.0004 mg/L  |
| 2 Cr | 267.716 | 90.5   | -7.4   | -0.0001 mg/L |
| 2 Cu | 324.754 | 3359.7 | -392.8 | -0.0016 mg/L |
| 2 Fe | 273.955 | 507.4  | 316.9  | 0.0079 mg/L  |
| 2 K  | 766.491 | 1658.0 | 279.1  | 0.0915 mg/L  |
| 2 Mg | 279.079 | 5516.7 | 2649.1 | 0.0657 mg/L  |
| 2 Mn | 257.610 | 1540.0 | 471.5  | 0.0004 mg/L  |
| 2 Mo | 202.030 | -147.5 | 11.6   | 0.0007 mg/L  |
| 2 Na | 330.237 | 4795.4 | 323.6  | 0.3264 mg/L  |
| 2 Ni | 231.604 | -405.7 | 20.5   | 0.0005 mg/L  |
| 2 Pb | 220.353 | 396.7  | -31.8  | -0.0020 mg/L |
| 2 Sb | 206.833 | 95.2   | 14.3   | 0.0037 mg/L  |
| 2 Se | 196.026 | 117.2  | 6.7    | 0.0026 mg/L  |
| 2 Tl | 190.800 | 381.3  | -8.0   | -0.0022 mg/L |
| 2 V  | 292.402 | -347.8 | 81.7   | 0.0007 mg/L  |
| 2 Zn | 213.856 | -416.6 | -122.9 | -0.0012 mg/L |

|      |         |         |        |              |
|------|---------|---------|--------|--------------|
| 3 Ag | 328.068 | 1777.9  | 71.8   | 0.0004 mg/L  |
| 3 Al | 308.215 | 3943.3  | 122.4  | 0.0041 mg/L  |
| 3 As | 188.979 | 139.0   | 11.2   | 0.0037 mg/L  |
| 3 Ba | 233.527 | -1016.7 | 85.1   | 0.0002 mg/L  |
| 3 Be | 313.107 | 535.7   | 814.7  | 0.0004 mg/L  |
| 3 Ca | 227.547 | 635.3   | 32.5   | 0.1633 mg/L  |
| 3 Cd | 228.802 | 26.0    | -24.0  | -0.0002 mg/L |
| 3 Co | 228.616 | -558.4  | 11.9   | 0.0001 mg/L  |
| 3 Cr | 267.716 | 55.0    | -42.9  | -0.0005 mg/L |
| 3 Cu | 324.754 | 3359.4  | -393.1 | -0.0016 mg/L |
| 3 Fe | 273.955 | 350.8   | 160.4  | 0.0040 mg/L  |
| 3 K  | 766.491 | 1327.4  | -51.6  | 0.0710 mg/L  |
| 3 Mg | 279.079 | 5460.9  | 2593.4 | 0.0644 mg/L  |
| 3 Mn | 257.610 | 1461.7  | 393.3  | 0.0003 mg/L  |
| 3 Mo | 202.030 | -141.8  | 17.4   | 0.0011 mg/L  |
| 3 Na | 330.237 | 4584.8  | 112.9  | 0.0099 mg/L  |
| 3 Ni | 231.604 | -400.7  | 25.6   | 0.0006 mg/L  |
| 3 Pb | 220.353 | 413.2   | -15.2  | -0.0009 mg/L |
| 3 Sb | 206.833 | 99.0    | 18.0   | 0.0047 mg/L  |
| 3 Se | 196.026 | 110.9   | 0.4    | 0.0002 mg/L  |
| 3 Tl | 190.800 | 378.4   | -10.9  | -0.0030 mg/L |
| 3 V  | 292.402 | -442.6  | -13.1  | -0.0001 mg/L |
| 3 Zn | 213.856 | -407.2  | -113.5 | -0.0011 mg/L |

Mean Data -----  
 ): CCB  
 Sample 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: 5/19/03      11:07:40 AM

| Element | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|---------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag      | 12.9                 | 0.0001     | 0.00081  | mg/L        |            |          |              | >999.9% |
| Al      | -41.7                | -0.0014    | 0.00566  | mg/L        |            |          |              | 402.70% |
| As      | 10.1                 | 0.0034     | 0.00160  | mg/L        |            |          |              | 47.30%  |
| Ba      | 156.0                | 0.0004     | 0.00017  | mg/L        |            |          |              | 40.34%  |
| Be      | 934.4                | 0.0004     | 0.00005  | mg/L        |            |          |              | 11.81%  |
| Ca      | 39.5                 | 0.1988     | 0.03924  | mg/L        |            |          |              | 19.74%  |
| Cd      | 0.4                  | 0.0000     | 0.00019  | mg/L        |            |          |              | >999.9% |
| Co      | 32.3                 | 0.0004     | 0.00022  | mg/L        |            |          |              | 61.47%  |
| Cr      | -25.7                | -0.0003    | 0.00020  | mg/L        |            |          |              | 69.09%  |
| Cu      | -495.1               | -0.0020    | 0.00071  | mg/L        |            |          |              | 35.72%  |
| Fe      | 296.5                | 0.0074     | 0.00317  | mg/L        |            |          |              | 42.89%  |
| K       | 171.1                | 0.0848     | 0.01193  | mg/L        |            |          |              | 14.07%  |
| Mg      | 2610.7               | 0.0648     | 0.00083  | mg/L        |            |          |              | 1.28%   |
| Mn      | 417.9                | 0.0003     | 0.00004  | mg/L        |            |          |              | 11.13%  |
| Mo      | 15.6                 | 0.0010     | 0.00021  | mg/L        |            |          |              | 22.06%  |
| Na      | 191.9                | 0.1285     | 0.17249  | mg/L        |            |          |              | 134.20% |



|           |        |         |              |         |
|-----------|--------|---------|--------------|---------|
| i 231.604 | 27.0   | 0.0006  | 0.00017 mg/L | 27.16%  |
| b 220.353 | -16.7  | -0.0010 | 0.00089 mg/L | 86.79%  |
| b 206.833 | 9.1    | 0.0023  | 0.00320 mg/L | 136.18% |
| e 196.026 | 4.6    | 0.0018  | 0.00144 mg/L | 79.46%  |
| l 190.800 | -10.2  | -0.0028 | 0.00054 mg/L | 19.43%  |
| 292.402   | 58.0   | 0.0005  | 0.00056 mg/L | 108.12% |
| n 213.856 | -115.7 | -0.0012 | 0.00006 mg/L | 5.55%   |

uplicate Data

D: M-BL 03M1479

Date: 5/19/03

11:11:02 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 1842.9        | 136.9               | 0.0008 mg/L       | 0.0008 ppm         |
| 1    | Al 308.215 | 3748.8        | -72.0               | -0.0024 mg/L      | -0.0024 ppm        |
| 1    | As 188.979 | 129.0         | 1.1                 | 0.0004 mg/L       | 0.0004 ppm         |
| 1    | Ba 233.527 | -944.1        | 157.7               | 0.0004 mg/L       | 0.0004 ppm         |
| 1    | Be 313.107 | 341.6         | 620.6               | 0.0003 mg/L       | 0.0003 ppm         |
| 1    | Ca 227.547 | 648.3         | 45.4                | 0.2287 mg/L       | 0.2287 ppm         |
| 1    | Cd 228.802 | 58.8          | 8.8                 | 0.0001 mg/L       | 0.0001 ppm         |
| 1    | Co 228.616 | -543.5        | 26.9                | 0.0003 mg/L       | 0.0003 ppm         |
| 1    | Cr 267.716 | 83.4          | -14.6               | -0.0002 mg/L      | -0.0002 ppm        |
| 1    | Cu 324.754 | 4703.6        | 951.1               | 0.0038 mg/L       | 0.0038 ppm         |
| 1    | Fe 273.955 | 886.6         | 696.2               | 0.0173 mg/L       | 0.0173 ppm         |
| 1    | K 766.491  | 1705.8        | 326.9               | 0.0944 mg/L       | 0.0944 ppm         |
| 1    | Mg 279.079 | 4232.6        | 1365.1              | 0.0339 mg/L       | 0.0339 ppm         |
| 1    | Mn 257.610 | 1646.6        | 578.1               | 0.0005 mg/L       | 0.0005 ppm         |
| 1    | Mo 202.030 | -148.5        | 10.7                | 0.0007 mg/L       | 0.0007 ppm         |
| 1    | Na 330.237 | 4818.0        | 346.2               | 0.3604 mg/L       | 0.3604 ppm         |
| 1    | Ni 231.604 | -396.2        | 30.0                | 0.0007 mg/L       | 0.0007 ppm         |
| 1    | Pb 220.353 | 409.8         | -18.6               | -0.0011 mg/L      | -0.0011 ppm        |
| 1    | Sb 206.833 | 76.4          | -4.6                | -0.0012 mg/L      | -0.0012 ppm        |
| 1    | Se 196.026 | 110.8         | 0.3                 | 0.0001 mg/L       | 0.0001 ppm         |
| 1    | Tl 190.800 | 392.7         | 3.5                 | 0.0010 mg/L       | 0.0010 ppm         |
| 1    | V 292.402  | -562.4        | -132.9              | -0.0012 mg/L      | -0.0012 ppm        |
| 1    | Zn 213.856 | -279.7        | 14.0                | 0.0001 mg/L       | 0.0001 ppm         |
| 2    | Ag 328.068 | 1917.1        | 211.0               | 0.0012 mg/L       | 0.0012 ppm         |
| 2    | Al 308.215 | 3649.0        | -171.9              | -0.0058 mg/L      | -0.0058 ppm        |
| 2    | As 188.979 | 132.3         | 4.4                 | 0.0015 mg/L       | 0.0015 ppm         |
| 2    | Ba 233.527 | -1066.8       | 35.1                | 0.0001 mg/L       | 0.0001 ppm         |
| 2    | Be 313.107 | 525.8         | 804.8               | 0.0003 mg/L       | 0.0003 ppm         |
| 2    | Ca 227.547 | 639.2         | 36.4                | 0.1830 mg/L       | 0.1830 ppm         |
| 2    | Cd 228.802 | 44.8          | -5.2                | 0.0000 mg/L       | 0.0000 ppm         |
| 2    | Co 228.616 | -532.0        | 38.3                | 0.0004 mg/L       | 0.0004 ppm         |
| 2    | Cr 267.716 | 73.4          | -24.6               | -0.0003 mg/L      | -0.0003 ppm        |
| 2    | Cu 324.754 | 4541.1        | 788.6               | 0.0032 mg/L       | 0.0032 ppm         |
| 2    | Fe 273.955 | 747.8         | 557.3               | 0.0139 mg/L       | 0.0139 ppm         |
| 2    | K 766.491  | 1869.6        | 490.6               | 0.1045 mg/L       | 0.1045 ppm         |
| 2    | Mg 279.079 | 4301.3        | 1433.7              | 0.0356 mg/L       | 0.0356 ppm         |
| 2    | Mn 257.610 | 1618.1        | 549.6               | 0.0004 mg/L       | 0.0004 ppm         |
| 2    | Mo 202.030 | -156.1        | 3.0                 | 0.0002 mg/L       | 0.0002 ppm         |
| 2    | Na 330.237 | 4977.0        | 505.1               | 0.5992 mg/L       | 0.5992 ppm         |
| 2    | Ni 231.604 | -373.1        | 53.1                | 0.0012 mg/L       | 0.0012 ppm         |
| 2    | Pb 220.353 | 406.2         | -22.3               | -0.0014 mg/L      | -0.0014 ppm        |
| 2    | Sb 206.833 | 79.5          | -1.4                | -0.0004 mg/L      | -0.0004 ppm        |
| 2    | Se 196.026 | 110.0         | -0.5                | -0.0002 mg/L      | -0.0002 ppm        |
| 2    | Tl 190.800 | 382.7         | -6.6                | -0.0018 mg/L      | -0.0018 ppm        |
| 2    | V 292.402  | -389.1        | 40.4                | 0.0004 mg/L       | 0.0004 ppm         |
| 2    | Zn 213.856 | -310.2        | -16.5               | -0.0002 mg/L      | -0.0002 ppm        |
| 3    | Ag 328.068 | 1732.4        | 26.3                | 0.0002 mg/L       | 0.0002 ppm         |
| 3    | Al 308.215 | 3710.7        | -110.2              | -0.0037 mg/L      | -0.0037 ppm        |
| 3    | As 188.979 | 134.1         | 6.2                 | 0.0021 mg/L       | 0.0021 ppm         |
| 3    | Ba 233.527 | -1015.1       | 86.8                | 0.0002 mg/L       | 0.0002 ppm         |
| 3    | Be 313.107 | 522.0         | 801.0               | 0.0003 mg/L       | 0.0003 ppm         |
| 3    | Ca 227.547 | 669.2         | 66.3                | 0.3335 mg/L       | 0.3335 ppm         |
| 3    | Cd 228.802 | 65.4          | 15.4                | 0.0001 mg/L       | 0.0001 ppm         |
| 3    | Co 228.616 | -555.2        | 15.1                | 0.0002 mg/L       | 0.0002 ppm         |
| 3    | Cr 267.716 | 67.9          | -30.0               | -0.0003 mg/L      | -0.0003 ppm        |
| 3    | Cu 324.754 | 4463.7        | 711.2               | 0.0029 mg/L       | 0.0029 ppm         |

|              |        |        |              |             |
|--------------|--------|--------|--------------|-------------|
| 3 Fe 273.955 | 607.0  | 416.5  | 0.0104 mg/L  | 0.0104 ppm  |
| 3 K 766.491  | 1423.9 | 45.0   | 0.0770 mg/L  | 0.0770 ppm  |
| 3 Mg 279.079 | 4504.2 | 1636.7 | 0.0406 mg/L  | 0.0406 ppm  |
| 3 Mn 257.610 | 1630.9 | 562.5  | 0.0004 mg/L  | 0.0004 ppm  |
| 3 Mo 202.030 | -156.8 | 2.3    | 0.0001 mg/L  | 0.0001 ppm  |
| 3 Na 330.237 | 4693.5 | 221.6  | 0.1732 mg/L  | 0.1732 ppm  |
| 3 Ni 231.604 | -388.1 | 38.1   | 0.0009 mg/L  | 0.0009 ppm  |
| 3 Pb 220.353 | 408.4  | -20.0  | -0.0012 mg/L | -0.0012 ppm |
| 3 Sb 206.833 | 87.9   | 6.9    | 0.0018 mg/L  | 0.0018 ppm  |
| 3 Se 196.026 | 112.2  | 1.7    | 0.0007 mg/L  | 0.0007 ppm  |
| 3 Tl 190.800 | 385.2  | -4.1   | -0.0011 mg/L | -0.0011 ppm |
| 3 V 292.402  | -389.7 | 39.8   | 0.0004 mg/L  | 0.0004 ppm  |
| 3 Zn 213.856 | -329.3 | -35.5  | -0.0004 mg/L | -0.0004 ppm |

ean Data

|                      |                    |                |             |
|----------------------|--------------------|----------------|-------------|
| D: M-BL 03M1479      | 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: 5/19/03  | 11:11:02 AM |

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| j 328.068 | 124.7                | 0.0007     | 0.00054  | mg/L        | 0.0007     | 0.00054  | ppm          | 74.50%  |
| l 308.215 | -118.0               | -0.0040    | 0.00170  | mg/L        | -0.0040    | 0.00170  | ppm          | 42.67%  |
| s 188.979 | 3.9                  | 0.0013     | 0.00087  | mg/L        | 0.0013     | 0.00087  | ppm          | 66.58%  |
| a 233.527 | 93.2                 | 0.0002     | 0.00016  | mg/L        | 0.0002     | 0.00016  | ppm          | 66.07%  |
| e 313.107 | 742.1                | 0.0003     | 0.00005  | mg/L        | 0.0003     | 0.00005  | ppm          | 14.19%  |
| a 227.547 | 49.4                 | 0.2484     | 0.07715  | mg/L        | 0.2484     | 0.07715  | ppm          | 31.06%  |
| i 228.802 | 6.4                  | 0.0001     | 0.00009  | mg/L        | 0.0001     | 0.00009  | ppm          | 165.62% |
| o 228.616 | 26.8                 | 0.0003     | 0.00013  | mg/L        | 0.0003     | 0.00013  | ppm          | 43.38%  |
| r 267.716 | -23.1                | -0.0003    | 0.00009  | mg/L        | -0.0003    | 0.00009  | ppm          | 34.00%  |
| i 324.754 | 816.9                | 0.0033     | 0.00049  | mg/L        | 0.0033     | 0.00049  | ppm          | 14.99%  |
| e 273.955 | 556.7                | 0.0139     | 0.00348  | mg/L        | 0.0139     | 0.00348  | ppm          | 25.12%  |
| 766.491   | 287.5                | 0.0920     | 0.01394  | mg/L        | 0.0920     | 0.01394  | ppm          | 15.15%  |
| j 279.079 | 1478.5               | 0.0367     | 0.00350  | mg/L        | 0.0367     | 0.00350  | ppm          | 9.55%   |
| i 257.610 | 563.4                | 0.0004     | 0.00001  | mg/L        | 0.0004     | 0.00001  | ppm          | 2.53%   |
| o 202.030 | 5.3                  | 0.0003     | 0.00028  | mg/L        | 0.0003     | 0.00028  | ppm          | 86.59%  |
| a 330.237 | 357.6                | 0.3776     | 0.21353  | mg/L        | 0.3776     | 0.21353  | ppm          | 56.55%  |
| i 231.604 | 40.4                 | 0.0009     | 0.00027  | mg/L        | 0.0009     | 0.00027  | ppm          | 29.00%  |
| o 220.353 | -20.3                | -0.0013    | 0.00011  | mg/L        | -0.0013    | 0.00011  | ppm          | 9.11%   |
| o 206.833 | 0.3                  | 0.0001     | 0.00154  | mg/L        | 0.0001     | 0.00154  | ppm          | >999.9% |
| e 196.026 | 0.5                  | 0.0002     | 0.00043  | mg/L        | 0.0002     | 0.00043  | ppm          | 234.65% |
| l 190.800 | -2.4                 | -0.0007    | 0.00144  | mg/L        | -0.0007    | 0.00144  | ppm          | 219.42% |
| 292.402   | -17.6                | -0.0002    | 0.00089  | mg/L        | -0.0002    | 0.00089  | ppm          | 568.37% |
| i 213.856 | -12.7                | -0.0001    | 0.00025  | mg/L        | -0.0001    | 0.00025  | ppm          | 197.44% |

alibration Summary

|                   |               |             |
|-------------------|---------------|-------------|
| ethod: 23ME ICP-M | Date: 5/19/03 | 11:12:11 AM |
|-------------------|---------------|-------------|

| Element   | Stds | Equation         | Intercept | Slope     | Curvature | Corr. Coeff. |
|-----------|------|------------------|-----------|-----------|-----------|--------------|
| j 328.068 | 3    | Linear-thru-Zero | 0.0       | 173268.7  | 0.00000   | 0.999717     |
| l 308.215 | 3    | Linear-thru-Zero | 0.0       | 29644.1   | 0.00000   | 0.999093     |
| s 188.979 | 3    | Linear-thru-Zero | 0.0       | 2988.9    | 0.00000   | 0.999851     |
| a 233.527 | 3    | Linear-thru-Zero | 0.0       | 380500.3  | 0.00000   | 0.999054     |
| e 313.107 | 3    | Linear-thru-Zero | 0.0       | 2320150.4 | 0.00000   | 0.999799     |
| a 227.547 | 3    | Linear-thru-Zero | 0.0       | 198.7     | 0.00000   | 0.999372     |
| i 228.802 | 3    | Linear-thru-Zero | 0.0       | 112353.8  | 0.00000   | 0.999568     |
| o 228.616 | 3    | Linear-thru-Zero | 0.0       | 91089.5   | 0.00000   | 0.999146     |
| r 267.716 | 3    | Linear-thru-Zero | 0.0       | 90202.0   | 0.00000   | 0.999272     |
| i 324.754 | 3    | Linear-thru-Zero | 0.0       | 249432.4  | 0.00000   | 0.999539     |
| e 273.955 | 3    | Linear-thru-Zero | 0.0       | 40140.8   | 0.00000   | 0.999198     |
| 766.491   | 3    | Non-Linear       | -1199.1   | 16151.5   | 119.22867 | 0.998501     |
| j 279.079 | 3    | Linear-thru-Zero | 0.0       | 40294.7   | 0.00000   | 0.999303     |
| i 257.610 | 3    | Linear-thru-Zero | 0.0       | 1281200.2 | 0.00000   | 0.999592     |
| o 202.030 | 3    | Linear-thru-Zero | 0.0       | 16373.9   | 0.00000   | 0.999494     |
| a 330.237 | 3    | Non-Linear       | 106.3     | 665.6     | -0.04154  | 0.999986     |
| . 231.604 | 3    | Linear-thru-Zero | 0.0       | 43853.8   | 0.00000   | 0.999055     |
| o 220.353 | 3    | Linear-thru-Zero | 0.0       | 16223.0   | 0.00000   | 0.999028     |
| o 206.833 | 3    | Linear-thru-Zero | 0.0       | 3864.0    | 0.00000   | 0.999800     |
| e 196.026 | 3    | Linear-thru-Zero | 0.0       | 2543.1    | 0.00000   | 0.999385     |
| l 190.800 | 3    | Linear-thru-Zero | 0.0       | 3641.0    | 0.00000   | 0.999592     |

|           |   |                  |     |          |         |          |
|-----------|---|------------------|-----|----------|---------|----------|
| 292.402   | 3 | Linear-thru-Zero | 0.0 | 112158.5 | 0.00000 | 0.999366 |
| n 213.856 | 3 | Linear-thru-Zero | 0.0 | 99752.5  | 0.00000 | 0.999559 |

uplicate Data  
D: M-BL 03M1479

Date: 5/19/03 11:14:18 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 1758.4        | 52.4                | 0.0003 mg/L       | 0.0003 ppm         |
| 1    | Al 308.215 | 3736.8        | -84.0               | -0.0028 mg/L      | -0.0028 ppm        |
| 1    | As 188.979 | 133.4         | 5.5                 | 0.0018 mg/L       | 0.0018 ppm         |
| 1    | Ba 233.527 | -1219.8       | -117.9              | -0.0003 mg/L      | -0.0003 ppm        |
| 1    | Be 313.107 | 295.1         | 574.1               | 0.0002 mg/L       | 0.0002 ppm         |
| 1    | Ca 227.547 | 646.5         | 43.6                | 0.2193 mg/L       | 0.2193 ppm         |
| 1    | Cd 228.802 | 48.7          | -1.3                | 0.0000 mg/L       | 0.0000 ppm         |
| 1    | Co 228.616 | -553.7        | 16.7                | 0.0002 mg/L       | 0.0002 ppm         |
| 1    | Cr 267.716 | 65.3          | -32.6               | -0.0004 mg/L      | -0.0004 ppm        |
| 1    | Cu 324.754 | 4107.3        | 354.8               | 0.0014 mg/L       | 0.0014 ppm         |
| 1    | Fe 273.955 | 323.0         | 132.6               | 0.0033 mg/L       | 0.0033 ppm         |
| 1    | K 766.491  | 1466.8        | 87.9                | 0.0796 mg/L       | 0.0796 ppm         |
| 1    | Mg 279.079 | 3688.0        | 820.5               | 0.0204 mg/L       | 0.0204 ppm         |
| 1    | Mn 257.610 | 1270.0        | 201.6               | 0.0002 mg/L       | 0.0002 ppm         |
| 1    | Mo 202.030 | -158.2        | 1.0                 | 0.0001 mg/L       | 0.0001 ppm         |
| 1    | Na 330.237 | 4624.0        | 152.1               | 0.0688 mg/L       | 0.0688 ppm         |
| 1    | Ni 231.604 | -404.6        | 21.6                | 0.0005 mg/L       | 0.0005 ppm         |
| 1    | Pb 220.353 | 422.3         | -6.2                | -0.0004 mg/L      | -0.0004 ppm        |
| 1    | Sb 206.833 | 85.4          | 4.5                 | 0.0012 mg/L       | 0.0012 ppm         |
| 1    | Se 196.026 | 111.2         | 0.7                 | 0.0003 mg/L       | 0.0003 ppm         |
| 1    | Tl 190.800 | 374.9         | -14.3               | -0.0039 mg/L      | -0.0039 ppm        |
| 1    | V 292.402  | -364.7        | 64.8                | 0.0006 mg/L       | 0.0006 ppm         |
| 1    | Zn 213.856 | -389.5        | -95.7               | -0.0010 mg/L      | -0.0010 ppm        |
| 2    | Ag 328.068 | 1668.5        | -37.5               | -0.0002 mg/L      | -0.0002 ppm        |
| 2    | Al 308.215 | 3780.8        | -40.0               | -0.0013 mg/L      | -0.0013 ppm        |
| 2    | As 188.979 | 126.9         | -1.0                | -0.0003 mg/L      | -0.0003 ppm        |
| 2    | Ba 233.527 | -1088.3       | 13.5                | 0.0000 mg/L       | 0.0000 ppm         |
| 2    | Be 313.107 | 328.5         | 607.5               | 0.0003 mg/L       | 0.0003 ppm         |
| 2    | Ca 227.547 | 647.8         | 44.9                | 0.2260 mg/L       | 0.2260 ppm         |
| 2    | Cd 228.802 | 47.1          | -2.9                | 0.0000 mg/L       | 0.0000 ppm         |
| 2    | Co 228.616 | -568.7        | 1.7                 | 0.0000 mg/L       | 0.0000 ppm         |
| 2    | Cr 267.716 | 93.2          | -4.7                | -0.0001 mg/L      | -0.0001 ppm        |
| 2    | Cu 324.754 | 4261.5        | 509.0               | 0.0020 mg/L       | 0.0020 ppm         |
| 2    | Fe 273.955 | 378.9         | 188.5               | 0.0047 mg/L       | 0.0047 ppm         |
| 2    | K 766.491  | 1488.5        | 109.6               | 0.0810 mg/L       | 0.0810 ppm         |
| 2    | Mg 279.079 | 3812.8        | 945.2               | 0.0235 mg/L       | 0.0235 ppm         |
| 2    | Mn 257.610 | 1388.5        | 320.1               | 0.0002 mg/L       | 0.0002 ppm         |
| 2    | Mo 202.030 | -152.1        | 7.0                 | 0.0004 mg/L       | 0.0004 ppm         |
| 2    | Na 330.237 | 4750.3        | 278.4               | 0.2586 mg/L       | 0.2586 ppm         |
| 2    | Ni 231.604 | -412.5        | 13.7                | 0.0003 mg/L       | 0.0003 ppm         |
| 2    | Pb 220.353 | 383.9         | -44.5               | -0.0027 mg/L      | -0.0027 ppm        |
| 2    | Sb 206.833 | 83.5          | 2.5                 | 0.0006 mg/L       | 0.0006 ppm         |
| 2    | Se 196.026 | 125.9         | 15.3                | 0.0060 mg/L       | 0.0060 ppm         |
| 2    | Tl 190.800 | 384.0         | -5.2                | -0.0014 mg/L      | -0.0014 ppm        |
| 2    | V 292.402  | -354.6        | 74.9                | 0.0007 mg/L       | 0.0007 ppm         |
| 2    | Zn 213.856 | -383.6        | -89.9               | -0.0009 mg/L      | -0.0009 ppm        |
| 3    | Ag 328.068 | 1895.4        | 189.3               | 0.0011 mg/L       | 0.0011 ppm         |
| 3    | Al 308.215 | 3735.1        | -85.8               | -0.0029 mg/L      | -0.0029 ppm        |
| 3    | As 188.979 | 137.7         | 9.8                 | 0.0033 mg/L       | 0.0033 ppm         |
| 3    | Ba 233.527 | -1060.5       | 41.3                | 0.0001 mg/L       | 0.0001 ppm         |
| 3    | Be 313.107 | 411.0         | 689.9               | 0.0003 mg/L       | 0.0003 ppm         |
| 3    | Ca 227.547 | 678.3         | 75.4                | 0.3793 mg/L       | 0.3793 ppm         |
| 3    | Cd 228.802 | 65.5          | 15.6                | 0.0001 mg/L       | 0.0001 ppm         |
| 3    | Co 228.616 | -556.8        | 13.5                | 0.0001 mg/L       | 0.0001 ppm         |
| 3    | Cr 267.716 | 100.4         | 2.5                 | 0.0000 mg/L       | 0.0000 ppm         |
| 3    | Cu 324.754 | 3986.7        | 234.2               | 0.0009 mg/L       | 0.0009 ppm         |
| 3    | Fe 273.955 | 438.2         | 247.7               | 0.0062 mg/L       | 0.0062 ppm         |
| 3    | K 766.491  | 1479.3        | 100.4               | 0.0804 mg/L       | 0.0804 ppm         |
| 3    | Mg 279.079 | 3956.3        | 1088.8              | 0.0270 mg/L       | 0.0270 ppm         |
| 3    | Mn 257.610 | 1458.3        | 389.9               | 0.0003 mg/L       | 0.0003 ppm         |
| 3    | Mo 202.030 | -162.7        | -3.5                | -0.0002 mg/L      | -0.0002 ppm        |

|              |        |        |              |             |
|--------------|--------|--------|--------------|-------------|
| 3 Na 330.237 | 4740.6 | 268.7  | 0.2440 mg/L  | 0.2440 ppm  |
| 3 Ni 231.604 | -401.7 | 24.5   | 0.0006 mg/L  | 0.0006 ppm  |
| 3 Pb 220.353 | 414.9  | -13.6  | -0.0008 mg/L | -0.0008 ppm |
| 3 Sb 206.833 | 72.8   | -8.1   | -0.0021 mg/L | -0.0021 ppm |
| 3 Se 196.026 | 121.3  | 10.7   | 0.0042 mg/L  | 0.0042 ppm  |
| 3 Tl 190.800 | 372.8  | -16.4  | -0.0045 mg/L | -0.0045 ppm |
| 3 V 292.402  | -518.3 | -88.9  | -0.0008 mg/L | -0.0008 ppm |
| 3 Zn 213.856 | -409.6 | -115.8 | -0.0012 mg/L | -0.0012 ppm |

Mean Data

D: M-BL 03M1479  
 Sample Qty: 1.0000 mL  
 Seq. No.: 12  
 Prep. Vol.: 1.0 mL  
 Data: Original  
 Sample No.: 1  
 Dilution: 1.0: 1.0  
 A/S Pos: 10  
 Date: 5/19/03 11:14:18 AM

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| g 328.068 | 68.0                 | 0.0004     | 0.00066  | mg/L        | 0.0004     | 0.00066  | ppm          | 167.86% |
| l 308.215 | -69.9                | -0.0024    | 0.00087  | mg/L        | -0.0024    | 0.00087  | ppm          | 37.07%  |
| s 188.979 | 4.8                  | 0.0016     | 0.00182  | mg/L        | 0.0016     | 0.00182  | ppm          | 114.46% |
| a 233.527 | -21.0                | -0.0001    | 0.00022  | mg/L        | -0.0001    | 0.00022  | ppm          | 404.11% |
| e 313.107 | 623.8                | 0.0003     | 0.00003  | mg/L        | 0.0003     | 0.00003  | ppm          | 9.56%   |
| a 227.547 | 54.6                 | 0.2749     | 0.09053  | mg/L        | 0.2749     | 0.09053  | ppm          | 32.93%  |
| d 228.802 | 3.8                  | 0.0000     | 0.00009  | mg/L        | 0.0000     | 0.00009  | ppm          | 269.91% |
| o 228.616 | 10.6                 | 0.0001     | 0.00009  | mg/L        | 0.0001     | 0.00009  | ppm          | 74.46%  |
| r 267.716 | -11.6                | -0.0001    | 0.00021  | mg/L        | -0.0001    | 0.00021  | ppm          | 159.56% |
| u 324.754 | 366.0                | 0.0015     | 0.00055  | mg/L        | 0.0015     | 0.00055  | ppm          | 37.63%  |
| e 273.955 | 189.6                | 0.0047     | 0.00143  | mg/L        | 0.0047     | 0.00143  | ppm          | 30.38%  |
| 766.491   | 99.3                 | 0.0803     | 0.00067  | mg/L        | 0.0803     | 0.00067  | ppm          | 0.84%   |
| g 279.079 | 951.5                | 0.0236     | 0.00333  | mg/L        | 0.0236     | 0.00333  | ppm          | 14.11%  |
| n 257.610 | 303.8                | 0.0002     | 0.00007  | mg/L        | 0.0002     | 0.00007  | ppm          | 31.33%  |
| o 202.030 | 1.5                  | 0.0001     | 0.00032  | mg/L        | 0.0001     | 0.00032  | ppm          | 358.30% |
| a 330.237 | 233.1                | 0.1905     | 0.10563  | mg/L        | 0.1905     | 0.10563  | ppm          | 55.45%  |
| i 231.604 | 20.0                 | 0.0005     | 0.00013  | mg/L        | 0.0005     | 0.00013  | ppm          | 27.96%  |
| b 220.353 | -21.4                | -0.0013    | 0.00125  | mg/L        | -0.0013    | 0.00125  | ppm          | 94.96%  |
| b 206.833 | -0.4                 | -0.0001    | 0.00175  | mg/L        | -0.0001    | 0.00175  | ppm          | >999.9% |
| e 196.026 | 8.9                  | 0.0035     | 0.00295  | mg/L        | 0.0035     | 0.00295  | ppm          | 84.12%  |
| l 190.800 | -12.0                | -0.0033    | 0.00163  | mg/L        | -0.0033    | 0.00163  | ppm          | 49.58%  |
| 292.402   | 16.9                 | 0.0002     | 0.00082  | mg/L        | 0.0002     | 0.00082  | ppm          | 542.00% |
| n 213.856 | -100.5               | -0.0010    | 0.00014  | mg/L        | -0.0010    | 0.00014  | ppm          | 13.56%  |

Replicate Data

D: Calib Blank  
 Date: 5/19/03 11:16:38 AM

| Element      | Net Intensity | Corrected Intensity | Calib Conc. Units |
|--------------|---------------|---------------------|-------------------|
| 1 Ag 328.068 | 1741.0        | 1741.0              | 0 mg/L            |
| 1 Al 308.215 | 3470.1        | 3470.1              | 0 mg/L            |
| 1 As 188.979 | 129.6         | 129.6               | 0 mg/L            |
| 1 Ba 233.527 | -1046.9       | -1046.9             | 0 mg/L            |
| 1 Be 313.107 | 422.9         | 422.9               | 0 mg/L            |
| 1 Ca 227.547 | 656.2         | 656.2               | 0 mg/L            |
| 1 Cd 228.802 | 25.9          | 25.9                | 0 mg/L            |
| 1 Co 228.616 | -549.5        | -549.5              | 0 mg/L            |
| 1 Cr 267.716 | 71.8          | 71.8                | 0 mg/L            |
| 1 Cu 324.754 | 3457.6        | 3457.6              | 0 mg/L            |
| 1 Fe 273.955 | 371.7         | 371.7               | 0 mg/L            |
| 1 K 766.491  | 1258.6        | 1258.6              | 0 mg/L            |
| 1 Mg 279.079 | 3294.2        | 3294.2              | 0 mg/L            |
| 1 Mn 257.610 | 1488.0        | 1488.0              | 0 mg/L            |
| 1 Mo 202.030 | -162.1        | -162.1              | 0 mg/L            |
| 1 Na 330.237 | 4912.9        | 4912.9              | 0 mg/L            |
| 1 Ni 231.604 | -413.7        | -413.7              | 0 mg/L            |
| 1 Pb 220.353 | 413.0         | 413.0               | 0 mg/L            |
| 1 Sb 206.833 | 73.1          | 73.1                | 0 mg/L            |
| 1 Se 196.026 | 112.7         | 112.7               | 0 mg/L            |
| 1 Tl 190.800 | 364.4         | 364.4               | 0 mg/L            |
| 1 V 292.402  | -437.7        | -437.7              | 0 mg/L            |
| 1 Zn 213.856 | -423.3        | -423.3              | 0 mg/L            |
| 2 Ag 328.068 | 1762.6        | 1762.6              | 0 mg/L            |
| 2 Al 308.215 | 3607.7        | 3607.7              | 0 mg/L            |

|   |    |         |        |        |        |
|---|----|---------|--------|--------|--------|
| 2 | As | 188.979 | 129.1  | 129.1  | 0 mg/L |
| 2 | Ba | 233.527 | -986.7 | -986.7 | 0 mg/L |
| 2 | Be | 313.107 | 139.3  | 139.3  | 0 mg/L |
| 2 | Ca | 227.547 | 654.2  | 654.2  | 0 mg/L |
| 2 | Cd | 228.802 | 31.1   | 31.1   | 0 mg/L |
| 2 | Co | 228.616 | -557.5 | -557.5 | 0 mg/L |
| 2 | Cr | 267.716 | 68.8   | 68.8   | 0 mg/L |
| 2 | Cu | 324.754 | 3258.4 | 3258.4 | 0 mg/L |
| 2 | Fe | 273.955 | 458.0  | 458.0  | 0 mg/L |
| 2 | K  | 766.491 | 1539.0 | 1539.0 | 0 mg/L |
| 2 | Mg | 279.079 | 3311.6 | 3311.6 | 0 mg/L |
| 2 | Mn | 257.610 | 1310.9 | 1310.9 | 0 mg/L |
| 2 | Mo | 202.030 | -150.9 | -150.9 | 0 mg/L |
| 2 | Na | 330.237 | 4511.0 | 4511.0 | 0 mg/L |
| 2 | Ni | 231.604 | -390.8 | -390.8 | 0 mg/L |
| 2 | Pb | 220.353 | 399.9  | 399.9  | 0 mg/L |
| 2 | Sb | 206.833 | 78.6   | 78.6   | 0 mg/L |
| 2 | Se | 196.026 | 114.7  | 114.7  | 0 mg/L |
| 2 | Tl | 190.800 | 368.6  | 368.6  | 0 mg/L |
| 2 | V  | 292.402 | -475.2 | -475.2 | 0 mg/L |
| 2 | Zn | 213.856 | -435.1 | -435.1 | 0 mg/L |

|   |    |         |         |         |        |
|---|----|---------|---------|---------|--------|
| 3 | Ag | 328.068 | 1823.9  | 1823.9  | 0 mg/L |
| 3 | Al | 308.215 | 3676.3  | 3676.3  | 0 mg/L |
| 3 | As | 188.979 | 131.1   | 131.1   | 0 mg/L |
| 3 | Ba | 233.527 | -1035.0 | -1035.0 | 0 mg/L |
| 3 | Be | 313.107 | 208.2   | 208.2   | 0 mg/L |
| 3 | Ca | 227.547 | 660.1   | 660.1   | 0 mg/L |
| 3 | Cd | 228.802 | 43.4    | 43.4    | 0 mg/L |
| 3 | Co | 228.616 | -555.8  | -555.8  | 0 mg/L |
| 3 | Cr | 267.716 | 85.2    | 85.2    | 0 mg/L |
| 3 | Cu | 324.754 | 3280.6  | 3280.6  | 0 mg/L |
| 3 | Fe | 273.955 | 247.1   | 247.1   | 0 mg/L |
| 3 | K  | 766.491 | 1838.8  | 1838.8  | 0 mg/L |
| 3 | Mg | 279.079 | 3508.1  | 3508.1  | 0 mg/L |
| 3 | Mn | 257.610 | 1200.7  | 1200.7  | 0 mg/L |
| 3 | Mo | 202.030 | -145.0  | -145.0  | 0 mg/L |
| 3 | Na | 330.237 | 4522.6  | 4522.6  | 0 mg/L |
| 3 | Ni | 231.604 | -426.3  | -426.3  | 0 mg/L |
| 3 | Pb | 220.353 | 403.8   | 403.8   | 0 mg/L |
| 3 | Sb | 206.833 | 88.7    | 88.7    | 0 mg/L |
| 3 | Se | 196.026 | 116.9   | 116.9   | 0 mg/L |
| 3 | Tl | 190.800 | 371.5   | 371.5   | 0 mg/L |
| 3 | V  | 292.402 | -232.2  | -232.2  | 0 mg/L |
| 3 | Zn | 213.856 | -453.3  | -453.3  | 0 mg/L |

Mean Data -----  
 D: Calib Blank

Seq. No.: 1  
 Data: Original

A/S Pos: 1  
 Date: 5/19/03 11:16:38 AM

| Element    | Mean    | Corr. | Std.Dev. | RSD    | Conc. | Calib Units |
|------------|---------|-------|----------|--------|-------|-------------|
| Ag 328.068 | 1775.8  |       | 42.99    | 2.42%  | 0     | mg/L        |
| Al 308.215 | 3584.7  |       | 104.97   | 2.93%  | 0     | mg/L        |
| As 188.979 | 129.9   |       | 1.03     | 0.79%  | 0     | mg/L        |
| Ba 233.527 | -1022.9 |       | 31.89    | 3.12%  | 0     | mg/L        |
| Be 313.107 | 256.8   |       | 147.89   | 57.59% | 0     | mg/L        |
| Ca 227.547 | 656.8   |       | 3.00     | 0.46%  | 0     | mg/L        |
| Cd 228.802 | 33.5    |       | 8.98     | 26.84% | 0     | mg/L        |
| Co 228.616 | -554.2  |       | 4.21     | 0.76%  | 0     | mg/L        |
| Cr 267.716 | 75.3    |       | 8.73     | 11.60% | 0     | mg/L        |
| Cu 324.754 | 3332.2  |       | 109.16   | 3.28%  | 0     | mg/L        |
| Fe 273.955 | 358.9   |       | 106.02   | 29.54% | 0     | mg/L        |
| K 766.491  | 1545.5  |       | 290.20   | 18.78% | 0     | mg/L        |
| Mg 279.079 | 3371.3  |       | 118.78   | 3.52%  | 0     | mg/L        |
| Mn 257.610 | 1333.2  |       | 144.96   | 10.87% | 0     | mg/L        |
| Mo 202.030 | -152.7  |       | 8.66     | 5.67%  | 0     | mg/L        |
| Na 330.237 | 4648.8  |       | 228.74   | 4.92%  | 0     | mg/L        |
| Ni 231.604 | -410.3  |       | 18.00    | 4.39%  | 0     | mg/L        |
| Pb 220.353 | 405.5   |       | 6.72     | 1.66%  | 0     | mg/L        |
| Sb 206.833 | 80.1    |       | 7.95     | 9.92%  | 0     | mg/L        |
| Se 196.026 | 114.8   |       | 2.09     | 1.82%  | 0     | mg/L        |

|           |        |        |        |        |
|-----------|--------|--------|--------|--------|
| l 190.800 | 368.2  | 3.61   | 0.98%  | 0 mg/L |
| 292.402   | -381.7 | 130.83 | 34.28% | 0 mg/L |
| n 213.856 | -437.2 | 15.16  | 3.47%  | 0 mg/L |

alibration Summary

ethod: 23ME ICP-M

Date: 5/19/03

11:17:36 AM

| Element   | Stds | Equation         | Intercept | Slope     | Curvature | Corr. Coeff. |
|-----------|------|------------------|-----------|-----------|-----------|--------------|
| g 328.068 | 3    | Linear-thru-Zero | 0.0       | 173268.7  | 0.00000   | 0.999717     |
| l 308.215 | 3    | Linear-thru-Zero | 0.0       | 29644.1   | 0.00000   | 0.999093     |
| s 188.979 | 3    | Linear-thru-Zero | 0.0       | 2988.9    | 0.00000   | 0.999851     |
| a 233.527 | 3    | Linear-thru-Zero | 0.0       | 380500.3  | 0.00000   | 0.999054     |
| e 313.107 | 3    | Linear-thru-Zero | 0.0       | 2320150.4 | 0.00000   | 0.999799     |
| a 227.547 | 3    | Linear-thru-Zero | 0.0       | 198.7     | 0.00000   | 0.999372     |
| d 228.802 | 3    | Linear-thru-Zero | 0.0       | 112353.8  | 0.00000   | 0.999568     |
| o 228.616 | 3    | Linear-thru-Zero | 0.0       | 91089.5   | 0.00000   | 0.999146     |
| r 267.716 | 3    | Linear-thru-Zero | 0.0       | 90202.0   | 0.00000   | 0.999272     |
| u 324.754 | 3    | Linear-thru-Zero | 0.0       | 249432.4  | 0.00000   | 0.999539     |
| e 273.955 | 3    | Linear-thru-Zero | 0.0       | 40140.8   | 0.00000   | 0.999198     |
| 766.491   | 3    | Non-Linear       | -1199.1   | 16151.5   | 119.22867 | 0.998501     |
| g 279.079 | 3    | Linear-thru-Zero | 0.0       | 40294.7   | 0.00000   | 0.999303     |
| n 257.610 | 3    | Linear-thru-Zero | 0.0       | 1281200.2 | 0.00000   | 0.999592     |
| o 202.030 | 3    | Linear-thru-Zero | 0.0       | 16373.9   | 0.00000   | 0.999494     |
| a 330.237 | 3    | Non-Linear       | 106.3     | 665.6     | -0.04154  | 0.999986     |
| i 231.604 | 3    | Linear-thru-Zero | 0.0       | 43853.8   | 0.00000   | 0.999055     |
| b 220.353 | 3    | Linear-thru-Zero | 0.0       | 16223.0   | 0.00000   | 0.999028     |
| b 206.833 | 3    | Linear-thru-Zero | 0.0       | 3864.0    | 0.00000   | 0.999800     |
| e 196.026 | 3    | Linear-thru-Zero | 0.0       | 2543.1    | 0.00000   | 0.999385     |
| l 190.800 | 3    | Linear-thru-Zero | 0.0       | 3641.0    | 0.00000   | 0.999592     |
| 292.402   | 3    | Linear-thru-Zero | 0.0       | 112158.5  | 0.00000   | 0.999366     |
| n 213.856 | 3    | Linear-thru-Zero | 0.0       | 99752.5   | 0.00000   | 0.999559     |

alibration Summary

ethod: 23ME ICP-M

Date: 5/19/03

11:17:51 AM

| Element   | Stds | Equation         | Intercept | Slope     | Curvature | Corr. Coeff. |
|-----------|------|------------------|-----------|-----------|-----------|--------------|
| y 328.068 | 3    | Linear-thru-Zero | 0.0       | 173268.7  | 0.00000   | 0.999717     |
| l 308.215 | 3    | Linear-thru-Zero | 0.0       | 29644.1   | 0.00000   | 0.999093     |
| s 188.979 | 3    | Linear-thru-Zero | 0.0       | 2988.9    | 0.00000   | 0.999851     |
| a 233.527 | 3    | Linear-thru-Zero | 0.0       | 380500.3  | 0.00000   | 0.999054     |
| e 313.107 | 3    | Linear-thru-Zero | 0.0       | 2320150.4 | 0.00000   | 0.999799     |
| a 227.547 | 3    | Linear-thru-Zero | 0.0       | 198.7     | 0.00000   | 0.999372     |
| d 228.802 | 3    | Linear-thru-Zero | 0.0       | 112353.8  | 0.00000   | 0.999568     |
| o 228.616 | 3    | Linear-thru-Zero | 0.0       | 91089.5   | 0.00000   | 0.999146     |
| r 267.716 | 3    | Linear-thru-Zero | 0.0       | 90202.0   | 0.00000   | 0.999272     |
| u 324.754 | 3    | Linear-thru-Zero | 0.0       | 249432.4  | 0.00000   | 0.999539     |
| e 273.955 | 3    | Linear-thru-Zero | 0.0       | 40140.8   | 0.00000   | 0.999198     |
| 766.491   | 3    | Non-Linear       | -1199.1   | 16151.5   | 119.22867 | 0.998501     |
| g 279.079 | 3    | Linear-thru-Zero | 0.0       | 40294.7   | 0.00000   | 0.999303     |
| n 257.610 | 3    | Linear-thru-Zero | 0.0       | 1281200.2 | 0.00000   | 0.999592     |
| o 202.030 | 3    | Linear-thru-Zero | 0.0       | 16373.9   | 0.00000   | 0.999494     |
| a 330.237 | 3    | Non-Linear       | 106.3     | 665.6     | -0.04154  | 0.999986     |
| i 231.604 | 3    | Linear-thru-Zero | 0.0       | 43853.8   | 0.00000   | 0.999055     |
| b 220.353 | 3    | Linear-thru-Zero | 0.0       | 16223.0   | 0.00000   | 0.999028     |
| b 206.833 | 3    | Linear-thru-Zero | 0.0       | 3864.0    | 0.00000   | 0.999800     |
| e 196.026 | 3    | Linear-thru-Zero | 0.0       | 2543.1    | 0.00000   | 0.999385     |
| l 190.800 | 3    | Linear-thru-Zero | 0.0       | 3641.0    | 0.00000   | 0.999592     |
| 292.402   | 3    | Linear-thru-Zero | 0.0       | 112158.5  | 0.00000   | 0.999366     |
| n 213.856 | 3    | Linear-thru-Zero | 0.0       | 99752.5   | 0.00000   | 0.999559     |

uplicate Data

) : CCV 1447B

Date: 5/19/03

11:19:18 AM

| pl# Element  | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|--------------|---------------|---------------------|-------------------|--------------------|
| 1 Ag 328.068 | 171223.5      | 169447.7            | 0.9779 mg/L       |                    |
| 1 Al 308.215 | 153405.9      | 149821.2            | 5.054 mg/L        |                    |

|   |    |         |           |           |        |      |
|---|----|---------|-----------|-----------|--------|------|
| 1 | As | 188.979 | 1554.7    | 1424.8    | 0.4822 | mg/L |
| 1 | Ba | 233.527 | 1920469.5 | 1921492.4 | 5.050  | mg/L |
| 1 | Be | 313.107 | 1125271.7 | 1125014.9 | 0.4849 | mg/L |
| 1 | Ca | 227.547 | 10647.7   | 9990.8    | 50.28  | mg/L |
| 1 | Cd | 228.802 | 109422.9  | 109389.4  | 0.9736 | mg/L |
| 1 | Co | 228.616 | 180478.9  | 181033.1  | 1.987  | mg/L |
| 1 | Cr | 267.716 | 45223.3   | 45148.1   | 0.5005 | mg/L |
| 1 | Cu | 324.754 | 492021.6  | 488689.3  | 1.959  | mg/L |
| 1 | Fe | 273.955 | 203049.6  | 202690.7  | 5.049  | mg/L |
| 1 | K  | 766.491 | 288746.3  | 287200.9  | 15.97  | mg/L |
| 1 | Mg | 279.079 | 1009541.3 | 1006170.0 | 24.97  | mg/L |
| 1 | Mn | 257.610 | 2687791.5 | 2686458.3 | 2.097  | mg/L |
| 1 | Mo | 202.030 | 32139.3   | 32292.0   | 1.972  | mg/L |
| 1 | Na | 330.237 | 69336.8   | 64687.9   | 97.63  | mg/L |
| 1 | Ni | 231.604 | 86652.9   | 87063.2   | 1.985  | mg/L |
| 1 | Pb | 220.353 | 8792.2    | 8386.6    | 0.5170 | mg/L |
| 1 | Sb | 206.833 | 7761.4    | 7681.3    | 1.973  | mg/L |
| 1 | Se | 196.026 | 1425.3    | 1310.5    | 0.5153 | mg/L |
| 1 | Tl | 190.800 | 2138.5    | 1770.4    | 0.4862 | mg/L |
| 1 | V  | 292.402 | 224347.9  | 224729.6  | 2.004  | mg/L |
| 1 | Zn | 213.856 | 194457.6  | 194894.8  | 1.954  | mg/L |
|   |    |         |           |           |        |      |
| 2 | Ag | 328.068 | 179718.6  | 177942.8  | 1.027  | mg/L |
| 2 | Al | 308.215 | 160921.8  | 157337.1  | 5.308  | mg/L |
| 2 | As | 188.979 | 1550.3    | 1420.4    | 0.4810 | mg/L |
| 2 | Ba | 233.527 | 2007917.3 | 2008940.2 | 5.280  | mg/L |
| 2 | Be | 313.107 | 1177215.7 | 1176958.9 | 0.5073 | mg/L |
| 2 | Ca | 227.547 | 11016.0   | 10359.2   | 52.13  | mg/L |
| 2 | Cd | 228.802 | 115004.8  | 114971.4  | 1.023  | mg/L |
| 2 | Co | 228.616 | 188224.3  | 188778.6  | 2.072  | mg/L |
| 2 | Cr | 267.716 | 47414.3   | 47339.0   | 0.5248 | mg/L |
| 2 | Cu | 324.754 | 515679.8  | 512347.6  | 2.054  | mg/L |
| 2 | Fe | 273.955 | 212602.4  | 212243.4  | 5.287  | mg/L |
| 2 | K  | 766.491 | 276254.1  | 274708.6  | 15.34  | mg/L |
| 2 | Mg | 279.079 | 1056845.5 | 1053474.2 | 26.14  | mg/L |
| 2 | Mn | 257.610 | 2599807.9 | 2598474.7 | 2.028  | mg/L |
| 2 | Mo | 202.030 | 33811.1   | 33963.8   | 2.074  | mg/L |
| 2 | Na | 330.237 | 72871.7   | 68222.8   | 103.0  | mg/L |
| 2 | Ni | 231.604 | 90202.7   | 90613.0   | 2.066  | mg/L |
| 2 | Pb | 220.353 | 8783.0    | 8377.5    | 0.5164 | mg/L |
| 2 | Sb | 206.833 | 7763.9    | 7683.8    | 1.973  | mg/L |
| 2 | Se | 196.026 | 1415.0    | 1300.2    | 0.5113 | mg/L |
| 2 | Tl | 190.800 | 2113.2    | 1745.0    | 0.4793 | mg/L |
| 2 | V  | 292.402 | 234705.3  | 235087.0  | 2.096  | mg/L |
| 2 | Zn | 213.856 | 204630.6  | 205067.9  | 2.056  | mg/L |
|   |    |         |           |           |        |      |
| 3 | Ag | 328.068 | 175660.3  | 173884.5  | 1.004  | mg/L |
| 3 | Al | 308.215 | 157391.9  | 153807.2  | 5.188  | mg/L |
| 3 | As | 188.979 | 1568.9    | 1438.9    | 0.4871 | mg/L |
| 3 | Ba | 233.527 | 1964323.1 | 1965346.0 | 5.165  | mg/L |
| 3 | Be | 313.107 | 1152097.8 | 1151841.1 | 0.4965 | mg/L |
| 3 | Ca | 227.547 | 10765.7   | 10108.8   | 50.87  | mg/L |
| 3 | Cd | 228.802 | 112235.2  | 112201.8  | 0.9986 | mg/L |
| 3 | Co | 228.616 | 184328.7  | 184883.0  | 2.030  | mg/L |
| 3 | Cr | 267.716 | 46442.7   | 46367.4   | 0.5140 | mg/L |
| 3 | Cu | 324.754 | 504044.1  | 500711.8  | 2.007  | mg/L |
| 3 | Fe | 273.955 | 208040.8  | 207681.9  | 5.174  | mg/L |
| 3 | K  | 766.491 | 281968.1  | 280422.6  | 15.63  | mg/L |
| 3 | Mg | 279.079 | 1034232.0 | 1030860.7 | 25.58  | mg/L |
| 3 | Mn | 257.610 | 2637799.5 | 2636466.3 | 2.058  | mg/L |
| 3 | Mo | 202.030 | 32917.2   | 33069.9   | 2.020  | mg/L |
| 3 | Na | 330.237 | 71234.5   | 66585.7   | 100.5  | mg/L |
| 3 | Ni | 231.604 | 88426.9   | 88837.2   | 2.026  | mg/L |
| 3 | Pb | 220.353 | 8744.6    | 8339.1    | 0.5140 | mg/L |
| 3 | Sb | 206.833 | 7735.6    | 7655.4    | 1.966  | mg/L |
| 3 | Se | 196.026 | 1418.0    | 1303.2    | 0.5124 | mg/L |
| 3 | Tl | 190.800 | 2164.8    | 1796.6    | 0.4934 | mg/L |
| 3 | V  | 292.402 | 228927.3  | 229309.0  | 2.045  | mg/L |
| 3 | Zn | 213.856 | 199935.6  | 200372.8  | 2.009  | mg/L |

Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03 11:19:18 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Ag 328.068 | 173758.3             | 1.003      | 0.0245   | mg/L        |            |          |              | 2.45% |
| Al 308.215 | 153655.2             | 5.183      | 0.1268   | mg/L        |            |          |              | 2.45% |
| As 188.979 | 1428.0               | 0.4834     | 0.00321  | mg/L        |            |          |              | 0.66% |
| Ba 233.527 | 1965259.5            | 5.165      | 0.1149   | mg/L        |            |          |              | 2.22% |
| Be 313.107 | 1151271.6            | 0.4962     | 0.01120  | mg/L        |            |          |              | 2.26% |
| Ca 227.547 | 10153.0              | 51.09      | 0.947    | mg/L        |            |          |              | 1.85% |
| Cd 228.802 | 112187.5             | 0.9985     | 0.02484  | mg/L        |            |          |              | 2.49% |
| Co 228.616 | 184898.2             | 2.030      | 0.0425   | mg/L        |            |          |              | 2.09% |
| Cr 267.716 | 46284.8              | 0.5131     | 0.01217  | mg/L        |            |          |              | 2.37% |
| Cu 324.754 | 500582.9             | 2.007      | 0.0474   | mg/L        |            |          |              | 2.36% |
| Fe 273.955 | 207538.7             | 5.170      | 0.1190   | mg/L        |            |          |              | 2.30% |
| K 766.491  | 280777.4             | 15.65      | 0.314    | mg/L        |            |          |              | 2.01% |
| Mg 279.079 | 1030168.3            | 25.57      | 0.587    | mg/L        |            |          |              | 2.30% |
| Mn 257.610 | 2640466.4            | 2.061      | 0.0344   | mg/L        |            |          |              | 1.67% |
| Mo 202.030 | 33108.6              | 2.022      | 0.0511   | mg/L        |            |          |              | 2.53% |
| Na 330.237 | 66498.8              | 100.4      | 2.69     | mg/L        |            |          |              | 2.68% |
| Ni 231.604 | 88837.8              | 2.026      | 0.0405   | mg/L        |            |          |              | 2.00% |
| Pb 220.353 | 8367.7               | 0.5158     | 0.00155  | mg/L        |            |          |              | 0.30% |
| Sb 206.833 | 7673.5               | 1.971      | 0.0041   | mg/L        |            |          |              | 0.21% |
| Se 196.026 | 1304.7               | 0.5130     | 0.00208  | mg/L        |            |          |              | 0.41% |
| Tl 190.800 | 1770.7               | 0.4863     | 0.00709  | mg/L        |            |          |              | 1.46% |
| V 292.402  | 229708.6             | 2.048      | 0.0463   | mg/L        |            |          |              | 2.26% |
| Zn 213.856 | 200111.8             | 2.006      | 0.0510   | mg/L        |            |          |              | 2.54% |

uplicate Data  
 D: CCB

Date: 5/19/03 11:22:49 AM

| Element      | Net Intensity | Corrected Intensity | Conc.   | Calib Units | Sample Conc. | Units |
|--------------|---------------|---------------------|---------|-------------|--------------|-------|
| 1 Ag 328.068 | 1916.2        | 140.4               | 0.0008  | mg/L        |              |       |
| 1 Al 308.215 | 3577.6        | -7.1                | -0.0002 | mg/L        |              |       |
| 1 As 188.979 | 128.9         | -1.1                | -0.0004 | mg/L        |              |       |
| 1 Ba 233.527 | -680.7        | 342.2               | 0.0009  | mg/L        |              |       |
| 1 Be 313.107 | 980.5         | 723.7               | 0.0003  | mg/L        |              |       |
| 1 Ca 227.547 | 622.0         | -34.8               | -0.1752 | mg/L        |              |       |
| 1 Cd 228.802 | 10.1          | -23.4               | -0.0002 | mg/L        |              |       |
| 1 Co 228.616 | -489.6        | 64.6                | 0.0007  | mg/L        |              |       |
| 1 Cr 267.716 | 60.3          | -15.0               | -0.0002 | mg/L        |              |       |
| 1 Cu 324.754 | 3107.2        | -225.0              | -0.0009 | mg/L        |              |       |
| 1 Fe 273.955 | 644.6         | 285.7               | 0.0071  | mg/L        |              |       |
| 1 K 766.491  | 1722.7        | 177.3               | 0.0852  | mg/L        |              |       |
| 1 Mg 279.079 | 2990.8        | -380.5              | -0.0094 | mg/L        |              |       |
| 1 Mn 257.610 | 2795.0        | 1461.8              | 0.0011  | mg/L        |              |       |
| 1 Mo 202.030 | -138.0        | 14.6                | 0.0009  | mg/L        |              |       |
| 1 Na 330.237 | 4678.0        | 29.2                | -0.1159 | mg/L        |              |       |
| 1 Ni 231.604 | -396.8        | 13.5                | 0.0003  | mg/L        |              |       |
| 1 Pb 220.353 | 417.4         | 11.9                | 0.0007  | mg/L        |              |       |
| 1 Sb 206.833 | 80.6          | 0.5                 | 0.0001  | mg/L        |              |       |
| 1 Se 196.026 | 116.7         | 1.9                 | 0.0008  | mg/L        |              |       |
| 1 Tl 190.800 | 367.1         | -1.1                | -0.0003 | mg/L        |              |       |
| 1 V 292.402  | -415.6        | -33.9               | -0.0003 | mg/L        |              |       |
| 1 Zn 213.856 | -369.0        | 68.2                | 0.0007  | mg/L        |              |       |
| 2 Ag 328.068 | 1555.8        | -220.0              | -0.0013 | mg/L        |              |       |
| 2 Al 308.215 | 3533.5        | -51.2               | -0.0017 | mg/L        |              |       |
| 2 As 188.979 | 142.2         | 12.2                | 0.0041  | mg/L        |              |       |
| 2 Ba 233.527 | -911.3        | 111.6               | 0.0003  | mg/L        |              |       |
| 2 Be 313.107 | 959.4         | 702.6               | 0.0003  | mg/L        |              |       |
| 2 Ca 227.547 | 634.7         | -22.1               | -0.1112 | mg/L        |              |       |
| 2 Cd 228.802 | 42.8          | 9.4                 | 0.0001  | mg/L        |              |       |
| 2 Co 228.616 | -498.7        | 55.6                | 0.0006  | mg/L        |              |       |
| 2 Cr 267.716 | 61.4          | -13.9               | -0.0002 | mg/L        |              |       |
| 2 Cu 324.754 | 3167.1        | -165.2              | -0.0007 | mg/L        |              |       |
| 2 Fe 273.955 | 607.9         | 248.9               | 0.0062  | mg/L        |              |       |
| 2 K 766.491  | 1338.4        | -207.1              | 0.0614  | mg/L        |              |       |
| 2 Mg 279.079 | 2527.0        | -844.3              | -0.0210 | mg/L        |              |       |



|   |    |         |        |        |         |      |
|---|----|---------|--------|--------|---------|------|
| 2 | Mn | 257.610 | 2682.0 | 1348.8 | 0.0011  | mg/L |
| 2 | Mo | 202.030 | -137.1 | 15.6   | 0.0010  | mg/L |
| 2 | Na | 330.237 | 4751.7 | 102.9  | -0.0052 | mg/L |
| 2 | Ni | 231.604 | -383.6 | 26.7   | 0.0006  | mg/L |
| 2 | Pb | 220.353 | 411.7  | 6.1    | 0.0004  | mg/L |
| 2 | Sb | 206.833 | 95.3   | 15.1   | 0.0039  | mg/L |
| 2 | Se | 196.026 | 117.0  | 2.2    | 0.0009  | mg/L |
| 2 | Tl | 190.800 | 368.3  | 0.1    | 0.0000  | mg/L |
| 2 | V  | 292.402 | -498.2 | -116.5 | -0.0010 | mg/L |
| 2 | Zn | 213.856 | -390.4 | 46.8   | 0.0005  | mg/L |
|   |    |         |        |        |         |      |
| 3 | Ag | 328.068 | 1768.2 | -7.6   | 0.0000  | mg/L |
| 3 | Al | 308.215 | 3553.0 | -31.7  | -0.0011 | mg/L |
| 3 | As | 188.979 | 131.2  | 1.3    | 0.0004  | mg/L |
| 3 | Ba | 233.527 | -913.1 | 109.8  | 0.0003  | mg/L |
| 3 | Be | 313.107 | 669.8  | 413.1  | 0.0002  | mg/L |
| 3 | Ca | 227.547 | 662.4  | 5.5    | 0.0279  | mg/L |
| 3 | Cd | 228.802 | 56.9   | 23.4   | 0.0002  | mg/L |
| 3 | Co | 228.616 | -524.5 | 29.8   | 0.0003  | mg/L |
| 3 | Cr | 267.716 | 85.7   | 10.4   | 0.0001  | mg/L |
| 3 | Cu | 324.754 | 3384.7 | 52.5   | 0.0002  | mg/L |
| 3 | Fe | 273.955 | 519.8  | 160.8  | 0.0040  | mg/L |
| 3 | K  | 766.491 | 1438.6 | -106.9 | 0.0676  | mg/L |
| 3 | Mg | 279.079 | 2791.5 | -579.8 | -0.0144 | mg/L |
| 3 | Mn | 257.610 | 2209.1 | 875.9  | 0.0007  | mg/L |
| 3 | Mo | 202.030 | -134.6 | 18.1   | 0.0011  | mg/L |
| 3 | Na | 330.237 | 4638.3 | -10.6  | -0.1756 | mg/L |
| 3 | Ni | 231.604 | -403.9 | 6.4    | 0.0001  | mg/L |
| 3 | Pb | 220.353 | 417.4  | 11.9   | 0.0007  | mg/L |
| 3 | Sb | 206.833 | 88.4   | 8.2    | 0.0021  | mg/L |
| 3 | Se | 196.026 | 107.5  | -7.3   | -0.0029 | mg/L |
| 3 | Tl | 190.800 | 364.2  | -4.0   | -0.0011 | mg/L |
| 3 | V  | 292.402 | -445.3 | -63.6  | -0.0006 | mg/L |
| 3 | Zn | 213.856 | -407.4 | 29.8   | 0.0003  | mg/L |

Mean Data

|                      |                   |                |             |
|----------------------|-------------------|----------------|-------------|
| D: CCB               | Seq. No.: 11      | Sample No.: 6  | A/S Pos: 1  |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: | 1.0         |
|                      | Data: Original    | Date: 5/19/03  | 11:22:49 AM |

| Element | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|---------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| g       | 328.068              | -29.1      | -0.0002  | 0.00105     | mg/L       |          |              | 623.43% |
| l       | 308.215              | -30.0      | -0.0010  | 0.00075     | mg/L       |          |              | 73.74%  |
| s       | 188.979              | 4.2        | 0.0014   | 0.00237     | mg/L       |          |              | 170.36% |
| a       | 233.527              | 187.9      | 0.0005   | 0.00035     | mg/L       |          |              | 71.14%  |
| e       | 313.107              | 613.1      | 0.0003   | 0.00007     | mg/L       |          |              | 28.31%  |
| a       | 227.547              | -17.1      | -0.0862  | 0.10383     | mg/L       |          |              | 120.52% |
| i       | 228.802              | 3.1        | 0.0000   | 0.00021     | mg/L       |          |              | 764.34% |
| o       | 228.616              | 50.0       | 0.0005   | 0.00020     | mg/L       |          |              | 36.17%  |
| r       | 267.716              | -6.1       | -0.0001  | 0.00016     | mg/L       |          |              | 233.44% |
| i       | 324.754              | -112.6     | -0.0005  | 0.00059     | mg/L       |          |              | 129.71% |
| e       | 273.955              | 231.8      | 0.0058   | 0.00160     | mg/L       |          |              | 27.68%  |
|         | 766.491              | -45.5      | 0.0714   | 0.01233     | mg/L       |          |              | 17.27%  |
| j       | 279.079              | -601.5     | -0.0149  | 0.00577     | mg/L       |          |              | 38.68%  |
| i       | 257.610              | 1228.8     | 0.0010   | 0.00024     | mg/L       |          |              | 25.30%  |
| o       | 202.030              | 16.1       | 0.0010   | 0.00011     | mg/L       |          |              | 11.11%  |
| a       | 330.237              | 40.5       | -0.0989  | 0.08646     | mg/L       |          |              | 87.42%  |
| i       | 231.604              | 15.5       | 0.0004   | 0.00023     | mg/L       |          |              | 66.21%  |
| o       | 220.353              | 10.0       | 0.0006   | 0.00021     | mg/L       |          |              | 33.38%  |
| o       | 206.833              | 7.9        | 0.0021   | 0.00190     | mg/L       |          |              | 92.47%  |
| e       | 196.026              | -1.1       | -0.0004  | 0.00214     | mg/L       |          |              | 514.51% |
| l       | 190.800              | -1.6       | -0.0004  | 0.00058     | mg/L       |          |              | 129.39% |
|         | 292.402              | -71.4      | -0.0006  | 0.00037     | mg/L       |          |              | 58.61%  |
| i       | 213.856              | 48.3       | 0.0005   | 0.00019     | mg/L       |          |              | 39.87%  |

Replicate Data

|                 |               |             |
|-----------------|---------------|-------------|
| D: M-BL 03M1479 | Date: 5/19/03 | 11:26:11 AM |
|-----------------|---------------|-------------|

| Sample# | Element | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|---------|---------|---------------|---------------------|-------------------|--------------------|
|---------|---------|---------------|---------------------|-------------------|--------------------|

|   |    |         |         |        |         |      |         |     |
|---|----|---------|---------|--------|---------|------|---------|-----|
| 1 | Ag | 328.068 | 1690.7  | -85.1  | -0.0005 | mg/L | -0.0005 | ppm |
| 1 | Al | 308.215 | 3654.6  | 69.9   | 0.0024  | mg/L | 0.0024  | ppm |
| 1 | As | 188.979 | 144.3   | 14.4   | 0.0048  | mg/L | 0.0048  | ppm |
| 1 | Ba | 233.527 | -914.2  | 108.7  | 0.0003  | mg/L | 0.0003  | ppm |
| 1 | Be | 313.107 | 498.1   | 241.3  | 0.0001  | mg/L | 0.0001  | ppm |
| 1 | Ca | 227.547 | 668.3   | 11.4   | 0.0576  | mg/L | 0.0576  | ppm |
| 1 | Cd | 228.802 | 16.5    | -16.9  | -0.0002 | mg/L | -0.0002 | ppm |
| 1 | Co | 228.616 | -564.4  | -10.2  | -0.0001 | mg/L | -0.0001 | ppm |
| 1 | Cr | 267.716 | 86.5    | 11.2   | 0.0001  | mg/L | 0.0001  | ppm |
| 1 | Cu | 324.754 | 3418.3  | 86.1   | 0.0003  | mg/L | 0.0003  | ppm |
| 1 | Fe | 273.955 | 536.5   | 177.6  | 0.0044  | mg/L | 0.0044  | ppm |
| 1 | K  | 766.491 | 1945.1  | 399.6  | 0.0989  | mg/L | 0.0989  | ppm |
| 1 | Mg | 279.079 | 3616.5  | 245.2  | 0.0061  | mg/L | 0.0061  | ppm |
| 1 | Mn | 257.610 | 1964.6  | 631.4  | 0.0005  | mg/L | 0.0005  | ppm |
| 1 | Mo | 202.030 | -152.9  | -0.3   | 0.0000  | mg/L | 0.0000  | ppm |
| 1 | Na | 330.237 | 4850.5  | 201.7  | 0.1432  | mg/L | 0.1432  | ppm |
| 1 | Ni | 231.604 | -392.0  | 18.3   | 0.0004  | mg/L | 0.0004  | ppm |
| 1 | Pb | 220.353 | 413.9   | 8.4    | 0.0005  | mg/L | 0.0005  | ppm |
| 1 | Sb | 206.833 | 78.4    | -1.8   | -0.0005 | mg/L | -0.0005 | ppm |
| 1 | Se | 196.026 | 102.1   | -12.7  | -0.0050 | mg/L | -0.0050 | ppm |
| 1 | Tl | 190.800 | 372.4   | 4.3    | 0.0012  | mg/L | 0.0012  | ppm |
| 1 | V  | 292.402 | -438.0  | -56.3  | -0.0005 | mg/L | -0.0005 | ppm |
| 1 | Zn | 213.856 | -334.7  | 102.5  | 0.0010  | mg/L | 0.0010  | ppm |
| 2 | Ag | 328.068 | 2005.5  | 229.7  | 0.0013  | mg/L | 0.0013  | ppm |
| 2 | Al | 308.215 | 3596.0  | 11.3   | 0.0004  | mg/L | 0.0004  | ppm |
| 2 | As | 188.979 | 134.7   | 4.7    | 0.0016  | mg/L | 0.0016  | ppm |
| 2 | Ba | 233.527 | -1089.8 | -66.9  | -0.0002 | mg/L | -0.0002 | ppm |
| 2 | Be | 313.107 | 623.7   | 367.0  | 0.0002  | mg/L | 0.0002  | ppm |
| 2 | Ca | 227.547 | 647.5   | -9.4   | -0.0471 | mg/L | -0.0471 | ppm |
| 2 | Cd | 228.802 | 33.5    | 0.1    | 0.0000  | mg/L | 0.0000  | ppm |
| 2 | Co | 228.616 | -557.0  | -2.8   | 0.0000  | mg/L | 0.0000  | ppm |
| 2 | Cr | 267.716 | 93.3    | 18.0   | 0.0002  | mg/L | 0.0002  | ppm |
| 2 | Cu | 324.754 | 3599.4  | 267.1  | 0.0011  | mg/L | 0.0011  | ppm |
| 2 | Fe | 273.955 | 432.7   | 73.8   | 0.0018  | mg/L | 0.0018  | ppm |
| 2 | K  | 766.491 | 1402.9  | -142.5 | 0.0654  | mg/L | 0.0654  | ppm |
| 2 | Mg | 279.079 | 3440.7  | 69.4   | 0.0017  | mg/L | 0.0017  | ppm |
| 2 | Mn | 257.610 | 1900.5  | 567.3  | 0.0004  | mg/L | 0.0004  | ppm |
| 2 | Mo | 202.030 | -153.4  | -0.7   | 0.0000  | mg/L | 0.0000  | ppm |
| 2 | Na | 330.237 | 4785.9  | 137.1  | 0.0463  | mg/L | 0.0463  | ppm |
| 2 | Ni | 231.604 | -435.9  | -25.6  | -0.0006 | mg/L | -0.0006 | ppm |
| 2 | Pb | 220.353 | 410.1   | 4.6    | 0.0003  | mg/L | 0.0003  | ppm |
| 2 | Sb | 206.833 | 87.4    | 7.2    | 0.0019  | mg/L | 0.0019  | ppm |
| 2 | Se | 196.026 | 104.0   | -10.8  | -0.0043 | mg/L | -0.0043 | ppm |
| 2 | Tl | 190.800 | 366.2   | -2.0   | -0.0005 | mg/L | -0.0005 | ppm |
| 2 | V  | 292.402 | -403.0  | -21.3  | -0.0002 | mg/L | -0.0002 | ppm |
| 2 | Zn | 213.856 | -372.8  | 64.5   | 0.0006  | mg/L | 0.0006  | ppm |
| 3 | Ag | 328.068 | 1764.5  | -11.3  | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Al | 308.215 | 3517.0  | -67.7  | -0.0023 | mg/L | -0.0023 | ppm |
| 3 | As | 188.979 | 131.3   | 1.4    | 0.0005  | mg/L | 0.0005  | ppm |
| 3 | Ba | 233.527 | -1041.9 | -19.0  | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Be | 313.107 | 351.5   | 94.7   | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Ca | 227.547 | 655.9   | -1.0   | -0.0050 | mg/L | -0.0050 | ppm |
| 3 | Cd | 228.802 | 28.4    | -5.0   | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Co | 228.616 | -556.4  | -2.1   | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Cr | 267.716 | 70.2    | -5.0   | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Cu | 324.754 | 3490.0  | 157.8  | 0.0006  | mg/L | 0.0006  | ppm |
| 3 | Fe | 273.955 | 335.3   | -23.7  | -0.0006 | mg/L | -0.0006 | ppm |
| 3 | K  | 766.491 | 1544.3  | -1.2   | 0.0741  | mg/L | 0.0741  | ppm |
| 3 | Mg | 279.079 | 3489.2  | 117.9  | 0.0029  | mg/L | 0.0029  | ppm |
| 3 | Mn | 257.610 | 1708.5  | 375.3  | 0.0003  | mg/L | 0.0003  | ppm |
| 3 | Mo | 202.030 | -159.5  | -6.9   | -0.0004 | mg/L | -0.0004 | ppm |
| 3 | Na | 330.237 | 4985.0  | 336.2  | 0.3454  | mg/L | 0.3454  | ppm |
| 3 | Ni | 231.604 | -401.7  | 8.6    | 0.0002  | mg/L | 0.0002  | ppm |
| 3 | Pb | 220.353 | 407.8   | 2.3    | 0.0001  | mg/L | 0.0001  | ppm |
| 3 | Sb | 206.833 | 82.0    | 1.8    | 0.0005  | mg/L | 0.0005  | ppm |
| 3 | Se | 196.026 | 107.9   | -6.9   | -0.0027 | mg/L | -0.0027 | ppm |
| 3 | Tl | 190.800 | 364.9   | -3.2   | -0.0009 | mg/L | -0.0009 | ppm |
| 3 | V  | 292.402 | -470.8  | -89.1  | -0.0008 | mg/L | -0.0008 | ppm |
| 3 | Zn | 213.856 | -409.6  | 27.7   | 0.0003  | mg/L | 0.0003  | ppm |

lean Data

D: M-BL 03M1479

Seq. No.: 12

Sample No.: 1

A/S Pos: 10

Sample Qty: 1.0000 mL

Prep. Vol.: 1.0 mL

Dilution: 1.0:

1.0:

1.0

Data: Original

Date: 5/19/03

11:26:11 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | 44.4                 | 0.0003     | 0.00095  | mg/L        | 0.0003     | 0.00095  | ppm          | 370.43% |
| Al 308.215 | 4.5                  | 0.0002     | 0.00233  | mg/L        | 0.0002     | 0.00233  | ppm          | >999.9% |
| As 188.979 | 6.8                  | 0.0023     | 0.00226  | mg/L        | 0.0023     | 0.00226  | ppm          | 98.87%  |
| Ba 233.527 | 7.6                  | 0.0000     | 0.00024  | mg/L        | 0.0000     | 0.00024  | ppm          | >999.9% |
| Be 313.107 | 234.3                | 0.0001     | 0.00006  | mg/L        | 0.0001     | 0.00006  | ppm          | 58.16%  |
| Ca 227.547 | 0.4                  | 0.0019     | 0.05269  | mg/L        | 0.0019     | 0.05269  | ppm          | >999.9% |
| Cd 228.802 | -7.3                 | -0.0001    | 0.00008  | mg/L        | -0.0001    | 0.00008  | ppm          | 119.58% |
| Co 228.616 | -5.0                 | -0.0001    | 0.00005  | mg/L        | -0.0001    | 0.00005  | ppm          | 88.80%  |
| Cr 267.716 | 8.1                  | 0.0001     | 0.00013  | mg/L        | 0.0001     | 0.00013  | ppm          | 146.77% |
| Cu 324.754 | 170.3                | 0.0007     | 0.00037  | mg/L        | 0.0007     | 0.00037  | ppm          | 53.54%  |
| Fe 273.955 | 75.9                 | 0.0019     | 0.00251  | mg/L        | 0.0019     | 0.00251  | ppm          | 132.60% |
| K 766.491  | 85.3                 | 0.0795     | 0.01739  | mg/L        | 0.0795     | 0.01739  | ppm          | 21.88%  |
| Mg 279.079 | 144.2                | 0.0036     | 0.00225  | mg/L        | 0.0036     | 0.00225  | ppm          | 62.97%  |
| Mn 257.610 | 524.7                | 0.0004     | 0.00010  | mg/L        | 0.0004     | 0.00010  | ppm          | 25.39%  |
| Mo 202.030 | -2.6                 | -0.0002    | 0.00023  | mg/L        | -0.0002    | 0.00023  | ppm          | 141.96% |
| Na 330.237 | 225.0                | 0.1783     | 0.15262  | mg/L        | 0.1783     | 0.15262  | ppm          | 85.60%  |
| Ni 231.604 | 0.4                  | 0.0000     | 0.00053  | mg/L        | 0.0000     | 0.00053  | ppm          | >999.9% |
| Pb 220.353 | 5.1                  | 0.0003     | 0.00019  | mg/L        | 0.0003     | 0.00019  | ppm          | 60.78%  |
| Sb 206.833 | 2.4                  | 0.0006     | 0.00117  | mg/L        | 0.0006     | 0.00117  | ppm          | 186.30% |
| Se 196.026 | -10.1                | -0.0040    | 0.00117  | mg/L        | -0.0040    | 0.00117  | ppm          | 29.27%  |
| Tl 190.800 | -0.3                 | -0.0001    | 0.00111  | mg/L        | -0.0001    | 0.00111  | ppm          | >999.9% |
| V 292.402  | -55.6                | -0.0005    | 0.00030  | mg/L        | -0.0005    | 0.00030  | ppm          | 60.96%  |
| Zn 213.856 | 64.9                 | 0.0007     | 0.00038  | mg/L        | 0.0007     | 0.00038  | ppm          | 57.67%  |

uplicate Data

D: LCS-03M1479

Date: 5/19/03

11:29:43 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 184674.3      | 182898.5            | 1.056 mg/L        | 1.056 ppm          |
| 1    | Al 308.215 | 71738.1       | 68153.4             | 2.299 mg/L        | 2.299 ppm          |
| 1    | As 188.979 | 1554.8        | 1424.8              | 0.4855 mg/L       | 0.4855 ppm         |
| 1    | Ba 233.527 | 1695123.8     | 1696146.6           | 4.458 mg/L        | 4.458 ppm          |
| 1    | Be 313.107 | 452964.9      | 452708.1            | 0.1951 mg/L       | 0.1951 ppm         |
| 1    | Ca 227.547 | 4827.1        | 4170.3              | 20.99 mg/L        | 20.99 ppm          |
| 1    | Cd 228.802 | 30622.7       | 30589.3             | 0.2723 mg/L       | 0.2723 ppm         |
| 1    | Co 228.616 | 99236.2       | 99790.4             | 1.096 mg/L        | 1.096 ppm          |
| 1    | Cr 267.716 | 100028.0      | 99952.8             | 1.108 mg/L        | 1.108 ppm          |
| 1    | Cu 324.754 | 268318.6      | 264986.3            | 1.062 mg/L        | 1.062 ppm          |
| 1    | Fe 273.955 | 42797.8       | 42438.8             | 1.057 mg/L        | 1.057 ppm          |
| 1    | K 766.491  | 88650.5       | 87105.0             | 5.263 mg/L        | 5.263 ppm          |
| 1    | Mg 279.079 | 435688.4      | 432317.1            | 10.73 mg/L        | 10.73 ppm          |
| 1    | Mn 257.610 | 1234086.6     | 1232753.4           | 0.9622 mg/L       | 0.9622 ppm         |
| 1    | Mo 202.030 | 36809.6       | 36962.3             | 2.257 mg/L        | 2.257 ppm          |
| 1    | Na 330.237 | 31331.4       | 26682.6             | 40.03 mg/L        | 40.03 ppm          |
| 1    | Ni 231.604 | 46654.2       | 47064.5             | 1.073 mg/L        | 1.073 ppm          |
| 1    | Pb 220.353 | 53694.2       | 53288.7             | 3.285 mg/L        | 3.285 ppm          |
| 1    | Sb 206.833 | 2079.2        | 1999.0              | 0.4851 mg/L       | 0.4851 ppm         |
| 1    | Se 196.026 | 1425.5        | 1310.7              | 0.5154 mg/L       | 0.5154 ppm         |
| 1    | Tl 190.800 | 2175.3        | 1807.1              | 0.4963 mg/L       | 0.4963 ppm         |
| 1    | V 292.402  | 238945.9      | 239327.6            | 2.134 mg/L        | 2.134 ppm          |
| 1    | Zn 213.856 | 52607.0       | 53044.2             | 0.5318 mg/L       | 0.5318 ppm         |
| 2    | Ag 328.068 | 182730.2      | 180954.4            | 1.044 mg/L        | 1.044 ppm          |
| 2    | Al 308.215 | 70819.5       | 67234.8             | 2.268 mg/L        | 2.268 ppm          |
| 2    | As 188.979 | 1575.6        | 1445.6              | 0.4923 mg/L       | 0.4923 ppm         |
| 2    | Ba 233.527 | 1689743.1     | 1690766.0           | 4.444 mg/L        | 4.444 ppm          |
| 2    | Be 313.107 | 452990.0      | 452733.2            | 0.1951 mg/L       | 0.1951 ppm         |
| 2    | Ca 227.547 | 4895.3        | 4238.5              | 21.33 mg/L        | 21.33 ppm          |
| 2    | Cd 228.802 | 30475.0       | 30441.6             | 0.2709 mg/L       | 0.2709 ppm         |
| 2    | Co 228.616 | 98115.4       | 98669.6             | 1.083 mg/L        | 1.083 ppm          |
| 2    | Cr 267.716 | 98364.7       | 98289.4             | 1.090 mg/L        | 1.090 ppm          |
| 2    | Cu 324.754 | 265955.3      | 262623.1            | 1.053 mg/L        | 1.053 ppm          |
| 2    | Fe 273.955 | 42555.3       | 42196.4             | 1.051 mg/L        | 1.051 ppm          |

|   |    |         |           |           |             |            |
|---|----|---------|-----------|-----------|-------------|------------|
| 2 | K  | 766.491 | 87944.3   | 86398.8   | 5.222 mg/L  | 5.222 ppm  |
| 2 | Mg | 279.079 | 430141.5  | 426770.1  | 10.59 mg/L  | 10.59 ppm  |
| 2 | Mn | 257.610 | 1229024.1 | 1227690.9 | 0.9582 mg/L | 0.9582 ppm |
| 2 | Mo | 202.030 | 36573.7   | 36726.4   | 2.243 mg/L  | 2.243 ppm  |
| 2 | Na | 330.237 | 31099.7   | 26450.9   | 39.68 mg/L  | 39.68 ppm  |
| 2 | Ni | 231.604 | 46372.2   | 46782.5   | 1.067 mg/L  | 1.067 ppm  |
| 2 | Pb | 220.353 | 53186.0   | 52780.5   | 3.253 mg/L  | 3.253 ppm  |
| 2 | Sb | 206.833 | 2092.2    | 2012.1    | 0.4890 mg/L | 0.4890 ppm |
| 2 | Se | 196.026 | 1469.3    | 1354.5    | 0.5326 mg/L | 0.5326 ppm |
| 2 | Tl | 190.800 | 2275.5    | 1907.3    | 0.5238 mg/L | 0.5238 ppm |
| 2 | V  | 292.402 | 235433.9  | 235815.6  | 2.103 mg/L  | 2.103 ppm  |
| 2 | Zn | 213.856 | 52221.3   | 52658.5   | 0.5279 mg/L | 0.5279 ppm |
| 3 | Ag | 328.068 | 177193.9  | 175418.1  | 1.012 mg/L  | 1.012 ppm  |
| 3 | Al | 308.215 | 68958.7   | 65374.0   | 2.205 mg/L  | 2.205 ppm  |
| 3 | As | 188.979 | 1601.6    | 1471.6    | 0.5008 mg/L | 0.5008 ppm |
| 3 | Ba | 233.527 | 1664347.7 | 1665370.6 | 4.377 mg/L  | 4.377 ppm  |
| 3 | Be | 313.107 | 444180.6  | 443923.8  | 0.1913 mg/L | 0.1913 ppm |
| 3 | Ca | 227.547 | 4919.7    | 4262.9    | 21.45 mg/L  | 21.45 ppm  |
| 3 | Cd | 228.802 | 29321.8   | 29288.3   | 0.2607 mg/L | 0.2607 ppm |
| 3 | Co | 228.616 | 95528.0   | 96082.3   | 1.055 mg/L  | 1.055 ppm  |
| 3 | Cr | 267.716 | 96021.6   | 95946.3   | 1.064 mg/L  | 1.064 ppm  |
| 3 | Cu | 324.754 | 259773.4  | 256441.1  | 1.028 mg/L  | 1.028 ppm  |
| 3 | Fe | 273.955 | 41121.3   | 40762.4   | 1.015 mg/L  | 1.015 ppm  |
| 3 | K  | 766.491 | 86694.7   | 85149.2   | 5.150 mg/L  | 5.150 ppm  |
| 3 | Mg | 279.079 | 419581.9  | 416210.6  | 10.33 mg/L  | 10.33 ppm  |
| 3 | Mn | 257.610 | 1209304.1 | 1207970.9 | 0.9428 mg/L | 0.9428 ppm |
| 3 | Mo | 202.030 | 35764.8   | 35917.5   | 2.194 mg/L  | 2.194 ppm  |
| 3 | Na | 330.237 | 30572.7   | 25923.9   | 38.89 mg/L  | 38.89 ppm  |
| 3 | Ni | 231.604 | 44962.8   | 45373.1   | 1.035 mg/L  | 1.035 ppm  |
| 3 | Pb | 220.353 | 51454.6   | 51049.1   | 3.147 mg/L  | 3.147 ppm  |
| 3 | Sb | 206.833 | 2095.6    | 2015.4    | 0.4906 mg/L | 0.4906 ppm |
| 3 | Se | 196.026 | 1462.4    | 1347.6    | 0.5299 mg/L | 0.5299 ppm |
| 3 | Tl | 190.800 | 2278.1    | 1910.0    | 0.5246 mg/L | 0.5246 ppm |
| 3 | V  | 292.402 | 229015.0  | 229396.7  | 2.045 mg/L  | 2.045 ppm  |
| 3 | Zn | 213.856 | 50676.9   | 51114.1   | 0.5124 mg/L | 0.5124 ppm |

Mean Data

D: LCS-03M1479      Seq. No.: 13      Sample No.: 2      A/S Pos: 11  
 Sample Qty: 1.0000 mL      Prep. Vol.: 1.0 mL      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03      11:29:43 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Ag 328.068 | 179757.0             | 1.037      | 0.0224   | mg/L        | 1.037      | 0.0224   | ppm          | 2.16% |
| Al 308.215 | 66920.7              | 2.257      | 0.0478   | mg/L        | 2.257      | 0.0478   | ppm          | 2.12% |
| As 188.979 | 1447.4               | 0.4928     | 0.00767  | mg/L        | 0.4928     | 0.00767  | ppm          | 1.56% |
| Ba 233.527 | 1684094.4            | 4.426      | 0.0432   | mg/L        | 4.426      | 0.0432   | ppm          | 0.98% |
| Be 313.107 | 449788.4             | 0.1939     | 0.00219  | mg/L        | 0.1939     | 0.00219  | ppm          | 1.13% |
| Ca 227.547 | 4223.9               | 21.26      | 0.242    | mg/L        | 21.26      | 0.242    | ppm          | 1.14% |
| Cd 228.802 | 30106.4              | 0.2680     | 0.00634  | mg/L        | 0.2680     | 0.00634  | ppm          | 2.37% |
| Co 228.616 | 98180.8              | 1.078      | 0.0209   | mg/L        | 1.078      | 0.0209   | ppm          | 1.94% |
| Cr 267.716 | 98062.8              | 1.087      | 0.0223   | mg/L        | 1.087      | 0.0223   | ppm          | 2.05% |
| Cu 324.754 | 261350.2             | 1.048      | 0.0177   | mg/L        | 1.048      | 0.0177   | ppm          | 1.69% |
| Fe 273.955 | 41799.2              | 1.041      | 0.0226   | mg/L        | 1.041      | 0.0226   | ppm          | 2.17% |
| K 766.491  | 86217.7              | 5.212      | 0.0569   | mg/L        | 5.212      | 0.0569   | ppm          | 1.09% |
| Mg 279.079 | 425099.3             | 10.55      | 0.203    | mg/L        | 10.55      | 0.203    | ppm          | 1.92% |
| Mn 257.610 | 1222805.1            | 0.9544     | 0.01022  | mg/L        | 0.9544     | 0.01022  | ppm          | 1.07% |
| Mo 202.030 | 36535.4              | 2.231      | 0.0335   | mg/L        | 2.231      | 0.0335   | ppm          | 1.50% |
| Na 330.237 | 26352.4              | 39.53      | 0.587    | mg/L        | 39.53      | 0.587    | ppm          | 1.49% |
| Ni 231.604 | 46406.7              | 1.058      | 0.0207   | mg/L        | 1.058      | 0.0207   | ppm          | 1.95% |
| Pb 220.353 | 52372.8              | 3.228      | 0.0724   | mg/L        | 3.228      | 0.0724   | ppm          | 2.24% |
| Sb 206.833 | 2008.9               | 0.4882     | 0.00285  | mg/L        | 0.4882     | 0.00285  | ppm          | 0.58% |
| Se 196.026 | 1337.6               | 0.5260     | 0.00926  | mg/L        | 0.5260     | 0.00926  | ppm          | 1.76% |
| Tl 190.800 | 1874.8               | 0.5149     | 0.01610  | mg/L        | 0.5149     | 0.01610  | ppm          | 3.13% |
| V 292.402  | 234846.6             | 2.094      | 0.0449   | mg/L        | 2.094      | 0.0449   | ppm          | 2.14% |
| Zn 213.856 | 52272.3              | 0.5240     | 0.01024  | mg/L        | 0.5240     | 0.01024  | ppm          | 1.95% |

Matrix Check Sample: LCS-03M1479

Expected      Measured      Calib

| Element   | Conc.  | Conc.  | Std.Dev. | Units | % Recovery |
|-----------|--------|--------|----------|-------|------------|
| g 328.068 | 1.000  | 1.037  | 0.022    | mg/L  | 103.719    |
| l 308.215 | 2.000  | 2.257  | 0.048    | mg/L  | 112.866    |
| s 188.979 | 0.5023 | 0.4928 | 0.008    | mg/L  | 98.112     |
| a 233.527 | 4.000  | 4.426  | 0.043    | mg/L  | 110.649    |
| e 313.107 | 0.2001 | 0.1939 | 0.002    | mg/L  | 96.880     |
| a 227.547 | 20.00  | 21.26  | 0.242    | mg/L  | 106.270    |
| d 228.802 | 0.2499 | 0.2680 | 0.006    | mg/L  | 107.210    |
| o 228.616 | 0.9999 | 1.078  | 0.021    | mg/L  | 107.791    |
| r 267.716 | 1.000  | 1.087  | 0.022    | mg/L  | 108.706    |
| u 324.754 | 1.001  | 1.048  | 0.018    | mg/L  | 104.710    |
| e 273.955 | 1.002  | 1.041  | 0.023    | mg/L  | 103.942    |
| 766.491   | 5.079  | 5.212  | 0.057    | mg/L  | 102.646    |
| g 279.079 | 10.00  | 10.55  | 0.203    | mg/L  | 105.462    |
| n 257.610 | 1.000  | 0.9544 | 0.010    | mg/L  | 95.401     |
| o 202.030 | 2.000  | 2.231  | 0.033    | mg/L  | 111.574    |
| a 330.237 | 40.18  | 39.53  | 0.587    | mg/L  | 98.385     |
| i 231.604 | 1.000  | 1.058  | 0.021    | mg/L  | 105.820    |
| b 220.353 | 3.000  | 3.228  | 0.072    | mg/L  | 107.600    |
| b 206.833 | 0.5006 | 0.4882 | 0.003    | mg/L  | 97.523     |
| e 196.026 | 0.4960 | 0.5260 | 0.009    | mg/L  | 105.993    |
| l 190.800 | 0.4999 | 0.5149 | 0.016    | mg/L  | 103.000    |
| 292.402   | 2.000  | 2.094  | 0.045    | mg/L  | 104.719    |
| n 213.856 | 0.5007 | 0.5240 | 0.010    | mg/L  | 104.674    |

uplicate Data

D: LCSD-03M1479

Date: 5/19/03

11:33:19 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Conc.  | Calib Units | Conc.  | Sample Units |
|------|------------|---------------|---------------------|--------|-------------|--------|--------------|
| 1    | Ag 328.068 | 176121.6      | 174345.8            | 1.006  | mg/L        | 1.006  | ppm          |
| 1    | Al 308.215 | 68058.0       | 64473.4             | 2.175  | mg/L        | 2.175  | ppm          |
| 1    | As 188.979 | 1592.3        | 1462.3              | 0.4976 | mg/L        | 0.4976 | ppm          |
| 1    | Ba 233.527 | 1687266.3     | 1688289.2           | 4.437  | mg/L        | 4.437  | ppm          |
| 1    | Be 313.107 | 451788.8      | 451532.1            | 0.1946 | mg/L        | 0.1946 | ppm          |
| 1    | Ca 227.547 | 4889.8        | 4233.0              | 21.30  | mg/L        | 21.30  | ppm          |
| 1    | Cd 228.802 | 29257.0       | 29223.5             | 0.2601 | mg/L        | 0.2601 | ppm          |
| 1    | Co 228.616 | 94881.9       | 95436.2             | 1.048  | mg/L        | 1.048  | ppm          |
| 1    | Cr 267.716 | 95443.0       | 95367.8             | 1.057  | mg/L        | 1.057  | ppm          |
| 1    | Cu 324.754 | 258207.7      | 254875.5            | 1.022  | mg/L        | 1.022  | ppm          |
| 1    | Fe 273.955 | 40918.1       | 40559.2             | 1.010  | mg/L        | 1.010  | ppm          |
| 1    | K 766.491  | 86711.2       | 85165.7             | 5.151  | mg/L        | 5.151  | ppm          |
| 1    | Mg 279.079 | 413465.2      | 410093.9            | 10.18  | mg/L        | 10.18  | ppm          |
| 1    | Mn 257.610 | 1224150.4     | 1222817.2           | 0.9544 | mg/L        | 0.9544 | ppm          |
| 1    | Mo 202.030 | 35131.2       | 35283.9             | 2.155  | mg/L        | 2.155  | ppm          |
| 1    | Na 330.237 | 30412.4       | 25763.5             | 38.64  | mg/L        | 38.64  | ppm          |
| 1    | Ni 231.604 | 44919.3       | 45329.6             | 1.034  | mg/L        | 1.034  | ppm          |
| 1    | Pb 220.353 | 51188.0       | 50782.5             | 3.130  | mg/L        | 3.130  | ppm          |
| 1    | Sb 206.833 | 2108.8        | 2028.7              | 0.4943 | mg/L        | 0.4943 | ppm          |
| 1    | Se 196.026 | 1456.2        | 1341.4              | 0.5275 | mg/L        | 0.5275 | ppm          |
| 1    | Tl 190.800 | 2253.1        | 1885.0              | 0.5177 | mg/L        | 0.5177 | ppm          |
| 1    | V 292.402  | 227791.3      | 228173.0            | 2.034  | mg/L        | 2.034  | ppm          |
| 1    | Zn 213.856 | 50409.7       | 50847.0             | 0.5097 | mg/L        | 0.5097 | ppm          |
| 2    | Ag 328.068 | 183340.8      | 181565.0            | 1.048  | mg/L        | 1.048  | ppm          |
| 2    | Al 308.215 | 71492.9       | 67908.2             | 2.291  | mg/L        | 2.291  | ppm          |
| 2    | As 188.979 | 1582.2        | 1452.2              | 0.4946 | mg/L        | 0.4946 | ppm          |
| 2    | Ba 233.527 | 1757074.4     | 1758097.3           | 4.620  | mg/L        | 4.620  | ppm          |
| 2    | Be 313.107 | 470486.6      | 470229.8            | 0.2027 | mg/L        | 0.2027 | ppm          |
| 2    | Ca 227.547 | 4891.4        | 4234.5              | 21.31  | mg/L        | 21.31  | ppm          |
| 2    | Cd 228.802 | 30589.8       | 30556.3             | 0.2720 | mg/L        | 0.2720 | ppm          |
| 2    | Co 228.616 | 98693.2       | 99247.4             | 1.090  | mg/L        | 1.090  | ppm          |
| 2    | Cr 267.716 | 99181.1       | 99105.9             | 1.099  | mg/L        | 1.099  | ppm          |
| 2    | Cu 324.754 | 268144.0      | 264811.7            | 1.062  | mg/L        | 1.062  | ppm          |
| 2    | Fe 273.955 | 42472.8       | 42113.9             | 1.049  | mg/L        | 1.049  | ppm          |
| 2    | K 766.491  | 91977.7       | 90432.2             | 5.454  | mg/L        | 5.454  | ppm          |
| 2    | Mg 279.079 | 431491.3      | 428120.0            | 10.62  | mg/L        | 10.62  | ppm          |
| 2    | Mn 257.610 | 1272652.9     | 1271319.7           | 0.9923 | mg/L        | 0.9923 | ppm          |
| 2    | Mo 202.030 | 36616.1       | 36768.7             | 2.246  | mg/L        | 2.246  | ppm          |
| 2    | Na 330.237 | 31342.1       | 26693.3             | 40.05  | mg/L        | 40.05  | ppm          |
| 2    | Ni 231.604 | 46508.8       | 46919.1             | 1.070  | mg/L        | 1.070  | ppm          |

|   |    |         |           |           |             |            |
|---|----|---------|-----------|-----------|-------------|------------|
| 2 | Pb | 220.353 | 53507.3   | 53101.8   | 3.273 mg/L  | 3.273 ppm  |
| 2 | Sb | 206.833 | 2085.0    | 2004.8    | 0.4869 mg/L | 0.4869 ppm |
| 2 | Se | 196.026 | 1445.8    | 1331.0    | 0.5234 mg/L | 0.5234 ppm |
| 2 | Tl | 190.800 | 2248.1    | 1879.9    | 0.5163 mg/L | 0.5163 ppm |
| 2 | V  | 292.402 | 238003.4  | 238385.1  | 2.125 mg/L  | 2.125 ppm  |
| 2 | Zn | 213.856 | 52705.9   | 53143.1   | 0.5327 mg/L | 0.5327 ppm |
| 3 | Ag | 328.068 | 176312.0  | 174536.2  | 1.007 mg/L  | 1.007 ppm  |
| 3 | Al | 308.215 | 68752.0   | 65167.3   | 2.198 mg/L  | 2.198 ppm  |
| 3 | As | 188.979 | 1575.7    | 1445.8    | 0.4921 mg/L | 0.4921 ppm |
| 3 | Ba | 233.527 | 1691857.3 | 1692880.2 | 4.449 mg/L  | 4.449 ppm  |
| 3 | Be | 313.107 | 452999.1  | 452742.3  | 0.1951 mg/L | 0.1951 ppm |
| 3 | Ca | 227.547 | 4878.0    | 4221.1    | 21.24 mg/L  | 21.24 ppm  |
| 3 | Cd | 228.802 | 29142.8   | 29109.3   | 0.2591 mg/L | 0.2591 ppm |
| 3 | Co | 228.616 | 95233.6   | 95787.8   | 1.052 mg/L  | 1.052 ppm  |
| 3 | Cr | 267.716 | 95495.8   | 95420.6   | 1.058 mg/L  | 1.058 ppm  |
| 3 | Cu | 324.754 | 258642.1  | 255309.9  | 1.024 mg/L  | 1.024 ppm  |
| 3 | Fe | 273.955 | 40919.2   | 40560.2   | 1.010 mg/L  | 1.010 ppm  |
| 3 | K  | 766.491 | 88080.2   | 86534.7   | 5.230 mg/L  | 5.230 ppm  |
| 3 | Mg | 279.079 | 415028.7  | 411657.4  | 10.22 mg/L  | 10.22 ppm  |
| 3 | Mn | 257.610 | 1226278.7 | 1224945.5 | 0.9561 mg/L | 0.9561 ppm |
| 3 | Mo | 202.030 | 35559.4   | 35712.1   | 2.181 mg/L  | 2.181 ppm  |
| 3 | Na | 330.237 | 30335.5   | 25686.7   | 38.53 mg/L  | 38.53 ppm  |
| 3 | Ni | 231.604 | 44867.8   | 45278.1   | 1.032 mg/L  | 1.032 ppm  |
| 3 | Pb | 220.353 | 51436.5   | 51031.0   | 3.146 mg/L  | 3.146 ppm  |
| 3 | Sb | 206.833 | 2093.2    | 2013.1    | 0.4902 mg/L | 0.4902 ppm |
| 3 | Se | 196.026 | 1478.5    | 1363.7    | 0.5362 mg/L | 0.5362 ppm |
| 3 | Tl | 190.800 | 2249.5    | 1881.4    | 0.5167 mg/L | 0.5167 ppm |
| 3 | V  | 292.402 | 228894.7  | 229276.4  | 2.044 mg/L  | 2.044 ppm  |
| 3 | Zn | 213.856 | 50680.0   | 51117.2   | 0.5124 mg/L | 0.5124 ppm |

ean Data

Sample ID: LCS-D-03M1479  
 Sample Qty: 1.0000 mL  
 Seq. No.: 14  
 Prep. Vol.:  
 Data: Original  
 Sample No.: 3  
 1.0 mL  
 A/S Pos: 12  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 11:33:19 AM

| Element    | Mean Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------|------------|----------|-------------|------------|----------|--------------|-------|
| Ag 328.068 | 176815.7       | 1.020      | 0.0237   | mg/L        | 1.020      | 0.0237   | ppm          | 2.33% |
| Al 308.215 | 65849.6        | 2.221      | 0.0613   | mg/L        | 2.221      | 0.0613   | ppm          | 2.76% |
| As 188.979 | 1453.4         | 0.4948     | 0.00278  | mg/L        | 0.4948     | 0.00278  | ppm          | 0.56% |
| Ba 233.527 | 1713088.9      | 4.502      | 0.1026   | mg/L        | 4.502      | 0.1026   | ppm          | 2.28% |
| Be 313.107 | 458168.1       | 0.1975     | 0.00451  | mg/L        | 0.1975     | 0.00451  | ppm          | 2.28% |
| Ca 227.547 | 4229.6         | 21.28      | 0.037    | mg/L        | 21.28      | 0.037    | ppm          | 0.17% |
| Cd 228.802 | 29629.7        | 0.2637     | 0.00716  | mg/L        | 0.2637     | 0.00716  | ppm          | 2.72% |
| Co 228.616 | 96823.8        | 1.063      | 0.0231   | mg/L        | 1.063      | 0.0231   | ppm          | 2.18% |
| Cr 267.716 | 96631.4        | 1.071      | 0.0238   | mg/L        | 1.071      | 0.0238   | ppm          | 2.22% |
| Cu 324.754 | 258332.3       | 1.036      | 0.0225   | mg/L        | 1.036      | 0.0225   | ppm          | 2.17% |
| Fe 273.955 | 41077.8        | 1.023      | 0.0224   | mg/L        | 1.023      | 0.0224   | ppm          | 2.18% |
| K 766.491  | 87377.5        | 5.278      | 0.1569   | mg/L        | 5.278      | 0.1569   | ppm          | 2.97% |
| Mg 279.079 | 416623.8       | 10.34      | 0.248    | mg/L        | 10.34      | 0.248    | ppm          | 2.40% |
| Mn 257.610 | 1239694.2      | 0.9676     | 0.02139  | mg/L        | 0.9676     | 0.02139  | ppm          | 2.21% |
| Mo 202.030 | 35921.6        | 2.194      | 0.0467   | mg/L        | 2.194      | 0.0467   | ppm          | 2.13% |
| Na 330.237 | 26047.8        | 39.07      | 0.846    | mg/L        | 39.07      | 0.846    | ppm          | 2.17% |
| Ni 231.604 | 45842.3        | 1.045      | 0.0213   | mg/L        | 1.045      | 0.0213   | ppm          | 2.04% |
| Pb 220.353 | 51638.4        | 3.183      | 0.0785   | mg/L        | 3.183      | 0.0785   | ppm          | 2.47% |
| Sb 206.833 | 2015.5         | 0.4904     | 0.00370  | mg/L        | 0.4904     | 0.00370  | ppm          | 0.75% |
| Se 196.026 | 1345.4         | 0.5290     | 0.00656  | mg/L        | 0.5290     | 0.00656  | ppm          | 1.24% |
| Tl 190.800 | 1882.1         | 0.5169     | 0.00071  | mg/L        | 0.5169     | 0.00071  | ppm          | 0.14% |
| V 292.402  | 231944.9       | 2.068      | 0.0500   | mg/L        | 2.068      | 0.0500   | ppm          | 2.42% |
| Zn 213.856 | 51702.4        | 0.5183     | 0.01258  | mg/L        | 0.5183     | 0.01258  | ppm          | 2.43% |

Matrix Check Sample: LCS-D-03M1479

| Element    | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|------------|----------------|----------------|----------|-------------|------------|
| Ag 328.068 | 1.000          | 1.020          | 0.024    | mg/L        | 102.021    |
| Al 308.215 | 2.000          | 2.221          | 0.061    | mg/L        | 111.059    |
| As 188.979 | 0.5023         | 0.4948         | 0.003    | mg/L        | 98.493     |
| Ba 233.527 | 4.000          | 4.502          | 0.103    | mg/L        | 112.555    |
| Be 313.107 | 0.2001         | 0.1975         | 0.005    | mg/L        | 98.686     |

|   |         |        |        |       |      |         |
|---|---------|--------|--------|-------|------|---------|
| a | 227.547 | 20.00  | 21.28  | 0.037 | mg/L | 106.412 |
| d | 228.802 | 0.2499 | 0.2637 | 0.007 | mg/L | 105.513 |
| o | 228.616 | 0.9999 | 1.063  | 0.023 | mg/L | 106.301 |
| r | 267.716 | 1.000  | 1.071  | 0.024 | mg/L | 107.119 |
| u | 324.754 | 1.001  | 1.036  | 0.023 | mg/L | 103.500 |
| e | 273.955 | 1.002  | 1.023  | 0.022 | mg/L | 102.145 |
|   | 766.491 | 5.079  | 5.278  | 0.157 | mg/L | 103.977 |
| g | 279.079 | 10.00  | 10.34  | 0.248 | mg/L | 103.358 |
| n | 257.610 | 1.000  | 0.9676 | 0.021 | mg/L | 96.719  |
| o | 202.030 | 2.000  | 2.194  | 0.047 | mg/L | 109.700 |
| a | 330.237 | 40.18  | 39.07  | 0.846 | mg/L | 97.235  |
| i | 231.604 | 1.000  | 1.045  | 0.021 | mg/L | 104.533 |
| b | 220.353 | 3.000  | 3.183  | 0.078 | mg/L | 106.091 |
| b | 206.833 | 0.5006 | 0.4904 | 0.004 | mg/L | 97.961  |
| e | 196.026 | 0.4960 | 0.5290 | 0.007 | mg/L | 106.603 |
| l | 190.800 | 0.4999 | 0.5169 | 0.001 | mg/L | 103.400 |
|   | 292.402 | 2.000  | 2.068  | 0.050 | mg/L | 103.425 |
| n | 213.856 | 0.5007 | 0.5183 | 0.013 | mg/L | 103.531 |

uplicate Data

D: 3261-1 S F=1

Date: 5/19/03

11:36:50 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Conc.   | Calib Units | Conc.   | Sample Units |
|------|------------|---------------|---------------------|---------|-------------|---------|--------------|
| 1    | Ag 328.068 | 1830.6        | 54.8                | 0.0003  | mg/L        | 0.0003  | ppm          |
| 1    | Al 308.215 | 4320.7        | 736.0               | 0.0248  | mg/L        | 0.0248  | ppm          |
| 1    | As 188.979 | 132.0         | 2.1                 | 0.0021  | mg/L        | 0.0021  | ppm          |
| 1    | Ba 233.527 | 15680.8       | 16703.6             | 0.0439  | mg/L        | 0.0439  | ppm          |
| 1    | Be 313.107 | 473.2         | 216.5               | 0.0001  | mg/L        | 0.0001  | ppm          |
| 1    | Ca 227.547 | 9354.8        | 8698.0              | 43.77   | mg/L        | 43.77   | ppm          |
| 1    | Cd 228.802 | 16.0          | -17.4               | -0.0002 | mg/L        | -0.0002 | ppm          |
| 1    | Co 228.616 | -459.3        | 95.0                | 0.0010  | mg/L        | 0.0010  | ppm          |
| 1    | Cr 267.716 | 1039.7        | 964.4               | 0.0107  | mg/L        | 0.0107  | ppm          |
| 1    | Cu 324.754 | 10674.2       | 7341.9              | 0.0294  | mg/L        | 0.0294  | ppm          |
| 1    | Fe 273.955 | 2829.8        | 2470.9              | 0.0616  | mg/L        | 0.0616  | ppm          |
| 1    | K 766.491  | 485887.5      | 484342.1            | 25.33   | mg/L        | 25.33   | ppm          |
| 1    | Mg 279.079 | 2155776.1     | 2152404.8           | 53.42   | mg/L        | 53.42   | ppm          |
| 1    | Mn 257.610 | 22860.9       | 21527.7             | 0.0168  | mg/L        | 0.0168  | ppm          |
| 1    | Mo 202.030 | -16.4         | 136.3               | 0.0083  | mg/L        | 0.0083  | ppm          |
| 1    | Na 330.237 | 817003.0      | 812354.2            | 1331    | mg/L        | 1331    | ppm          |
| 1    | Ni 231.604 | -247.2        | 163.1               | 0.0037  | mg/L        | 0.0037  | ppm          |
| 1    | Pb 220.353 | 461.6         | 56.1                | 0.0035  | mg/L        | 0.0035  | ppm          |
| 1    | Sb 206.833 | 87.2          | 7.1                 | 0.0018  | mg/L        | 0.0018  | ppm          |
| 1    | Se 196.026 | 133.0         | 18.2                | 0.0072  | mg/L        | 0.0072  | ppm          |
| 1    | Tl 190.800 | 383.7         | 15.5                | 0.0030  | mg/L        | 0.0030  | ppm          |
| 1    | V 292.402  | 7194.9        | 7576.6              | 0.0676  | mg/L        | 0.0676  | ppm          |
| 1    | Zn 213.856 | 2617.0        | 3054.2              | 0.0306  | mg/L        | 0.0306  | ppm          |
| 2    | Ag 328.068 | 1829.9        | 54.1                | 0.0003  | mg/L        | 0.0003  | ppm          |
| 2    | Al 308.215 | 4606.0        | 1021.3              | 0.0345  | mg/L        | 0.0345  | ppm          |
| 2    | As 188.979 | 138.1         | 8.1                 | 0.0041  | mg/L        | 0.0041  | ppm          |
| 2    | Ba 233.527 | 15550.1       | 16573.0             | 0.0436  | mg/L        | 0.0436  | ppm          |
| 2    | Be 313.107 | 429.4         | 172.7               | 0.0001  | mg/L        | 0.0001  | ppm          |
| 2    | Ca 227.547 | 9387.0        | 8730.1              | 43.93   | mg/L        | 43.93   | ppm          |
| 2    | Cd 228.802 | 0.6           | -32.9               | -0.0003 | mg/L        | -0.0003 | ppm          |
| 2    | Co 228.616 | -509.1        | 45.2                | 0.0005  | mg/L        | 0.0005  | ppm          |
| 2    | Cr 267.716 | 1135.9        | 1060.6              | 0.0118  | mg/L        | 0.0118  | ppm          |
| 2    | Cu 324.754 | 10685.1       | 7352.9              | 0.0295  | mg/L        | 0.0295  | ppm          |
| 2    | Fe 273.955 | 2692.0        | 2333.1              | 0.0581  | mg/L        | 0.0581  | ppm          |
| 2    | K 766.491  | 463617.2      | 462071.7            | 24.32   | mg/L        | 24.32   | ppm          |
| 2    | Mg 279.079 | 2184918.0     | 2181546.6           | 54.14   | mg/L        | 54.14   | ppm          |
| 2    | Mn 257.610 | 23860.7       | 22527.5             | 0.0176  | mg/L        | 0.0176  | ppm          |
| 2    | Mo 202.030 | -41.7         | 110.9               | 0.0068  | mg/L        | 0.0068  | ppm          |
| 2    | Na 330.237 | 822561.0      | 817912.2            | 1341    | mg/L        | 1341    | ppm          |
| 2    | Ni 231.604 | -253.6        | 156.7               | 0.0036  | mg/L        | 0.0036  | ppm          |
| 2    | Pb 220.353 | 440.6         | 35.1                | 0.0022  | mg/L        | 0.0022  | ppm          |
| 2    | Sb 206.833 | 91.4          | 11.2                | 0.0029  | mg/L        | 0.0029  | ppm          |
| 2    | Se 196.026 | 125.5         | 10.7                | 0.0042  | mg/L        | 0.0042  | ppm          |
| 2    | Tl 190.800 | 376.6         | 8.5                 | 0.0011  | mg/L        | 0.0011  | ppm          |
| 2    | V 292.402  | 7333.0        | 7714.7              | 0.0688  | mg/L        | 0.0688  | ppm          |
| 2    | Zn 213.856 | 2612.8        | 3050.0              | 0.0306  | mg/L        | 0.0306  | ppm          |

|   |    |         |           |           |         |      |         |     |
|---|----|---------|-----------|-----------|---------|------|---------|-----|
| 3 | Ag | 328.068 | 1753.1    | -22.7     | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Al | 308.215 | 4751.2    | 1166.5    | 0.0393  | mg/L | 0.0393  | ppm |
| 3 | As | 188.979 | 153.4     | 23.4      | 0.0092  | mg/L | 0.0092  | ppm |
| 3 | Ba | 233.527 | 15407.4   | 16430.3   | 0.0432  | mg/L | 0.0432  | ppm |
| 3 | Be | 313.107 | 319.1     | 62.3      | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Ca | 227.547 | 9395.9    | 8739.1    | 43.98   | mg/L | 43.98   | ppm |
| 3 | Cd | 228.802 | 24.5      | -9.0      | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Co | 228.616 | -476.5    | 77.7      | 0.0009  | mg/L | 0.0009  | ppm |
| 3 | Cr | 267.716 | 1049.2    | 974.0     | 0.0108  | mg/L | 0.0108  | ppm |
| 3 | Cu | 324.754 | 10397.6   | 7065.4    | 0.0283  | mg/L | 0.0283  | ppm |
| 3 | Fe | 273.955 | 2697.3    | 2338.4    | 0.0583  | mg/L | 0.0583  | ppm |
| 3 | K  | 766.491 | 448272.5  | 446727.1  | 23.62   | mg/L | 23.62   | ppm |
| 3 | Mg | 279.079 | 2196296.2 | 2192924.9 | 54.42   | mg/L | 54.42   | ppm |
| 3 | Mn | 257.610 | 23858.0   | 22524.8   | 0.0176  | mg/L | 0.0176  | ppm |
| 3 | Mo | 202.030 | -45.6     | 107.1     | 0.0065  | mg/L | 0.0065  | ppm |
| 3 | Na | 330.237 | 824779.9  | 820131.1  | 1345    | mg/L | 1345    | ppm |
| 3 | Ni | 231.604 | -267.4    | 142.9     | 0.0033  | mg/L | 0.0033  | ppm |
| 3 | Pb | 220.353 | 453.5     | 48.0      | 0.0030  | mg/L | 0.0030  | ppm |
| 3 | Sb | 206.833 | 86.0      | 5.9       | 0.0015  | mg/L | 0.0015  | ppm |
| 3 | Se | 196.026 | 121.1     | 6.3       | 0.0025  | mg/L | 0.0025  | ppm |
| 3 | Tl | 190.800 | 378.4     | 10.2      | 0.0016  | mg/L | 0.0016  | ppm |
| 3 | V  | 292.402 | 7304.1    | 7685.8    | 0.0685  | mg/L | 0.0685  | ppm |
| 3 | Zn | 213.856 | 2606.5    | 3043.8    | 0.0305  | mg/L | 0.0305  | ppm |

Mean Data

Sample No.: 4  
 Sample Qty: 1.0000 mL  
 Seq. No.: 15  
 Prep. Vol.: 1.0 mL  
 A/S Pos: 13  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 11:36:50 AM  
 Data: Original

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | 28.7                 | 0.0002     | 0.00026  | mg/L        | 0.0002     | 0.00026  | ppm          | 155.00% |
| Al 308.215 | 974.6                | 0.0329     | 0.00739  | mg/L        | 0.0329     | 0.00739  | ppm          | 22.47%  |
| As 188.979 | 11.2                 | 0.0051     | 0.00368  | mg/L        | 0.0051     | 0.00368  | ppm          | 71.83%  |
| Ba 233.527 | 16569.0              | 0.0435     | 0.00036  | mg/L        | 0.0435     | 0.00036  | ppm          | 0.83%   |
| Be 313.107 | 150.5                | 0.0001     | 0.00003  | mg/L        | 0.0001     | 0.00003  | ppm          | 52.80%  |
| Ca 227.547 | 8722.4               | 43.89      | 0.109    | mg/L        | 43.89      | 0.109    | ppm          | 0.25%   |
| Cd 228.802 | -19.8                | -0.0002    | 0.00011  | mg/L        | -0.0002    | 0.00011  | ppm          | 61.41%  |
| Co 228.616 | 72.6                 | 0.0008     | 0.00028  | mg/L        | 0.0008     | 0.00028  | ppm          | 34.82%  |
| Cr 267.716 | 999.7                | 0.0111     | 0.00059  | mg/L        | 0.0111     | 0.00059  | ppm          | 5.30%   |
| Cu 324.754 | 7253.4               | 0.0291     | 0.00065  | mg/L        | 0.0291     | 0.00065  | ppm          | 2.25%   |
| Fe 273.955 | 2380.8               | 0.0593     | 0.00194  | mg/L        | 0.0593     | 0.00194  | ppm          | 3.28%   |
| K 766.491  | 464380.3             | 24.42      | 0.860    | mg/L        | 24.42      | 0.860    | ppm          | 3.52%   |
| Mg 279.079 | 2175625.4            | 53.99      | 0.519    | mg/L        | 53.99      | 0.519    | ppm          | 0.96%   |
| Mn 257.610 | 22193.3              | 0.0173     | 0.00045  | mg/L        | 0.0173     | 0.00045  | ppm          | 2.60%   |
| Mo 202.030 | 118.1                | 0.0072     | 0.00097  | mg/L        | 0.0072     | 0.00097  | ppm          | 13.43%  |
| Na 330.237 | 816799.2             | 1339       | 7.2      | mg/L        | 1339       | 7.2      | ppm          | 0.54%   |
| Ni 231.604 | 154.2                | 0.0035     | 0.00024  | mg/L        | 0.0035     | 0.00024  | ppm          | 6.70%   |
| Pb 220.353 | 46.4                 | 0.0029     | 0.00065  | mg/L        | 0.0029     | 0.00065  | ppm          | 22.81%  |
| Sb 206.833 | 8.1                  | 0.0021     | 0.00073  | mg/L        | 0.0021     | 0.00073  | ppm          | 34.98%  |
| Se 196.026 | 11.7                 | 0.0046     | 0.00237  | mg/L        | 0.0046     | 0.00237  | ppm          | 51.49%  |
| Tl 190.800 | 11.4                 | 0.0019     | 0.00102  | mg/L        | 0.0019     | 0.00102  | ppm          | 53.42%  |
| V 292.402  | 7659.0               | 0.0683     | 0.00065  | mg/L        | 0.0683     | 0.00065  | ppm          | 0.95%   |
| Zn 213.856 | 3049.3               | 0.0306     | 0.00005  | mg/L        | 0.0306     | 0.00005  | ppm          | 0.17%   |

Replicate Data

Sample No.: 4  
 Sample Qty: 1.0000 mL  
 Date: 5/19/03 11:40:26 AM

| Element      | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|--------------|---------------|---------------------|-------------------|--------------------|
| 1 Ag 328.068 | 1661.4        | -114.4              | -0.0007 mg/L      | -0.0007 ppm        |
| 1 Al 308.215 | 4263.7        | 679.0               | 0.0229 mg/L       | 0.0229 ppm         |
| 1 As 188.979 | 137.3         | 7.4                 | 0.0038 mg/L       | 0.0038 ppm         |
| 1 Ba 233.527 | 14166.0       | 15188.9             | 0.0399 mg/L       | 0.0399 ppm         |
| 1 Be 313.107 | 358.5         | 101.7               | 0.0000 mg/L       | 0.0000 ppm         |
| 1 Ca 227.547 | 8927.5        | 8270.7              | 41.62 mg/L        | 41.62 ppm          |
| 1 Cd 228.802 | 33.5          | 0.0                 | 0.0000 mg/L       | 0.0000 ppm         |
| 1 Co 228.616 | -521.2        | 33.1                | 0.0004 mg/L       | 0.0004 ppm         |
| 1 Cr 267.716 | 950.9         | 875.6               | 0.0097 mg/L       | 0.0097 ppm         |
| 1 Cu 324.754 | 4014.9        | 682.6               | 0.0027 mg/L       | 0.0027 ppm         |



|   |    |         |           |           |         |      |         |     |
|---|----|---------|-----------|-----------|---------|------|---------|-----|
| 1 | Fe | 273.955 | 1603.1    | 1244.2    | 0.0310  | mg/L | 0.0310  | ppm |
| 1 | K  | 766.491 | 478999.3  | 477453.8  | 25.02   | mg/L | 25.02   | ppm |
| 1 | Mg | 279.079 | 2109369.7 | 2105998.4 | 52.26   | mg/L | 52.26   | ppm |
| 1 | Mn | 257.610 | 21135.8   | 19802.6   | 0.0155  | mg/L | 0.0155  | ppm |
| 1 | Mo | 202.030 | -66.8     | 85.9      | 0.0052  | mg/L | 0.0052  | ppm |
| 1 | Na | 330.237 | 790356.7  | 785707.9  | 1283    | mg/L | 1283    | ppm |
| 1 | Ni | 231.604 | -336.1    | 74.2      | 0.0017  | mg/L | 0.0017  | ppm |
| 1 | Pb | 220.353 | 424.6     | 19.0      | 0.0012  | mg/L | 0.0012  | ppm |
| 1 | Sb | 206.833 | 86.8      | 6.7       | 0.0017  | mg/L | 0.0017  | ppm |
| 1 | Se | 196.026 | 120.6     | 5.8       | 0.0023  | mg/L | 0.0023  | ppm |
| 1 | Tl | 190.800 | 371.7     | 3.5       | -0.0002 | mg/L | -0.0002 | ppm |
| 1 | V  | 292.402 | 7072.2    | 7453.9    | 0.0665  | mg/L | 0.0665  | ppm |
| 1 | Zn | 213.856 | 127.9     | 565.2     | 0.0057  | mg/L | 0.0057  | ppm |
|   |    |         |           |           |         |      |         |     |
| 2 | Ag | 328.068 | 1571.5    | -204.3    | -0.0012 | mg/L | -0.0012 | ppm |
| 2 | Al | 308.215 | 4379.0    | 794.4     | 0.0268  | mg/L | 0.0268  | ppm |
| 2 | As | 188.979 | 147.6     | 17.7      | 0.0072  | mg/L | 0.0072  | ppm |
| 2 | Ba | 233.527 | 13863.5   | 14886.4   | 0.0391  | mg/L | 0.0391  | ppm |
| 2 | Be | 313.107 | 216.6     | -40.2     | 0.0000  | mg/L | 0.0000  | ppm |
| 2 | Ca | 227.547 | 8945.2    | 8288.4    | 41.71   | mg/L | 41.71   | ppm |
| 2 | Cd | 228.802 | 16.6      | -16.9     | -0.0002 | mg/L | -0.0002 | ppm |
| 2 | Co | 228.616 | -541.1    | 13.1      | 0.0001  | mg/L | 0.0001  | ppm |
| 2 | Cr | 267.716 | 944.5     | 869.2     | 0.0096  | mg/L | 0.0096  | ppm |
| 2 | Cu | 324.754 | 3901.0    | 568.8     | 0.0023  | mg/L | 0.0023  | ppm |
| 2 | Fe | 273.955 | 1309.5    | 950.6     | 0.0237  | mg/L | 0.0237  | ppm |
| 2 | K  | 766.491 | 442015.4  | 440469.9  | 23.33   | mg/L | 23.33   | ppm |
| 2 | Mg | 279.079 | 2058295.4 | 2054924.1 | 51.00   | mg/L | 51.00   | ppm |
| 2 | Mn | 257.610 | 20784.5   | 19451.3   | 0.0152  | mg/L | 0.0152  | ppm |
| 2 | Mo | 202.030 | -74.5     | 78.2      | 0.0048  | mg/L | 0.0048  | ppm |
| 2 | Na | 330.237 | 769787.0  | 765138.2  | 1246    | mg/L | 1246    | ppm |
| 2 | Ni | 231.604 | -318.4    | 91.9      | 0.0021  | mg/L | 0.0021  | ppm |
| 2 | Pb | 220.353 | 451.2     | 45.7      | 0.0028  | mg/L | 0.0028  | ppm |
| 2 | Sb | 206.833 | 78.9      | -1.3      | -0.0003 | mg/L | -0.0003 | ppm |
| 2 | Se | 196.026 | 135.1     | 20.3      | 0.0080  | mg/L | 0.0080  | ppm |
| 2 | Tl | 190.800 | 362.2     | -6.0      | -0.0028 | mg/L | -0.0028 | ppm |
| 2 | V  | 292.402 | 6923.4    | 7305.1    | 0.0651  | mg/L | 0.0651  | ppm |
| 2 | Zn | 213.856 | 131.4     | 568.6     | 0.0057  | mg/L | 0.0057  | ppm |
|   |    |         |           |           |         |      |         |     |
| 3 | Ag | 328.068 | 1890.7    | 114.9     | 0.0007  | mg/L | 0.0007  | ppm |
| 3 | Al | 308.215 | 4337.1    | 752.4     | 0.0254  | mg/L | 0.0254  | ppm |
| 3 | As | 188.979 | 143.9     | 14.0      | 0.0060  | mg/L | 0.0060  | ppm |
| 3 | Ba | 233.527 | 14107.4   | 15130.3   | 0.0398  | mg/L | 0.0398  | ppm |
| 3 | Be | 313.107 | 158.1     | -98.7     | 0.0000  | mg/L | 0.0000  | ppm |
| 3 | Ca | 227.547 | 8954.2    | 8297.4    | 41.75   | mg/L | 41.75   | ppm |
| 3 | Cd | 228.802 | 19.8      | -13.7     | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Co | 228.616 | -566.6    | -12.4     | -0.0001 | mg/L | -0.0001 | ppm |
| 3 | Cr | 267.716 | 917.5     | 842.3     | 0.0093  | mg/L | 0.0093  | ppm |
| 3 | Cu | 324.754 | 3742.2    | 409.9     | 0.0016  | mg/L | 0.0016  | ppm |
| 3 | Fe | 273.955 | 1222.5    | 863.6     | 0.0215  | mg/L | 0.0215  | ppm |
| 3 | K  | 766.491 | 436304.5  | 434759.1  | 23.06   | mg/L | 23.06   | ppm |
| 3 | Mg | 279.079 | 2124329.2 | 2120957.9 | 52.64   | mg/L | 52.64   | ppm |
| 3 | Mn | 257.610 | 21479.4   | 20146.2   | 0.0157  | mg/L | 0.0157  | ppm |
| 3 | Mo | 202.030 | -66.1     | 86.6      | 0.0053  | mg/L | 0.0053  | ppm |
| 3 | Na | 330.237 | 792473.8  | 787825.0  | 1287    | mg/L | 1287    | ppm |
| 3 | Ni | 231.604 | -337.9    | 72.4      | 0.0017  | mg/L | 0.0017  | ppm |
| 3 | Pb | 220.353 | 434.7     | 29.1      | 0.0018  | mg/L | 0.0018  | ppm |
| 3 | Sb | 206.833 | 78.4      | -1.7      | -0.0004 | mg/L | -0.0004 | ppm |
| 3 | Se | 196.026 | 117.4     | 2.6       | 0.0010  | mg/L | 0.0010  | ppm |
| 3 | Tl | 190.800 | 373.8     | 5.6       | 0.0004  | mg/L | 0.0004  | ppm |
| 3 | V  | 292.402 | 7121.4    | 7503.1    | 0.0669  | mg/L | 0.0669  | ppm |
| 3 | Zn | 213.856 | 110.7     | 547.9     | 0.0055  | mg/L | 0.0055  | ppm |

Sample Data -----  
 Sample No.: 3261-1 D F=1      Seq. No.: 16      Sample No.: 5      A/S Pos: 14  
 Sample Qty: 1.0000 mL      Prep. Vol.: 1.0 mL      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03      11:40:26 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | -67.9                | -0.0004    | 0.00095  | mg/L        | -0.0004    | 0.00095  | ppm          | 242.29% |
| Al 308.215 | 741.9                | 0.0250     | 0.00197  | mg/L        | 0.0250     | 0.00197  | ppm          | 7.87%   |
| As 188.979 | 13.0                 | 0.0057     | 0.00175  | mg/L        | 0.0057     | 0.00175  | ppm          | 30.94%  |

|           |           |         |              |         |             |         |
|-----------|-----------|---------|--------------|---------|-------------|---------|
| a 233.527 | 15068.5   | 0.0396  | 0.00042 mg/L | 0.0396  | 0.00042 ppm | 1.06%   |
| e 313.107 | -12.4     | 0.0000  | 0.00004 mg/L | 0.0000  | 0.00004 ppm | 833.30% |
| a 227.547 | 8285.5    | 41.69   | 0.068 mg/L   | 41.69   | 0.068 ppm   | 0.16%   |
| d 228.802 | -10.2     | -0.0001 | 0.00008 mg/L | -0.0001 | 0.00008 ppm | 88.12%  |
| o 228.616 | 11.3      | 0.0001  | 0.00025 mg/L | 0.0001  | 0.00025 ppm | 202.08% |
| r 267.716 | 862.4     | 0.0096  | 0.00020 mg/L | 0.0096  | 0.00020 ppm | 2.05%   |
| u 324.754 | 553.8     | 0.0022  | 0.00055 mg/L | 0.0022  | 0.00055 ppm | 24.73%  |
| e 273.955 | 1019.4    | 0.0254  | 0.00497 mg/L | 0.0254  | 0.00497 ppm | 19.56%  |
| 766.491   | 450894.3  | 23.80   | 1.059 mg/L   | 23.80   | 1.059 ppm   | 4.45%   |
| g 279.079 | 2093960.1 | 51.97   | 0.859 mg/L   | 51.97   | 0.859 ppm   | 1.65%   |
| n 257.610 | 19800.0   | 0.0155  | 0.00027 mg/L | 0.0155  | 0.00027 ppm | 1.75%   |
| o 202.030 | 83.5      | 0.0051  | 0.00029 mg/L | 0.0051  | 0.00029 ppm | 5.59%   |
| a 330.237 | 779557.0  | 1272    | 22.4 mg/L    | 1272    | 22.4 ppm    | 1.76%   |
| i 231.604 | 79.5      | 0.0018  | 0.00025 mg/L | 0.0018  | 0.00025 ppm | 13.58%  |
| b 220.353 | 31.3      | 0.0019  | 0.00083 mg/L | 0.0019  | 0.00083 ppm | 43.03%  |
| b 206.833 | 1.2       | 0.0003  | 0.00122 mg/L | 0.0003  | 0.00122 ppm | 383.94% |
| e 196.026 | 9.5       | 0.0038  | 0.00371 mg/L | 0.0038  | 0.00371 ppm | 98.88%  |
| l 190.800 | 1.1       | -0.0009 | 0.00168 mg/L | -0.0009 | 0.00168 ppm | 187.61% |
| 292.402   | 7420.7    | 0.0662  | 0.00092 mg/L | 0.0662  | 0.00092 ppm | 1.39%   |
| n 213.856 | 560.6     | 0.0056  | 0.00011 mg/L | 0.0056  | 0.00011 ppm | 1.98%   |

atrix Check Sample: 3261-1 D F=1

| Element   | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | Relative % Diff. |
|-----------|----------------|----------------|----------|-------------|------------------|
| z 328.068 | 0.0002         | -0.0004        | 0.001    | mg/L        | -493.345         |
| l 308.215 | 0.0329         | 0.0250         | 0.002    | mg/L        | 27.110           |
| s 188.979 | 0.0051         | 0.0057         | 0.002    | mg/L        | 9.947            |
| a 233.527 | 0.0435         | 0.0396         | 0.000    | mg/L        | 9.485            |
| e 313.107 | 0.0001         | 0.0000         | 0.000    | mg/L        | 235.822          |
| a 227.547 | 43.89          | 41.69          | 0.068    | mg/L        | 5.138            |
| i 228.802 | -0.0002        | -0.0001        | 0.000    | mg/L        | -64.057          |
| o 228.616 | 0.0008         | 0.0001         | 0.000    | mg/L        | 146.249          |
| r 267.716 | 0.0111         | 0.0096         | 0.000    | mg/L        | 14.748           |
| u 324.754 | 0.0291         | 0.0022         | 0.001    | mg/L        | 171.627          |
| e 273.955 | 0.0593         | 0.0254         | 0.005    | mg/L        | 80.074           |
| 766.491   | 24.42          | 23.80          | 1.059    | mg/L        | 2.560            |
| g 279.079 | 53.99          | 51.97          | 0.859    | mg/L        | 3.825            |
| n 257.610 | 0.0173         | 0.0155         | 0.000    | mg/L        | 11.399           |
| o 202.030 | 0.0072         | 0.0051         | 0.000    | mg/L        | 34.307           |
| a 330.237 | 1339           | 1272           | 22.363   | mg/L        | 5.119            |
| i 231.604 | 0.0035         | 0.0018         | 0.000    | mg/L        | 63.909           |
| o 220.353 | 0.0029         | 0.0019         | 0.001    | mg/L        | 38.933           |
| o 206.833 | 0.0021         | 0.0003         | 0.001    | mg/L        | 147.172          |
| e 196.026 | 0.0046         | 0.0038         | 0.004    | mg/L        | 20.490           |
| l 190.800 | 0.0019         | -0.0009        | 0.002    | mg/L        | 554.327          |
| 292.402   | 0.0683         | 0.0662         | 0.001    | mg/L        | 3.161            |
| l 213.856 | 0.0306         | 0.0056         | 0.000    | mg/L        | 137.885          |

uplicate Data

: 3261-1 1/5 F=5

Date: 5/19/03

11:44:00 AM

| pl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|-----|------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1   | Ag 328.068 | 1567.1        | -208.7              | -0.0012     | mg/L  | -0.0060      | ppm   |
| 1   | Al 308.215 | 3904.1        | 319.4               | 0.0108      | mg/L  | 0.0539       | ppm   |
| 1   | As 188.979 | 144.8         | 14.9                | 0.0050      | mg/L  | 0.0249       | ppm   |
| 1   | Ba 233.527 | 2180.8        | 3203.7              | 0.0084      | mg/L  | 0.0421       | ppm   |
| 1   | Be 313.107 | 140.1         | -116.6              | -0.0001     | mg/L  | -0.0003      | ppm   |
| 1   | Ca 227.547 | 2523.0        | 1866.1              | 9.391       | mg/L  | 46.95        | ppm   |
| 1   | Cd 228.802 | 12.9          | -20.6               | -0.0002     | mg/L  | -0.0009      | ppm   |
| 1   | Co 228.616 | -572.1        | -17.8               | -0.0002     | mg/L  | -0.0010      | ppm   |
| 1   | Cr 267.716 | 286.7         | 211.5               | 0.0023      | mg/L  | 0.0117       | ppm   |
| 1   | Cu 324.754 | 4277.2        | 945.0               | 0.0038      | mg/L  | 0.0189       | ppm   |
| 1   | Fe 273.955 | 800.9         | 442.0               | 0.0110      | mg/L  | 0.0551       | ppm   |
| 1   | K 766.491  | 67000.9       | 65455.4             | 4.008       | mg/L  | 20.04        | ppm   |
| 1   | Mg 279.079 | 467603.0      | 464231.7            | 11.52       | mg/L  | 57.60        | ppm   |
| 1   | Mn 257.610 | 5839.1        | 4505.9              | 0.0035      | mg/L  | 0.0176       | ppm   |
| 1   | Mo 202.030 | -140.0        | 12.7                | 0.0008      | mg/L  | 0.0039       | ppm   |
| 1   | Na 330.237 | 160302.4      | 155653.6            | 237.2       | mg/L  | 1186         | ppm   |

|              |          |          |              |             |
|--------------|----------|----------|--------------|-------------|
| 1 Ni 231.604 | -396.1   | 14.2     | 0.0003 mg/L  | 0.0016 ppm  |
| 1 Pb 220.353 | 414.2    | 8.6      | 0.0005 mg/L  | 0.0027 ppm  |
| 1 Sb 206.833 | 67.4     | -12.7    | -0.0033 mg/L | -0.0165 ppm |
| 1 Se 196.026 | 116.6    | 1.8      | 0.0007 mg/L  | 0.0036 ppm  |
| 1 Tl 190.800 | 369.0    | 0.9      | 0.0002 mg/L  | 0.0012 ppm  |
| 1 V 292.402  | 1278.2   | 1659.9   | 0.0148 mg/L  | 0.0740 ppm  |
| 1 Zn 213.856 | 261.8    | 699.1    | 0.0070 mg/L  | 0.0350 ppm  |
|              |          |          |              |             |
| 2 Ag 328.068 | 2031.2   | 255.4    | 0.0015 mg/L  | 0.0074 ppm  |
| 2 Al 308.215 | 4052.8   | 468.1    | 0.0158 mg/L  | 0.0790 ppm  |
| 2 As 188.979 | 133.0    | 3.0      | 0.0010 mg/L  | 0.0051 ppm  |
| 2 Ba 233.527 | 2413.1   | 3436.0   | 0.0090 mg/L  | 0.0452 ppm  |
| 2 Be 313.107 | 156.0    | -100.8   | 0.0000 mg/L  | -0.0002 ppm |
| 2 Ca 227.547 | 2524.2   | 1867.3   | 9.397 mg/L   | 46.98 ppm   |
| 2 Cd 228.802 | 3.0      | -30.5    | -0.0003 mg/L | -0.0014 ppm |
| 2 Co 228.616 | -563.8   | -9.6     | -0.0001 mg/L | -0.0005 ppm |
| 2 Cr 267.716 | 296.3    | 221.1    | 0.0025 mg/L  | 0.0123 ppm  |
| 2 Cu 324.754 | 4428.1   | 1095.9   | 0.0044 mg/L  | 0.0220 ppm  |
| 2 Fe 273.955 | 676.7    | 317.8    | 0.0079 mg/L  | 0.0396 ppm  |
| 2 K 766.491  | 71271.1  | 69725.7  | 4.257 mg/L   | 21.29 ppm   |
| 2 Mg 279.079 | 481174.4 | 477803.1 | 11.86 mg/L   | 59.29 ppm   |
| 2 Mn 257.610 | 5881.9   | 4548.7   | 0.0036 mg/L  | 0.0178 ppm  |
| 2 Mo 202.030 | -136.1   | 16.6     | 0.0010 mg/L  | 0.0051 ppm  |
| 2 Na 330.237 | 166182.6 | 161533.8 | 246.3 mg/L   | 1232 ppm    |
| 2 Ni 231.604 | -397.3   | 13.0     | 0.0003 mg/L  | 0.0015 ppm  |
| 2 Pb 220.353 | 432.7    | 27.1     | 0.0017 mg/L  | 0.0084 ppm  |
| 2 Sb 206.833 | 80.0     | -0.1     | 0.0000 mg/L  | -0.0002 ppm |
| 2 Se 196.026 | 119.5    | 4.7      | 0.0018 mg/L  | 0.0092 ppm  |
| 2 Tl 190.800 | 369.4    | 1.3      | 0.0003 mg/L  | 0.0017 ppm  |
| 2 V 292.402  | 1264.0   | 1645.7   | 0.0147 mg/L  | 0.0734 ppm  |
| 2 Zn 213.856 | 247.0    | 684.3    | 0.0069 mg/L  | 0.0343 ppm  |
|              |          |          |              |             |
| 3 Ag 328.068 | 1664.1   | -111.7   | -0.0006 mg/L | -0.0032 ppm |
| 3 Al 308.215 | 4220.6   | 635.9    | 0.0215 mg/L  | 0.1073 ppm  |
| 3 As 188.979 | 134.0    | 4.1      | 0.0014 mg/L  | 0.0068 ppm  |
| 3 Ba 233.527 | 2338.7   | 3361.6   | 0.0088 mg/L  | 0.0442 ppm  |
| 3 Be 313.107 | 105.8    | -151.0   | -0.0001 mg/L | -0.0003 ppm |
| 3 Ca 227.547 | 2538.8   | 1881.9   | 9.470 mg/L   | 47.35 ppm   |
| 3 Cd 228.802 | -39.0    | -72.5    | -0.0006 mg/L | -0.0032 ppm |
| 3 Co 228.616 | -558.4   | -4.1     | 0.0000 mg/L  | -0.0002 ppm |
| 3 Cr 267.716 | 306.5    | 231.3    | 0.0026 mg/L  | 0.0128 ppm  |
| 3 Cu 324.754 | 4265.2   | 932.9    | 0.0037 mg/L  | 0.0187 ppm  |
| 3 Fe 273.955 | 739.8    | 380.9    | 0.0095 mg/L  | 0.0474 ppm  |
| 3 K 766.491  | 73820.5  | 72275.0  | 4.406 mg/L   | 22.03 ppm   |
| 3 Mg 279.079 | 493362.6 | 489991.3 | 12.16 mg/L   | 60.80 ppm   |
| 3 Mn 257.610 | 6128.2   | 4795.0   | 0.0037 mg/L  | 0.0187 ppm  |
| 3 Mo 202.030 | -143.8   | 8.9      | 0.0005 mg/L  | 0.0027 ppm  |
| 3 Na 330.237 | 170237.1 | 165588.3 | 252.6 mg/L   | 1263 ppm    |
| 3 Ni 231.604 | -410.6   | -0.3     | 0.0000 mg/L  | 0.0000 ppm  |
| 3 Pb 220.353 | 428.4    | 22.9     | 0.0014 mg/L  | 0.0070 ppm  |
| 3 Sb 206.833 | 84.2     | 4.1      | 0.0011 mg/L  | 0.0053 ppm  |
| 3 Se 196.026 | 128.8    | 14.0     | 0.0055 mg/L  | 0.0276 ppm  |
| 3 Tl 190.800 | 373.7    | 5.5      | 0.0015 mg/L  | 0.0076 ppm  |
| 3 V 292.402  | 1204.0   | 1585.7   | 0.0141 mg/L  | 0.0707 ppm  |
| 3 Zn 213.856 | 255.2    | 692.4    | 0.0069 mg/L  | 0.0347 ppm  |

ean Data -----  
 Sample No.: 17      Sample No.: 6      A/S Pos: 15  
 Sample Qty: 1.0000 mL      Prep. Vol.: 1.0 mL      Dilution: 1.0: 5.0  
 Data: Original      Date: 5/19/03 11:44:00 AM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | -21.7                | -0.0001    | 0.00141  | mg/L        | -0.0006    | 0.00706  | ppm          | >999.9% |
| Al 308.215 | 474.5                | 0.0160     | 0.00534  | mg/L        | 0.0800     | 0.02671  | ppm          | 33.37%  |
| As 188.979 | 7.3                  | 0.0024     | 0.00219  | mg/L        | 0.0122     | 0.01096  | ppm          | 89.44%  |
| Ba 233.527 | 3333.8               | 0.0088     | 0.00031  | mg/L        | 0.0438     | 0.00156  | ppm          | 3.56%   |
| Be 313.107 | -122.8               | -0.0001    | 0.00001  | mg/L        | -0.0003    | 0.00006  | ppm          | 20.91%  |
| Ca 227.547 | 1871.8               | 9.419      | 0.0443   | mg/L        | 47.10      | 0.221    | ppm          | 0.47%   |
| Cd 228.802 | -41.2                | -0.0004    | 0.00025  | mg/L        | -0.0018    | 0.00123  | ppm          | 66.90%  |
| Co 228.616 | -10.5                | -0.0001    | 0.00008  | mg/L        | -0.0006    | 0.00038  | ppm          | 65.66%  |
| Cr 267.716 | 221.3                | 0.0025     | 0.00011  | mg/L        | 0.0123     | 0.00055  | ppm          | 4.48%   |

|           |          |         |              |         |             |         |
|-----------|----------|---------|--------------|---------|-------------|---------|
| u 324.754 | 991.3    | 0.0040  | 0.00036 mg/L | 0.0199  | 0.00182 ppm | 9.16%   |
| e 273.955 | 380.2    | 0.0095  | 0.00155 mg/L | 0.0474  | 0.00774 ppm | 16.34%  |
| 766.491   | 69152.0  | 4.224   | 0.2009 mg/L  | 21.12   | 1.004 ppm   | 4.76%   |
| g 279.079 | 477342.0 | 11.85   | 0.320 mg/L   | 59.23   | 1.599 ppm   | 2.70%   |
| n 257.610 | 4616.5   | 0.0036  | 0.00012 mg/L | 0.0180  | 0.00061 ppm | 3.38%   |
| o 202.030 | 12.7     | 0.0008  | 0.00024 mg/L | 0.0039  | 0.00119 ppm | 30.56%  |
| a 330.237 | 160925.2 | 245.4   | 7.74 mg/L    | 1227    | 38.7 ppm    | 3.15%   |
| i 231.604 | 9.0      | 0.0002  | 0.00018 mg/L | 0.0010  | 0.00092 ppm | 89.64%  |
| b 220.353 | 19.5     | 0.0012  | 0.00060 mg/L | 0.0060  | 0.00299 ppm | 49.59%  |
| b 206.833 | -2.9     | -0.0008 | 0.00226 mg/L | -0.0038 | 0.01131 ppm | 298.96% |
| e 196.026 | 6.9      | 0.0027  | 0.00251 mg/L | 0.0135  | 0.01254 ppm | 93.00%  |
| l 190.800 | 2.5      | 0.0007  | 0.00071 mg/L | 0.0035  | 0.00354 ppm | 101.48% |
| 292.402   | 1630.4   | 0.0145  | 0.00035 mg/L | 0.0727  | 0.00176 ppm | 2.42%   |
| n 213.856 | 691.9    | 0.0069  | 0.00007 mg/L | 0.0347  | 0.00037 ppm | 1.07%   |

uplicate Data

D: 3261-1 MS F=1

Date: 5/19/03

11:47:42 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|------|------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1    | Ag 328.068 | 176917.2      | 175141.4            | 1.011       | mg/L  | 1.011        | ppm   |
| 1    | Al 308.215 | 64402.1       | 60817.5             | 2.052       | mg/L  | 2.052        | ppm   |
| 1    | As 188.979 | 1522.9        | 1393.0              | 0.4761      | mg/L  | 0.4761       | ppm   |
| 1    | Ba 233.527 | 1589453.5     | 1590476.4           | 4.180       | mg/L  | 4.180        | ppm   |
| 1    | Be 313.107 | 425900.7      | 425644.0            | 0.1835      | mg/L  | 0.1835       | ppm   |
| 1    | Ca 227.547 | 13718.9       | 13062.0             | 65.73       | mg/L  | 65.73        | ppm   |
| 1    | Cd 228.802 | 29026.6       | 28993.1             | 0.2581      | mg/L  | 0.2581       | ppm   |
| 1    | Co 228.616 | 93544.4       | 94098.6             | 1.033       | mg/L  | 1.033        | ppm   |
| 1    | Cr 267.716 | 91653.7       | 91578.5             | 1.015       | mg/L  | 1.015        | ppm   |
| 1    | Cu 324.754 | 269726.9      | 266394.7            | 1.068       | mg/L  | 1.068        | ppm   |
| 1    | Fe 273.955 | 41318.5       | 40959.5             | 1.020       | mg/L  | 1.020        | ppm   |
| 1    | K 766.491  | 626410.1      | 624864.6            | 31.46       | mg/L  | 31.46        | ppm   |
| 1    | Mg 279.079 | 2500650.6     | 2497279.3           | 61.98       | mg/L  | 61.98        | ppm   |
| 1    | Mn 257.610 | 1167644.8     | 1166311.6           | 0.9103      | mg/L  | 0.9103       | ppm   |
| 1    | Mo 202.030 | 34718.3       | 34871.0             | 2.130       | mg/L  | 2.130        | ppm   |
| 1    | Na 330.237 | 831037.3      | 826388.5            | 1356        | mg/L  | 1356         | ppm   |
| 1    | Ni 231.604 | 43775.8       | 44186.1             | 1.008       | mg/L  | 1.008        | ppm   |
| 1    | Pb 220.353 | 49723.9       | 49318.4             | 3.040       | mg/L  | 3.040        | ppm   |
| 1    | Sb 206.833 | 1975.7        | 1895.6              | 0.4610      | mg/L  | 0.4610       | ppm   |
| 1    | Se 196.026 | 1252.2        | 1137.4              | 0.4472      | mg/L  | 0.4472       | ppm   |
| 1    | Tl 190.800 | 1960.4        | 1592.3              | 0.4359      | mg/L  | 0.4359       | ppm   |
| 1    | V 292.402  | 231822.4      | 232204.1            | 2.070       | mg/L  | 2.070        | ppm   |
| 1    | Zn 213.856 | 51658.2       | 52095.4             | 0.5222      | mg/L  | 0.5222       | ppm   |
| 2    | Ag 328.068 | 165489.7      | 163713.9            | 0.9449      | mg/L  | 0.9449       | ppm   |
| 2    | Al 308.215 | 60449.1       | 56864.4             | 1.918       | mg/L  | 1.918        | ppm   |
| 2    | As 188.979 | 1522.8        | 1392.9              | 0.4755      | mg/L  | 0.4755       | ppm   |
| 2    | Ba 233.527 | 1608617.5     | 1609640.4           | 4.230       | mg/L  | 4.230        | ppm   |
| 2    | Be 313.107 | 432024.3      | 431767.5            | 0.1861      | mg/L  | 0.1861       | ppm   |
| 2    | Ca 227.547 | 12890.3       | 12233.5             | 61.56       | mg/L  | 61.56        | ppm   |
| 2    | Cd 228.802 | 27300.3       | 27266.9             | 0.2427      | mg/L  | 0.2427       | ppm   |
| 2    | Co 228.616 | 88015.8       | 88570.1             | 0.9723      | mg/L  | 0.9723       | ppm   |
| 2    | Cr 267.716 | 86307.0       | 86231.7             | 0.9560      | mg/L  | 0.9560       | ppm   |
| 2    | Cu 324.754 | 252754.0      | 249421.8            | 1.0000      | mg/L  | 1.0000       | ppm   |
| 2    | Fe 273.955 | 38502.9       | 38143.9             | 0.9503      | mg/L  | 0.9503       | ppm   |
| 2    | K 766.491  | 610247.5      | 608702.1            | 30.77       | mg/L  | 30.77        | ppm   |
| 2    | Mg 279.079 | 2537194.0     | 2533822.7           | 62.88       | mg/L  | 62.88        | ppm   |
| 2    | Mn 257.610 | 1183703.4     | 1182370.2           | 0.9229      | mg/L  | 0.9229       | ppm   |
| 2    | Mo 202.030 | 32581.7       | 32734.3             | 1.999       | mg/L  | 1.999        | ppm   |
| 2    | Na 330.237 | 842449.0      | 837800.2            | 1377        | mg/L  | 1377         | ppm   |
| 2    | Ni 231.604 | 41232.3       | 41642.6             | 0.9496      | mg/L  | 0.9496       | ppm   |
| 2    | Pb 220.353 | 46693.9       | 46288.4             | 2.853       | mg/L  | 2.853        | ppm   |
| 2    | Sb 206.833 | 1980.9        | 1900.8              | 0.4641      | mg/L  | 0.4641       | ppm   |
| 2    | Se 196.026 | 1263.6        | 1148.8              | 0.4517      | mg/L  | 0.4517       | ppm   |
| 2    | Tl 190.800 | 1945.0        | 1576.8              | 0.4317      | mg/L  | 0.4317       | ppm   |
| 2    | V 292.402  | 218459.3      | 218841.0            | 1.951       | mg/L  | 1.951        | ppm   |
| 2    | Zn 213.856 | 48185.5       | 48622.7             | 0.4874      | mg/L  | 0.4874       | ppm   |
| 3    | Ag 328.068 | 176659.0      | 174883.2            | 1.009       | mg/L  | 1.009        | ppm   |
| 3    | Al 308.215 | 64354.2       | 60769.5             | 2.050       | mg/L  | 2.050        | ppm   |
| 3    | As 188.979 | 1531.6        | 1401.6              | 0.4791      | mg/L  | 0.4791       | ppm   |

|              |           |           |             |            |
|--------------|-----------|-----------|-------------|------------|
| 3 Ba 233.527 | 1645017.3 | 1646040.2 | 4.326 mg/L  | 4.326 ppm  |
| 3 Be 313.107 | 441210.0  | 440953.3  | 0.1901 mg/L | 0.1901 ppm |
| 3 Ca 227.547 | 13740.9   | 13084.0   | 65.84 mg/L  | 65.84 ppm  |
| 3 Cd 228.802 | 28785.7   | 28752.3   | 0.2559 mg/L | 0.2559 ppm |
| 3 Co 228.616 | 93977.6   | 94531.8   | 1.038 mg/L  | 1.038 ppm  |
| 3 Cr 267.716 | 91908.9   | 91833.6   | 1.018 mg/L  | 1.018 ppm  |
| 3 Cu 324.754 | 269740.9  | 266408.7  | 1.068 mg/L  | 1.068 ppm  |
| 3 Fe 273.955 | 41098.8   | 40739.9   | 1.015 mg/L  | 1.015 ppm  |
| 3 K 766.491  | 633653.7  | 632108.2  | 31.76 mg/L  | 31.76 ppm  |
| 3 Mg 279.079 | 2596027.8 | 2592656.5 | 64.34 mg/L  | 64.34 ppm  |
| 3 Mn 257.610 | 1209201.5 | 1207868.3 | 0.9428 mg/L | 0.9428 ppm |
| 3 Mo 202.030 | 34883.5   | 35036.2   | 2.140 mg/L  | 2.140 ppm  |
| 3 Na 330.237 | 860334.5  | 855685.7  | 1409 mg/L   | 1409 ppm   |
| 3 Ni 231.604 | 43947.8   | 44358.1   | 1.011 mg/L  | 1.011 ppm  |
| 3 Pb 220.353 | 49720.7   | 49315.2   | 3.040 mg/L  | 3.040 ppm  |
| 3 Sb 206.833 | 2000.9    | 1920.7    | 0.4674 mg/L | 0.4674 ppm |
| 3 Se 196.026 | 1278.0    | 1163.2    | 0.4574 mg/L | 0.4574 ppm |
| 3 Tl 190.800 | 1984.6    | 1616.5    | 0.4425 mg/L | 0.4425 ppm |
| 3 V 292.402  | 232786.3  | 233168.0  | 2.079 mg/L  | 2.079 ppm  |
| 3 Zn 213.856 | 51608.6   | 52045.8   | 0.5217 mg/L | 0.5217 ppm |

Mean Data

D: 3261-1 MS F=1  
 Sample Qty: 1.0000 mL  
 Seq. No.: 18  
 Prep. Vol.:  
 Sample No.: 7  
 1.0 mL  
 A/S Pos: 16  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 11:47:42 AM  
 Data: Original

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| g 328.068 | 171246.2             | 0.9883     | 0.03765  | mg/L        | 0.9883     | 0.03765  | ppm          | 3.81% |
| l 308.215 | 59483.8              | 2.007      | 0.0765   | mg/L        | 2.007      | 0.0765   | ppm          | 3.81% |
| s 188.979 | 1395.8               | 0.4769     | 0.00190  | mg/L        | 0.4769     | 0.00190  | ppm          | 0.40% |
| a 233.527 | 1615385.7            | 4.245      | 0.0742   | mg/L        | 4.245      | 0.0742   | ppm          | 1.75% |
| e 313.107 | 432788.2             | 0.1865     | 0.00332  | mg/L        | 0.1865     | 0.00332  | ppm          | 1.78% |
| a 227.547 | 12793.2              | 64.38      | 2.440    | mg/L        | 64.38      | 2.440    | ppm          | 3.79% |
| d 228.802 | 28337.4              | 0.2522     | 0.00832  | mg/L        | 0.2522     | 0.00832  | ppm          | 3.30% |
| o 228.616 | 92400.2              | 1.014      | 0.0365   | mg/L        | 1.014      | 0.0365   | ppm          | 3.60% |
| r 267.716 | 89881.3              | 0.9964     | 0.03507  | mg/L        | 0.9964     | 0.03507  | ppm          | 3.52% |
| u 324.754 | 260741.7             | 1.045      | 0.0393   | mg/L        | 1.045      | 0.0393   | ppm          | 3.76% |
| e 273.955 | 39947.8              | 0.9952     | 0.03901  | mg/L        | 0.9952     | 0.03901  | ppm          | 3.92% |
| 766.491   | 621891.6             | 31.33      | 0.508    | mg/L        | 31.33      | 0.508    | ppm          | 1.62% |
| g 279.079 | 2541252.8            | 63.07      | 1.194    | mg/L        | 63.07      | 1.194    | ppm          | 1.89% |
| n 257.610 | 1185516.7            | 0.9253     | 0.01636  | mg/L        | 0.9253     | 0.01636  | ppm          | 1.77% |
| o 202.030 | 34213.8              | 2.090      | 0.0784   | mg/L        | 2.090      | 0.0784   | ppm          | 3.75% |
| a 330.237 | 839958.1             | 1381       | 26.8     | mg/L        | 1381       | 26.8     | ppm          | 1.94% |
| i 231.604 | 43395.6              | 0.9896     | 0.03467  | mg/L        | 0.9896     | 0.03467  | ppm          | 3.50% |
| b 220.353 | 48307.3              | 2.978      | 0.1078   | mg/L        | 2.978      | 0.1078   | ppm          | 3.62% |
| b 206.833 | 1905.7               | 0.4642     | 0.00321  | mg/L        | 0.4642     | 0.00321  | ppm          | 0.69% |
| e 196.026 | 1149.8               | 0.4521     | 0.00510  | mg/L        | 0.4521     | 0.00510  | ppm          | 1.13% |
| l 190.800 | 1595.2               | 0.4367     | 0.00547  | mg/L        | 0.4367     | 0.00547  | ppm          | 1.25% |
| 292.402   | 228071.0             | 2.033      | 0.0714   | mg/L        | 2.033      | 0.0714   | ppm          | 3.51% |
| n 213.856 | 50921.3              | 0.5105     | 0.01996  | mg/L        | 0.5105     | 0.01996  | ppm          | 3.91% |

Matrix Check Sample: 3261-1 MS F=1

| Element   | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|-----------|----------------|----------------|----------|-------------|------------|
| g 328.068 | 1.000          | 0.9883         | 0.038    | mg/L        | 98.816     |
| l 308.215 | 2.033          | 2.007          | 0.077    | mg/L        | 98.686     |
| s 188.979 | 0.5051         | 0.4769         | 0.002    | mg/L        | 94.355     |
| a 233.527 | 4.044          | 4.245          | 0.074    | mg/L        | 105.047    |
| e 313.107 | 0.2001         | 0.1865         | 0.003    | mg/L        | 93.235     |
| a 227.547 | 63.89          | 64.38          | 2.440    | mg/L        | 102.426    |
| d 228.802 | 0.2498         | 0.2522         | 0.008    | mg/L        | 100.957    |
| o 228.616 | 1.001          | 1.014          | 0.036    | mg/L        | 101.359    |
| r 267.716 | 1.011          | 0.9964         | 0.035    | mg/L        | 98.536     |
| u 324.754 | 1.029          | 1.045          | 0.039    | mg/L        | 101.626    |
| e 273.955 | 1.059          | 0.9952         | 0.039    | mg/L        | 93.588     |
| 766.491   | 29.42          | 31.33          | 0.508    | mg/L        | 138.210    |
| g 279.079 | 63.99          | 63.07          | 1.194    | mg/L        | 90.738     |
| n 257.610 | 1.017          | 0.9253         | 0.016    | mg/L        | 90.799     |
| o 202.030 | 2.007          | 2.090          | 0.078    | mg/L        | 104.116    |

|           |        |        |        |      |         |
|-----------|--------|--------|--------|------|---------|
| a 330.237 | 1379   | 1381   | 26.821 | mg/L | 104.861 |
| i 231.604 | 1.004  | 0.9896 | 0.035  | mg/L | 98.604  |
| b 220.353 | 3.003  | 2.978  | 0.108  | mg/L | 99.161  |
| b 206.833 | 0.5021 | 0.4642 | 0.003  | mg/L | 92.420  |
| e 196.026 | 0.5046 | 0.4521 | 0.005  | mg/L | 89.505  |
| l 190.800 | 0.5019 | 0.4367 | 0.005  | mg/L | 86.957  |
| 292.402   | 2.068  | 2.033  | 0.071  | mg/L | 98.259  |
| n 213.856 | 0.5306 | 0.5105 | 0.020  | mg/L | 95.982  |

uplicate Data -----

D: 3261-1 MSD F=1

Date: 5/19/03

11:51:29 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Conc. Units | Calib Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------|-------------|--------------------|
| 1    | Ag 328.068 | 169752.1      | 167976.3            | 0.9695 mg/L |             | 0.9695 ppm         |
| 1    | Al 308.215 | 61823.0       | 58238.3             | 1.965 mg/L  |             | 1.965 ppm          |
| 1    | As 188.979 | 1537.7        | 1407.8              | 0.4807 mg/L |             | 0.4807 ppm         |
| 1    | Ba 233.527 | 1665346.1     | 1666369.0           | 4.379 mg/L  |             | 4.379 ppm          |
| 1    | Be 313.107 | 446983.4      | 446726.6            | 0.1925 mg/L |             | 0.1925 ppm         |
| 1    | Ca 227.547 | 13231.8       | 12575.0             | 63.28 mg/L  |             | 63.28 ppm          |
| 1    | Cd 228.802 | 27846.6       | 27813.2             | 0.2475 mg/L |             | 0.2475 ppm         |
| 1    | Co 228.616 | 90292.3       | 90846.6             | 0.9973 mg/L |             | 0.9973 ppm         |
| 1    | Cr 267.716 | 88170.1       | 88094.8             | 0.9766 mg/L |             | 0.9766 ppm         |
| 1    | Cu 324.754 | 258736.8      | 255404.6            | 1.024 mg/L  |             | 1.024 ppm          |
| 1    | Fe 273.955 | 39427.5       | 39068.5             | 0.9733 mg/L |             | 0.9733 ppm         |
| 1    | K 766.491  | 625912.2      | 624366.7            | 31.44 mg/L  |             | 31.44 ppm          |
| 1    | Mg 279.079 | 2627138.2     | 2623766.9           | 65.11 mg/L  |             | 65.11 ppm          |
| 1    | Mn 257.610 | 1224483.3     | 1223150.1           | 0.9547 mg/L |             | 0.9547 ppm         |
| 1    | Mo 202.030 | 33349.8       | 33502.5             | 2.046 mg/L  |             | 2.046 ppm          |
| 1    | Na 330.237 | 872095.2      | 867446.4            | 1431 mg/L   |             | 1431 ppm           |
| 1    | Ni 231.604 | 41897.7       | 42308.0             | 0.9648 mg/L |             | 0.9648 ppm         |
| 1    | Pb 220.353 | 47670.9       | 47265.3             | 2.913 mg/L  |             | 2.913 ppm          |
| 1    | Sb 206.833 | 1979.5        | 1899.4              | 0.4631 mg/L |             | 0.4631 ppm         |
| 1    | Se 196.026 | 1256.2        | 1141.4              | 0.4488 mg/L |             | 0.4488 ppm         |
| 1    | Tl 190.800 | 1989.3        | 1621.1              | 0.4438 mg/L |             | 0.4438 ppm         |
| 1    | V 292.402  | 223145.6      | 223527.3            | 1.993 mg/L  |             | 1.993 ppm          |
| 1    | Zn 213.856 | 49458.8       | 49896.1             | 0.5002 mg/L |             | 0.5002 ppm         |
| 2    | Ag 328.068 | 169100.3      | 167324.5            | 0.9657 mg/L |             | 0.9657 ppm         |
| 2    | Al 308.215 | 61762.1       | 58177.4             | 1.963 mg/L  |             | 1.963 ppm          |
| 2    | As 188.979 | 1529.2        | 1399.3              | 0.4778 mg/L |             | 0.4778 ppm         |
| 2    | Ba 233.527 | 1600471.4     | 1601494.3           | 4.209 mg/L  |             | 4.209 ppm          |
| 2    | Be 313.107 | 429123.9      | 428867.2            | 0.1848 mg/L |             | 0.1848 ppm         |
| 2    | Ca 227.547 | 12954.4       | 12297.5             | 61.88 mg/L  |             | 61.88 ppm          |
| 2    | Cd 228.802 | 27870.6       | 27837.1             | 0.2478 mg/L |             | 0.2478 ppm         |
| 2    | Co 228.616 | 89848.6       | 90402.8             | 0.9925 mg/L |             | 0.9925 ppm         |
| 2    | Cr 267.716 | 87877.5       | 87802.2             | 0.9734 mg/L |             | 0.9734 ppm         |
| 2    | Cu 324.754 | 257981.8      | 254649.6            | 1.021 mg/L  |             | 1.021 ppm          |
| 2    | Fe 273.955 | 39361.0       | 39002.1             | 0.9716 mg/L |             | 0.9716 ppm         |
| 2    | K 766.491  | 633827.8      | 632282.3            | 31.77 mg/L  |             | 31.77 ppm          |
| 2    | Mg 279.079 | 2526380.2     | 2523008.9           | 62.61 mg/L  |             | 62.61 ppm          |
| 2    | Mn 257.610 | 1177072.2     | 1175739.0           | 0.9177 mg/L |             | 0.9177 ppm         |
| 2    | Mo 202.030 | 33336.5       | 33489.2             | 2.045 mg/L  |             | 2.045 ppm          |
| 2    | Na 330.237 | 836192.8      | 831544.0            | 1366 mg/L   |             | 1366 ppm           |
| 2    | Ni 231.604 | 42077.7       | 42488.0             | 0.9689 mg/L |             | 0.9689 ppm         |
| 2    | Pb 220.353 | 47527.6       | 47122.0             | 2.905 mg/L  |             | 2.905 ppm          |
| 2    | Sb 206.833 | 1980.0        | 1899.9              | 0.4633 mg/L |             | 0.4633 ppm         |
| 2    | Se 196.026 | 1291.6        | 1176.8              | 0.4628 mg/L |             | 0.4628 ppm         |
| 2    | Tl 190.800 | 2011.5        | 1643.4              | 0.4499 mg/L |             | 0.4499 ppm         |
| 2    | V 292.402  | 222856.3      | 223238.0            | 1.990 mg/L  |             | 1.990 ppm          |
| 2    | Zn 213.856 | 49288.8       | 49726.0             | 0.4985 mg/L |             | 0.4985 ppm         |
| 3    | Ag 328.068 | 166380.3      | 164604.5            | 0.9500 mg/L |             | 0.9500 ppm         |
| 3    | Al 308.215 | 60821.4       | 57236.7             | 1.931 mg/L  |             | 1.931 ppm          |
| 3    | As 188.979 | 1529.1        | 1399.1              | 0.4776 mg/L |             | 0.4776 ppm         |
| 3    | Ba 233.527 | 1551754.5     | 1552777.4           | 4.081 mg/L  |             | 4.081 ppm          |
| 3    | Be 313.107 | 414677.4      | 414420.6            | 0.1786 mg/L |             | 0.1786 ppm         |
| 3    | Ca 227.547 | 12873.7       | 12216.8             | 61.48 mg/L  |             | 61.48 ppm          |
| 3    | Cd 228.802 | 27371.3       | 27337.9             | 0.2433 mg/L |             | 0.2433 ppm         |
| 3    | Co 228.616 | 88573.7       | 89128.0             | 0.9785 mg/L |             | 0.9785 ppm         |
| 3    | Cr 267.716 | 86445.8       | 86370.5             | 0.9575 mg/L |             | 0.9575 ppm         |

|              |           |           |             |            |
|--------------|-----------|-----------|-------------|------------|
| 3 Cu 324.754 | 253513.4  | 250181.2  | 1.003 mg/L  | 1.003 ppm  |
| 3 Fe 273.955 | 38734.9   | 38375.9   | 0.9560 mg/L | 0.9560 ppm |
| 3 K 766.491  | 619574.1  | 618028.7  | 31.17 mg/L  | 31.17 ppm  |
| 3 Mg 279.079 | 2443387.6 | 2440016.3 | 60.55 mg/L  | 60.55 ppm  |
| 3 Mn 257.610 | 1139128.6 | 1137795.4 | 0.8881 mg/L | 0.8881 ppm |
| 3 Mo 202.030 | 32653.8   | 32806.5   | 2.004 mg/L  | 2.004 ppm  |
| 3 Na 330.237 | 807585.7  | 802936.9  | 1314 mg/L   | 1314 ppm   |
| 3 Ni 231.604 | 41264.6   | 41674.9   | 0.9503 mg/L | 0.9503 ppm |
| 3 Pb 220.353 | 46797.1   | 46391.6   | 2.860 mg/L  | 2.860 ppm  |
| 3 Sb 206.833 | 1978.5    | 1898.4    | 0.4634 mg/L | 0.4634 ppm |
| 3 Se 196.026 | 1276.3    | 1161.5    | 0.4567 mg/L | 0.4567 ppm |
| 3 Tl 190.800 | 1975.4    | 1607.3    | 0.4401 mg/L | 0.4401 ppm |
| 3 V 292.402  | 218810.2  | 219191.9  | 1.954 mg/L  | 1.954 ppm  |
| 3 Zn 213.856 | 48611.0   | 49048.2   | 0.4917 mg/L | 0.4917 ppm |

ean Data

D: 3261-1 MSD F=1      Seq. No.: 19      Sample No.: 8      A/S Pos: 17  
 ample Qty: 1.0000 mL      Prep. Vol.: 1.0 mL      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03      11:51:29 AM

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| g 328.068 | 166635.1             | 0.9617     | 0.01032  | mg/L        | 0.9617     | 0.01032  | ppm          | 1.07% |
| l 308.215 | 57884.1              | 1.953      | 0.0189   | mg/L        | 1.953      | 0.0189   | ppm          | 0.97% |
| s 188.979 | 1402.1               | 0.4787     | 0.00174  | mg/L        | 0.4787     | 0.00174  | ppm          | 0.36% |
| a 233.527 | 1606880.2            | 4.223      | 0.1498   | mg/L        | 4.223      | 0.1498   | ppm          | 3.55% |
| e 313.107 | 430004.8             | 0.1853     | 0.00697  | mg/L        | 0.1853     | 0.00697  | ppm          | 3.76% |
| a 227.547 | 12363.1              | 62.21      | 0.945    | mg/L        | 62.21      | 0.945    | ppm          | 1.52% |
| d 228.802 | 27662.7              | 0.2462     | 0.00251  | mg/L        | 0.2462     | 0.00251  | ppm          | 1.02% |
| c 228.616 | 90125.8              | 0.9894     | 0.00979  | mg/L        | 0.9894     | 0.00979  | ppm          | 0.99% |
| r 267.716 | 87422.5              | 0.9692     | 0.01023  | mg/L        | 0.9692     | 0.01023  | ppm          | 1.06% |
| u 324.754 | 253411.8             | 1.016      | 0.0113   | mg/L        | 1.016      | 0.0113   | ppm          | 1.11% |
| e 273.955 | 38815.5              | 0.9670     | 0.00952  | mg/L        | 0.9670     | 0.00952  | ppm          | 0.98% |
| 766.491   | 624892.6             | 31.46      | 0.302    | mg/L        | 31.46      | 0.302    | ppm          | 0.96% |
| j 279.079 | 2528930.7            | 62.76      | 2.284    | mg/L        | 62.76      | 2.284    | ppm          | 3.64% |
| n 257.610 | 1178894.9            | 0.9201     | 0.03338  | mg/L        | 0.9201     | 0.03338  | ppm          | 3.63% |
| c 202.030 | 33266.1              | 2.032      | 0.0243   | mg/L        | 2.032      | 0.0243   | ppm          | 1.20% |
| a 330.237 | 833975.8             | 1370       | 58.6     | mg/L        | 1370       | 58.6     | ppm          | 4.28% |
| i 231.604 | 42157.0              | 0.9613     | 0.00974  | mg/L        | 0.9613     | 0.00974  | ppm          | 1.01% |
| c 220.353 | 46926.3              | 2.893      | 0.0289   | mg/L        | 2.893      | 0.0289   | ppm          | 1.00% |
| c 206.833 | 1899.2               | 0.4633     | 0.00015  | mg/L        | 0.4633     | 0.00015  | ppm          | 0.03% |
| e 196.026 | 1159.9               | 0.4561     | 0.00699  | mg/L        | 0.4561     | 0.00699  | ppm          | 1.53% |
| l 190.800 | 1623.9               | 0.4446     | 0.00499  | mg/L        | 0.4446     | 0.00499  | ppm          | 1.12% |
| 292.402   | 221985.7             | 1.979      | 0.0216   | mg/L        | 1.979      | 0.0216   | ppm          | 1.09% |
| 1 213.856 | 49556.8              | 0.4968     | 0.00450  | mg/L        | 0.4968     | 0.00450  | ppm          | 0.91% |

atrix Check Sample: 3261-1 MSD F=1

| Element   | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|-----------|----------------|----------------|----------|-------------|------------|
| j 328.068 | 1.000          | 0.9617         | 0.010    | mg/L        | 96.155     |
| l 308.215 | 2.033          | 1.953          | 0.019    | mg/L        | 95.988     |
| s 188.979 | 0.5051         | 0.4787         | 0.002    | mg/L        | 94.716     |
| a 233.527 | 4.044          | 4.223          | 0.150    | mg/L        | 104.488    |
| e 313.107 | 0.2001         | 0.1853         | 0.007    | mg/L        | 92.635     |
| a 227.547 | 63.89          | 62.21          | 0.945    | mg/L        | 91.605     |
| d 228.802 | 0.2498         | 0.2462         | 0.003    | mg/L        | 98.555     |
| c 228.616 | 1.001          | 0.9894         | 0.010    | mg/L        | 98.862     |
| r 267.716 | 1.011          | 0.9692         | 0.010    | mg/L        | 95.810     |
| u 324.754 | 1.029          | 1.016          | 0.011    | mg/L        | 98.687     |
| e 273.955 | 1.059          | 0.9670         | 0.010    | mg/L        | 90.767     |
| 766.491   | 29.42          | 31.46          | 0.302    | mg/L        | 140.761    |
| j 279.079 | 63.99          | 62.76          | 2.284    | mg/L        | 87.680     |
| n 257.610 | 1.017          | 0.9201         | 0.033    | mg/L        | 90.283     |
| c 202.030 | 2.007          | 2.032          | 0.024    | mg/L        | 101.222    |
| a 330.237 | 1379           | 1370           | 58.616   | mg/L        | 78.072     |
| i 231.604 | 1.004          | 0.9613         | 0.010    | mg/L        | 95.779     |
| c 220.353 | 3.003          | 2.893          | 0.029    | mg/L        | 96.324     |
| c 206.833 | 0.5021         | 0.4633         | 0.000    | mg/L        | 92.243     |
| e 196.026 | 0.5046         | 0.4561         | 0.007    | mg/L        | 90.299     |
| l 190.800 | 0.5019         | 0.4446         | 0.005    | mg/L        | 88.537     |

292.402                    2.068                    1.979                    0.022 mg/L                    95.546  
n 213.856                    0.5306                    0.4968                    0.004 mg/L                    93.246

uplicate Data -----  
D: 3261-1 PS F=1

Date: 5/19/03                    11:55:10 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 164618.9      | 162843.1            | 0.9398 mg/L       | 0.9398 ppm         |
| 1    | Al 308.215 | 60107.8       | 56523.2             | 1.907 mg/L        | 1.907 ppm          |
| 1    | As 188.979 | 1523.7        | 1393.7              | 0.4757 mg/L       | 0.4757 ppm         |
| 1    | Ba 233.527 | 1571024.1     | 1572047.0           | 4.132 mg/L        | 4.132 ppm          |
| 1    | Be 313.107 | 421540.0      | 421283.2            | 0.1816 mg/L       | 0.1816 ppm         |
| 1    | Ca 227.547 | 12677.5       | 12020.6             | 60.49 mg/L        | 60.49 ppm          |
| 1    | Cd 228.802 | 26860.1       | 26826.7             | 0.2388 mg/L       | 0.2388 ppm         |
| 1    | Co 228.616 | 87387.4       | 87941.7             | 0.9654 mg/L       | 0.9654 ppm         |
| 1    | Cr 267.716 | 85771.5       | 85696.2             | 0.9500 mg/L       | 0.9500 ppm         |
| 1    | Cu 324.754 | 250947.8      | 247615.6            | 0.9927 mg/L       | 0.9927 ppm         |
| 1    | Fe 273.955 | 38383.8       | 38024.9             | 0.9473 mg/L       | 0.9473 ppm         |
| 1    | K 766.491  | 599462.3      | 597916.9            | 30.31 mg/L        | 30.31 ppm          |
| 1    | Mg 279.079 | 2500289.0     | 2496917.7           | 61.97 mg/L        | 61.97 ppm          |
| 1    | Mn 257.610 | 1151100.0     | 1149766.8           | 0.8974 mg/L       | 0.8974 ppm         |
| 1    | Mo 202.030 | 32262.5       | 32415.2             | 1.980 mg/L        | 1.980 ppm          |
| 1    | Na 330.237 | 820568.3      | 815919.4            | 1337 mg/L         | 1337 ppm           |
| 1    | Ni 231.604 | 40826.1       | 41236.4             | 0.9403 mg/L       | 0.9403 ppm         |
| 1    | Pb 220.353 | 46360.9       | 45955.3             | 2.833 mg/L        | 2.833 ppm          |
| 1    | Sb 206.833 | 1991.3        | 1911.1              | 0.4669 mg/L       | 0.4669 ppm         |
| 1    | Se 196.026 | 1270.9        | 1156.1              | 0.4546 mg/L       | 0.4546 ppm         |
| 1    | Tl 190.800 | 1978.2        | 1610.0              | 0.4408 mg/L       | 0.4408 ppm         |
| 1    | V 292.402  | 217973.3      | 218355.0            | 1.947 mg/L        | 1.947 ppm          |
| 1    | Zn 213.856 | 47797.8       | 48235.0             | 0.4835 mg/L       | 0.4835 ppm         |
| 2    | Ag 328.068 | 165245.8      | 163470.0            | 0.9434 mg/L       | 0.9434 ppm         |
| 2    | Al 308.215 | 60119.5       | 56534.9             | 1.907 mg/L        | 1.907 ppm          |
| 2    | As 188.979 | 1522.6        | 1392.7              | 0.4754 mg/L       | 0.4754 ppm         |
| 2    | Ba 233.527 | 1572692.6     | 1573715.5           | 4.136 mg/L        | 4.136 ppm          |
| 2    | Be 313.107 | 421878.0      | 421621.2            | 0.1817 mg/L       | 0.1817 ppm         |
| 2    | Ca 227.547 | 12845.5       | 12188.7             | 61.34 mg/L        | 61.34 ppm          |
| 2    | Cd 228.802 | 27156.9       | 27123.4             | 0.2414 mg/L       | 0.2414 ppm         |
| 2    | Co 228.616 | 87877.2       | 88431.5             | 0.9708 mg/L       | 0.9708 ppm         |
| 2    | Cr 267.716 | 85876.5       | 85801.2             | 0.9512 mg/L       | 0.9512 ppm         |
| 2    | Cu 324.754 | 251647.6      | 248315.4            | 0.9955 mg/L       | 0.9955 ppm         |
| 2    | Fe 273.955 | 38214.2       | 37855.3             | 0.9431 mg/L       | 0.9431 ppm         |
| 2    | K 766.491  | 602940.9      | 601395.4            | 30.46 mg/L        | 30.46 ppm          |
| 2    | Mg 279.079 | 2504925.8     | 2501554.5           | 62.08 mg/L        | 62.08 ppm          |
| 2    | Mn 257.610 | 1154740.3     | 1153407.1           | 0.9003 mg/L       | 0.9003 ppm         |
| 2    | Mo 202.030 | 32357.4       | 32510.1             | 1.985 mg/L        | 1.985 ppm          |
| 2    | Na 330.237 | 819953.3      | 815304.5            | 1336 mg/L         | 1336 ppm           |
| 2    | Ni 231.604 | 40982.8       | 41393.1             | 0.9439 mg/L       | 0.9439 ppm         |
| 2    | Pb 220.353 | 46446.1       | 46040.6             | 2.838 mg/L        | 2.838 ppm          |
| 2    | Sb 206.833 | 1978.9        | 1898.7              | 0.4637 mg/L       | 0.4637 ppm         |
| 2    | Se 196.026 | 1278.7        | 1163.9              | 0.4577 mg/L       | 0.4577 ppm         |
| 2    | Tl 190.800 | 1946.1        | 1577.9              | 0.4320 mg/L       | 0.4320 ppm         |
| 2    | V 292.402  | 218162.7      | 218544.4            | 1.949 mg/L        | 1.949 ppm          |
| 2    | Zn 213.856 | 48068.3       | 48505.5             | 0.4863 mg/L       | 0.4863 ppm         |
| 3    | Ag 328.068 | 173117.3      | 171341.5            | 0.9889 mg/L       | 0.9889 ppm         |
| 3    | Al 308.215 | 63040.7       | 59456.0             | 2.006 mg/L        | 2.006 ppm          |
| 3    | As 188.979 | 1556.9        | 1427.0              | 0.4873 mg/L       | 0.4873 ppm         |
| 3    | Ba 233.527 | 1649148.9     | 1650171.8           | 4.337 mg/L        | 4.337 ppm          |
| 3    | Be 313.107 | 442982.9      | 442726.1            | 0.1908 mg/L       | 0.1908 ppm         |
| 3    | Ca 227.547 | 13401.8       | 12745.0             | 64.14 mg/L        | 64.14 ppm          |
| 3    | Cd 228.802 | 28586.6       | 28553.1             | 0.2541 mg/L       | 0.2541 ppm         |
| 3    | Co 228.616 | 91995.1       | 92549.3             | 1.016 mg/L        | 1.016 ppm          |
| 3    | Cr 267.716 | 90099.0       | 90023.7             | 0.9980 mg/L       | 0.9980 ppm         |
| 3    | Cu 324.754 | 264079.6      | 260747.4            | 1.045 mg/L        | 1.045 ppm          |
| 3    | Fe 273.955 | 40074.4       | 39715.5             | 0.9894 mg/L       | 0.9894 ppm         |
| 3    | K 766.491  | 622209.3      | 620663.8            | 31.28 mg/L        | 31.28 ppm          |
| 3    | Mg 279.079 | 2592495.7     | 2589124.4           | 64.25 mg/L        | 64.25 ppm          |
| 3    | Mn 257.610 | 1209749.3     | 1208416.2           | 0.9432 mg/L       | 0.9432 ppm         |
| 3    | Mo 202.030 | 34185.9       | 34338.5             | 2.097 mg/L        | 2.097 ppm          |



|              |          |          |             |            |
|--------------|----------|----------|-------------|------------|
| 3 Na 330.237 | 861798.2 | 857149.4 | 1412 mg/L   | 1412 ppm   |
| 3 Ni 231.604 | 42948.6  | 43358.9  | 0.9887 mg/L | 0.9887 ppm |
| 3 Pb 220.353 | 49095.3  | 48689.8  | 3.001 mg/L  | 3.001 ppm  |
| 3 Sb 206.833 | 2010.7   | 1930.6   | 0.4706 mg/L | 0.4706 ppm |
| 3 Se 196.026 | 1321.1   | 1206.3   | 0.4743 mg/L | 0.4743 ppm |
| 3 Tl 190.800 | 1999.4   | 1631.3   | 0.4466 mg/L | 0.4466 ppm |
| 3 V 292.402  | 228531.4 | 228913.1 | 2.041 mg/L  | 2.041 ppm  |
| 3 Zn 213.856 | 50334.2  | 50771.4  | 0.5090 mg/L | 0.5090 ppm |

Mean Data

Sample: 3261-1 PS F=1  
 Sample Qty: 1.0000 mL  
 Seq. No.: 20  
 Prep. Vol.: 1.0 mL  
 Sample No.: 9  
 Dilution: 1.0: 1.0  
 Data: Original  
 Date: 5/19/03 11:55:10 AM

| Element | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|---------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| 328.068 | 165884.9             | 0.9574     | 0.02733  | mg/L        | 0.9574     | 0.02733  | ppm          | 2.85% |
| 308.215 | 57504.7              | 1.940      | 0.0570   | mg/L        | 1.940      | 0.0570   | ppm          | 2.94% |
| 188.979 | 1404.5               | 0.4795     | 0.00680  | mg/L        | 0.4795     | 0.00680  | ppm          | 1.42% |
| 233.527 | 1598644.8            | 4.201      | 0.1173   | mg/L        | 4.201      | 0.1173   | ppm          | 2.79% |
| 313.107 | 428543.5             | 0.1847     | 0.00529  | mg/L        | 0.1847     | 0.00529  | ppm          | 2.87% |
| 227.547 | 12318.1              | 61.99      | 1.908    | mg/L        | 61.99      | 1.908    | ppm          | 3.08% |
| 228.802 | 27501.1              | 0.2448     | 0.00822  | mg/L        | 0.2448     | 0.00822  | ppm          | 3.36% |
| 228.616 | 89640.8              | 0.9841     | 0.02778  | mg/L        | 0.9841     | 0.02778  | ppm          | 2.82% |
| 267.716 | 87173.7              | 0.9664     | 0.02737  | mg/L        | 0.9664     | 0.02737  | ppm          | 2.83% |
| 324.754 | 252226.1             | 1.011      | 0.0296   | mg/L        | 1.011      | 0.0296   | ppm          | 2.93% |
| 273.955 | 38531.9              | 0.9599     | 0.02562  | mg/L        | 0.9599     | 0.02562  | ppm          | 2.67% |
| 766.491 | 606658.7             | 30.68      | 0.521    | mg/L        | 30.68      | 0.521    | ppm          | 1.70% |
| 279.079 | 2529198.8            | 62.77      | 1.289    | mg/L        | 62.77      | 1.289    | ppm          | 2.05% |
| 257.610 | 1170530.0            | 0.9136     | 0.02565  | mg/L        | 0.9136     | 0.02565  | ppm          | 2.81% |
| 202.030 | 33087.9              | 2.021      | 0.0662   | mg/L        | 2.021      | 0.0662   | ppm          | 3.28% |
| 330.237 | 829457.8             | 1362       | 43.5     | mg/L        | 1362       | 43.5     | ppm          | 3.19% |
| 231.604 | 41996.1              | 0.9576     | 0.02697  | mg/L        | 0.9576     | 0.02697  | ppm          | 2.82% |
| 220.353 | 46895.2              | 2.891      | 0.0958   | mg/L        | 2.891      | 0.0958   | ppm          | 3.32% |
| 206.833 | 1913.5               | 0.4671     | 0.00344  | mg/L        | 0.4671     | 0.00344  | ppm          | 0.74% |
| 196.026 | 1175.4               | 0.4622     | 0.01061  | mg/L        | 0.4622     | 0.01061  | ppm          | 2.30% |
| 190.800 | 1606.4               | 0.4398     | 0.00736  | mg/L        | 0.4398     | 0.00736  | ppm          | 1.67% |
| 292.402 | 221937.5             | 1.979      | 0.0539   | mg/L        | 1.979      | 0.0539   | ppm          | 2.72% |
| 213.856 | 49170.6              | 0.4929     | 0.01396  | mg/L        | 0.4929     | 0.01396  | ppm          | 2.83% |

Matrix Check Sample: 3261-1 PS F=1

| Element | Expected Conc. | Measured Conc. | Std.Dev. | Calib Units | % Recovery |
|---------|----------------|----------------|----------|-------------|------------|
| 328.068 | 1.000          | 0.9574         | 0.027    | mg/L        | 95.722     |
| 308.215 | 2.033          | 1.940          | 0.057    | mg/L        | 95.348     |
| 188.979 | 0.5051         | 0.4795         | 0.007    | mg/L        | 94.872     |
| 233.527 | 4.044          | 4.201          | 0.117    | mg/L        | 103.947    |
| 313.107 | 0.2001         | 0.1847         | 0.005    | mg/L        | 92.320     |
| 227.547 | 63.89          | 61.99          | 1.908    | mg/L        | 90.472     |
| 228.802 | 0.2498         | 0.2448         | 0.008    | mg/L        | 97.979     |
| 228.616 | 1.001          | 0.9841         | 0.028    | mg/L        | 98.330     |
| 267.716 | 1.011          | 0.9664         | 0.027    | mg/L        | 95.535     |
| 324.754 | 1.029          | 1.011          | 0.030    | mg/L        | 98.212     |
| 273.955 | 1.059          | 0.9599         | 0.026    | mg/L        | 90.061     |
| 766.491 | 29.42          | 30.68          | 0.521    | mg/L        | 125.270    |
| 279.079 | 63.99          | 62.77          | 1.289    | mg/L        | 87.747     |
| 257.610 | 1.017          | 0.9136         | 0.026    | mg/L        | 89.630     |
| 202.030 | 2.007          | 2.021          | 0.066    | mg/L        | 100.678    |
| 330.237 | 1379           | 1362           | 43.498   | mg/L        | 57.419     |
| 231.604 | 1.004          | 0.9576         | 0.027    | mg/L        | 95.412     |
| 220.353 | 3.003          | 2.891          | 0.096    | mg/L        | 96.260     |
| 206.833 | 0.5021         | 0.4671         | 0.003    | mg/L        | 92.997     |
| 196.026 | 0.5046         | 0.4622         | 0.011    | mg/L        | 91.521     |
| 190.800 | 0.5019         | 0.4398         | 0.007    | mg/L        | 87.574     |
| 292.402 | 2.068          | 1.979          | 0.054    | mg/L        | 95.525     |
| 213.856 | 0.5306         | 0.4929         | 0.014    | mg/L        | 92.472     |

Replicate Data

Sample: 3261-1 F=10  
 Date: 5/19/03 11:58:39 AM

| epl# | Element    | Net Intensity | Corrected Intensity | Conc. Units  | Sample Conc. Units |
|------|------------|---------------|---------------------|--------------|--------------------|
| 1    | Ag 328.068 | 1622.9        | -152.9              | -0.0009 mg/L | -0.0088 ppm        |
| 1    | Al 308.215 | 3635.3        | 50.6                | 0.0017 mg/L  | 0.0171 ppm         |
| 1    | As 188.979 | 138.4         | 8.4                 | 0.0028 mg/L  | 0.0281 ppm         |
| 1    | Ba 233.527 | 857.0         | 1879.9              | 0.0049 mg/L  | 0.0494 ppm         |
| 1    | Be 313.107 | 859.3         | 602.5               | 0.0003 mg/L  | 0.0026 ppm         |
| 1    | Ca 227.547 | 1642.7        | 985.8               | 4.961 mg/L   | 49.61 ppm          |
| 1    | Cd 228.802 | 1.0           | -32.5               | -0.0003 mg/L | -0.0029 ppm        |
| 1    | Co 228.616 | -522.5        | 31.7                | 0.0003 mg/L  | 0.0035 ppm         |
| 1    | Cr 267.716 | 262.2         | 186.9               | 0.0021 mg/L  | 0.0207 ppm         |
| 1    | Cu 324.754 | 3607.6        | 275.3               | 0.0011 mg/L  | 0.0110 ppm         |
| 1    | Fe 273.955 | 712.1         | 353.2               | 0.0088 mg/L  | 0.0880 ppm         |
| 1    | K 766.491  | 30461.3       | 28915.8             | 1.840 mg/L   | 18.40 ppm          |
| 1    | Mg 279.079 | 248036.8      | 244665.5            | 6.072 mg/L   | 60.72 ppm          |
| 1    | Mn 257.610 | 3930.9        | 2597.7              | 0.0020 mg/L  | 0.0203 ppm         |
| 1    | Mo 202.030 | -116.4        | 36.3                | 0.0022 mg/L  | 0.0222 ppm         |
| 1    | Na 330.237 | 83265.5       | 78616.7             | 118.8 mg/L   | 1188 ppm           |
| 1    | Ni 231.604 | -357.8        | 52.5                | 0.0012 mg/L  | 0.0120 ppm         |
| 1    | Pb 220.353 | 449.1         | 43.6                | 0.0027 mg/L  | 0.0269 ppm         |
| 1    | Sb 206.833 | 87.7          | 7.5                 | 0.0019 mg/L  | 0.0194 ppm         |
| 1    | Se 196.026 | 101.1         | -13.7               | -0.0054 mg/L | -0.0538 ppm        |
| 1    | Tl 190.800 | 364.8         | -3.4                | -0.0009 mg/L | -0.0092 ppm        |
| 1    | V 292.402  | 600.0         | 981.7               | 0.0088 mg/L  | 0.0875 ppm         |
| 1    | Zn 213.856 | -101.5        | 335.7               | 0.0034 mg/L  | 0.0337 ppm         |
| 2    | Ag 328.068 | 1753.0        | -22.8               | -0.0001 mg/L | -0.0013 ppm        |
| 2    | Al 308.215 | 3904.9        | 320.2               | 0.0108 mg/L  | 0.1080 ppm         |
| 2    | As 188.979 | 126.7         | -3.3                | -0.0011 mg/L | -0.0109 ppm        |
| 2    | Ba 233.527 | 1131.4        | 2154.2              | 0.0057 mg/L  | 0.0566 ppm         |
| 2    | Be 313.107 | 627.2         | 370.5               | 0.0002 mg/L  | 0.0016 ppm         |
| 2    | Ca 227.547 | 1623.6        | 966.8               | 4.865 mg/L   | 48.65 ppm          |
| 2    | Cd 228.802 | -20.8         | -54.2               | -0.0005 mg/L | -0.0048 ppm        |
| 2    | Co 228.616 | -511.8        | 42.5                | 0.0005 mg/L  | 0.0047 ppm         |
| 2    | Cr 267.716 | 247.0         | 171.8               | 0.0019 mg/L  | 0.0190 ppm         |
| 2    | Cu 324.754 | 3459.7        | 127.4               | 0.0005 mg/L  | 0.0051 ppm         |
| 2    | Fe 273.955 | 471.8         | 112.8               | 0.0028 mg/L  | 0.0281 ppm         |
| 2    | K 766.491  | 32041.8       | 30496.4             | 1.935 mg/L   | 19.35 ppm          |
| 2    | Mg 279.079 | 252276.4      | 248905.1            | 6.177 mg/L   | 61.77 ppm          |
| 2    | Mn 257.610 | 4015.5        | 2682.3              | 0.0021 mg/L  | 0.0209 ppm         |
| 2    | Mo 202.030 | -123.1        | 29.5                | 0.0018 mg/L  | 0.0180 ppm         |
| 2    | Na 330.237 | 84924.0       | 80275.1             | 121.4 mg/L   | 1214 ppm           |
| 2    | Ni 231.604 | -378.3        | 32.0                | 0.0007 mg/L  | 0.0073 ppm         |
| 2    | Pb 220.353 | 418.6         | 13.1                | 0.0008 mg/L  | 0.0081 ppm         |
| 2    | Sb 206.833 | 83.3          | 3.1                 | 0.0008 mg/L  | 0.0081 ppm         |
| 2    | Se 196.026 | 109.4         | -5.4                | -0.0021 mg/L | -0.0214 ppm        |
| 2    | Tl 190.800 | 367.4         | -0.8                | -0.0002 mg/L | -0.0021 ppm        |
| 2    | V 292.402  | 530.4         | 912.1               | 0.0081 mg/L  | 0.0813 ppm         |
| 2    | Zn 213.856 | -116.5        | 320.8               | 0.0032 mg/L  | 0.0322 ppm         |
| 3    | Ag 328.068 | 1969.1        | 193.3               | 0.0011 mg/L  | 0.0112 ppm         |
| 3    | Al 308.215 | 3944.9        | 360.3               | 0.0122 mg/L  | 0.1215 ppm         |
| 3    | As 188.979 | 129.6         | -0.4                | -0.0001 mg/L | -0.0013 ppm        |
| 3    | Ba 233.527 | 827.0         | 1849.8              | 0.0049 mg/L  | 0.0486 ppm         |
| 3    | Be 313.107 | 580.5         | 323.7               | 0.0001 mg/L  | 0.0014 ppm         |
| 3    | Ca 227.547 | 1664.0        | 1007.1              | 5.068 mg/L   | 50.68 ppm          |
| 3    | Cd 228.802 | -15.8         | -49.2               | -0.0004 mg/L | -0.0044 ppm        |
| 3    | Co 228.616 | -560.3        | -6.1                | -0.0001 mg/L | -0.0007 ppm        |
| 3    | Cr 267.716 | 208.7         | 133.5               | 0.0015 mg/L  | 0.0148 ppm         |
| 3    | Cu 324.754 | 3458.2        | 126.0               | 0.0005 mg/L  | 0.0051 ppm         |
| 3    | Fe 273.955 | 554.4         | 195.5               | 0.0049 mg/L  | 0.0487 ppm         |
| 3    | K 766.491  | 31398.9       | 29853.4             | 1.896 mg/L   | 18.96 ppm          |
| 3    | Mg 279.079 | 246178.4      | 242807.1            | 6.026 mg/L   | 60.26 ppm          |
| 3    | Mn 257.610 | 3843.5        | 2510.3              | 0.0020 mg/L  | 0.0196 ppm         |
| 3    | Mo 202.030 | -117.4        | 35.2                | 0.0022 mg/L  | 0.0215 ppm         |
| 3    | Na 330.237 | 82970.0       | 78321.2             | 118.4 mg/L   | 1184 ppm           |
| 3    | Ni 231.604 | -405.1        | 5.2                 | 0.0001 mg/L  | 0.0012 ppm         |
| 3    | Pb 220.353 | 433.5         | 28.0                | 0.0017 mg/L  | 0.0172 ppm         |
| 3    | Sb 206.833 | 98.9          | 18.7                | 0.0048 mg/L  | 0.0485 ppm         |
| 3    | Se 196.026 | 108.1         | -6.7                | -0.0026 mg/L | -0.0263 ppm        |
| 3    | Tl 190.800 | 378.6         | 10.4                | 0.0029 mg/L  | 0.0287 ppm         |

3 V 292.402 434.7 816.4 0.0073 mg/L 0.0728 ppm  
 3 Zn 213.856 -124.8 312.4 0.0031 mg/L 0.0313 ppm

Mean Data

D: 3261-1 F=10 Seq. No.: 21 Sample No.: 10 A/S Pos: 19  
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 10.0  
 Data: Original Date: 5/19/03 11:58:39 AM

| Element   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| g 328.068 | 5.9                  | 0.0000     | 0.00101  | mg/L        | 0.0003     | 0.01009  | ppm          | >999.9% |
| l 308.215 | 243.7                | 0.0082     | 0.00568  | mg/L        | 0.0822     | 0.05680  | ppm          | 69.10%  |
| s 188.979 | 1.6                  | 0.0005     | 0.00203  | mg/L        | 0.0053     | 0.02033  | ppm          | 382.04% |
| a 233.527 | 1961.3               | 0.0052     | 0.00044  | mg/L        | 0.0515     | 0.00441  | ppm          | 8.55%   |
| e 313.107 | 432.2                | 0.0002     | 0.00006  | mg/L        | 0.0019     | 0.00064  | ppm          | 34.55%  |
| a 227.547 | 986.6                | 4.965      | 0.1017   | mg/L        | 49.65      | 1.017    | ppm          | 2.05%   |
| d 228.802 | -45.3                | -0.0004    | 0.00010  | mg/L        | -0.0040    | 0.00102  | ppm          | 25.18%  |
| o 228.616 | 22.7                 | 0.0002     | 0.00028  | mg/L        | 0.0025     | 0.00280  | ppm          | 112.47% |
| r 267.716 | 164.0                | 0.0018     | 0.00031  | mg/L        | 0.0182     | 0.00305  | ppm          | 16.79%  |
| u 324.754 | 176.2                | 0.0007     | 0.00034  | mg/L        | 0.0071     | 0.00344  | ppm          | 48.69%  |
| e 273.955 | 220.5                | 0.0055     | 0.00304  | mg/L        | 0.0549     | 0.03043  | ppm          | 55.38%  |
| 766.491   | 29755.2              | 1.890      | 0.0479   | mg/L        | 18.90      | 0.479    | ppm          | 2.53%   |
| g 279.079 | 245459.2             | 6.092      | 0.0776   | mg/L        | 60.92      | 0.776    | ppm          | 1.27%   |
| n 257.610 | 2596.8               | 0.0020     | 0.00007  | mg/L        | 0.0203     | 0.00067  | ppm          | 3.31%   |
| o 202.030 | 33.7                 | 0.0021     | 0.00022  | mg/L        | 0.0206     | 0.00222  | ppm          | 10.80%  |
| a 330.237 | 79071.0              | 119.5      | 1.61     | mg/L        | 1195       | 16.1     | ppm          | 1.34%   |
| i 231.604 | 29.9                 | 0.0007     | 0.00054  | mg/L        | 0.0068     | 0.00542  | ppm          | 79.43%  |
| b 220.353 | 28.2                 | 0.0017     | 0.00094  | mg/L        | 0.0174     | 0.00941  | ppm          | 54.13%  |
| b 206.833 | 9.8                  | 0.0025     | 0.00208  | mg/L        | 0.0253     | 0.02082  | ppm          | 82.17%  |
| e 196.026 | -8.6                 | -0.0034    | 0.00175  | mg/L        | -0.0338    | 0.01748  | ppm          | 51.66%  |
| l 190.800 | 2.1                  | 0.0006     | 0.00202  | mg/L        | 0.0058     | 0.02016  | ppm          | 348.52% |
| 292.402   | 903.4                | 0.0081     | 0.00074  | mg/L        | 0.0805     | 0.00740  | ppm          | 9.19%   |
| n 213.856 | 323.0                | 0.0032     | 0.00012  | mg/L        | 0.0324     | 0.00118  | ppm          | 3.65%   |

Replicate Data

D: CCV 1447B Date: 5/19/03 12:02:13 PM

| Element      | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|--------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1 Ag 328.068 | 173067.7      | 171291.9            | 0.9886      | mg/L  |              |       |
| 1 Al 308.215 | 154427.3      | 150842.6            | 5.088       | mg/L  |              |       |
| 1 As 188.979 | 1533.7        | 1403.7              | 0.4752      | mg/L  |              |       |
| 1 Ba 233.527 | 1941482.7     | 1942505.6           | 5.105       | mg/L  |              |       |
| 1 Be 313.107 | 1149046.9     | 1148790.1           | 0.4951      | mg/L  |              |       |
| 1 Ca 227.547 | 10624.5       | 9967.6              | 50.16       | mg/L  |              |       |
| 1 Cd 228.802 | 112665.9      | 112632.5            | 1.002       | mg/L  |              |       |
| 1 Co 228.616 | 184467.9      | 185022.1            | 2.031       | mg/L  |              |       |
| 1 Cr 267.716 | 45508.2       | 45433.0             | 0.5037      | mg/L  |              |       |
| 1 Cu 324.754 | 499122.0      | 495789.7            | 1.988       | mg/L  |              |       |
| 1 Fe 273.955 | 204248.9      | 203890.0            | 5.079       | mg/L  |              |       |
| 1 K 766.491  | 290059.7      | 288514.2            | 16.04       | mg/L  |              |       |
| 1 Mg 279.079 | 1027148.2     | 1023776.9           | 25.41       | mg/L  |              |       |
| 1 Mn 257.610 | 2712626.2     | 2711293.0           | 2.116       | mg/L  |              |       |
| 1 Mo 202.030 | 32467.6       | 32620.3             | 1.992       | mg/L  |              |       |
| 1 Na 330.237 | 69585.0       | 64936.1             | 98.01       | mg/L  |              |       |
| 1 Ni 231.604 | 88332.8       | 88743.1             | 2.024       | mg/L  |              |       |
| 1 Pb 220.353 | 8675.4        | 8269.8              | 0.5098      | mg/L  |              |       |
| 1 Sb 206.833 | 7744.8        | 7664.7              | 1.969       | mg/L  |              |       |
| 1 Se 196.026 | 1410.8        | 1296.0              | 0.5096      | mg/L  |              |       |
| 1 Tl 190.800 | 2127.3        | 1759.2              | 0.4832      | mg/L  |              |       |
| 1 V 292.402  | 225007.6      | 225389.3            | 2.010       | mg/L  |              |       |
| 1 Zn 213.856 | 198074.8      | 198512.0            | 1.990       | mg/L  |              |       |
| 2 Ag 328.068 | 171615.4      | 169839.6            | 0.9802      | mg/L  |              |       |
| 2 Al 308.215 | 153082.8      | 149498.1            | 5.043       | mg/L  |              |       |
| 2 As 188.979 | 1543.8        | 1413.9              | 0.4786      | mg/L  |              |       |
| 2 Ba 233.527 | 1923323.2     | 1924346.1           | 5.057       | mg/L  |              |       |
| 2 Be 313.107 | 1139936.8     | 1139680.0           | 0.4912      | mg/L  |              |       |
| 2 Ca 227.547 | 10606.6       | 9949.7              | 50.07       | mg/L  |              |       |
| 2 Cd 228.802 | 111682.2      | 111648.8            | 0.9937      | mg/L  |              |       |
| 2 Co 228.616 | 182921.5      | 183475.7            | 2.014       | mg/L  |              |       |

|   |    |         |           |           |        |      |
|---|----|---------|-----------|-----------|--------|------|
| 2 | Cr | 267.716 | 45137.0   | 45061.8   | 0.4996 | mg/L |
| 2 | Cu | 324.754 | 495098.6  | 491766.4  | 1.972  | mg/L |
| 2 | Fe | 273.955 | 202196.5  | 201837.6  | 5.028  | mg/L |
| 2 | K  | 766.491 | 279775.7  | 278230.3  | 15.52  | mg/L |
| 2 | Mg | 279.079 | 1018212.5 | 1014841.2 | 25.19  | mg/L |
| 2 | Mn | 257.610 | 2634238.9 | 2632905.7 | 2.055  | mg/L |
| 2 | Mo | 202.030 | 32249.2   | 32401.9   | 1.979  | mg/L |
| 2 | Na | 330.237 | 69526.8   | 64878.0   | 97.92  | mg/L |
| 2 | Ni | 231.604 | 87636.7   | 88047.0   | 2.008  | mg/L |
| 2 | Pb | 220.353 | 8759.0    | 8353.5    | 0.5149 | mg/L |
| 2 | Sb | 206.833 | 7812.7    | 7732.5    | 1.987  | mg/L |
| 2 | Se | 196.026 | 1415.1    | 1300.3    | 0.5113 | mg/L |
| 2 | Tl | 190.800 | 2130.2    | 1762.0    | 0.4839 | mg/L |
| 2 | V  | 292.402 | 222996.4  | 223378.1  | 1.992  | mg/L |
| 2 | Zn | 213.856 | 196563.5  | 197000.7  | 1.975  | mg/L |
|   |    |         |           |           |        |      |
| 3 | Ag | 328.068 | 179115.0  | 177339.2  | 1.023  | mg/L |
| 3 | Al | 308.215 | 160093.8  | 156509.1  | 5.280  | mg/L |
| 3 | As | 188.979 | 1559.7    | 1429.8    | 0.4841 | mg/L |
| 3 | Ba | 233.527 | 2005507.9 | 2006530.8 | 5.273  | mg/L |
| 3 | Be | 313.107 | 1188568.3 | 1188311.5 | 0.5122 | mg/L |
| 3 | Ca | 227.547 | 11007.2   | 10350.3   | 52.09  | mg/L |
| 3 | Cd | 228.802 | 116554.2  | 116520.7  | 1.037  | mg/L |
| 3 | Co | 228.616 | 190682.6  | 191236.9  | 2.099  | mg/L |
| 3 | Cr | 267.716 | 47288.5   | 47213.2   | 0.5234 | mg/L |
| 3 | Cu | 324.754 | 516092.3  | 512760.0  | 2.056  | mg/L |
| 3 | Fe | 273.955 | 210602.5  | 210243.6  | 5.238  | mg/L |
| 3 | K  | 766.491 | 277858.3  | 276312.8  | 15.43  | mg/L |
| 3 | Mg | 279.079 | 1062029.5 | 1058658.2 | 26.27  | mg/L |
| 3 | Mn | 257.610 | 2592452.9 | 2591119.7 | 2.022  | mg/L |
| 3 | Mo | 202.030 | 33663.7   | 33816.4   | 2.065  | mg/L |
| 3 | Na | 330.237 | 72256.8   | 67608.0   | 102.1  | mg/L |
| 3 | Ni | 231.604 | 91357.7   | 91768.0   | 2.093  | mg/L |
| 3 | Pb | 220.353 | 8822.5    | 8417.0    | 0.5188 | mg/L |
| 3 | Sb | 206.833 | 7876.9    | 7796.8    | 2.003  | mg/L |
| 3 | Se | 196.026 | 1434.0    | 1319.2    | 0.5187 | mg/L |
| 3 | Tl | 190.800 | 2157.7    | 1789.6    | 0.4915 | mg/L |
| 3 | V  | 292.402 | 232636.9  | 233018.6  | 2.078  | mg/L |
| 3 | Zn | 213.856 | 204898.7  | 205335.9  | 2.058  | mg/L |

ean Data

Sample No.: 22      Sample No.: 5      A/S Pos: 6  
 Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
 Data: Original      Date: 5/19/03      12:02:13 PM

| Element | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|---------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Cr      | 328.068              | 0.9974     | 0.02296  | mg/L        |            |          |              | 2.30% |
| Cu      | 308.215              | 5.137      | 0.1255   | mg/L        |            |          |              | 2.44% |
| As      | 188.979              | 0.4793     | 0.00451  | mg/L        |            |          |              | 0.94% |
| Ba      | 233.527              | 5.145      | 0.1135   | mg/L        |            |          |              | 2.21% |
| Be      | 313.107              | 0.4995     | 0.01114  | mg/L        |            |          |              | 2.23% |
| Ca      | 227.547              | 50.77      | 1.139    | mg/L        |            |          |              | 2.24% |
| Cd      | 228.802              | 1.011      | 0.0229   | mg/L        |            |          |              | 2.27% |
| Co      | 228.616              | 2.048      | 0.0451   | mg/L        |            |          |              | 2.20% |
| Cr      | 267.716              | 0.5089     | 0.01275  | mg/L        |            |          |              | 2.51% |
| Cu      | 324.754              | 2.005      | 0.0447   | mg/L        |            |          |              | 2.23% |
| Fe      | 273.955              | 5.115      | 0.1092   | mg/L        |            |          |              | 2.13% |
| K       | 766.491              | 15.66      | 0.330    | mg/L        |            |          |              | 2.10% |
| Mg      | 279.079              | 25.62      | 0.575    | mg/L        |            |          |              | 2.24% |
| Mn      | 257.610              | 2.065      | 0.0476   | mg/L        |            |          |              | 2.31% |
| Mo      | 202.030              | 2.012      | 0.0465   | mg/L        |            |          |              | 2.31% |
| Na      | 330.237              | 99.33      | 2.373    | mg/L        |            |          |              | 2.39% |
| Ni      | 231.604              | 2.041      | 0.0451   | mg/L        |            |          |              | 2.21% |
| Pb      | 220.353              | 0.5145     | 0.00455  | mg/L        |            |          |              | 0.88% |
| Sb      | 206.833              | 1.986      | 0.0168   | mg/L        |            |          |              | 0.85% |
| Se      | 196.026              | 0.5132     | 0.00485  | mg/L        |            |          |              | 0.95% |
| Tl      | 190.800              | 0.4862     | 0.00461  | mg/L        |            |          |              | 0.95% |
| V       | 292.402              | 2.026      | 0.0453   | mg/L        |            |          |              | 2.24% |
| Zn      | 213.856              | 2.008      | 0.0445   | mg/L        |            |          |              | 2.22% |

uplicate Data

D: CCB

Date: 5/19/03 12:05:43 PM

| epl# | Element    | Net Intensity | Corrected Intensity | Conc. Units | Calib Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------|-------------|--------------------|
| 1    | Ag 328.068 | 1801.3        | 25.5                | 0.0001      | mg/L        |                    |
| 1    | Al 308.215 | 3529.9        | -54.8               | -0.0018     | mg/L        |                    |
| 1    | As 188.979 | 124.9         | -5.1                | -0.0017     | mg/L        |                    |
| 1    | Ba 233.527 | -780.0        | 242.9               | 0.0006      | mg/L        |                    |
| 1    | Be 313.107 | 1082.9        | 826.1               | 0.0004      | mg/L        |                    |
| 1    | Ca 227.547 | 651.5         | -5.4                | -0.0270     | mg/L        |                    |
| 1    | Cd 228.802 | 0.1           | -33.4               | -0.0003     | mg/L        |                    |
| 1    | Co 228.616 | -505.7        | 48.5                | 0.0005      | mg/L        |                    |
| 1    | Cr 267.716 | 110.1         | 34.8                | 0.0004      | mg/L        |                    |
| 1    | Cu 324.754 | 3058.4        | -273.8              | -0.0011     | mg/L        |                    |
| 1    | Fe 273.955 | 519.3         | 160.4               | 0.0040      | mg/L        |                    |
| 1    | K 766.491  | 1731.2        | 185.8               | 0.0857      | mg/L        |                    |
| 1    | Mg 279.079 | 2742.7        | -628.6              | -0.0156     | mg/L        |                    |
| 1    | Mn 257.610 | 2368.1        | 1034.9              | 0.0008      | mg/L        |                    |
| 1    | Mo 202.030 | -131.0        | 21.7                | 0.0013      | mg/L        |                    |
| 1    | Na 330.237 | 4739.0        | 90.2                | -0.0243     | mg/L        |                    |
| 1    | Ni 231.604 | -385.2        | 25.1                | 0.0006      | mg/L        |                    |
| 1    | Pb 220.353 | 418.4         | 12.8                | 0.0008      | mg/L        |                    |
| 1    | Sb 206.833 | 94.4          | 14.2                | 0.0037      | mg/L        |                    |
| 1    | Se 196.026 | 113.8         | -1.0                | -0.0004     | mg/L        |                    |
| 1    | Tl 190.800 | 369.7         | 1.5                 | 0.0004      | mg/L        |                    |
| 1    | V 292.402  | -452.4        | -70.7               | -0.0006     | mg/L        |                    |
| 1    | Zn 213.856 | -433.4        | 3.8                 | 0.0000      | mg/L        |                    |
| 2    | Ag 328.068 | 1580.3        | -195.5              | -0.0011     | mg/L        |                    |
| 2    | Al 308.215 | 3761.5        | 176.8               | 0.0060      | mg/L        |                    |
| 2    | As 188.979 | 127.1         | -2.9                | -0.0010     | mg/L        |                    |
| 2    | Ba 233.527 | -752.1        | 270.8               | 0.0007      | mg/L        |                    |
| 2    | Be 313.107 | 828.8         | 572.0               | 0.0002      | mg/L        |                    |
| 2    | Ca 227.547 | 628.5         | -28.4               | -0.1427     | mg/L        |                    |
| 2    | Cd 228.802 | -1.1          | -34.6               | -0.0003     | mg/L        |                    |
| 2    | Co 228.616 | -511.0        | 43.3                | 0.0005      | mg/L        |                    |
| 2    | Cr 267.716 | 103.2         | 27.9                | 0.0003      | mg/L        |                    |
| 2    | Cu 324.754 | 2910.7        | -421.5              | -0.0017     | mg/L        |                    |
| 2    | Fe 273.955 | 565.9         | 206.9               | 0.0052      | mg/L        |                    |
| 2    | K 766.491  | 1919.4        | 374.0               | 0.0973      | mg/L        |                    |
| 2    | Mg 279.079 | 2477.0        | -894.3              | -0.0222     | mg/L        |                    |
| 2    | Mn 257.610 | 2197.8        | 864.6               | 0.0007      | mg/L        |                    |
| 2    | Mo 202.030 | -132.2        | 20.5                | 0.0012      | mg/L        |                    |
| 2    | Na 330.237 | 5031.7        | 382.8               | 0.4155      | mg/L        |                    |
| 2    | Ni 231.604 | -402.6        | 7.7                 | 0.0002      | mg/L        |                    |
| 2    | Pb 220.353 | 417.4         | 11.9                | 0.0007      | mg/L        |                    |
| 2    | Sb 206.833 | 91.7          | 11.5                | 0.0030      | mg/L        |                    |
| 2    | Se 196.026 | 115.8         | 1.0                 | 0.0004      | mg/L        |                    |
| 2    | Tl 190.800 | 377.7         | 9.5                 | 0.0026      | mg/L        |                    |
| 2    | V 292.402  | -291.7        | 90.0                | 0.0008      | mg/L        |                    |
| 2    | Zn 213.856 | -452.7        | -15.5               | -0.0002     | mg/L        |                    |
| 3    | Ag 328.068 | 1835.5        | 59.7                | 0.0003      | mg/L        |                    |
| 3    | Al 308.215 | 3667.6        | 83.0                | 0.0028      | mg/L        |                    |
| 3    | As 188.979 | 132.7         | 2.7                 | 0.0009      | mg/L        |                    |
| 3    | Ba 233.527 | -903.4        | 119.4               | 0.0003      | mg/L        |                    |
| 3    | Be 313.107 | 1011.8        | 755.0               | 0.0003      | mg/L        |                    |
| 3    | Ca 227.547 | 641.2         | -15.6               | -0.0785     | mg/L        |                    |
| 3    | Cd 228.802 | -26.9         | -60.4               | -0.0005     | mg/L        |                    |
| 3    | Co 228.616 | -539.3        | 14.9                | 0.0002      | mg/L        |                    |
| 3    | Cr 267.716 | 101.0         | 25.7                | 0.0003      | mg/L        |                    |
| 3    | Cu 324.754 | 2898.2        | -434.0              | -0.0017     | mg/L        |                    |
| 3    | Fe 273.955 | 343.9         | -15.0               | -0.0004     | mg/L        |                    |
| 3    | K 766.491  | 2266.3        | 720.9               | 0.1188      | mg/L        |                    |
| 3    | Mg 279.079 | 2414.4        | -956.9              | -0.0237     | mg/L        |                    |
| 3    | Mn 257.610 | 2026.8        | 693.6               | 0.0005      | mg/L        |                    |
| 3    | Mo 202.030 | -152.8        | -0.1                | 0.0000      | mg/L        |                    |
| 3    | Na 330.237 | 4794.9        | 146.0               | 0.0597      | mg/L        |                    |
| 3    | Ni 231.604 | -393.7        | 16.6                | 0.0004      | mg/L        |                    |
| 3    | Pb 220.353 | 404.3         | -1.2                | -0.0001     | mg/L        |                    |
| 3    | Sb 206.833 | 91.1          | 10.9                | 0.0028      | mg/L        |                    |

|              |        |       |              |
|--------------|--------|-------|--------------|
| 3 Se 196.026 | 123.2  | 8.4   | 0.0033 mg/L  |
| 3 Tl 190.800 | 380.7  | 12.6  | 0.0035 mg/L  |
| 3 V 292.402  | -467.2 | -85.5 | -0.0008 mg/L |
| 3 Zn 213.856 | -477.0 | -39.8 | -0.0004 mg/L |

Mean Data

D: CCB  
 Sample Qty: 1.0000 g  
 Seq. No.: 23  
 Prep. Vol.:  
 Data: Original  
 Sample No.: 6  
 1.0 L  
 A/S Pos: 1  
 Dilution: 1.0: 1.0  
 Date: 5/19/03 12:05:43 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | -36.8                | -0.0002    | 0.00080  | mg/L        |            |          |              | 376.66% |
| Al 308.215 | 68.3                 | 0.0023     | 0.00393  | mg/L        |            |          |              | 170.53% |
| As 188.979 | -1.8                 | -0.0006    | 0.00135  | mg/L        |            |          |              | 228.96% |
| Ba 233.527 | 211.0                | 0.0006     | 0.00021  | mg/L        |            |          |              | 38.16%  |
| Be 313.107 | 717.7                | 0.0003     | 0.00006  | mg/L        |            |          |              | 18.26%  |
| Ca 227.547 | -16.4                | -0.0827    | 0.05800  | mg/L        |            |          |              | 70.10%  |
| Cd 228.802 | -42.8                | -0.0004    | 0.00014  | mg/L        |            |          |              | 35.67%  |
| Co 228.616 | 35.6                 | 0.0004     | 0.00020  | mg/L        |            |          |              | 50.83%  |
| Cr 267.716 | 29.5                 | 0.0003     | 0.00005  | mg/L        |            |          |              | 16.11%  |
| Cu 324.754 | -376.4               | -0.0015    | 0.00036  | mg/L        |            |          |              | 23.67%  |
| Fe 273.955 | 117.4                | 0.0029     | 0.00292  | mg/L        |            |          |              | 99.65%  |
| K 766.491  | 426.9                | 0.1006     | 0.01678  | mg/L        |            |          |              | 16.68%  |
| Mg 279.079 | -826.6               | -0.0205    | 0.00433  | mg/L        |            |          |              | 21.09%  |
| Mn 257.610 | 864.4                | 0.0007     | 0.00013  | mg/L        |            |          |              | 19.74%  |
| Mo 202.030 | 14.0                 | 0.0009     | 0.00075  | mg/L        |            |          |              | 87.61%  |
| Na 330.237 | 206.3                | 0.1503     | 0.23346  | mg/L        |            |          |              | 155.34% |
| Ni 231.604 | 16.5                 | 0.0004     | 0.00020  | mg/L        |            |          |              | 52.72%  |
| Pb 220.353 | 7.8                  | 0.0005     | 0.00049  | mg/L        |            |          |              | 100.52% |
| Sb 206.833 | 12.2                 | 0.0032     | 0.00045  | mg/L        |            |          |              | 14.25%  |
| Se 196.026 | 2.8                  | 0.0011     | 0.00194  | mg/L        |            |          |              | 176.53% |
| Tl 190.800 | 7.9                  | 0.0022     | 0.00157  | mg/L        |            |          |              | 72.59%  |
| V 292.402  | -22.0                | -0.0002    | 0.00087  | mg/L        |            |          |              | 441.59% |
| Zn 213.856 | -17.2                | -0.0002    | 0.00022  | mg/L        |            |          |              | 127.18% |

Replicate Data

D: 3261-2 F=1  
 Date: 5/19/03 12:08:56 PM

| Sample# | Element    | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|---------|------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1       | Ag 328.068 | 1168.3        | -607.5              | -0.0035     | mg/L  | -0.0035      | ppm   |
| 1       | Al 308.215 | 1735365.5     | 1731780.8           | 58.42       | mg/L  | 58.42        | ppm   |
| 1       | As 188.979 | 183.9         | 53.9                | 0.0253      | mg/L  | 0.0253       | ppm   |
| 1       | Ba 233.527 | 316390.9      | 317413.8            | 0.8342      | mg/L  | 0.8342       | ppm   |
| 1       | Be 313.107 | -6440.1       | -6696.9             | -0.0029     | mg/L  | -0.0029      | ppm   |
| 1       | Ca 227.547 | 23311.1       | 22654.2             | 116.5       | mg/L  | 116.5        | ppm   |
| 1       | Cd 228.802 | -21.1         | -54.6               | -0.0005     | mg/L  | -0.0005      | ppm   |
| 1       | Co 228.616 | 8038.3        | 8592.5              | 0.0943      | mg/L  | 0.0943       | ppm   |
| 1       | Cr 267.716 | 12675.0       | 12599.7             | 0.1397      | mg/L  | 0.1397       | ppm   |
| 1       | Cu 324.754 | 22468.8       | 19136.6             | 0.0811      | mg/L  | 0.0811       | ppm   |
| 1       | Fe 273.955 | 4226933.3     | 4226574.3           | 105.3       | mg/L  | 105.3        | ppm   |
| 1       | K 766.491  | Saturated     |                     |             |       |              |       |
| 1       | Mg 279.079 | 6239786.5     | 6236415.2           | 154.8       | mg/L  | 154.8        | ppm   |
| 1       | Mn 257.610 | 2949361.8     | 2948028.6           | 2.301       | mg/L  | 2.301        | ppm   |
| 1       | Mo 202.030 | -135.5        | 17.2                | 0.0010      | mg/L  | 0.0010       | ppm   |
| 1       | Na 330.237 | 1086831.3     | 1082182.4           | 1836        | mg/L  | 1836         | ppm   |
| 1       | Ni 231.604 | 1967.6        | 2377.9              | 0.0542      | mg/L  | 0.0542       | ppm   |
| 1       | Pb 220.353 | 699.4         | 293.9               | 0.0207      | mg/L  | 0.0207       | ppm   |
| 1       | Sb 206.833 | 167.2         | 87.0                | 0.0137      | mg/L  | 0.0137       | ppm   |
| 1       | Se 196.026 | 67.3          | -47.5               | -0.0073     | mg/L  | -0.0073      | ppm   |
| 1       | Tl 190.800 | 361.6         | -6.6                | -0.0272     | mg/L  | -0.0272      | ppm   |
| 1       | V 292.402  | 43278.5       | 43660.2             | 0.3893      | mg/L  | 0.3893       | ppm   |
| 1       | Zn 213.856 | 23556.9       | 23994.1             | 0.2313      | mg/L  | 0.2313       | ppm   |
| 2       | Ag 328.068 | 1342.2        | -433.6              | -0.0025     | mg/L  | -0.0025      | ppm   |
| 2       | Al 308.215 | 1712569.1     | 1708984.4           | 57.65       | mg/L  | 57.65        | ppm   |
| 2       | As 188.979 | 189.2         | 59.2                | 0.0273      | mg/L  | 0.0273       | ppm   |
| 2       | Ba 233.527 | 312903.0      | 313925.9            | 0.8250      | mg/L  | 0.8250       | ppm   |
| 2       | Be 313.107 | -6340.9       | -6597.7             | -0.0028     | mg/L  | -0.0028      | ppm   |
| 2       | Ca 227.547 | 24220.6       | 23563.7             | 121.1       | mg/L  | 121.1        | ppm   |

|   |    |         |           |           |         |      |         |     |
|---|----|---------|-----------|-----------|---------|------|---------|-----|
| 2 | Cd | 228.802 | -36.0     | -69.4     | -0.0006 | mg/L | -0.0006 | ppm |
| 2 | Co | 228.616 | 8501.4    | 9055.7    | 0.0994  | mg/L | 0.0994  | ppm |
| 2 | Cr | 267.716 | 13239.6   | 13164.4   | 0.1459  | mg/L | 0.1459  | ppm |
| 2 | Cu | 324.754 | 22157.9   | 18825.6   | 0.0798  | mg/L | 0.0798  | ppm |
| 2 | Fe | 273.955 | 4218572.3 | 4218213.4 | 105.1   | mg/L | 105.1   | ppm |
| 2 | K  | 766.491 | Saturated |           |         |      |         |     |
| 2 | Mg | 279.079 | 6219879.1 | 6216507.8 | 154.3   | mg/L | 154.3   | ppm |
| 2 | Mn | 257.610 | 2939909.7 | 2938576.5 | 2.294   | mg/L | 2.294   | ppm |
| 2 | Mo | 202.030 | -51.9     | 100.8     | 0.0062  | mg/L | 0.0062  | ppm |
| 2 | Na | 330.237 | 1069329.3 | 1064680.5 | 1802    | mg/L | 1802    | ppm |
| 2 | Ni | 231.604 | 1967.8    | 2378.1    | 0.0542  | mg/L | 0.0542  | ppm |
| 2 | Pb | 220.353 | 712.0     | 306.4     | 0.0214  | mg/L | 0.0214  | ppm |
| 2 | Sb | 206.833 | 93.0      | 12.8      | -0.0057 | mg/L | -0.0057 | ppm |
| 2 | Se | 196.026 | 64.5      | -50.3     | -0.0084 | mg/L | -0.0084 | ppm |
| 2 | Tl | 190.800 | 375.3     | 7.1       | -0.0232 | mg/L | -0.0232 | ppm |
| 2 | V  | 292.402 | 42710.5   | 43092.2   | 0.3842  | mg/L | 0.3842  | ppm |
| 2 | Zn | 213.856 | 24379.3   | 24816.6   | 0.2396  | mg/L | 0.2396  | ppm |
|   |    |         |           |           |         |      |         |     |
| 3 | Ag | 328.068 | 1289.2    | -486.6    | -0.0028 | mg/L | -0.0028 | ppm |
| 3 | Al | 308.215 | 1618116.3 | 1614531.6 | 54.46   | mg/L | 54.46   | ppm |
| 3 | As | 188.979 | 182.8     | 52.8      | 0.0253  | mg/L | 0.0253  | ppm |
| 3 | Ba | 233.527 | 296589.0  | 297611.9  | 0.7822  | mg/L | 0.7822  | ppm |
| 3 | Be | 313.107 | -6050.3   | -6307.1   | -0.0027 | mg/L | -0.0027 | ppm |
| 3 | Ca | 227.547 | 23838.8   | 23181.9   | 119.2   | mg/L | 119.2   | ppm |
| 3 | Cd | 228.802 | -92.6     | -126.1    | -0.0011 | mg/L | -0.0011 | ppm |
| 3 | Co | 228.616 | 8341.1    | 8895.4    | 0.0977  | mg/L | 0.0977  | ppm |
| 3 | Cr | 267.716 | 13016.9   | 12941.6   | 0.1435  | mg/L | 0.1435  | ppm |
| 3 | Cu | 324.754 | 20993.0   | 17660.8   | 0.0752  | mg/L | 0.0752  | ppm |
| 3 | Fe | 273.955 | 4248554.5 | 4248195.6 | 105.8   | mg/L | 105.8   | ppm |
| 3 | K  | 766.491 | Saturated |           |         |      |         |     |
| 3 | Mg | 279.079 | 6272910.9 | 6269539.6 | 155.6   | mg/L | 155.6   | ppm |
| 3 | Mn | 257.610 | 2963924.2 | 2962591.0 | 2.312   | mg/L | 2.312   | ppm |
| 3 | Mo | 202.030 | 1.1       | 153.8     | 0.0094  | mg/L | 0.0094  | ppm |
| 3 | Na | 330.237 | 1009737.1 | 1005088.3 | 1688    | mg/L | 1688    | ppm |
| 3 | Ni | 231.604 | 1993.6    | 2403.9    | 0.0548  | mg/L | 0.0548  | ppm |
| 3 | Pb | 220.353 | 690.6     | 285.0     | 0.0198  | mg/L | 0.0198  | ppm |
| 3 | Sb | 206.833 | 128.9     | 48.7      | 0.0037  | mg/L | 0.0037  | ppm |
| 3 | Se | 196.026 | 140.5     | 25.7      | 0.0219  | mg/L | 0.0219  | ppm |
| 3 | Tl | 190.800 | 427.7     | 59.6      | -0.0085 | mg/L | -0.0085 | ppm |
| 3 | V  | 292.402 | 40470.1   | 40851.8   | 0.3642  | mg/L | 0.3642  | ppm |
| 3 | Zn | 213.856 | 24142.0   | 24579.3   | 0.2371  | mg/L | 0.2371  | ppm |

ean Data

Sample No.: 24      Sample No.: 11      A/S Pos: 20  
 Sample Qty: 1.0000 mL      Prep. Vol.: 1.0 mL      Dilution: 1.0: 1.0  
 Date: Original      Date: 5/19/03 12:08:56 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | -509.2               | -0.0029    | 0.00051  | mg/L        | -0.0029    | 0.00051  | ppm          | 17.51%  |
| Al 308.215 | 1685098.9            | 56.84      | 2.097    | mg/L        | 56.84      | 2.097    | ppm          | 3.69%   |
| As 188.979 | 55.3                 | 0.0260     | 0.00115  | mg/L        | 0.0260     | 0.00115  | ppm          | 4.45%   |
| Ba 233.527 | 309650.5             | 0.8138     | 0.02778  | mg/L        | 0.8138     | 0.02778  | ppm          | 3.41%   |
| Be 313.107 | -6533.9              | -0.0028    | 0.00009  | mg/L        | -0.0028    | 0.00009  | ppm          | 3.10%   |
| Ca 227.547 | 23133.3              | 118.9      | 2.30     | mg/L        | 118.9      | 2.30     | ppm          | 1.93%   |
| Cd 228.802 | -83.4                | -0.0007    | 0.00034  | mg/L        | -0.0007    | 0.00034  | ppm          | 45.25%  |
| Co 228.616 | 8847.8               | 0.0971     | 0.00258  | mg/L        | 0.0971     | 0.00258  | ppm          | 2.66%   |
| Cr 267.716 | 12901.9              | 0.1430     | 0.00315  | mg/L        | 0.1430     | 0.00315  | ppm          | 2.20%   |
| Cu 324.754 | 18541.0              | 0.0787     | 0.00310  | mg/L        | 0.0787     | 0.00310  | ppm          | 3.94%   |
| Fe 273.955 | 4230994.4            | 105.4      | 0.39     | mg/L        | 105.4      | 0.39     | ppm          | 0.37%   |
| K 766.491  | Saturated            |            |          |             |            |          |              |         |
| Mg 279.079 | 6240820.9            | 154.9      | 0.66     | mg/L        | 154.9      | 0.66     | ppm          | 0.43%   |
| Mn 257.610 | 2949732.0            | 2.302      | 0.0094   | mg/L        | 2.302      | 0.0094   | ppm          | 0.41%   |
| Mo 202.030 | 90.6                 | 0.0055     | 0.00421  | mg/L        | 0.0055     | 0.00421  | ppm          | 76.03%  |
| Na 330.237 | 1050650.4            | 1775       | 77.8     | mg/L        | 1775       | 77.8     | ppm          | 4.38%   |
| Ni 231.604 | 2386.6               | 0.0544     | 0.00034  | mg/L        | 0.0544     | 0.00034  | ppm          | 0.63%   |
| Pb 220.353 | 295.1                | 0.0206     | 0.00079  | mg/L        | 0.0206     | 0.00079  | ppm          | 3.84%   |
| Sb 206.833 | 49.5                 | 0.0039     | 0.00969  | mg/L        | 0.0039     | 0.00969  | ppm          | 247.24% |
| Se 196.026 | -24.0                | 0.0021     | 0.01716  | mg/L        | 0.0021     | 0.01716  | ppm          | 826.45% |
| Tl 190.800 | 20.0                 | -0.0196    | 0.00986  | mg/L        | -0.0196    | 0.00986  | ppm          | 50.26%  |
| V 292.402  | 42534.7              | 0.3792     | 0.01324  | mg/L        | 0.3792     | 0.01324  | ppm          | 3.49%   |
| Zn 213.856 | 24463.3              | 0.2360     | 0.00424  | mg/L        | 0.2360     | 0.00424  | ppm          | 1.80%   |

uplicate Data  
D: 3261-2 F=10

Date: 5/19/03 12:11:52 PM

| epl# | Element    | Net Intensity | Corrected Intensity | Calib Conc. Units | Sample Conc. Units |
|------|------------|---------------|---------------------|-------------------|--------------------|
| 1    | Ag 328.068 | 1679.9        | -95.9               | -0.0006 mg/L      | -0.0055 ppm        |
| 1    | Al 308.215 | 212156.7      | 208572.0            | 7.036 mg/L        | 70.36 ppm          |
| 1    | As 188.979 | 137.5         | 7.6                 | 0.0025 mg/L       | 0.0253 ppm         |
| 1    | Ba 233.527 | 35737.6       | 36760.5             | 0.0966 mg/L       | 0.9661 ppm         |
| 1    | Be 313.107 | -574.3        | -831.0              | -0.0004 mg/L      | -0.0036 ppm        |
| 1    | Ca 227.547 | 3321.2        | 2664.3              | 13.41 mg/L        | 134.1 ppm          |
| 1    | Cd 228.802 | -41.1         | -74.5               | -0.0007 mg/L      | -0.0066 ppm        |
| 1    | Co 228.616 | 467.4         | 1021.6              | 0.0112 mg/L       | 0.1122 ppm         |
| 1    | Cr 267.716 | 1557.9        | 1482.6              | 0.0164 mg/L       | 0.1644 ppm         |
| 1    | Cu 324.754 | 4670.3        | 1338.1              | 0.0054 mg/L       | 0.0536 ppm         |
| 1    | Fe 273.955 | 512683.0      | 512324.0            | 12.76 mg/L        | 127.6 ppm          |
| 1    | K 766.491  | 118383.8      | 116838.4            | 6.951 mg/L        | 69.51 ppm          |
| 1    | Mg 279.079 | 743804.0      | 740432.7            | 18.38 mg/L        | 183.8 ppm          |
| 1    | Mn 257.610 | 352120.9      | 350787.7            | 0.2738 mg/L       | 2.738 ppm          |
| 1    | Mo 202.030 | -149.8        | 2.9                 | 0.0002 mg/L       | 0.0017 ppm         |
| 1    | Na 330.237 | 113129.2      | 108480.3            | 164.5 mg/L        | 1645 ppm           |
| 1    | Ni 231.604 | -43.1         | 367.2               | 0.0084 mg/L       | 0.0837 ppm         |
| 1    | Pb 220.353 | 454.8         | 49.2                | 0.0030 mg/L       | 0.0303 ppm         |
| 1    | Sb 206.833 | 84.5          | 4.3                 | 0.0011 mg/L       | 0.0112 ppm         |
| 1    | Se 196.026 | 107.6         | -7.2                | -0.0009 mg/L      | -0.0088 ppm        |
| 1    | Tl 190.800 | 382.9         | 14.7                | 0.0014 mg/L       | 0.0141 ppm         |
| 1    | V 292.402  | 4567.5        | 4949.2              | 0.0441 mg/L       | 0.4413 ppm         |
| 1    | Zn 213.856 | 2169.6        | 2606.8              | 0.0261 mg/L       | 0.2613 ppm         |
| 2    | Ag 328.068 | 1745.8        | -30.0               | -0.0002 mg/L      | -0.0017 ppm        |
| 2    | Al 308.215 | 208052.0      | 204467.3            | 6.897 mg/L        | 68.97 ppm          |
| 2    | As 188.979 | 142.7         | 12.7                | 0.0043 mg/L       | 0.0425 ppm         |
| 2    | Ba 233.527 | 34943.0       | 35965.9             | 0.0945 mg/L       | 0.9452 ppm         |
| 2    | Be 313.107 | -463.4        | -720.2              | -0.0003 mg/L      | -0.0031 ppm        |
| 2    | Ca 227.547 | 3260.7        | 2603.9              | 13.10 mg/L        | 131.0 ppm          |
| 2    | Cd 228.802 | -32.5         | -65.9               | -0.0006 mg/L      | -0.0059 ppm        |
| 2    | Co 228.616 | 455.4         | 1009.6              | 0.0111 mg/L       | 0.1108 ppm         |
| 2    | Cr 267.716 | 1545.5        | 1470.3              | 0.0163 mg/L       | 0.1630 ppm         |
| 2    | Cu 324.754 | 4696.8        | 1364.6              | 0.0055 mg/L       | 0.0547 ppm         |
| 2    | Fe 273.955 | 487225.2      | 486866.3            | 12.13 mg/L        | 121.3 ppm          |
| 2    | K 766.491  | 112396.9      | 110851.4            | 6.615 mg/L        | 66.15 ppm          |
| 2    | Mg 279.079 | 707510.4      | 704139.0            | 17.47 mg/L        | 174.7 ppm          |
| 2    | Mn 257.610 | 343813.0      | 342479.8            | 0.2673 mg/L       | 2.673 ppm          |
| 2    | Mo 202.030 | -148.1        | 4.6                 | 0.0003 mg/L       | 0.0028 ppm         |
| 2    | Na 330.237 | 110798.4      | 106149.6            | 160.9 mg/L        | 1609 ppm           |
| 2    | Ni 231.604 | -54.6         | 355.7               | 0.0081 mg/L       | 0.0811 ppm         |
| 2    | Pb 220.353 | 443.9         | 38.4                | 0.0024 mg/L       | 0.0237 ppm         |
| 2    | Sb 206.833 | 88.6          | 8.4                 | 0.0022 mg/L       | 0.0219 ppm         |
| 2    | Se 196.026 | 122.0         | 7.2                 | 0.0047 mg/L       | 0.0467 ppm         |
| 2    | Tl 190.800 | 383.9         | 15.8                | 0.0018 mg/L       | 0.0179 ppm         |
| 2    | V 292.402  | 4427.3        | 4809.0              | 0.0429 mg/L       | 0.4288 ppm         |
| 2    | Zn 213.856 | 2169.2        | 2606.4              | 0.0261 mg/L       | 0.2613 ppm         |
| 3    | Ag 328.068 | 1823.0        | 47.2                | 0.0003 mg/L       | 0.0027 ppm         |
| 3    | Al 308.215 | 198409.0      | 194824.3            | 6.572 mg/L        | 65.72 ppm          |
| 3    | As 188.979 | 133.1         | 3.2                 | 0.0011 mg/L       | 0.0107 ppm         |
| 3    | Ba 233.527 | 33402.8       | 34425.7             | 0.0905 mg/L       | 0.9047 ppm         |
| 3    | Be 313.107 | -276.2        | -533.0              | -0.0002 mg/L      | -0.0023 ppm        |
| 3    | Ca 227.547 | 3310.8        | 2653.9              | 13.36 mg/L        | 133.6 ppm          |
| 3    | Cd 228.802 | -38.4         | -71.9               | -0.0006 mg/L      | -0.0064 ppm        |
| 3    | Co 228.616 | 464.7         | 1018.9              | 0.0112 mg/L       | 0.1119 ppm         |
| 3    | Cr 267.716 | 1543.9        | 1468.7              | 0.0163 mg/L       | 0.1628 ppm         |
| 3    | Cu 324.754 | 4667.7        | 1335.4              | 0.0054 mg/L       | 0.0535 ppm         |
| 3    | Fe 273.955 | 496285.8      | 495926.9            | 12.35 mg/L        | 123.5 ppm          |
| 3    | K 766.491  | 116288.9      | 114743.4            | 6.834 mg/L        | 68.34 ppm          |
| 3    | Mg 279.079 | 721054.9      | 717683.6            | 17.81 mg/L        | 178.1 ppm          |
| 3    | Mn 257.610 | 328666.9      | 327333.7            | 0.2555 mg/L       | 2.555 ppm          |
| 3    | Mo 202.030 | -146.3        | 6.3                 | 0.0004 mg/L       | 0.0039 ppm         |
| 3    | Na 330.237 | 105108.2      | 100459.3            | 152.2 mg/L        | 1522 ppm           |
| 3    | Ni 231.604 | -71.4         | 338.9               | 0.0077 mg/L       | 0.0773 ppm         |



|              |        |        |             |            |
|--------------|--------|--------|-------------|------------|
| 3 Pb 220.353 | 454.2  | 48.7   | 0.0030 mg/L | 0.0300 ppm |
| 3 Sb 206.833 | 103.1  | 23.0   | 0.0059 mg/L | 0.0595 ppm |
| 3 Se 196.026 | 116.3  | 1.5    | 0.0025 mg/L | 0.0248 ppm |
| 3 Tl 190.800 | 386.3  | 18.1   | 0.0025 mg/L | 0.0246 ppm |
| 3 V 292.402  | 4213.0 | 4594.7 | 0.0410 mg/L | 0.4097 ppm |
| 3 Zn 213.856 | 2170.6 | 2607.8 | 0.0261 mg/L | 0.2614 ppm |

ean Data

D: 3261-2 F=10  
 Sample Qty: 1.0000 mL  
 Seq. No.: 25  
 Prep. Vol.:  
 Data: Original  
 Sample No.: 12  
 1.0 mL  
 A/S Pos: 21  
 Dilution: 1.0: 10.0  
 Date: 5/19/03 12:11:52 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Ag 328.068 | -26.3                | -0.0002    | 0.00041  | mg/L        | -0.0015    | 0.00413  | ppm          | 272.80% |
| Al 308.215 | 202621.2             | 6.835      | 0.2381   | mg/L        | 68.35      | 2.381    | ppm          | 3.48%   |
| As 188.979 | 7.8                  | 0.0026     | 0.00159  | mg/L        | 0.0262     | 0.01594  | ppm          | 60.86%  |
| Ba 233.527 | 35717.4              | 0.0939     | 0.00312  | mg/L        | 0.9387     | 0.03120  | ppm          | 3.32%   |
| Be 313.107 | -694.8               | -0.0003    | 0.00006  | mg/L        | -0.0030    | 0.00065  | ppm          | 21.68%  |
| Ca 227.547 | 2640.7               | 13.29      | 0.163    | mg/L        | 132.9      | 1.63     | ppm          | 1.22%   |
| Cd 228.802 | -70.8                | -0.0006    | 0.00004  | mg/L        | -0.0063    | 0.00039  | ppm          | 6.21%   |
| Co 228.616 | 1016.7               | 0.0112     | 0.00007  | mg/L        | 0.1116     | 0.00069  | ppm          | 0.62%   |
| Cr 267.716 | 1473.8               | 0.0163     | 0.00008  | mg/L        | 0.1634     | 0.00084  | ppm          | 0.52%   |
| Cu 324.754 | 1346.0               | 0.0054     | 0.00006  | mg/L        | 0.0540     | 0.00065  | ppm          | 1.20%   |
| Fe 273.955 | 498372.4             | 12.42      | 0.321    | mg/L        | 124.2      | 3.21     | ppm          | 2.59%   |
| K 766.491  | 114144.4             | 6.800      | 0.1710   | mg/L        | 68.00      | 1.710    | ppm          | 2.51%   |
| Mg 279.079 | 720751.8             | 17.89      | 0.455    | mg/L        | 178.9      | 4.55     | ppm          | 2.54%   |
| Mn 257.610 | 340200.4             | 0.2655     | 0.00928  | mg/L        | 2.655      | 0.0928   | ppm          | 3.50%   |
| Mo 202.030 | 4.6                  | 0.0003     | 0.00011  | mg/L        | 0.0028     | 0.00106  | ppm          | 37.93%  |
| Na 330.237 | 105029.7             | 159.2      | 6.32     | mg/L        | 1592       | 63.2     | ppm          | 3.97%   |
| Ni 231.604 | 354.0                | 0.0081     | 0.00032  | mg/L        | 0.0807     | 0.00325  | ppm          | 4.02%   |
| Pb 220.353 | 45.4                 | 0.0028     | 0.00038  | mg/L        | 0.0280     | 0.00376  | ppm          | 13.42%  |
| Sb 206.833 | 11.9                 | 0.0031     | 0.00254  | mg/L        | 0.0308     | 0.02538  | ppm          | 82.28%  |
| Se 196.026 | 0.5                  | 0.0021     | 0.00279  | mg/L        | 0.0209     | 0.02795  | ppm          | 133.84% |
| Tl 190.800 | 16.2                 | 0.0019     | 0.00053  | mg/L        | 0.0189     | 0.00531  | ppm          | 28.12%  |
| V 292.402  | 4784.3               | 0.0427     | 0.00159  | mg/L        | 0.4266     | 0.01592  | ppm          | 3.73%   |
| Zn 213.856 | 2607.0               | 0.0261     | 0.00001  | mg/L        | 0.2613     | 0.00007  | ppm          | 0.03%   |

uplicate Data

D: 3261-3 F=1  
 Date: 5/19/03 12:15:28 PM

| Element      | Net Intensity | Corrected Intensity | Calib Conc. | Units | Sample Conc. | Units |
|--------------|---------------|---------------------|-------------|-------|--------------|-------|
| 1 Ag 328.068 | 1505.0        | -270.8              | -0.0016     | mg/L  | -0.0016      | ppm   |
| 1 Al 308.215 | 3896.2        | 311.5               | 0.0105      | mg/L  | 0.0105       | ppm   |
| 1 As 188.979 | 121.4         | -8.5                | -0.0005     | mg/L  | -0.0005      | ppm   |
| 1 Ba 233.527 | 33104.3       | 34127.2             | 0.0897      | mg/L  | 0.0897       | ppm   |
| 1 Be 313.107 | 68.9          | -187.8              | -0.0001     | mg/L  | -0.0001      | ppm   |
| 1 Ca 227.547 | 15697.1       | 15040.2             | 75.69       | mg/L  | 75.69        | ppm   |
| 1 Cd 228.802 | 11.5          | -21.9               | -0.0002     | mg/L  | -0.0002      | ppm   |
| 1 Co 228.616 | -460.6        | 93.6                | 0.0010      | mg/L  | 0.0010       | ppm   |
| 1 Cr 267.716 | 593.2         | 517.9               | 0.0057      | mg/L  | 0.0057       | ppm   |
| 1 Cu 324.754 | 5426.7        | 2094.5              | 0.0084      | mg/L  | 0.0084       | ppm   |
| 1 Fe 273.955 | 22876.2       | 22517.2             | 0.5610      | mg/L  | 0.5610       | ppm   |
| 1 K 766.491  | Saturated     |                     |             |       |              |       |
| 1 Mg 279.079 | 14875952.7    | 14872581.4          | 369.1       | mg/L  | 369.1        | ppm   |
| 1 Mn 257.610 | 1185291.7     | 1183958.5           | 0.9184      | mg/L  | 0.9184       | ppm   |
| 1 Mo 202.030 | 432.4         | 585.0               | 0.0357      | mg/L  | 0.0357       | ppm   |
| 1 Na 330.237 | 3260185.7     | 3255536.9           | 8011        | mg/L  | 8011         | ppm   |
| 1 Ni 231.604 | -198.4        | 211.9               | 0.0048      | mg/L  | 0.0048       | ppm   |
| 1 Pb 220.353 | 407.7         | 2.2                 | -0.0013     | mg/L  | -0.0013      | ppm   |
| 1 Sb 206.833 | 93.4          | 13.3                | 0.0034      | mg/L  | 0.0034       | ppm   |
| 1 Se 196.026 | 124.2         | 9.4                 | 0.0037      | mg/L  | 0.0037       | ppm   |
| 1 Tl 190.800 | 394.4         | 26.2                | -0.0012     | mg/L  | -0.0012      | ppm   |
| 1 V 292.402  | 1316.9        | 1698.6              | 0.0151      | mg/L  | 0.0151       | ppm   |
| 1 Zn 213.856 | 883.1         | 1320.3              | 0.0078      | mg/L  | 0.0078       | ppm   |
| 2 Ag 328.068 | 1506.2        | -269.6              | -0.0016     | mg/L  | -0.0016      | ppm   |
| 2 Al 308.215 | 4245.0        | 660.4               | 0.0223      | mg/L  | 0.0223       | ppm   |
| 2 As 188.979 | 124.8         | -5.1                | 0.0006      | mg/L  | 0.0006       | ppm   |
| 2 Ba 233.527 | 33380.0       | 34402.8             | 0.0904      | mg/L  | 0.0904       | ppm   |