Analytical Data Package For

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**REGION 1**
**CONTRACT #: C003180**
**CASE #: SH195 SDG#: 0912**

Water Samples
RECEIVED: September 13, 1995

**METALS DATA**

**SEPTEMBER 1995**


H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

Case: 5H195

# H2M LABS, INC.

## METALS

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Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

SOW No.: ILM02.0

| Sample No. | Lab Sample ID. |
|---|---|
| A84201 | 9525471 |
| A84202 | 9525472 |
| A84203 | 9525473 |
| A84204 | 9525474 |
| A84205 | 9525475 |
| A84206 | 9525476 |
| A84207 | 9525477 |
| A84207D | 9525477D |
| A84207S | 9525477S |

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stanley Isaacson Name: STANLEY ISAACSON

Date: 10/11/95 Title: LAB Manager

H2M LABS, INC.

# I. REPORTS FOR METALS

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84201

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525471

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3160 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 4.4 | B | | P |
| 7440-39-3 | Barium | 53.2 | B | E | P |
| 7440-41-7 | Beryllium | 0.93 | B | | P |
| 7440-43-9 | Cadmium | 0.43 | B | N | P |
| 7440-70-2 | Calcium | 21900 | | E | P |
| 7440-47-3 | Chromium | 4.7 | B | EN | P |
| 7440-48-4 | Cobalt | 10.5 | B | EN | P |
| 7440-50-8 | Copper | 11.0 | B | EN | P |
| 7439-89-6 | Iron | 18900 | | | P |
| 7439-92-1 | Lead | 22.6 | | EN | P |
| 7439-95-4 | Magnesium | 4030 | B | E | P |
| 7439-96-5 | Manganese | 342 | | E | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 13.9 | B | EN | P |
| 7440-09-7 | Potassium | 2080 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | B | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 16000 | | E | P |
| 7440-28-0 | Thallium | 2.5 | B | | P |
| 7440-62-2 | Vanadium | 10.6 | B | EN | P |
| 7440-66-6 | Zinc | 50.8 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

FORM I - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84202

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525472

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 8150 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 9.1 | B | | P |
| 7440-39-3 | Barium | 92.7 | B | E | P |
| 7440-41-7 | Beryllium | 0.87 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | N | P |
| 7440-70-2 | Calcium | 25600 | | E | P |
| 7440-47-3 | Chromium | 14.9 | | EN | P |
| 7440-48-4 | Cobalt | 40.1 | B | EN | P |
| 7440-50-8 | Copper | 18.2 | B | EN | P |
| 7439-89-6 | Iron | 44800 | | | P |
| 7439-92-1 | Lead | 18.3 | | EN | P |
| 7439-95-4 | Magnesium | 5040 | | E | P |
| 7439-96-5 | Manganese | 1390 | | E | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 32.4 | B | EN | P |
| 7440-09-7 | Potassium | 3430 | B | E | P |
| 7782-49-2 | Selenium | 1.4 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 15700 | | E | P |
| 7440-28-0 | Thallium | 2.5 | B | | P |
| 7440-62-2 | Vanadium | 32.4 | B | EN | P |
| 7440-66-6 | Zinc | 70.1 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84203

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525473

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4070 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 3.6 | B | | P |
| 7440-39-3 | Barium | 61.8 | B | E | P |
| 7440-41-7 | Beryllium | 0.33 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | N | P |
| 7440-70-2 | Calcium | 24800 | | E | P |
| 7440-47-3 | Chromium | 3.6 | B | EN | P |
| 7440-48-4 | Cobalt | 13.3 | B | EN | P |
| 7440-50-8 | Copper | 6.4 | B | EN | P |
| 7439-89-6 | Iron | 20500 | | | P |
| 7439-92-1 | Lead | 6.1 | | EN | P |
| 7439-95-4 | Magnesium | 4040 | B | E | P |
| 7439-96-5 | Manganese | 456 | | E | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 13.4 | B | EN | P |
| 7440-09-7 | Potassium | 3500 | B | E | P |
| 7782-49-2 | Selenium | 1.4 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 15100 | | E | P |
| 7440-28-0 | Thallium | 1.9 | U | | P |
| 7440-62-2 | Vanadium | 10.2 | B | EN | P |
| 7440-66-6 | Zinc | 31.8 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

FORM I - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84204

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525474

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 73700 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 48.1 | | | P |
| 7440-39-3 | Barium | 353 | | E | P |
| 7440-41-7 | Beryllium | 5.0 | | | P |
| 7440-43-9 | Cadmium | 0.60 | U | N | P |
| 7440-70-2 | Calcium | 26300 | | E | P |
| 7440-47-3 | Chromium | 109 | | EN | P |
| 7440-48-4 | Cobalt | 264 | | EN | P |
| 7440-50-8 | Copper | 142 | | EN | P |
| 7439-89-6 | Iron | 319000 | | | P |
| 7439-92-1 | Lead | 93.7 | | EN | P |
| 7439-95-4 | Magnesium | 12800 | | E | P |
| 7439-96-5 | Manganese | 8620 | | E | P |
| 7439-97-6 | Mercury | 0.25 | | | CV |
| 7440-02-0 | Nickel | 207 | | EN | P |
| 7440-09-7 | Potassium | 7380 | | E | P |
| 7782-49-2 | Selenium | 4.3 | B | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 14200 | | E | P |
| 7440-28-0 | Thallium | 5.6 | B | | P |
| 7440-62-2 | Vanadium | 179 | | EN | P |
| 7440-66-6 | Zinc | 400 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84205

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525475

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4460 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 4.8 | B | | P |
| 7440-39-3 | Barium | 65.7 | B | E | P |
| 7440-41-7 | Beryllium | 0.30 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | N | P |
| 7440-70-2 | Calcium | 23600 | | E | P |
| 7440-47-3 | Chromium | 7.0 | B | EN | P |
| 7440-48-4 | Cobalt | 19.6 | B | EN | P |
| 7440-50-8 | Copper | 13.7 | B | EN | P |
| 7439-89-6 | Iron | 24000 | | | P |
| 7439-92-1 | Lead | 8.8 | | EN | P |
| 7439-95-4 | Magnesium | 4340 | B | E | P |
| 7439-96-5 | Manganese | 518 | | E | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 15.1 | B | EN | P |
| 7440-09-7 | Potassium | 2320 | B | E | P |
| 7782-49-2 | Selenium | 1.4 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 20000 | | E | P |
| 7440-28-0 | Thallium | 2.0 | B | | P |
| 7440-62-2 | Vanadium | 12.5 | B | EN | P |
| 7440-66-6 | Zinc | 57.0 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

FORM I - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84206

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525476

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4410 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 4.5 | B | | P |
| 7440-39-3 | Barium | 77.5 | B | E | P |
| 7440-41-7 | Beryllium | 0.37 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | N | P |
| 7440-70-2 | Calcium | 31700 | | E | P |
| 7440-47-3 | Chromium | 7.3 | B | EN | P |
| 7440-48-4 | Cobalt | 14.0 | B | EN | P |
| 7440-50-8 | Copper | 12.0 | B | EN | P |
| 7439-89-6 | Iron | 23300 | | | P |
| 7439-92-1 | Lead | 6.7 | | EN | P |
| 7439-95-4 | Magnesium | 6100 | | E | P |
| 7439-96-5 | Manganese | 439 | | E | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 13.6 | B | EN | P |
| 7440-09-7 | Potassium | 3270 | B | E | P |
| 7782-49-2 | Selenium | 1.4 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 24900 | | E | P |
| 7440-28-0 | Thallium | 1.9 | B | | P |
| 7440-62-2 | Vanadium | 12.4 | B | EN | P |
| 7440-66-6 | Zinc | 50.8 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

FORM I - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

A84207

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525477

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 95200 | | E | P |
| 7440-36-0 | Antimony | 4.4 | U | N | P |
| 7440-38-2 | Arsenic | 63.7 | | | P |
| 7440-39-3 | Barium | 582 | | E | P |
| 7440-41-7 | Beryllium | 7.4 | | | P |
| 7440-43-9 | Cadmium | 1.5 | U | N | P |
| 7440-70-2 | Calcium | 31700 | | E | P |
| 7440-47-3 | Chromium | 154 | | EN | P |
| 7440-48-4 | Cobalt | 462 | | EN | P |
| 7440-50-8 | Copper | 190 | | EN | P |
| 7439-89-6 | Iron | 637000 | | | P |
| 7439-92-1 | Lead | 157 | | EN | P |
| 7439-95-4 | Magnesium | 17300 | | E | P |
| 7439-96-5 | Manganese | 13500 | | E | P |
| 7439-97-6 | Mercury | 0.41 | | | CV |
| 7440-02-0 | Nickel | 351 | | EN | P |
| 7440-09-7 | Potassium | 8990 | | E | P |
| 7782-49-2 | Selenium | 3.1 | B | | P |
| 7440-22-4 | Silver | 0.60 | U | N | P |
| 7440-23-5 | Sodium | 18000 | | E | P |
| 7440-28-0 | Thallium | 10.4 | | | P |
| 7440-62-2 | Vanadium | 252 | | EN | P |
| 7440-66-6 | Zinc | 528 | | EN | P |
| | Cyanide | | | | |

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

## II. QC SUMMARY FOR METALS

A. INITIAL AND CONTINUING CALIBRATION VERIFICATION
B. CRDL STANDARD FOR AA AND ICP
C. METHOD BLANK
D. ICP INTERFERENCE CHECK SAMPLE
E. SPIKE SAMPLE RECOVERY
F. POST DIGEST SPIKE SAMPLE RECOVERY
G. DUPLICATES
H. LABORATORY CONTROL SAMPLE
I. STANDARD ADDITION RESULTS
J. ICP SERIAL DILUTIONS
K. INSTRUMENT DETECTION LIMITS
L. ICP INTERELEMENT CORRECTION FACTORS
M. ICP LINEAR RANGES
N. PREPARATION LOGS
O. ANALYSIS RUN LOGS

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Initial Calibration Source: PLASMA CHEM

Continuing Calibration Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | Initial Calibration True | Initial Calibration Found | Initial Calibration %R(1) | Continuing Calibration True | Continuing Calibration Found | Continuing Calibration %R(1) | Continuing Calibration Found | Continuing Calibration %R(1) | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000.0 | 52171.30 | 104.3 | 50000.0 | 50718.07 | 101.4 | 52545.80 | 105.1 | P |
| Antimony | 1000.0 | 1001.59 | 100.2 | 1000.0 | 974.03 | 97.4 | 1009.63 | 101.0 | P |
| Arsenic | 500.0 | 506.87 | 101.4 | 500.0 | 498.52 | 99.7 | 513.36 | 102.7 | P |
| Barium | 2500.0 | 2547.73 | 101.9 | 2500.0 | 2481.73 | 99.3 | 2579.43 | 103.2 | P |
| Beryllium | 2500.0 | 2562.67 | 102.5 | 2500.0 | 2496.93 | 99.9 | 2596.90 | 103.9 | P |
| Cadmium | 2500.0 | 2464.37 | 98.6 | 2500.0 | 2406.80 | 96.3 | 2494.10 | 99.8 | P |
| Calcium | 50000.0 | 49547.57 | 99.1 | 50000.0 | 48226.73 | 96.5 | 50318.50 | 100.6 | P |
| Chromium | 2500.0 | 2496.50 | 99.9 | 2500.0 | 2435.37 | 97.4 | 2530.10 | 101.2 | P |
| Cobalt | 2500.0 | 2491.87 | 99.7 | 2500.0 | 2430.00 | 97.2 | 2528.00 | 101.1 | P |
| Copper | 2500.0 | 2562.07 | 102.5 | 2500.0 | 2490.67 | 99.6 | 2563.37 | 102.5 | P |
| Iron | 50000.0 | 51696.03 | 103.4 | 50000.0 | 50294.10 | 100.6 | 52322.67 | 104.6 | P |
| Lead | 500.0 | 494.68 | 98.9 | 500.0 | 482.66 | 96.5 | 502.23 | 100.4 | P |
| Magnesium | 50000.0 | 50322.43 | 100.6 | 50000.0 | 49371.77 | 98.7 | 51183.13 | 102.4 | P |
| Manganese | 2500.0 | 2517.63 | 100.7 | 2500.0 | 2452.77 | 98.1 | 2545.07 | 101.8 | P |
| Mercury | | | | 5.0 | 5.18 | 103.6 | 5.23 | 104.6 | CV |
| Nickel | 2500.0 | 2476.53 | 99.1 | 2500.0 | 2418.30 | 96.7 | 2505.07 | 100.2 | P |
| Potassium | 80000.0 | 85101.70 | 106.4 | 80000.0 | 82637.60 | 103.3 | 84882.63 | 106.1 | P |
| Selenium | 500.0 | 499.46 | 99.9 | 500.0 | 490.90 | 98.2 | 504.85 | 101.0 | P |
| Silver | 1000.0 | 982.80 | 98.3 | 1000.0 | 955.88 | 95.6 | 990.92 | 99.1 | P |
| Sodium | 80000.0 | 80819.23 | 101.0 | 80000.0 | 79014.47 | 98.8 | 81521.23 | 101.9 | P |
| Thallium | 500.0 | 509.37 | 101.9 | 500.0 | 496.77 | 99.4 | 510.88 | 102.2 | P |
| Vanadium | 2500.0 | 2516.47 | 100.7 | 2500.0 | 2452.13 | 98.1 | 2554.70 | 102.2 | P |
| Zinc | 2500.0 | 2586.20 | 103.4 | 2500.0 | 2513.53 | 100.5 | 2603.60 | 104.1 | P |
| Cyanide | | | | | | | | | |

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Initial Calibration Source: PLASMA CHEM

Continuing Calibration Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | Initial Calibration True | Initial Calibration Found | Initial Calibration %R(1) | Continuing Calibration True | Continuing Calibration Found | Continuing Calibration %R(1) | Continuing Calibration Found | Continuing Calibration %R(1) | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | | 50000.0 | 52828.27 | 105.7 | 51790.60 | 103.6 | P |
| Antimony | | | | 1000.0 | 1018.47 | 101.8 | 1000.40 | 100.0 | P |
| Arsenic | | | | 500.0 | 515.59 | 103.1 | 509.74 | 101.9 | P |
| Barium | | | | 2500.0 | 2586.00 | 103.4 | 2537.60 | 101.5 | P |
| Beryllium | | | | 2500.0 | 2614.00 | 104.6 | 2571.23 | 102.8 | P |
| Cadmium | | | | 2500.0 | 2511.77 | 100.5 | 2474.33 | 99.0 | P |
| Calcium | | | | 50000.0 | 50576.10 | 101.2 | 49708.60 | 99.4 | P |
| Chromium | | | | 2500.0 | 2547.40 | 101.9 | 2507.10 | 100.3 | P |
| Cobalt | | | | 2500.0 | 2537.67 | 101.5 | 2496.33 | 99.9 | P |
| Copper | | | | 2500.0 | 2597.10 | 103.9 | 2548.37 | 101.9 | P |
| Iron | | | | 50000.0 | 52455.40 | 104.9 | 51673.03 | 103.3 | P |
| Lead | | | | 500.0 | 503.91 | 100.8 | 497.26 | 99.5 | P |
| Magnesium | | | | 50000.0 | 51402.87 | 102.8 | 51063.33 | 102.1 | P |
| Manganese | | | | 2500.0 | 2564.90 | 102.6 | 2523.57 | 100.9 | P |
| Mercury | | | | 5.0 | 5.12 | 102.4 | 4.90 | 98.0 | CV |
| Nickel | | | | 2500.0 | 2525.30 | 101.0 | 2486.33 | 99.5 | P |
| Potassium | | | | 80000.0 | 86120.03 | 107.7 | 84232.73 | 105.3 | P |
| Selenium | | | | 500.0 | 508.09 | 101.6 | 500.85 | 100.2 | P |
| Silver | | | | 1000.0 | 1001.19 | 100.1 | 984.84 | 98.5 | P |
| Sodium | | | | 80000.0 | 82481.03 | 103.1 | 81156.20 | 101.4 | P |
| Thallium | | | | 500.0 | 515.66 | 103.1 | 508.63 | 101.7 | P |
| Vanadium | | | | 2500.0 | 2563.07 | 102.5 | 2516.30 | 100.7 | P |
| Zinc | | | | 2500.0 | 2630.17 | 105.2 | 2588.83 | 103.6 | P |
| Cyanide | | | | | | | | | |

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Initial Calibration Source: PLASMA CHEM

Continuing Calibration Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | Initial Calibration True | Initial Calibration Found | Initial Calibration %R(1) | Continuing Calibration True | Continuing Calibration Found | Continuing Calibration %R(1) | Continuing Calibration Found | Continuing Calibration %R(1) | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | | | | | | | |
| Antimony | | | | | | | | | |
| Arsenic | | | | | | | | | |
| Barium | | | | | | | | | |
| Beryllium | | | | | | | | | |
| Cadmium | | | | | | | | | |
| Calcium | | | | | | | | | |
| Chromium | | | | | | | | | |
| Cobalt | | | | | | | | | |
| Copper | | | | | | | | | |
| Iron | | | | | | | | | |
| Lead | 500.0 | 491.23 | 98.2 | 500.0 | 490.08 | 98.0 | 490.19 | 98.0 | P |
| Magnesium | | | | | | | | | |
| Manganese | | | | | | | | | |
| Mercury | | | | | | | | | |
| Nickel | | | | | | | | | |
| Potassium | | | | | | | | | |
| Selenium | | | | | | | | | |
| Silver | | | | | | | | | |
| Sodium | | | | | | | | | |
| Thallium | | | | | | | | | |
| Vanadium | | | | | | | | | |
| Zinc | | | | | | | | | |
| Cyanide | | | | | | | | | |

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

AA CRDL Standard Source: PLASMA CHEM

ICP CRDL Standard Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | CRDL Standard for AA | | | CRDL Standard for ICP | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | %R | True | Initial Found | %R | Final Found | %R |
| Aluminum | | | | | 0.13 | | 12.37 | |
| Antimony | | | | 120.0 | 124.65 | 103.9 | 126.30 | 105.2 |
| Arsenic | | | | 20.0 | 20.54 | 102.7 | 21.16 | 105.8 |
| Barium | | | | | 0.27 | | 0.13 | |
| Beryllium | | | | 10.0 | 10.53 | 105.3 | 10.53 | 105.3 |
| Cadmium | | | | 10.0 | 10.30 | 103.0 | 10.17 | 101.7 |
| Calcium | | | | | 6.63 | | 6.27 | |
| Chromium | | | | 20.0 | 18.90 | 94.5 | 19.17 | 95.8 |
| Cobalt | | | | 100.0 | 100.00 | 100.0 | 101.40 | 101.4 |
| Copper | | | | 50.0 | 50.70 | 101.4 | 50.87 | 101.7 |
| Iron | | | | | 11.73 | | 51.50 | |
| Lead | | | | 6.0 | 6.04 | 100.7 | 6.22 | 103.7 |
| Magnesium | | | | | 7.97 | | 6.37 | |
| Manganese | | | | 30.0 | 30.30 | 101.0 | 31.87 | 106.2 |
| Mercury | | | | | | | | |
| Nickel | | | | 80.0 | 79.27 | 99.1 | 80.43 | 100.5 |
| Potassium | | | | | 1.40 | | 1.13 | |
| Selenium | | | | 10.0 | 9.17 | 91.7 | 9.53 | 95.3 |
| Silver | | | | 20.0 | 18.93 | 94.6 | 19.17 | 95.8 |
| Sodium | | | | | 12.47 | | 11.17 | |
| Thallium | | | | 20.0 | 21.16 | 105.8 | 21.59 | 108.0 |
| Vanadium | | | | 100.0 | 99.90 | 99.9 | 101.43 | 101.4 |
| Zinc | | | | 40.0 | 42.90 | 107.2 | 43.43 | 108.6 |

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

AA CRDL Standard Source: PLASMA CHEM

ICP CRDL Standard Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | CRDL Standard for AA | | | CRDL Standard for ICP | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | Final | |
| | True | Found | %R | True | Found | %R | Found | %R |
| Aluminum | | | | | | | | |
| Antimony | | | | | | | | |
| Arsenic | | | | | | | | |
| Barium | | | | | | | | |
| Beryllium | | | | | | | | |
| Cadmium | | | | | | | | |
| Calcium | | | | | | | | |
| Chromium | | | | | | | | |
| Cobalt | | | | | | | | |
| Copper | | | | | | | | |
| Iron | | | | | | | | |
| Lead | | | | 6.0 | 5.56 | 92.7 | 6.51 | 108.5 |
| Magnesium | | | | | | | | |
| Manganese | | | | | | | | |
| Mercury | | | | | | | | |
| Nickel | | | | | | | | |
| Potassium | | | | | | | | |
| Selenium | | | | | | | | |
| Silver | | | | | | | | |
| Sodium | | | | | | | | |
| Thallium | | | | | | | | |
| Vanadium | | | | | | | | |
| Zinc | | | | | | | | |

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 29.4 | U | 39.0 | B | 29.4 | U | 29.4 | U | 29.400 | U | P |
| Antimony | 4.4 | U | 4.4 | U | 4.4 | U | 4.4 | U | 4.400 | U | P |
| Arsenic | 1.7 | U | 1.7 | B | 1.7 | U | 2.0 | B | 1.700 | U | P |
| Barium | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | 1.200 | U | P |
| Beryllium | 0.8 | B | 0.7 | B | 0.3 | B | 0.8 | B | 0.300 | U | P |
| Cadmium | 0.9 | B | 0.8 | B | 0.4 | B | 0.8 | B | 0.300 | U | P |
| Calcium | 21.4 | B | 47.0 | B | 13.7 | B | 20.1 | B | 144.433 | B | P |
| Chromium | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.000 | U | P |
| Cobalt | 2.8 | U | 2.8 | U | 2.8 | U | 2.8 | U | 2.800 | U | P |
| Copper | 1.7 | U | 1.7 | U | 1.7 | U | 1.7 | U | 1.700 | U | P |
| Iron | 17.8 | B | 29.8 | B | 12.8 | B | 18.8 | B | 11.800 | U | P |
| Lead | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.000 | U | P |
| Magnesium | 22.9 | B | 53.1 | B | 14.7 | B | 22.7 | B | 17.200 | B | P |
| Manganese | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.000 | U | P |
| Mercury | | | 0.1 | U | 0.1 | U | 0.1 | U | | | CV |
| Nickel | 3.6 | U | 3.6 | U | 3.6 | U | 3.6 | U | 3.600 | U | P |
| Potassium | 18.9 | U | 18.9 | U | 18.9 | U | 18.9 | U | 18.900 | U | P |
| Selenium | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Silver | 0.6 | U | 0.6 | B | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Sodium | 120.5 | U | 120.5 | U | 120.5 | U | 120.5 | U | 120.500 | U | P |
| Thallium | 1.9 | U | 3.1 | B | 1.9 | U | 1.9 | U | 2.145 | B | P |
| Vanadium | 2.7 | U | 2.7 | U | 2.7 | U | 2.7 | U | 2.700 | U | P |
| Zinc | 1.9 | U | 1.9 | U | 1.9 | U | 1.9 | U | 8.900 | B | P |
| Cyanide | | | | | | | | | | | |

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 50.9 | B | | | | | 29.400 | U | P |
| Antimony | | | 4.4 | U | | | | | 4.400 | U | P |
| Arsenic | | | 1.7 | U | | | | | 1.700 | U | P |
| Barium | | | 1.2 | U | | | | | 1.200 | U | P |
| Beryllium | | | 0.8 | B | | | | | 0.300 | U | P |
| Cadmium | | | 0.9 | B | | | | | 0.300 | U | P |
| Calcium | | | 53.7 | B | | | | | 89.767 | B | P |
| Chromium | | | 3.0 | U | | | | | 3.000 | U | P |
| Cobalt | | | 2.8 | U | | | | | 2.800 | U | P |
| Copper | | | 1.7 | U | | | | | 1.700 | U | P |
| Iron | | | 34.2 | B | | | | | 11.800 | U | P |
| Lead | | | 1.0 | U | | | | | 1.000 | U | P |
| Magnesium | | | 58.6 | B | | | | | 11.500 | U | P |
| Manganese | | | 1.0 | U | | | | | 1.000 | U | P |
| Mercury | | | 0.1 | U | | | | | | | CV |
| Nickel | | | 3.6 | U | | | | | 3.600 | U | P |
| Potassium | | | 18.9 | U | | | | | 18.900 | U | P |
| Selenium | | | 1.4 | U | | | | | 1.400 | U | P |
| Silver | | | 0.6 | U | | | | | 0.600 | U | P |
| Sodium | | | 120.5 | U | | | | | 120.500 | U | P |
| Thallium | | | 2.9 | B | | | | | 1.900 | U | P |
| Vanadium | | | 2.7 | U | | | | | 2.700 | U | P |
| Zinc | | | 3.1 | B | | | | | 2.533 | B | P |
| Cyanide | | | | | | | | | | | |

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | | | | | | | | | |
| Antimony | | | | | | | | | | | |
| Arsenic | | | | | | | | | | | |
| Barium | | | | | | | | | | | |
| Beryllium | | | | | | | | | | | |
| Cadmium | | | | | | | | | | | |
| Calcium | | | | | | | | | | | |
| Chromium | | | | | | | | | | | |
| Cobalt | | | | | | | | | | | |
| Copper | | | | | | | | | | | |
| Iron | | | | | | | | | | | |
| Lead | 1.0 | U | 1.0 | U | 1.0 | U | | | | | P |
| Magnesium | | | | | | | | | | | |
| Manganese | | | | | | | | | | | |
| Mercury | | | | | | | | | | | |
| Nickel | | | | | | | | | | | |
| Potassium | | | | | | | | | | | |
| Selenium | | | | | | | | | | | |
| Silver | | | | | | | | | | | |
| Sodium | | | | | | | | | | | |
| Thallium | | | | | | | | | | | |
| Vanadium | | | | | | | | | | | |
| Zinc | | | | | | | | | | | |
| Cyanide | | | | | | | | | | | |

FORM III - IN

4

# ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61E ICS Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | True Sol. A | True Sol. AB | Initial Found Sol. A | Initial Found Sol. AB | Initial Found %R | Final Found Sol. A | Final Found Sol. AB | Final Found %R |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 500000 | 500000 | 498506 | 513493.5 | 102.7 | 506158 | 503604.4 | 100.7 |
| Antimony | | | -3 | 0.8 | | -1 | 0.5 | |
| Arsenic | | 1000 | 3 | 1041.3 | 104.1 | 3 | 1023.3 | 102.3 |
| Barium | | 500 | 6 | 551.6 | 110.3 | 6 | 541.2 | 108.2 |
| Beryllium | | 500 | 1 | 524.3 | 104.9 | 0 | 518.7 | 103.7 |
| Cadmium | | 1000 | -1 | 966.3 | 96.6 | -2 | 954.6 | 95.5 |
| Calcium | 500000 | 500000 | 500513 | 518330.8 | 103.7 | 515509 | 512147.7 | 102.4 |
| Chromium | | 500 | 0 | 502.7 | 100.5 | 1 | 496.9 | 99.4 |
| Cobalt | | 500 | 2 | 504.6 | 100.9 | 2 | 498.3 | 99.7 |
| Copper | | 500 | 1 | 559.9 | 112.0 | 1 | 551.1 | 110.2 |
| Iron | 200000 | 200000 | 199268 | 207232.2 | 103.6 | 203557 | 204459.4 | 102.2 |
| Lead | | 1000 | -1 | 990.5 | 99.0 | 0 | 979.3 | 97.9 |
| Magnesium | 500000 | 500000 | 503528 | 519694.3 | 103.9 | 517846 | 516766.7 | 103.4 |
| Manganese | | 500 | 16 | 537.0 | 107.4 | 17 | 530.8 | 106.2 |
| Mercury | | | | | | | | |
| Nickel | | 1000 | 0 | 982.5 | 98.2 | 0 | 971.1 | 97.1 |
| Potassium | | | 0 | 0.5 | | 1 | 0.1 | |
| Selenium | | 1000 | -3 | 1025.0 | 102.5 | -1 | 1002.7 | 100.3 |
| Silver | | 1000 | 0 | 1069.8 | 107.0 | 0 | 1058.4 | 105.8 |
| Sodium | | | 22 | 41.9 | | 44 | 39.5 | |
| Thallium | | 1000 | -5 | 991.1 | 99.1 | -2 | 974.1 | 97.4 |
| Vanadium | | 500 | 2 | 530.2 | 106.0 | 2 | 522.4 | 104.5 |
| Zinc | | 1000 | 23 | 1103.2 | 110.3 | 23 | 1092.5 | 109.2 |

4

# ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61E ICS Source: PLASMA CHEM

Concentration Units: ug/L

| Analyte | True Sol. A | True Sol. AB | Initial Found Sol. A | Initial Found Sol. AB | %R | Final Found Sol. A | Final Found Sol. AB | %R |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 500000 | 500000 | 495392 | 488819.9 | 97.8 | 475969 | 483612.2 | 96.7 |
| Antimony | | | | | | | | |
| Arsenic | | | | | | | | |
| Barium | | | | | | | | |
| Beryllium | | | | | | | | |
| Cadmium | | | | | | | | |
| Calcium | 500000 | 500000 | 497724 | 491331.4 | 98.3 | 478299 | 487089.0 | 97.4 |
| Chromium | | | | | | | | |
| Cobalt | | | | | | | | |
| Copper | | | | | | | | |
| Iron | 200000 | 200000 | 194986 | 193210.6 | 96.6 | 187877 | 191317.1 | 95.7 |
| Lead | | 1000 | 5 | 959.1 | 95.9 | 4 | 951.0 | 95.1 |
| Magnesium | 500000 | 500000 | 489784 | 485500.3 | 97.1 | 475126 | 483749.1 | 96.7 |
| Manganese | | | | | | | | |
| Mercury | | | | | | | | |
| Nickel | | | | | | | | |
| Potassium | | | | | | | | |
| Selenium | | | | | | | | |
| Silver | | | | | | | | |
| Sodium | | | | | | | | |
| Thallium | | | | | | | | |
| Vanadium | | | | | | | | |
| Zinc | | | | | | | | |

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

A84207S

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 85414.9660 | | 95209.1660 | | 2000.00 | -489.7 | | P |
| Antimony | 75-125 | 281.0928 | | 4.4000 | U | 500.00 | 56.2 | N | P |
| Arsenic | 75-125 | 1586.2980 | | 63.6600 | | 2000.00 | 76.1 | | P |
| Barium | 75-125 | 2143.6000 | | 581.7000 | | 2000.00 | 78.1 | | P |
| Beryllium | 75-125 | 47.2000 | | 7.3667 | | 50.00 | 79.7 | | P |
| Cadmium | 75-125 | 33.6665 | | 1.5000 | U | 50.00 | 67.3 | N | P |
| Calcium | | | | | | | | | NR |
| Chromium | 75-125 | 291.3667 | | 154.3000 | | 200.00 | 68.5 | N | P |
| Cobalt | 75-125 | 820.9333 | | 461.6667 | | 500.00 | 71.9 | N | P |
| Copper | 75-125 | 376.8667 | | 190.3333 | | 250.00 | 74.6 | N | P |
| Iron | | 573000.0000 | | 637499.0000 | | 1000.00 | -6449.9 | | P |
| Lead | 75-125 | 527.5447 | | 156.6470 | | 500.00 | 74.2 | N | P |
| Magnesium | | | | | | | | | NR |
| Manganese | | 13118.0000 | | 13515.6000 | | 500.00 | -79.5 | | P |
| Mercury | 75-125 | 1.4677 | | 0.4149 | | 1.00 | 105.3 | | CV |
| Nickel | 75-125 | 707.7333 | | 350.9667 | | 500.00 | 71.4 | N | P |
| Potassium | | | | | | | | | NR |
| Selenium | 75-125 | 1539.2307 | | 3.1243 | B | 2000.00 | 76.8 | | P |
| Silver | 75-125 | 31.4037 | | 0.6000 | U | 50.00 | 62.8 | N | P |
| Sodium | | | | | | | | | NR |
| Thallium | 75-125 | 1513.5066 | | 10.4487 | | 2000.00 | 75.2 | | P |
| Vanadium | 75-125 | 626.2000 | | 252.4000 | | 500.00 | 74.8 | N | P |
| Zinc | 75-125 | 881.6000 | | 528.1333 | | 500.00 | 70.7 | N | P |
| Cyanide | | | | | | | | | NR |

Comments:

FORM V (PART 1) - IN

MCC21a
LMB 10/12/95

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

A84207A

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | | Spike Added (SA) | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | | | | | | | NR |
| Antimony | | 95.77 | | 4.40 | U | 120.0 | 79.8 | | P |
| Arsenic | | | | | | | | | NR |
| Barium | | | | | | | | | NR |
| Beryllium | | | | | | | | | NR |
| Cadmium | | 7.20 | | 0.30 | U | 10.0 | 72.0 | | P |
| Calcium | | | | | | | | | NR |
| Chromium | | 591.70 | | 154.30 | | 500.0 | 87.5 | | P |
| Cobalt | | 1323.57 | | 461.67 | | 1000.0 | 86.2 | | P |
| Copper | | 652.80 | | 190.33 | | 500.0 | 92.5 | | P |
| Iron | | | | | | | | | NR |
| Lead | | 430.05 | | 156.65 | | 300.0 | 91.1 | | P |
| Magnesium | | | | | | | | | NR |
| Manganese | | | | | | | | | NR |
| Mercury | | | | | | | | | NR |
| Nickel | | 1218.70 | | 350.97 | | 1000.0 | 86.8 | | P |
| Potassium | | | | | | | | | NR |
| Selenium | | | | | | | | | NR |
| Silver | | 7.53 | B | 0.60 | U | 20.0 | 37.6 | | P |
| Sodium | | | | | | | | | NR |
| Thallium | | | | | | | | | NR |
| Vanadium | | 763.47 | | 252.40 | | 500.0 | 102.2 | | P |
| Zinc | | 1391.87 | | 528.13 | | 1000.0 | 86.4 | | P |
| Cyanide | | | | | | | | | NR |

Comments:

FORM V (PART 2) - IN

M0021B
LMB 10/12/95

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

A84207D

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: ~~100.0~~ UMB 10/12/95 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | | 95209.1660 | | 91119.6000 | | 4.4 | | P |
| Antimony | | 4.4000 | U | 4.4000 | U | | | P |
| Arsenic | | 63.6600 | | 63.2816 | | 0.6 | | P |
| Barium | 200.0 | 581.7000 | | 570.0000 | | 2.0 | | P |
| Beryllium | 5.0 | 7.3667 | | 7.2000 | | 2.3 | | P |
| Cadmium | | 1.5000 | U | 1.5000 | U | | | P |
| Calcium | | 31711.3660 | | 31474.6330 | | 0.7 | | P |
| Chromium | | 154.3000 | | 149.9000 | | 2.9 | | P |
| Cobalt | | 461.6667 | | 458.9667 | | 0.6 | | P |
| Copper | | 190.3333 | | 190.3000 | | 0.0 | | P |
| Iron | | 637499.0000 | | 619641.5000 | | 2.8 | | P |
| Lead | | 156.6470 | | 155.5955 | | 0.7 | | P |
| Magnesium | 5000.0 | 17340.6000 | | 17111.4000 | | 1.3 | | P |
| Manganese | | 13515.6000 | | 13477.2000 | | 0.3 | | P |
| Mercury | 0.2 | 0.4149 | | 0.4090 | | 1.4 | | CV |
| Nickel | | 350.9667 | | 344.8000 | | 1.8 | | P |
| Potassium | 5000.0 | 8990.5000 | | 8604.0667 | | 4.4 | | P |
| Selenium | | 3.1243 | B | 4.5615 | B | 37.4 | | P |
| Silver | | 0.6000 | U | 0.6000 | U | | | P |
| Sodium | 5000.0 | 17979.7660 | | 17810.2000 | | 0.9 | | P |
| Thallium | 10.0 | 10.4487 | | 9.8016 | B | 6.4 | | P |
| Vanadium | 50.0 | 252.4000 | | 249.6667 | | 1.1 | | P |
| Zinc | | 528.1333 | | 491.0000 | | 7.3 | | P |
| Cyanide | | | | | | | | |

FORM VI - IN

MUC21C
UMB 10/12/95

7

# LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Solid LCS Source: ICF LCS 0287

Aqueous LCS Source: PLASMA CHEM

| Analyte | Aqueous (ug/L) True | Found | %R | Solid (mg/kg) True | Found | C | Limits | | %R |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000.0 | 49293.87 | 98.6 | | | | | | |
| Antimony | 1000.0 | 990.52 | 99.1 | | | | | | |
| Arsenic | 500.0 | 520.30 | 104.1 | | | | | | |
| Barium | 2500.0 | 2376.93 | 95.1 | | | | | | |
| Beryllium | 2500.0 | 2447.67 | 97.9 | | | | | | |
| Cadmium | 2500.0 | 2310.07 | 92.4 | | | | | | |
| Calcium | 50000.0 | 47471.23 | 94.9 | | | | | | |
| Chromium | 2500.0 | 2338.20 | 93.5 | | | | | | |
| Cobalt | 2500.0 | 2329.67 | 93.2 | | | | | | |
| Copper | 2500.0 | 2386.57 | 95.5 | | | | | | |
| Iron | 50000.0 | 47845.57 | 95.7 | | | | | | |
| Lead | 500.0 | 510.71 | 102.1 | | | | | | |
| Magnesium | 50000.0 | 47966.00 | 95.9 | | | | | | |
| Manganese | 2500.0 | 2355.60 | 94.2 | | | | | | |
| Mercury | | | | | | | | | |
| Nickel | 2500.0 | 2316.63 | 92.7 | | | | | | |
| Potassium | 80000.0 | 76902.57 | 96.1 | | | | | | |
| Selenium | 500.0 | 506.97 | 101.4 | | | | | | |
| Silver | 1000.0 | 971.32 | 97.1 | | | | | | |
| Sodium | 80000.0 | 77380.70 | 96.7 | | | | | | |
| Thallium | 500.0 | 519.44 | 103.9 | | | | | | |
| Vanadium | 2500.0 | 2352.60 | 94.1 | | | | | | |
| Zinc | 2500.0 | 2414.47 | 96.6 | | | | | | |
| Cyanide | | | | | | | | | |

7

# LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Solid LCS Source: ICF LCS 0287

Aqueous LCS Source: PLASMA CHEM

| Analyte | Aqueous (ug/L) True | Found | %R | Solid (mg/kg) True | Found | C | Limits | | %R |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000.0 | 48794.33 | 97.6 | | | | | | |
| Antimony | 1000.0 | 983.37 | 98.3 | | | | | | |
| Arsenic | 500.0 | 515.00 | 103.0 | | | | | | |
| Barium | 2500.0 | 2353.53 | 94.1 | | | | | | |
| Beryllium | 2500.0 | 2421.13 | 96.8 | | | | | | |
| Cadmium | 2500.0 | 2289.93 | 91.6 | | | | | | |
| Calcium | 50000.0 | 47029.57 | 94.1 | | | | | | |
| Chromium | 2500.0 | 2315.43 | 92.6 | | | | | | |
| Cobalt | 2500.0 | 2308.70 | 92.3 | | | | | | |
| Copper | 2500.0 | 2356.70 | 94.3 | | | | | | |
| Iron | 50000.0 | 47409.70 | 94.8 | | | | | | |
| Lead | 500.0 | 506.39 | 101.3 | | | | | | |
| Magnesium | 50000.0 | 47570.17 | 95.1 | | | | | | |
| Manganese | 2500.0 | 2334.40 | 93.4 | | | | | | |
| Mercury | | | | | | | | | |
| Nickel | 2500.0 | 2293.43 | 91.7 | | | | | | |
| Potassium | 80000.0 | 76230.07 | 95.3 | | | | | | |
| Selenium | 500.0 | 504.39 | 100.9 | | | | | | |
| Silver | 1000.0 | 963.15 | 96.3 | | | | | | |
| Sodium | 80000.0 | 76565.47 | 95.7 | | | | | | |
| Thallium | 500.0 | 514.98 | 103.0 | | | | | | |
| Vanadium | 2500.0 | 2331.77 | 93.3 | | | | | | |
| Zinc | 2500.0 | 2389.53 | 95.6 | | | | | | |
| Cyanide | | | | | | | | | |

# LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Solid LCS Source: ICF LCS 0287

Aqueous LCS Source: PLASMA CHEM

| Analyte | Aqueous (ug/L) True | Found | %R | Solid (mg/kg) True | Found | C | Limits | | %R |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | | | | | | | |
| Antimony | | | | | | | | | |
| Arsenic | | | | | | | | | |
| Barium | | | | | | | | | |
| Beryllium | | | | | | | | | |
| Cadmium | | | | | | | | | |
| Calcium | | | | | | | | | |
| Chromium | | | | | | | | | |
| Cobalt | | | | | | | | | |
| Copper | | | | | | | | | |
| Iron | | | | | | | | | |
| Lead | | | | | | | | | |
| Magnesium | | | | | | | | | |
| Manganese | | | | | | | | | |
| Mercury | | | | | | | | | |
| Nickel | | | | | | | | | |
| Potassium | | | | | | | | | |
| Selenium | | | | | | | | | |
| Silver | | | | | | | | | |
| Sodium | | | | | | | | | |
| Thallium | | | | | | | | | |
| Vanadium | | | | | | | | | |
| Zinc | | | | | | | | | |
| Cyanide | | | | | | | | | |

8

# STANDARD ADDITION RESULTS

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Concentration Units: ug/L

| EPA Sample No. | An | 0 ADD ABS | 1 ADD CON | 1 ADD ABS | 2 ADD CON | 2 ADD ABS | 3 ADD CON | 3 ADD ABS | Final Conc. | r | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

A84207L

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 95209.17 | | 114828.50 | | 20.6 | E | P |
| Antimony | 4.40 | U | 22.00 | U | | | P |
| Arsenic | 63.66 | | 86.12 | | 35.3 | | P |
| Barium | 581.70 | | 706.50 | B | 21.5 | E | P |
| Beryllium | 7.37 | | 9.50 | B | 28.9 | | P |
| Cadmium | 0.30 | U | 1.50 | U | | | P |
| Calcium | 31711.37 | | 39331.83 | | 24.0 | E | P |
| Chromium | 154.30 | | 187.67 | | 21.6 | E | P |
| Cobalt | 461.67 | | 572.33 | | 24.0 | E | P |
| Copper | 190.33 | | 229.00 | | 20.3 | E | P |
| Iron | 127499.80 | | 133912.33 | | 5.0 | | P |
| Lead | 156.65 | | 196.64 | | 25.5 | E | P |
| Magnesium | 17340.60 | | 21422.17 | B | 23.5 | E | P |
| Manganese | 13515.60 | | 17454.50 | | 29.1 | E | P |
| Mercury | | | | | 0.0 | | |
| Nickel | 350.97 | | 441.50 | | 25.8 | E | P |
| Potassium | 8990.50 | | 6394.17 | B | 28.9 | E | P |
| Selenium | 3.12 | B | 17.20 | B | 451.3 | | P |
| Silver | 0.60 | U | 3.00 | U | | | P |
| Sodium | 17979.77 | | 14066.50 | B | 21.8 | E | P |
| Thallium | 10.45 | | 18.33 | B | 75.4 | | P |
| Vanadium | 252.40 | | 310.50 | | 23.0 | E | P |
| Zinc | 528.13 | | 708.67 | | 34.2 | E | P |

FORM IX - IN

10

# INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: Date: 07/20/95

Flame AA ID Number: LEEMAN

Furnace AA ID Number:

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | | | 200.0 | | |
| Antimony | | | 60.0 | | |
| Arsenic | | | 10.0 | | |
| Barium | | | 200.0 | | |
| Beryllium | | | 5.0 | | |
| Cadmium | | | 5.0 | | |
| Calcium | | | 5000.0 | | |
| Chromium | | | 10.0 | | |
| Cobalt | | | 50.0 | | |
| Copper | | | 25.0 | | |
| Iron | | | 100.0 | | |
| Lead | | | 3.0 | | |
| Magnesium | | | 5000.0 | | |
| Manganese | | | 15.0 | | |
| Mercury | 254.00 | | 0.2 | 0.1 | CV |
| Nickel | | | 40.0 | | |
| Potassium | | | 5000.0 | | |
| Selenium | | | 5.0 | | |
| Silver | | | 10.0 | | |
| Sodium | | | 5000.0 | | |
| Thallium | | | 10.0 | | |
| Vanadium | | | 50.0 | | |
| Zinc | | | 20.0 | | |
| Cyanide | | | 10.0 | | |

Comments:
NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.

10

# INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61E Date: 07/25/95

Flame AA ID Number:

Furnace AA ID Number:

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | 308.22 | | 200.0 | 29.4 | P |
| Antimony | 206.84 | | 60.0 | 4.4 | P |
| Arsenic | 189.04 | | 10.0 | 1.7 | P |
| Barium | 493.41 | | 200.0 | 1.2 | P |
| Beryllium | 313.04 | | 5.0 | 0.3 | P |
| Cadmium | 226.50 | | 5.0 | 0.3 | P |
| Calcium | 317.93 | | 5000.0 | 12.8 | P |
| Chromium | 267.72 | | 10.0 | 3.0 | P |
| Cobalt | 228.62 | | 50.0 | 2.8 | P |
| Copper | 324.75 | | 25.0 | 1.7 | P |
| Iron | 271.44 | | 100.0 | 11.8 | P |
| Lead | 220.35 | | 3.0 | 1.0 | P |
| Magnesium | 279.08 | | 5000.0 | 11.5 | P |
| Manganese | 257.61 | | 15.0 | 1.0 | P |
| Mercury | | | 0.2 | | |
| Nickel | 231.60 | | 40.0 | 3.6 | P |
| Potassium | 766.49 | | 5000.0 | 18.9 | P |
| Selenium | 196.03 | | 5.0 | 1.4 | P |
| Silver | 328.07 | | 10.0 | 0.6 | P |
| Sodium | 330.23 | | 5000.0 | 120.5 | P |
| Thallium | 190.86 | | 10.0 | 1.9 | P |
| Vanadium | 292.40 | | 50.0 | 2.7 | P |
| Zinc | 213.86 | | 20.0 | 1.9 | P |
| Cyanide | 578.00 | | 10.0 | 10.0 | CA |

Comments:
NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.
ANTIMONY, LEAD & SELENIUM USE FIRST & SECOND ORDER FOR ANALYSIS.
CYANIDE DETECTION LIMIT = 8/15/95

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: ARL3560 Date: 12/03/93

| Analyte | Wave-length (nm) | Interelement Correction Factors for: Al | Ca | Fe | Mg | CR |
|---|---|---|---|---|---|---|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.83 | 0.0001757 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002614 |
| Arsenic | 193.70 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0047997 |
| Barium | 455.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.86 | 0.0000000 | 0.0000144 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0001569 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001414 |
| Copper | 324.75 | 0.0000000 | 0.0000557 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 259.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 283.30 | -0.0001112 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0004873 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | -0.0002233 | 0.0000000 | 0.0000000 |
| Mercury | | | | | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0012167 | 0.0000000 |
| Selenium | 196.00 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1254690 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | -0.0000707 | 0.0000000 | 0.0000000 |
| Sodium | 589.00 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | | | | | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0001619 | 0.0000000 | -0.0024391 |
| Zinc | 213.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cyanide | | | | | | |

Comments:

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61 Date: 10/22/93

| Analyte | Wave-length (nm) | Interelement Correction Factors for: Al | Ca | Fe | Mg | MN |
|---|---|---|---|---|---|---|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | -0.0000200 | 0.0000000 | 0.0062000 |
| Antimony | 206.83 | -0.0003000 | 0.0000000 | 0.0000800 | 0.0000000 | 0.0000000 |
| Arsenic | 193.70 | 0.0065000 | 0.0000000 | 0.0002000 | 0.0000000 | 0.0000000 |
| Barium | 493.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 313.00 | 0.0000000 | 0.0000000 | -0.0001400 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000300 | 0.0000000 | 0.0001900 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | -0.0000200 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | -0.0001200 | 0.0000000 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 259.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.30 | 0.0008500 | 0.0000000 | 0.0001500 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | -0.0004000 | 0.0000000 | 0.0000000 |
| Mercury | | | | | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | -0.0001000 | 0.0000000 | 0.0000000 |
| Potassium | 766.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.00 | 0.0001320 | 0.0000000 | -0.0000600 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | -0.0004000 | 0.0000000 | 0.0001700 |
| Sodium | 589.00 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0012000 | 0.0000000 | 0.0009600 | 0.0000000 | -0.0004100 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0001600 | 0.0000000 | 0.0000000 |
| Zinc | 213.86 | 0.0000000 | 0.0000000 | 0.0001000 | 0.0000000 | 0.0000000 |
| Cyanide | | | | | | |

Comments:

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61E Date: 03/22/95

| Analyte | Wave-length (nm) | Interelement Correction Factors for: Al | Ca | Fe | Mg | MN |
|---|---|---|---|---|---|---|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0000000 | 0.0000000 | 0.0178500 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.41 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000630 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000400 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | -0.0020000 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.6320000 | 0.0000000 | 0.0650000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0001750 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | -0.0000500 | 0.0000000 | 0.0000000 |
| Mercury | | | | | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.03 | -0.0028200 | 0.0000000 | -0.0250000 | 0.0000000 | 0.8470000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | -0.0259000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0041400 | 0.0000000 | -0.0326000 | 0.0000000 | -1.3840000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000200 | 0.0000000 | 0.0000000 |
| Zinc | 213.86 | 0.0000000 | 0.0000000 | 0.0000350 | 0.0000000 | 0.0000000 |
| Cyanide | | | | | | |

Comments:

ANTIMONY, LEAD & SELENIUM USE FIRST AND SECOND ORDER WAVELENGTHS. THE SECOND ORDER WAVELENGTH CORRECTIONS ARE AS FOLLOWS: ANTIMONY 0.0122 FOR IRON; LEAD -0.332 FOR ALUMINUM AND 0.023 FOR IRON, AND SELENIUM -0 .02768 FOR ALUMINUM, -0.282 FOR IRON AND 0.582 FOR MANGANESE.

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61 Date: 10/22/93

| Analyte | Wave-length (nm) | Interelement Correction Factors for: CR | NI | | | |
|---|---|---|---|---|---|---|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | | | |
| Antimony | 206.83 | 0.0071400 | -0.0009000 | | | |
| Arsenic | 193.70 | 0.0006200 | 0.0000000 | | | |
| Barium | 493.40 | 0.0000000 | 0.0000000 | | | |
| Beryllium | 313.00 | 0.0000000 | 0.0000000 | | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | | |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | | | |
| Cobalt | 228.62 | 0.0001500 | 0.0005000 | | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | | |
| Iron | 259.94 | 0.0000000 | 0.0000000 | | | |
| Lead | 220.30 | -0.0013000 | 0.0000000 | | | |
| Magnesium | 279.08 | -0.0003200 | 0.0000000 | | | |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | | | |
| Mercury | | | | | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | | |
| Potassium | 766.50 | 0.0000000 | 0.0000000 | | | |
| Selenium | 196.00 | 0.0000000 | 0.0000000 | | | |
| Silver | 328.07 | 0.0000000 | 0.0000000 | | | |
| Sodium | 589.00 | 0.0000000 | 0.0000000 | | | |
| Thallium | 190.86 | 0.0000000 | 0.0083400 | | | |
| Vanadium | 292.40 | 0.0001100 | 0.0000000 | | | |
| Zinc | 213.86 | 0.0000000 | 0.0002100 | | | |
| Cyanide | | | | | | |

Comments:

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: ARL3560 Date: 09/15/95

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---|---|---|---|
| Aluminum | 10.00 | 1000000.0 | P |
| Antimony | 10.00 | 100000.0 | P |
| Arsenic | 10.00 | 100000.0 | P |
| Barium | 10.00 | 50000.0 | P |
| Beryllium | 10.00 | 100000.0 | P |
| Cadmium | 10.00 | 100000.0 | P |
| Calcium | 10.00 | 1000000.0 | P |
| Chromium | 10.00 | 100000.0 | P |
| Cobalt | 10.00 | 100000.0 | P |
| Copper | 10.00 | 100000.0 | P |
| Iron | 10.00 | 500000.0 | P |
| Lead | 10.00 | 100000.0 | P |
| Magnesium | 10.00 | 1000000.0 | P |
| Manganese | 10.00 | 100000.0 | P |
| Mercury | | | |
| Nickel | 10.00 | 100000.0 | P |
| Potassium | 10.00 | 1000000.0 | P |
| Selenium | 10.00 | | P |
| Silver | 10.00 | 10000.0 | P |
| Sodium | 10.00 | 1000000.0 | P |
| Thallium | | | |
| Vanadium | 10.00 | 100000.0 | P |
| Zinc | 10.00 | 100000.0 | P |
| Cyanide | | | |

Comments:

NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.

12

# ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61 Date: 08/11/95

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---|---|---|---|
| Aluminum | 10.00 | 750000.0 | P |
| Antimony | 10.00 | 10000.0 | P |
| Arsenic | 10.00 | 100000.0 | P |
| Barium | 10.00 | 100000.0 | P |
| Beryllium | 10.00 | 100000.0 | P |
| Cadmium | 10.00 | 100000.0 | P |
| Calcium | 10.00 | 750000.0 | P |
| Chromium | 10.00 | 100000.0 | P |
| Cobalt | 10.00 | 100000.0 | P |
| Copper | 10.00 | 100000.0 | P |
| Iron | 10.00 | 500000.0 | P |
| Lead | 10.00 | 100000.0 | P |
| Magnesium | 10.00 | 750000.0 | P |
| Manganese | 10.00 | 100000.0 | P |
| Mercury | | | |
| Nickel | 10.00 | 100000.0 | P |
| Potassium | 10.00 | 1000000.0 | P |
| Selenium | 10.00 | 100000.0 | P |
| Silver | 10.00 | 10000.0 | P |
| Sodium | 10.00 | 1000000.0 | P |
| Thallium | 10.00 | 100000.0 | P |
| Vanadium | 10.00 | 100000.0 | P |
| Zinc | 10.00 | 100000.0 | P |
| Cyanide | | | |

Comments:
NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.

12

# ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

ICP ID Number: TJA61E Date: 09/07/95

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---|---|---|---|
| Aluminum | 15.00 | 750000.0 | P |
| Antimony | 15.00 | 10000.0 | P |
| Arsenic | 15.00 | 20000.0 | P |
| Barium | 15.00 | 20000.0 | P |
| Beryllium | 15.00 | 10000.0 | P |
| Cadmium | 15.00 | 25000.0 | P |
| Calcium | 15.00 | 750000.0 | P |
| Chromium | 15.00 | 25000.0 | P |
| Cobalt | 15.00 | 25000.0 | P |
| Copper | 15.00 | 25000.0 | P |
| Iron | 15.00 | 500000.0 | P |
| Lead | 15.00 | 25000.0 | P |
| Magnesium | 15.00 | 750000.0 | P |
| Manganese | 15.00 | 20000.0 | P |
| Mercury | | | |
| Nickel | 15.00 | 25000.0 | P |
| Potassium | 15.00 | 500000.0 | P |
| Selenium | 15.00 | 20000.0 | P |
| Silver | 15.00 | 10000.0 | P |
| Sodium | 15.00 | 500000.0 | P |
| Thallium | 15.00 | 25000.0 | P |
| Vanadium | 15.00 | 25000.0 | P |
| Zinc | 15.00 | 10000.0 | P |
| Cyanide | | | |

Comments:
NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.

13

# Preparation Log

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Method: CV

| Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|---|---|---|---|
| A84201 | 09/18/95 | | 100 |
| A84202 | 09/18/95 | | 100 |
| A84203 | 09/18/95 | | 100 |
| A84204 | 09/18/95 | | 100 |
| A84205 | 09/18/95 | | 100 |
| A84206 | 09/18/95 | | 100 |
| A84207 | 09/18/95 | | 100 |
| A84207D | 09/18/95 | | 100 |
| A84207S | 09/18/95 | | 100 |
| CCB1 | 09/18/95 | | 100 |
| CCB2 | 09/18/95 | | 100 |
| CCB3 | 09/18/95 | | 100 |
| CCB4 | 09/18/95 | | 100 |
| CCV1 | 09/18/95 | | 100 |
| CCV2 | 09/18/95 | | 100 |
| CCV3 | 09/18/95 | | 100 |
| CCV4 | 09/18/95 | | 100 |
| ICB | 09/18/95 | | 100 |
| ICV | 09/18/95 | | 100 |
| PBW | 09/18/95 | | 100 |

FORM XIII - IN

Preparation Log

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Method: P

| Sample No. | Preparation Date | Weight (gram) | Volume (ml) |
|---|---|---|---|
| A84201 | 09/15/95 | | 100 |
| A84202 | 09/15/95 | | 100 |
| A84203 | 09/15/95 | | 100 |
| A84204 | 09/21/95 | | 100 |
| A84205 | 09/15/95 | | 100 |
| A84206 | 09/15/95 | | 100 |
| A84207 | 09/21/95 | | 100 |
| A84207D | 09/21/95 | | 100 |
| A84207D | 09/15/95 | | 100 |
| A84207S | 09/15/95 | | 100 |
| LCSW1 | 09/15/95 | | 100 |
| LCSW2 | 09/21/95 | | 100 |
| PBW1 | 09/15/95 | | 100 |
| PBW2 | 09/21/95 | | 100 |

FORM XIII - IN

# Analysis Run Log

Lab Name: H2M LABS, INC. Contract:
Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912
Instrument ID Number: TJA61E Method: P
Start Date: 09/22/95 End Date: 09/22/95

| Sample No. | D/F | Time | %R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| ICV1 | 1.00 | 1306 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| ICB1 | 1.00 | 1312 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CRII1 | 1.00 | 1318 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| ICSAI1 | 1.00 | 1323 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| ICSABI1 | 1.00 | 1329 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CCV1 | 1.00 | 1335 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CCB1 | 1.00 | 1341 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| PBW1 | 1.00 | 1346 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| PBW2 | 1.00 | 1352 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| LCSW1 | 1.00 | 1358 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| LCSW2 | 1.00 | 1404 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84201 | 1.00 | 1409 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84202 | 1.00 | 1415 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84203 | 1.00 | 1421 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84204 | 1.00 | 1426 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84205 | 1.00 | 1432 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84206 | 1.00 | 1438 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CCV2 | 1.00 | 1443 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CCB2 | 1.00 | 1452 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84207 | 1.00 | 1457 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84207D | 1.00 | 1503 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84207S | 1.00 | 1509 | | X | X | X | X | X | X | | X | X | X | X | X | | X | — | X | X | X | X | | X | X | X | — |
| A84207L | 5.00 | 1514 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84207A | 1.00 | 1538 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84204 | 2.00 | 1544 | | | | | | | X | | | | | | | | | | | | | | | | | | |
| A84207 | 5.00 | 1559 | | — | — | — | — | — | X | — | — | — | — | X | — | — | — | — | — | — | — | — | — | — | — | — | — |
| A84207D | 5.00 | 1604 | | | | | | | X | | | | | X | | | | | | | | | | | | | |
| A84207S | 5.00 | 1610 | | — | — | — | — | — | X | — | — | — | — | X | — | — | — | — | — | — | — | — | — | — | — | — | — |
| A84207L | 25.00 | 1616 | | | | | | | X | | | | | X | | | | | | | | | | | | | |
| CCV3 | 1.00 | 1621 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| CCB3 | 1.00 | 1627 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | — | X | X | X | X | X | X | X | X | — |
| A84207A | 5.00 | 1636 | | | | | | | X | | | | | | | | | | | | | | | | | | |

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

14

Analysis Run Log

Lab Name: H2M LABS, INC. Contract:
Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912
Instrument ID Number: TJA61E Method: P
Start Date: 09/22/95 End Date: 09/22/95

| Sample No. | D/F | Time | %R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| CRIF1 | 1.00 | 1641 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | _ | X | X | X | X | X | X | X | X | _ |
| ICSAF1 | 1.00 | 1647 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | _ | X | X | X | X | X | X | X | X | _ |
| ICSABF1 | 1.00 | 1653 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | _ | X | X | X | X | X | X | X | X | _ |
| CCV4 | 1.00 | 1658 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | _ | X | X | X | X | X | X | X | X | _ |
| CCB4 | 1.00 | 1704 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | _ | X | X | X | X | X | X | X | X | _ |

FORM XIV - IN

# Analysis Run Log

Lab Name: H2M LABS, INC. Contract:
Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912
Instrument ID Number: TJA61E Method: P
Start Date: 09/28/95 End Date: 09/28/95

| Sample No. | D/F | Time | %R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S0 | 1.00 | 1310 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| S | 1.00 | 1315 | | | X | | | | | | | | | | | | | | | | | X | | | | | |
| S | 1.00 | 1318 | | X | | | | | | X | | | | X | | X | | | | | | | | | | | |
| S | 1.00 | 1323 | | | | X | | | | | | | | | X | | | | | | X | | | X | | | |
| S | 1.00 | 1329 | | | | | X | X | X | | X | X | X | | | | X | | X | | | | | | X | X | |
| S | 1.00 | 1332 | | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| ICV3 | 1.00 | 1335 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ICB3 | 1.00 | 1341 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| CRII2 | 1.00 | 1347 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ICSAI2 | 1.00 | 1353 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ICSABI2 | 1.00 | 1358 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| CCV5 | 1.00 | 1404 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| CCB7 | 1.00 | 1410 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A84207A | 1.00 | 1438 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1444 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRIF2 | 1.00 | 1450 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ICSAF2 | 1.00 | 1455 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ICSABF2 | 1.00 | 1501 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| CCV6 | 1.00 | 1507 | | | | | | | | | | | | | X | | | | | | | | | | | | |
| CCB8 | 1.00 | 1531 | | | | | | | | | | | | | X | | | | | | | | | | | | |

# Analysis Run Log

Lab Name: H2M LABS, INC. Contract:
Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912
Instrument ID Number: LEEMAN Method: CV
Start Date: 09/19/95 End Date: 09/19/95

| Sample No. | D/F | Time | %R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S0 | 1.00 | 0804 | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0.2 | 1.00 | 0806 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| S1 | 1.00 | 0809 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| S2 | 1.00 | 0811 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| S6 | 1.00 | 0813 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| S10 | 1.00 | 0816 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ICV | 1.00 | 0819 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ICB | 1.00 | 0822 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV1 | 1.00 | 0824 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB1 | 1.00 | 0827 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| PBW | 1.00 | 0829 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 0832 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0834 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0836 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0839 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0841 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0843 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0845 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0848 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0850 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV2 | 1.00 | 0852 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB2 | 1.00 | 0855 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 0857 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0859 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0901 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0904 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0906 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0908 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0911 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A84207 | 1.00 | 0913 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84207D | 1.00 | 0915 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84207S | 1.00 | 0917 | | | | | | | | | | | | | | | | X | | | | | | | | | |

# Analysis Run Log

Lab Name: H2M LABS, INC. Contract:
Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912
Instrument ID Number: LEEMAN Method: CV
Start Date: 09/19/95 End Date: 09/19/95

| Sample No. | D/F | Time | %R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| CCV3 | 1.00 | 0920 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB3 | 1.00 | 0922 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84201 | 1.00 | 0924 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84202 | 1.00 | 0927 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84203 | 1.00 | 0929 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84204 | 1.00 | 0931 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84205 | 1.00 | 0933 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| A84206 | 1.00 | 0936 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 0938 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0940 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0942 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0944 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV4 | 1.00 | 0947 | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB4 | 1.00 | 0949 | | | | | | | | | | | | | | | | X | | | | | | | | | |

# III. RAW DATA FOR METALS

A. ICP DATA
B. MERCURY DATA

# 2M LABS, INC.

Standards Prep'd: 9/22/95
Source: Plasma Chem

CLIENT NDEC 0912 [Case#SH195] DATE 9/22/95

TASK: CLP1 [AutoSampler] RESULT FILE: DEC0912.ASC ANALYST CCZ

| # | SAMPLE | NOTES | # | SAMPLE | NOTES |
|---|---|---|---|---|---|
| 1 | ICV | | 26 | 9525477 | A84207; (1:5) dilution Fe, Cd |
| 2 | ICB | | 27 | 9525477D | A842070; (1:5) dilution Fe, Cd |
| 3 | CRII | | 28 | 9525477S | A84207S; (1:5) dilution |
| 4 | ICSAI | | 29 | 9525477L | A84207L; (1:25) dilution |
| 5 | ICSABI | | 30 | CCV3 | |
| 6 | CCV1 | | 31 | CCB3 | |
| 7 | CCB1 | | 32 | 9525477P | A84207P; (1:5) dilution Cd= +10 ug/L ~~Sb= +120 ug/L~~ MAM 10/11/95 |
| 8 | PBW1 | | 33 | CRIF | |
| 9 | PBW2 | Redigs. (9/21) | 34 | ICSAF | |
| 10 | LCSW1 | | 35 | ICSABF | |
| 11 | LCSW2 | Redigs (9/21) | 36 | CCV4 | |
| 12 | 9525471 | A84201 | 37 | CCB4 | |
| 13 | 9525472 | A84202 | 38 | | |
| 14 | 9525473 | A84203 | 39 | | |
| 15 | 9525474 | A84204; Dilute Fe→Cd | 40 | | |
| 16 | 9525475 | A84205 | 41 | | |
| 17 | 9525476 | A84206 | 42 | | |
| 18 | CCV2 | | 43 | | |
| 19 | CCB2 | | 44 | | |
| 20 | 9525477 | A84207; Dilute Fe→Cd | 45 | | |
| 21 | 9525477D | A842070; Dilute Fe, Cd, | 46 | | |
| 22 | 9525477S | A84207S; Dilute Fe, Cd | 47 | | |
| 23 | 9525477L | A84207L | 48 | | |
| 24 | 9525477P | A84207P; | 49 | Post Spike Additions. Ag= +20 ug/L Cd= +10 ug/L | Cu=+0.5 mg/L V=+0.5 mg/L Ni=+1.0 mg/L Zn=+1.0 mg/L |
| 25 | 9525474 | A84204; (1:2) dilution Cd | 50 | Co= +1.0 mg/L Cr=+0.5 mg/L | Sb=+120 ug/L |

Reviewed By:
Date: 10/11/95

P 0069 M 0044

# H2M LABS, INC.

SDG NO.: N0EC0912
DATE: 9-22-95
ANALYST: CCZ
ELEMENT: TCL

## METALS QC CHECKLIST

| | YES | NO | NA |
|---|---|---|---|
| **GENERAL** | | | |
| 1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE | ✓ | | |
| 1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB? | ✓ | | |
| 2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION | ✓ | | |
| 3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION | ✓ | | |
| 4. ARE THE "S" SPIKE RECOVERIES CHECKED? | ✓ | | |
| 5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL? | ✓ | | |
| 6. IS THE PREP BLANK LABELLED AS WATER OR SOIL? | ✓ | | |
| 7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES? | ✓ | | |
| 8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY? | ✓ | | |
| 9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID? | ✓ | | |
| 10. ARE ALL PAGES SIGNED AND DATED? | ✓ | | |
| 11. WAS A CRA/CRI STD. ANALYZED? | ✓ | | |
| 12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.? | ✓ | | |
| 13. IS THE INITIAL CAL. COEFF. > 0.995? | ✓ | | |
| 14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE? | | | ✓ |
| **FURNACE** | | | |
| 15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE | | | |
| 16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE | | | |
| 17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE | | | |
| 18. DID ANY SAMPLES REQUIRE MSA ANALYSIS? | | | |
| 19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN? | | | |
| 20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB? | | | |
| **ICP** | | | |
| 21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA? | | | ✓ |
| 22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION? | ✓ | | |

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

Thermo Jarrell Ash
AutoSampler Report  Table: DEC912  Fri 09-22-95 11:52:15 AM  page 1
ICAP 61E Trace

Table Name: DEC912  Autosampler Type: TYPE TJA
Sample Positions: 46/96  QC Positions: 13/19  # Sets: 1
Rinse Station location is rack -1, pos. -1.

--- Racks ---

| Rack # | Type | Usage | #Pos Left | Analyses/Pos |
|---|---|---|---|---|
| 1 | Aux. (L) Rack | STD/QC/BLANK | 13 | 10 |
| 2 | Sample (28mm) | Samples | 0 | 1 |
| 3 | Sample (28mm) | Samples | 0 | 1 |
| 4 | Sample (28mm) | Samples | 22 | 1 |
| 5 | Sample (28mm) | Samples | 24 | 1 |

--- Sample Sets ---

| Set# | Type | Prepare? | Description | Method | #Pos | Rack# | StartPos |
|---|---|---|---|---|---|---|---|
| 1 | Normal | No | DEC0912 | CLP1 | 50 | 2 | 1 |

--- Preparation Info ---

| Set# | Uptake | Uptake#2 | Final | Dil.Factor |
|---|---|---|---|---|

No Samples Prepared.

Rack #1

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | NAKH | -NA- | 1 | Standard |
| 2 | 1 | 2 | MULTIH | -NA- | 1 | Standard |
| 3 | 1 | 3 | FURNH | -NA- | 1 | Standard |
| 4 | 1 | 4 | ICSH | -NA- | 1 | Standard |
| 5 | 1 | 5 | AGSBH | -NA- | 1 | Standard |
| 6 | 1 | 6 | BLANK | -NA- | 1 | Standard |

(7...19 Not Used)

Rack #2

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | ICV | 1 | -NA- | Sample |
| 2 | 1 | 2 | ICB | 1 | -NA- | Sample |
| 3 | 1 | 3 | CRII | 1 | -NA- | Sample |
| 4 | 1 | 4 | ICSAI | 1 | -NA- | Sample |
| 5 | 1 | 5 | ICSABI | 1 | -NA- | Sample |
| 6 | 1 | 6 | CCV1 | 1 | -NA- | Sample |
| 7 | 1 | 7 | CCB1 | 1 | -NA- | Sample |
| 8 | 1 | 8 | PBW1 | 1 | -NA- | Sample |
| 9 | 2 | 1 | PBW2 | 1 | -NA- | Sample |
| 10 | 2 | 2 | LCSW1 | 1 | -NA- | Sample |
| 11 | 2 | 3 | LCSW2 | 1 | -NA- | Sample |
| 12 | 2 | 4 | A84201 | 1 | -NA- | Sample |
| 13 | 2 | 5 | A84202 | 1 | -NA- | Sample |
| 14 | 2 | 6 | A84203 | 1 | -NA- | Sample |
| 15 | 2 | 7 | A84204 | 1 | -NA- | Sample |

Rack #2

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 16 | 2 | 8 | A84205 | 1 | -NA- | Sample |
| 17 | 3 | 1 | A84206 | 1 | -NA- | Sample |
| 18 | 3 | 2 | CCV2 | 1 | -NA- | Sample |
| 19 | 3 | 3 | CCB2 | 1 | -NA- | Sample |
| 20 | 3 | 4 | A84207 | 1 | -NA- | Sample |
| 21 | 3 | 5 | A84207D | 1 | -NA- | Sample |
| 22 | 3 | 6 | A84207S | 1 | -NA- | Sample |
| 23 | 3 | 7 | A84207L | 1 | -NA- | Sample |
| 24 | 3 | 8 | A84207P | 1 | -NA- | Sample |

Rack #3

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | A84204 | 1 | -NA- | Sample |
| 2 | 1 | 2 | A84207 | 1 | -NA- | Sample |
| 3 | 1 | 3 | A84207D | 1 | -NA- | Sample |
| 4 | 1 | 4 | A84207S | 1 | -NA- | Sample |
| 5 | 1 | 5 | A84207L | 1 | -NA- | Sample |
| 6 | 1 | 6 | CCV3 | 1 | -NA- | Sample |
| 7 | 1 | 7 | CCB3 | 1 | -NA- | Sample |
| 8 | 1 | 8 | A84207P | 1 | -NA- | Sample |
| 9 | 2 | 1 | CRIF | 1 | -NA- | Sample |
| 10 | 2 | 2 | ICSAF | 1 | -NA- | Sample |
| 11 | 2 | 3 | ICSABF | 1 | -NA- | Sample |
| 12 | 2 | 4 | CCV4 | 1 | -NA- | Sample |
| 13 | 2 | 5 | CCB4 | 1 | -NA- | Sample |
| 14 | 2 | 6 | ( empty ) | 1 | -NA- | -NA- |
| 15 | 2 | 7 | ( empty ) | 1 | -NA- | -NA- |
| 16 | 2 | 8 | ( empty ) | 1 | -NA- | -NA- |
| 17 | 3 | 1 | ( empty ) | 1 | -NA- | -NA- |
| 18 | 3 | 2 | ( empty ) | 1 | -NA- | -NA- |
| 19 | 3 | 3 | ( empty ) | 1 | -NA- | -NA- |
| 20 | 3 | 4 | ( empty ) | 1 | -NA- | -NA- |
| 21 | 3 | 5 | ( empty ) | 1 | -NA- | -NA- |
| 22 | 3 | 6 | ( empty ) | 1 | -NA- | -NA- |
| 23 | 3 | 7 | ( empty ) | 1 | -NA- | -NA- |
| 24 | 3 | 8 | ( empty ) | 1 | -NA- | -NA- |

Rack #4

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | ( empty ) | 1 | -NA- | -NA- |
| 2 | 1 | 2 | ( empty ) | 1 | -NA- | -NA- |

(3...24 Not Used)

Thermo Jarrell Ash
Standardization Rpt.
ICAP 61E Trace Analyzer
Method: CLP1 Standard: BLANK

NOEC0912 (Case# SH195)
Fri 09-22-95 12:36:08 PM page 1
Data File: OEC0912.ASC

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Avge | .00001 | .0092 | -.00049 | .0004 | .0000 | .0001 | .0005 |
| SDev | .00004 | .0000 | .00018 | .0000 | .0000 | .0000 | .0000 |
| %RSD | 669.97 | .3438 | 36.947 | 2.238 | 151.4 | 3.885 | 3.328 |
| #1 | -.00000 | .0092 | -.00070 | .0004 | .0000 | .0001 | .0005 |
| #2 | .00005 | .0092 | -.00039 | .0004 | .0000 | .0001 | .0005 |
| #3 | -.00003 | .0092 | -.00038 | .0004 | -.0000 | .0001 | .0005 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Avge | .0000 | -.0000 | .0002 | .0012 | .0001 | .0018 | -.0000 |
| SDev | .0005 | .0000 | .0000 | .0000 | .0001 | .0003 | .0001 |
| %RSD | 1025. | 45.68 | 15.63 | 2.787 | 86.63 | 15.59 | 1190. |
| #1 | -.0000 | -.0000 | .0002 | .0012 | .0001 | .0019 | .0000 |
| #2 | .0006 | -.0000 | .0002 | .0013 | .0002 | .0021 | .0000 |
| #3 | -.0004 | -.0000 | .0002 | .0012 | .0000 | .0015 | -.0001 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | 2068/1 |
|---|---|---|---|---|---|---|---|
| Avge | .0002 | .0000 | -.0081 | .0001 | .00080 | -.00021 | -.00016 |
| SDev | .0000 | .0000 | .0004 | .0000 | .00119 | .00012 | .00010 |
| %RSD | 10.76 | 160.1 | 4.532 | 25.79 | 147.95 | 57.329 | 62.879 |
| #1 | .0001 | -.0000 | -.0082 | .0001 | .00103 | -.00016 | -.00023 |
| #2 | .0002 | .0000 | -.0076 | .0001 | -.00048 | -.00012 | -.00005 |
| #3 | .0001 | .0000 | -.0083 | .0001 | .00186 | -.00034 | -.00020 |

| Elem | 2068/2 | 1960/1 | 1960/2 | Tl1908 | V | Zn |
|---|---|---|---|---|---|---|
| Avge | .00019 | -.00090 | .00050 | -.00109 | .0000 | .0004 |
| SDev | .00015 | .00030 | .00018 | .00031 | .0000 | .0000 |
| %RSD | 76.738 | 32.983 | 35.903 | 28.080 | 94.33 | 3.250 |
| #1 | .00037 | -.00106 | .00046 | -.00089 | .0000 | .0004 |
| #2 | .00011 | -.00110 | .00069 | -.00094 | .0000 | .0004 |
| #3 | .00010 | -.00056 | .00034 | -.00144 | .0000 | .0004 |

Method: CLP1 Standard: AGSBH

| Elem | AG | 2068/1 | 2068/2 |
|---|---|---|---|
| Avge | .14263 | .54190 | .26737 |
| SDev | .00076 | .00314 | .00147 |
| %RSD | .53245 | .57850 | .54953 |
| #1 | .14184 | .53836 | .26587 |
| #2 | .14268 | .54299 | .26743 |
| #3 | .14336 | .54434 | .26880 |

Method: CLP1 Standard: ICSH

| Elem | Al | Ca | Fe | Mg |
|---|---|---|---|---|
| Avge | 6.111 | 8.650 | 2.165 | 11.81 |
| SDev | .025 | .055 | .011 | .05 |
| %RSD | .4039 | .6352 | .5033 | .4527 |
| | | | | |
| #1 | 6.140 | 8.709 | 2.177 | 11.87 |
| #2 | 6.098 | 8.643 | 2.162 | 11.79 |
| #3 | 6.097 | 8.600 | 2.156 | 11.76 |

Method: CLP1 Standard: FURNH

| Elem | As1890 | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|
| Avge | .18719 | .83153 | .33243 | .11650 | .08502 | .15491 |
| SDev | .00015 | .00087 | .00075 | .00016 | .00023 | .00042 |
| %RSD | .07726 | .10425 | .22508 | .13557 | .27348 | .27055 |
| #1 | .18702 | .83211 | .33178 | .11656 | .08514 | .15443 |
| #2 | .18723 | .83195 | .33325 | .11662 | .08518 | .15523 |
| #3 | .18730 | .83054 | .33226 | .11632 | .08476 | .15506 |

Method: CLP1 Standard: MULTIH

| Elem | B | Ba | Be | Cd | Co | Cr | Cu |
|---|---|---|---|---|---|---|---|
| Avge | .3482 | 1.249 | 1.742 | 15.21 | .3071 | .4279 | .3245 |
| SDev | .0015 | .005 | .007 | .06 | .0013 | .0018 | .0013 |
| %RSD | .4299 | .4401 | .3830 | .4150 | .4240 | .4195 | .3843 |
| #1 | .3465 | 1.243 | 1.735 | 15.14 | .3056 | .4259 | .3232 |
| #2 | .3490 | 1.253 | 1.745 | 15.23 | .3076 | .4286 | .3256 |
| #3 | .3492 | 1.251 | 1.747 | 15.27 | .3081 | .4293 | .3249 |

| Elem | Mn | Mo | Ni | V | Zn |
|---|---|---|---|---|---|
| Avge | 1.036 | .1870 | .4071 | .2111 | .7162 |
| SDev | .004 | .0007 | .0018 | .0010 | .0028 |
| %RSD | .4179 | .3935 | .4446 | .4677 | .3889 |
| #1 | 1.031 | .1861 | .4050 | .2100 | .7130 |
| #2 | 1.037 | .1874 | .4078 | .2115 | .7172 |
| #3 | 1.039 | .1874 | .4084 | .2119 | .7183 |

Method: CLP1 Standard: NAKH

| Elem | K | Na |
|---|---|---|
| Avge | 11.26 | 4.073 |
| SDev | .07 | .027 |
| %RSD | .6079 | .6737 |
| #1 | 11.19 | 4.042 |
| #2 | 11.32 | 4.095 |
| #3 | 11.29 | 4.081 |

Standardization Report Fri 09-22-95 12:58:36 PM page 1

Method: CLP1 Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std | Slope | Y-intercept | Date Standardized |
|---|---|---|---|---|---|---|
| AG | 328.068 | AGSBH | BLANK | 14023.0 | -.076032 | 09/22/95 12:55:24 |
| Al | 308.215 | ICSH | BLANK | 81.9373 | -.753669 | 09/22/95 12:55:24 |
| As1890 | 189.042 | FURNH | BLANK | 5328.38 | 2.60254 | 09/22/95 12:55:24 |
| B | 249.678 | MULTIH | BLANK | 14.3735 | -.005267 | 09/22/95 12:55:24 |
| Ba | 493.409 | MULTIH | BLANK | 4.00286 | -.000035 | 09/22/95 12:55:24 |
| Be | 313.042 | MULTIH | BLANK | 2.86990 | -.000251 | 09/22/95 12:55:24 |
| Ca | 317.933 | ICSH | BLANK | 1.11813 | .000019 | 09/22/95 12:55:24 |
| Cd | 226.502 | MULTIH | BLANK | .328662 | -.000015 | 09/22/95 12:55:24 |
| Co | 228.616 | MULTIH | BLANK | 16.2793 | .000526 | 09/22/95 12:55:24 |
| Cr | 267.716 | MULTIH | BLANK | 11.6895 | -.002129 | 09/22/95 12:55:24 |
| Cu | 324.754 | MULTIH | BLANK | 15.4639 | -.018782 | 09/22/95 12:55:24 |
| Fe | 271.441 | ICSH | BLANK | 115.495 | -.013329 | 09/22/95 12:55:24 |
| K | 766.491 | NAKH | BLANK | .985599 | .001127 | 09/22/95 12:55:24 |
| Mg | 279.079 | ICSH | BLANK | 1.08229 | .000200 | 09/22/95 12:55:24 |
| Mn | 257.610 | MULTIH | BLANK | 4.82910 | -.000729 | 09/22/95 12:55:24 |
| Mo | 202.030 | MULTIH | BLANK | 26.7434 | -.000316 | 09/22/95 12:55:24 |
| Na | 330.232 | NAKH | BLANK | .984999 | .002210 | 09/22/95 12:55:24 |
| Ni | 231.604 | MULTIH | BLANK | 12.2861 | -.001232 | 09/22/95 12:55:24 |
| 2203/1 | 220.351 | FURNH | BLANK | 1203.76 | -.965067 | 09/22/95 12:55:24 |
| 2203/2 | 220.352 | FURNH | BLANK | 3006.27 | .621482 | 09/22/95 12:55:24 |
| Pb2203 | 220.353 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| Sb2068 | 206.838 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| Se1960 | 196.026 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| 2068/1 | 206.831 | AGSBH | BLANK | 3689.64 | .592408 | 09/22/95 12:55:24 |
| 2068/2 | 206.832 | AGSBH | BLANK | 7485.79 | -1.45359 | 09/22/95 12:55:24 |
| 1960/1 | 196.021 | FURNH | BLANK | 8517.42 | 7.70546 | 09/22/95 12:55:24 |
| 1960/2 | 196.022 | FURNH | BLANK | 11830.4 | -5.86681 | 09/22/95 12:55:24 |
| Tl1908 | 190.864 | FURNH | BLANK | 6410.25 | 6.99469 | 09/22/95 12:55:24 |
| V | 292.402 | MULTIH | BLANK | 23.6829 | -.000204 | 09/22/95 12:55:24 |
| Zn | 213.856 | MULTIH | BLANK | 6.98568 | -.003042 | 09/22/95 12:55:24 |

Method: CLP1

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| AG | 328.068 | BLANK | .000000 | .000000 | -.000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Al | 308.215 | BLANK | .000000 | .000000 | -.000000 |
| | | ICSH | 500.000 | 500.000 | -.000031 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| As1890 | 189.042 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.000 | .000061 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| B | 249.678 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Ba | 493.409 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Be | 313.042 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Ca | 317.933 | BLANK | .000594 | .000514 | .000080 |
| | | ICSH | 9.67217 | 8.65026 | 1.02192 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cd | 226.502 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Co | 228.616 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cr | 267.716 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cu | 324.754 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Fe | 271.441 | BLANK | .000000 | -.000000 | .000000 |
| | | ICSH | 250.000 | 250.000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| K | 766.491 | BLANK | .002944 | .001843 | .001100 |
| | | NAKH | 11.1015 | 11.2626 | -.161062 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Mg | 279.079 | BLANK | .000194 | -.000005 | .000200 |
| | | ICSH | 12.7775 | 11.8058 | .971752 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Mn | 257.610 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Mo | 202.030 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Na | 330.232 | BLANK | -.005720 | -.008051 | .002331 |
| | | NAKH | 4.01362 | 4.07250 | -.058880 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Ni | 231.604 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2203/1 | 220.351 | BLANK | .000000 | -.000000 | .000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2203/2 | 220.352 | BLANK | .000000 | -.000000 | .000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Pb2203 | 220.353 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Sb2068 | 206.838 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Se1960 | 196.026 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2068/1 | 206.831 | BLANK | .000000 | .000000 | -.000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2068/2 | 206.832 | BLANK | .000000 | .000000 | -.000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 1960/1 | 196.021 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 1960/2 | 196.022 | BLANK | .000000 | -.000000 | .000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Tl1908 | 190.864 | BLANK | .000000 | -.000000 | .000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| V | 292.402 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Zn | 213.856 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

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Method: CLP1 Sample Name: ICV1 Operator:
Run Time: 09/22/95 13:06:44
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 982.80 | 52.17 | 506.87 | 2.542 | 2.548 | 2.563 | 49.55 |
| SDev | 6.06 | .34 | 3.07 | .015 | .016 | .014 | .25 |
| %RSD | .61645 | .6508 | .60643 | .6049 | .6300 | .5408 | .4951 |
| #1 | 976.98 | 51.84 | 503.38 | 2.525 | 2.532 | 2.549 | 49.34 |
| #2 | 982.36 | 52.15 | 508.05 | 2.544 | 2.546 | 2.562 | 49.49 |
| #3 | 989.07 | 52.52 | 509.18 | 2.556 | 2.564 | 2.577 | 49.82 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.464 | 2.492 | 2.496 | 2.562 | 51.70 | 85.10 | 50.32 |
| SDev | .014 | .013 | .014 | .020 | .29 | .76 | .26 |
| %RSD | .5691 | .5224 | .5720 | .7645 | .5536 | .8950 | .5254 |
| #1 | 2.452 | 2.480 | 2.483 | 2.542 | 51.44 | 84.34 | 50.08 |
| #2 | 2.462 | 2.489 | 2.494 | 2.563 | 51.65 | 85.11 | 50.29 |
| #3 | 2.479 | 2.506 | 2.512 | 2.581 | 52.00 | 85.86 | 50.60 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.518 | 2.521 | 80.82 | 2.477 | 489.45 | 497.29 | 494.68 |
| SDev | .014 | .016 | .44 | .013 | 2.71 | 3.64 | 2.95 |
| %RSD | .5519 | .6157 | .5476 | .5266 | .55422 | .73155 | .59633 |
| #1 | 2.505 | 2.508 | 80.35 | 2.465 | 488.82 | 493.24 | 491.77 |
| #2 | 2.516 | 2.517 | 80.87 | 2.474 | 487.11 | 498.35 | 494.61 |
| #3 | 2.532 | 2.538 | 81.23 | 2.491 | 492.43 | 500.28 | 497.67 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1001.6 | 499.46 | 1009.8 | 997.49 | 500.61 | 498.89 | 509.37 |
| SDev | 6.0 | 2.46 | 8.4 | 5.03 | 4.18 | 1.62 | 4.11 |
| %RSD | .60233 | .49284 | .83322 | .50389 | .83469 | .32403 | .80661 |
| #1 | 995.00 | 498.28 | 1001.5 | 991.76 | 498.92 | 497.96 | 505.87 |
| #2 | 1002.9 | 497.82 | 1009.5 | 999.60 | 497.55 | 497.95 | 508.35 |
| #3 | 1006.9 | 502.29 | 1018.3 | 1001.1 | 505.37 | 500.75 | 513.89 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 2.516 | 2.586 |
| SDev | .014 | .016 |
| %RSD | .5705 | .6090 |
| #1 | 2.503 | 2.570 |
| #2 | 2.515 | 2.587 |
| #3 | 2.532 | 2.602 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

Method: CLP1 Sample Name: ICB1 Operator:
Run Time: 09/22/95 13:12:29
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .54243 | .0050 | .73428 | .0022 | .0010 | .0009 | .0214 |
| SDev | .45673 | .0021 | .49378 | .0004 | .0002 | .0002 | .0045 |
| %RSD | 84.200 | 42.20 | 67.247 | 16.26 | 19.49 | 27.96 | 20.92 |
| #1 | .50619 | .0059 | .27141 | .0024 | .0012 | .0011 | .0263 |
| #2 | .10491 | .0026 | .67738 | .0018 | .0009 | .0008 | .0203 |
| #3 | 1.0162 | .0064 | 1.2540 | .0023 | .0008 | .0006 | .0176 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0009 | .0012 | -.0003 | .0014 | .0178 | .0059 | .0229 |
| SDev | .0002 | .0005 | .0001 | .0001 | .0102 | .0010 | .0042 |
| %RSD | 21.41 | 38.37 | 40.30 | 5.928 | 57.32 | 17.66 | 18.16 |
| #1 | .0011 | .0015 | -.0004 | .0014 | .0188 | .0069 | .0263 |
| #2 | .0008 | .0007 | -.0005 | .0013 | .0072 | .0049 | .0183 |
| #3 | .0007 | .0015 | -.0002 | .0015 | .0275 | .0057 | .0242 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0007 | .0022 | .0202 | .0003 | .40101 | .23180 | .28815 |
| SDev | .0003 | .0008 | .0209 | .0008 | 1.2653 | 1.3282 | .69330 |
| %RSD | 40.03 | 35.05 | 103.3 | 256.7 | 315.52 | 573.02 | 240.61 |
| #1 | .0010 | .0031 | .0090 | .0005 | 1.4835 | -1.2884 | -.36535 |
| #2 | .0006 | .0018 | .0074 | -.0006 | -.99001 | .81573 | .21442 |
| #3 | .0005 | .0018 | .0444 | .0009 | .70957 | 1.1680 | 1.0154 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.58770 | -.70113 | -.32567 | -.71851 | -.18129 | -.96066 | 1.8317 |
| SDev | .35801 | .73701 | 1.82417 | .71875 | .75036 | .88828 | .8297 |
| %RSD | 60.918 | 105.12 | 560.13 | 100.03 | 413.90 | 92.466 | 45.296 |
| #1 | -.86862 | .01433 | -2.4244 | -.09190 | .66125 | -.30865 | 2.0222 |
| #2 | -.18458 | -1.4579 | .56841 | -.56052 | -.42753 | -1.9724 | 2.5496 |
| #3 | -.70988 | -.65977 | .87897 | -1.5031 | -.77760 | -.60094 | .92333 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0011 | .0010 |
| SDev | .0002 | .0003 |
| %RSD | 21.44 | 29.09 |
| #1 | .0009 | .0013 |
| #2 | .0009 | .0009 |
| #3 | .0013 | .0008 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

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Method: CLP1 Sample Name: CRII1 Operator:
Run Time: 09/22/95 13:18:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 18.933 | .0001 | 20.541 | .0021 | .0003 | .0105 | .0066 |
| SDev | .179 | .0023 | .391 | .0002 | .0001 | .0001 | .0014 |
| %RSD | .94763 | 1704. | 1.9012 | 8.063 | 35.76 | .4578 | 21.55 |
| #1 | 18.830 | -.0022 | 20.109 | .0020 | .0003 | .0105 | .0081 |
| #2 | 18.829 | .0024 | 20.644 | .0020 | .0003 | .0106 | .0066 |
| #3 | 19.140 | .0002 | 20.870 | .0023 | .0002 | .0105 | .0052 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0103 | .1000 | .0189 | .0507 | .0117 | .0014 | .0080 |
| SDev | .0000 | .0006 | .0001 | .0003 | .0025 | .0005 | .0008 |
| %RSD | .3182 | .6179 | .6321 | .4856 | 21.08 | 33.15 | 10.64 |
| #1 | .0103 | .0993 | .0190 | .0504 | .0132 | .0018 | .0088 |
| #2 | .0103 | .1005 | .0189 | .0509 | .0131 | .0015 | .0080 |
| #3 | .0103 | .1002 | .0188 | .0508 | .0089 | .0009 | .0071 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0303 | .0006 | .0125 | .0793 | 7.7936 | 5.1669 | 6.0416 |
| SDev | .0001 | .0007 | .0080 | .0003 | 1.9234 | .6999 | .2049 |
| %RSD | .2401 | 121.5 | 64.44 | .4390 | 24.679 | 13.546 | 3.3907 |
| #1 | .0302 | .0011 | .0044 | .0789 | 8.4749 | 4.7717 | 6.0049 |
| #2 | .0304 | .0009 | .0205 | .0796 | 9.2835 | 4.7540 | 6.2623 |
| #3 | .0303 | -.0002 | .0125 | .0793 | 5.6223 | 5.9750 | 5.8576 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 124.65 | 9.1679 | 122.22 | 125.87 | 9.6102 | 8.9470 | 21.156 |
| SDev | 1.76 | 1.0606 | .34 | 2.47 | .7995 | 1.2661 | .899 |
| %RSD | 1.4121 | 11.569 | .28012 | 1.9629 | 8.3189 | 14.151 | 4.2508 |
| #1 | 123.80 | 10.153 | 122.00 | 124.71 | 10.530 | 9.9655 | 21.136 |
| #2 | 123.48 | 9.3048 | 122.05 | 124.19 | 9.2221 | 9.3461 | 20.268 |
| #3 | 126.68 | 8.0454 | 122.62 | 128.71 | 9.0789 | 7.5295 | 22.066 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0999 | .0429 |
| SDev | .0005 | .0003 |
| %RSD | .5309 | .6497 |
| #1 | .0994 | .0426 |
| #2 | .0999 | .0432 |
| #3 | .1004 | .0429 |

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Method: CLP1 Sample Name: ICSAI1 Operator:
Run Time: 09/22/95 13:23:52
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.26829 | 498.5 | 3.3478 | .0032 | .0058 | .0006 | 500.5 |
| SDev | .25488 | 1.0 | .6275 | .0007 | .0000 | .0000 | .6 |
| %RSD | 95.000 | .1938 | 18.743 | 20.77 | .3741 | .7179 | .1243 |
| #1 | -.34059 | 499.3 | 4.0024 | .0037 | .0058 | .0006 | 499.8 |
| #2 | -.47920 | 498.8 | 2.7515 | .0035 | .0058 | .0006 | 501.0 |
| #3 | .01493 | 497.4 | 3.2896 | .0024 | .0058 | .0006 | 500.7 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 600.0 | | | .2000 | .0050 | 600.0 |
| Low | -10.000 | 400.0 | | | -.2000 | -.0050 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0014 | .0020 | .0005 | .0011 | 199.3 | .0005 | 503.5 |
| SDev | .0001 | .0003 | .0004 | .0001 | .1 | .0004 | .4 |
| %RSD | 5.225 | 12.81 | 96.79 | 10.05 | .0511 | 78.29 | .0742 |
| #1 | -.0015 | .0018 | -.0000 | .0012 | 199.2 | .0001 | 503.1 |
| #2 | -.0013 | .0019 | .0006 | .0010 | 199.4 | .0005 | 503.9 |
| #3 | -.0014 | .0023 | .0008 | .0010 | 199.2 | .0009 | 503.6 |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass |
| High | .0050 | | .0100 | | 240.0 | | 600.0 |
| Low | -.0050 | | -.0100 | | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | H.0163 | -.0030 | .0218 | -.0003 | -12.909 | 4.7031 | -1.1618 |
| SDev | .0000 | .0006 | .0130 | .0003 | 3.921 | 2.5558 | .5442 |
| %RSD | .2371 | 20.04 | 59.59 | 100.6 | 30.375 | 54.342 | 46.841 |
| #1 | H.0163 | -.0024 | .0100 | -.0006 | -12.136 | 3.4987 | -1.7076 |
| #2 | H.0162 | -.0031 | .0196 | -.0005 | -9.4324 | 2.9721 | -1.1586 |
| #3 | H.0163 | -.0036 | .0357 | .0001 | -17.160 | 7.6386 | -.61923 |
| Errors | LC High | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | | .0400 | | | 6.0000 |
| Low | -.0150 | | | -.0400 | | | -6.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -2.6200 | -2.5900 | -2.5704 | -2.6448 | -2.2750 | -2.7473 | -4.6726 |
| SDev | .1296 | 1.6207 | .4311 | .4059 | 3.1561 | .9750 | 2.9803 |
| %RSD | 4.9460 | 62.575 | 16.772 | 15.346 | 138.73 | 35.489 | 63.782 |
| #1 | -2.4878 | -.72048 | -2.9330 | -2.2656 | 1.2996 | -1.7290 | -2.0950 |
| #2 | -2.6254 | -3.5974 | -2.6843 | -2.5960 | -3.4476 | -3.6722 | -3.9869 |
| #3 | -2.7468 | -3.4521 | -2.0937 | -3.0729 | -4.6771 | -2.8406 | -7.9360 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0020 | H.0230 |
| SDev | .0002 | .0001 |
| %RSD | 9.424 | .4675 |
| #1 | .0019 | H.0229 |
| #2 | .0020 | H.0231 |
| #3 | .0022 | H.0230 |

| Errors | LC Pass | LC High |
|---|---|---|
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Fri 09-22-95 01:35:16 PM page 1

Method: CLP1 Sample Name: ICSABI1 Operator:
Run Time: 09/22/95 13:29:40
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 1069.8 | 513.5 | 1041.3 | .0042 | .5516 | .5243 | 518.3 |
| SDev | 4.9 | 2.3 | 6.4 | .0005 | .0024 | .0024 | 2.5 |
| %RSD | .45830 | .4383 | .61849 | 12.34 | .4371 | .4492 | .4798 |
| #1 | 1075.5 | 516.1 | 1046.6 | .0048 | .5544 | .5270 | 521.2 |
| #2 | 1067.2 | 512.4 | 1034.1 | .0039 | .5502 | .5232 | 517.1 |
| #3 | 1066.9 | 512.0 | 1043.1 | .0040 | .5503 | .5227 | 516.7 |
| Errors | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 600.0 | 1200.0 | | .6000 | .6000 | 600.0 |
| Low | 800.00 | 400.0 | 800.00 | | .4000 | .4000 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9663 | .5046 | .5027 | .5599 | 207.2 | .0005 | 519.7 |
| SDev | .0043 | .0019 | .0022 | .0032 | .8 | .0003 | 2.1 |
| %RSD | .4435 | .3760 | .4426 | .5619 | .4087 | 61.35 | .3972 |
| #1 | .9711 | .5067 | .5052 | .5635 | 208.2 | .0002 | 522.1 |
| #2 | .9649 | .5032 | .5019 | .5585 | 206.8 | .0006 | 518.6 |
| #3 | .9629 | .5038 | .5010 | .5577 | 206.7 | .0008 | 518.4 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass |
| High | 1.200 | .6000 | .6000 | .6000 | 240.0 | | 600.0 |
| Low | .8000 | .4000 | .4000 | .4000 | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .5370 | -.0028 | .0419 | .9825 | 966.91 | 1002.3 | 990.49 |
| SDev | .0023 | .0005 | .0039 | .0038 | 8.21 | 3.2 | 3.33 |
| %RSD | .4243 | 18.28 | 9.327 | .3832 | .84886 | .31758 | .33661 |
| #1 | .5396 | -.0032 | .0460 | .9868 | 974.64 | 1004.2 | 994.34 |
| #2 | .5357 | -.0022 | .0414 | .9806 | 967.81 | 998.59 | 988.34 |
| #3 | .5356 | -.0030 | .0382 | .9801 | 958.30 | 1004.0 | 988.81 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .6000 | | | 1.200 | | | 1200.0 |
| Low | .4000 | | | .8000 | | | 800.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | .84116 | 1025.0 | .24479 | 1.1389 | 1028.5 | 1023.2 | 991.08 |
| SDev | 2.6238 | 3.3 | 2.5608 | 3.3571 | 2.7 | 3.6 | 6.23 |
| %RSD | 311.93 | .31756 | 1046.1 | 294.76 | .25989 | .34763 | .62843 |
| #1 | -.17936 | 1028.3 | -2.6004 | 1.0293 | 1031.0 | 1026.9 | 997.85 |
| #2 | 3.8219 | 1021.8 | 2.3647 | 4.5494 | 1025.7 | 1019.8 | 989.81 |
| #3 | -1.1191 | 1025.0 | .97002 | -2.1620 | 1028.9 | 1023.0 | 985.59 |
| Errors | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | | 1200.0 | | | | | 1200.0 |

| | | | |
|---|---|---|---|
| Low | | 800.00 | 800.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .5303 | 1.103 |
| SDev | .0020 | .005 |
| %RSD | .3742 | .4570 |
| #1 | .5325 | 1.109 |
| #2 | .5291 | 1.101 |
| #3 | .5291 | 1.100 |
| Errors | LC Pass | LC Pass |
| High | .6000 | 1.200 |
| Low | .4000 | .8000 |

Analysis Report Fri 09-22-95 01:41:01 PM page 1

Method: CLP1 Sample Name: CCV1 Operator:
Run Time: 09/22/95 13:35:25
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 955.88 | 50.72 | 498.52 | 2.473 | 2.482 | 2.497 | 48.23 |
| SDev | 12.48 | .69 | 5.61 | .033 | .034 | .034 | .67 |
| %RSD | 1.3053 | 1.368 | 1.1249 | 1.321 | 1.357 | 1.347 | 1.395 |
| #1 | 942.40 | 49.97 | 492.38 | 2.437 | 2.446 | 2.461 | 47.53 |
| #2 | 958.20 | 50.84 | 499.79 | 2.480 | 2.486 | 2.501 | 48.28 |
| #3 | 967.03 | 51.34 | 503.38 | 2.501 | 2.513 | 2.528 | 48.87 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.407 | 2.430 | 2.435 | 2.491 | 50.29 | 82.64 | 49.37 |
| SDev | .032 | .034 | .034 | .032 | .71 | 1.27 | .65 |
| %RSD | 1.347 | 1.380 | 1.406 | 1.272 | 1.404 | 1.538 | 1.313 |
| #1 | 2.372 | 2.395 | 2.399 | 2.456 | 49.55 | 81.23 | 48.70 |
| #2 | 2.412 | 2.434 | 2.439 | 2.498 | 50.37 | 82.99 | 49.43 |
| #3 | 2.437 | 2.462 | 2.468 | 2.518 | 50.96 | 83.70 | 49.99 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.453 | 2.456 | 79.01 | 2.418 | 482.24 | 482.88 | 482.66 |
| SDev | .033 | .033 | 1.08 | .034 | 5.51 | 7.08 | 6.51 |
| %RSD | 1.352 | 1.360 | 1.369 | 1.397 | 1.1429 | 1.4659 | 1.3480 |
| #1 | 2.418 | 2.422 | 77.84 | 2.382 | 476.83 | 475.01 | 475.62 |
| #2 | 2.456 | 2.458 | 79.22 | 2.423 | 482.05 | 484.87 | 483.93 |
| #3 | 2.484 | 2.488 | 79.98 | 2.449 | 487.85 | 488.74 | 488.45 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 974.03 | 490.90 | 981.28 | 970.41 | 492.50 | 490.10 | 496.77 |
| SDev. | 9.76 | 6.72 | 16.07 | 6.61 | 6.08 | 7.16 | 7.36 |
| %RSD | 1.0019 | 1.3680 | 1.6375 | .68100 | 1.2344 | 1.4606 | 1.4826 |
| #1 | 963.01 | 483.50 | 963.16 | 962.94 | 486.50 | 482.00 | 490.09 |
| #2 | 977.48 | 492.60 | 986.88 | 972.79 | 492.36 | 492.73 | 495.56 |
| #3 | 981.59 | 496.60 | 993.80 | 975.49 | 498.65 | 495.58 | 504.67 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 2.452 | 2.514 |
| SDev | .034 | .033 |
| %RSD | 1.386 | 1.320 |
| #1 | 2.417 | 2.478 |
| #2 | 2.456 | 2.520 |
| #3 | 2.484 | 2.543 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

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Method: CLP1 Sample Name: CCB1 Operator:
Run Time: 09/22/95 13:41:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .56710 | .0391 | 1.7130 | .0024 | .0008 | .0007 | .0470 |
| SDev | .09199 | .0149 | .8351 | .0005 | .0002 | .0002 | .0150 |
| %RSD | 16.221 | 38.12 | 48.752 | 20.56 | 23.91 | 28.85 | 31.98 |
| #1 | .65926 | .0545 | 2.6025 | .0027 | .0010 | .0009 | .0629 |
| #2 | .47529 | .0378 | 1.5906 | .0026 | .0008 | .0007 | .0450 |
| #3 | .56676 | .0248 | .94581 | .0018 | .0006 | .0005 | .0330 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | .0015 | -.0003 | .0008 | .0298 | .0049 | .0531 |
| SDev | .0002 | .0001 | .0003 | .0002 | .0043 | .0010 | .0137 |
| %RSD | 27.27 | 5.624 | 96.43 | 22.52 | 14.37 | 20.60 | 25.77 |
| #1 | .0010 | .0014 | -.0003 | .0010 | .0325 | .0057 | .0667 |
| #2 | .0007 | .0015 | -.0000 | .0007 | .0321 | .0053 | .0532 |
| #3 | .0006 | .0014 | -.0006 | .0007 | .0248 | .0038 | .0393 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0005 | .0016 | .0136 | .0001 | .63334 | .44194 | .50568 |
| SDev | .0002 | .0004 | .0080 | .0001 | 1.4338 | .76189 | .09102 |
| %RSD | 37.64 | 28.44 | 58.54 | 51.64 | 226.38 | 172.40 | 18.000 |
| #1 | .0007 | .0020 | .0051 | .0002 | .61772 | .29769 | .40426 |
| #2 | .0005 | .0011 | .0208 | .0002 | 2.0748 | -.23751 | .53250 |
| #3 | .0003 | .0017 | .0149 | .0001 | -.79254 | 1.2657 | .58027 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.25087 | -.41068 | -.03307 | -.35960 | -.92953 | -.15165 | 3.1209 |
| SDev | .42914 | .19250 | 1.52364 | .80785 | 1.68017 | .59208 | 1.6568 |
| %RSD | 171.07 | 46.873 | 4607.1 | 224.65 | 180.75 | 390.42 | 53.086 |
| #1 | -.64352 | -.46306 | -1.5237 | -.20409 | -.52453 | -.43237 | 3.7211 |
| #2 | .20725 | -.19742 | -.09711 | .35920 | .51112 | -.55116 | 4.3940 |
| #3 | -.31633 | -.57158 | 1.5216 | -1.2339 | -2.7752 | .52857 | 1.2477 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

M 0060

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0011 | .0007 |
| SDev | .0001 | .0002 |
| %RSD | 10.85 | 29.99 |
| #1 | .0010 | .0009 |
| #2 | .0011 | .0008 |
| #3 | .0012 | .0005 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Method: CLP1 Sample Name: PBW1 Operator:
Run Time: 09/22/95 13:46:55
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .27779 | .0080 | .60860 | .0143 | .0003 | .0002 | .1444 |
| SDev | .16317 | .0022 | 1.0105 | .0001 | .0000 | .0001 | .0024 |
| %RSD | 58.739 | 27.19 | 166.03 | .8260 | 12.18 | 32.30 | 1.697 |
| #1 | .10798 | .0104 | .61152 | .0141 | .0002 | .0002 | .1472 |
| #2 | .29201 | .0063 | -.40333 | .0143 | .0002 | .0001 | .1437 |
| #3 | .43338 | .0071 | 1.6176 | .0144 | .0003 | .0001 | .1424 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | .0006 | -.0013 | .0004 | .0110 | .0015 | .0172 |
| SDev | .0001 | .0005 | .0003 | .0002 | .0054 | .0004 | .0017 |
| %RSD | 35.52 | 79.76 | 25.85 | 44.53 | 49.20 | 28.50 | 9.906 |
| #1 | .0003 | .0000 | -.0016 | .0002 | .0109 | .0011 | .0191 |
| #2 | .0003 | .0008 | -.0013 | .0004 | .0056 | .0015 | .0159 |
| #3 | .0001 | .0008 | -.0009 | .0005 | .0164 | .0020 | .0166 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0002 | .0006 | .0093 | -.0009 | -.06161 | -.24424 | -.18343 |
| SDev | .0001 | .0001 | .0138 | .0003 | 2.11771 | .54844 | .48958 |
| %RSD | 42.22 | 16.95 | 149.4 | 31.23 | 3437.0 | 224.55 | 266.91 |
| #1 | -.0001 | .0006 | .0015 | -.0007 | 1.7994 | -.34227 | .37091 |
| #2 | -.0002 | .0006 | .0011 | -.0013 | -2.3659 | .34661 | -.55664 |
| #3 | -.0003 | .0007 | .0252 | -.0008 | .38158 | -.73706 | -.36455 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | .58604 | -1.1105 | -1.7864 | 1.7705 | 1.8730 | -2.6001 | 2.1449 |
| SDev | 1.1536 | .7565 | .8208 | 1.8336 | 1.8939 | .9251 | .8180 |
| %RSD | 196.84 | 68.120 | 45.946 | 103.56 | 101.12 | 35.578 | 38.135 |
| #1 | -.62354 | -.45135 | -1.2703 | -.30063 | 4.0208 | -2.6841 | 2.1626 |
| #2 | 1.6739 | -.94375 | -1.3560 | 3.1866 | .44260 | -1.6359 | 1.3183 |
| #3 | .70773 | -1.9365 | -2.7329 | 2.4255 | 1.1556 | -3.4803 | 2.9539 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0003 | .0089 |
| SDev | .0003 | .0001 |
| %RSD | 82.48 | 1.092 |
| #1 | .0000 | .0089 |
| #2 | .0006 | .0088 |
| #3 | .0004 | .0090 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

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Method: CLP1 Sample Name: PBW2 Operator:
Run Time: 09/22/95 13:52:41
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .36962 | -.0016 | .37042 | .0087 | .0002 | .0001 | .0898 |
| SDev | .69329 | .0024 | .78394 | .0003 | .0001 | .0000 | .0010 |
| %RSD | 187.57 | 150.6 | 211.64 | 3.340 | 23.29 | 63.19 | 1.167 |
| #1 | .42981 | -.0033 | -.47237 | .0086 | .0002 | .0001 | .0902 |
| #2 | -.35179 | -.0027 | .50571 | .0085 | .0002 | .0001 | .0905 |
| #3 | 1.0309 | .0012 | 1.0779 | .0091 | .0001 | .0000 | .0886 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | .0003 | -.0015 | .0006 | .0027 | .0010 | .0081 |
| SDev | .0001 | .0002 | .0003 | .0004 | .0055 | .0002 | .0020 |
| %RSD | 67.16 | 49.61 | 17.67 | 71.54 | 203.8 | 25.63 | 24.64 |
| #1 | .0002 | .0005 | -.0013 | .0006 | .0018 | .0010 | .0079 |
| #2 | .0001 | .0004 | -.0014 | .0002 | .0086 | .0012 | .0101 |
| #3 | .0003 | .0002 | -.0018 | .0011 | -.0023 | .0007 | .0062 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0003 | .0005 | .0028 | -.0013 | .40653 | .09843 | .20103 |
| SDev | .0001 | .0003 | .0011 | .0004 | .71623 | .59693 | .26451 |
| %RSD | 25.67 | 55.83 | 40.48 | 29.09 | 176.18 | 606.45 | 131.58 |
| #1 | -.0002 | .0005 | .0017 | -.0011 | -.31647 | .34466 | .12450 |
| #2 | -.0003 | .0002 | .0026 | -.0010 | 1.1158 | -.58222 | -.01678 |
| #3 | -.0002 | .0007 | .0040 | -.0017 | .42026 | .53285 | .49536 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.39488 | -.93745 | -1.2451 | .02960 | 1.7574 | -2.2828 | .21965 |
| SDev | .77282 | 2.44694 | .8698 | 1.5655 | 2.8342 | 2.2552 | .76264 |
| %RSD | 195.71 | 261.02 | 69.861 | 5289.4 | 161.28 | 98.788 | 347.20 |
| #1 | .18860 | -.80869 | -1.5369 | 1.0500 | 1.7850 | -2.1036 | -.59304 |
| #2 | -1.2714 | 1.4426 | -.26690 | -1.7728 | 4.5777 | -.12264 | .91971 |
| #3 | -.10188 | -3.4462 | -1.9316 | .81160 | -1.0906 | -4.6223 | .33228 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0003 | .0026 |
| SDev | .0003 | .0000 |
| %RSD | 82.51 | .9114 |
| #1 | .0006 | .0025 |
| #2 | .0000 | .0025 |
| #3 | .0004 | .0026 |

Method: CLP1 Sample Name: LCSW1 Operator:
Run Time: 09/22/95 13:58:21
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 971.32 | 49.29 | 520.30 | 2.382 | 2.377 | 2.448 | 47.47 |
| SDev | 1.56 | .07 | 1.48 | .002 | .003 | .003 | .09 |
| %RSD | .16052 | .1460 | .28430 | .1027 | .1432 | .1290 | .1841 |
| #1 | 969.52 | 49.21 | 518.66 | 2.379 | 2.373 | 2.444 | 47.38 |
| #2 | 972.20 | 49.32 | 521.53 | 2.383 | 2.380 | 2.449 | 47.47 |
| #3 | 972.24 | 49.35 | 520.70 | 2.383 | 2.378 | 2.450 | 47.56 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 60.00 | 600.00 | 3.000 | 3.000 | 3.000 | 60.00 |
| Low | 800.00 | 40.00 | 400.00 | 2.000 | 2.000 | 2.000 | 40.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.310 | 2.330 | 2.338 | 2.387 | 47.85 | 76.90 | 47.97 |
| SDev | .003 | .003 | .003 | .003 | .07 | .19 | .05 |
| %RSD | .1267 | .1330 | .1438 | .1143 | .1414 | .2428 | .1079 |
| #1 | 2.307 | 2.326 | 2.334 | 2.384 | 47.78 | 76.69 | 47.91 |
| #2 | 2.311 | 2.330 | 2.340 | 2.389 | 47.85 | 76.98 | 47.97 |
| #3 | 2.312 | 2.333 | 2.341 | 2.387 | 47.91 | 77.03 | 48.02 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 3.000 | 3.000 | 3.000 | 3.000 | 60.00 | 96.00 | 60.00 |
| Low | 2.000 | 2.000 | 2.000 | 2.000 | 40.00 | 64.00 | 40.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.356 | 2.356 | 77.38 | 2.317 | 509.07 | 511.53 | 510.71 |
| SDev | .004 | .005 | .14 | .001 | 2.45 | 3.35 | 1.90 |
| %RSD | .1525 | .2184 | .1792 | .0614 | .48219 | .65541 | .37283 |
| #1 | 2.352 | 2.350 | 77.22 | 2.315 | 509.30 | 508.16 | 508.54 |
| #2 | 2.357 | 2.358 | 77.44 | 2.316 | 506.50 | 514.86 | 512.08 |
| #3 | 2.359 | 2.360 | 77.48 | 2.318 | 511.40 | 511.58 | 511.52 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 3.000 | | 96.00 | 3.000 | | | 600.00 |
| Low | 2.000 | | 64.00 | 2.000 | | | 400.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 990.52 | 506.97 | 998.66 | 986.45 | 507.83 | 506.54 | 519.44 |
| SDev | .42 | .61 | 2.48 | 1.18 | 3.46 | 2.61 | 1.21 |
| %RSD | .04194 | .12000 | .24801 | .11928 | .68215 | .51513 | .23324 |
| #1 | 990.69 | 506.77 | 996.53 | 987.78 | 507.61 | 506.36 | 518.73 |
| #2 | 990.82 | 507.65 | 1001.4 | 985.55 | 504.47 | 509.23 | 518.74 |
| #3 | 990.04 | 506.48 | 998.08 | 986.03 | 511.39 | 504.02 | 520.84 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1200.0 | 600.00 | | | | | 600.00 |

| | | | |
|---|---|---|---|
| Low | 800.00 | 400.00 | 400.00 |

| | | |
|---|---|---|
| Elem | V | Zn |
| Units | ppm | ppm |
| Avge | 2.353 | 2.414 |
| SDev | .004 | .002 |
| %RSD | .1801 | .1000 |
| #1 | 2.348 | 2.412 |
| #2 | 2.354 | 2.416 |
| #3 | 2.356 | 2.416 |
| Errors | LC Pass | LC Pass |
| High | 3.000 | 3.000 |
| Low | 2.000 | 2.000 |

Method: CLP1 Sample Name: LCSW2 Operator:
Run Time: 09/22/95 14:04:03
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 963.15 | 48.79 | 515.00 | 2.348 | 2.354 | 2.421 | 47.03 |
| SDev | .68 | .09 | .50 | .002 | .005 | .002 | .05 |
| %RSD | .07044 | .1808 | .09721 | .0799 | .2098 | .0652 | .1012 |
| #1 | 962.71 | 48.72 | 515.03 | 2.346 | 2.349 | 2.421 | 47.03 |
| #2 | 962.82 | 48.77 | 514.49 | 2.349 | 2.353 | 2.420 | 46.98 |
| #3 | 963.93 | 48.89 | 515.49 | 2.349 | 2.359 | 2.423 | 47.08 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 60.00 | 600.00 | 3.000 | 3.000 | 3.000 | 60.00 |
| Low | 800.00 | 40.00 | 400.00 | 2.000 | 2.000 | 2.000 | 40.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.290 | 2.309 | 2.315 | 2.357 | 47.41 | 76.23 | 47.57 |
| SDev | .001 | .002 | .001 | .002 | .04 | .16 | .04 |
| %RSD | .0615 | .0710 | .0448 | .1037 | .0818 | .2132 | .0861 |
| #1 | 2.292 | 2.309 | 2.315 | 2.354 | 47.39 | 76.05 | 47.55 |
| #2 | 2.289 | 2.307 | 2.315 | 2.358 | 47.38 | 76.28 | 47.54 |
| #3 | 2.289 | 2.310 | 2.317 | 2.359 | 47.45 | 76.36 | 47.62 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 3.000 | 3.000 | 3.000 | 3.000 | 60.00 | 96.00 | 60.00 |
| Low | 2.000 | 2.000 | 2.000 | 2.000 | 40.00 | 64.00 | 40.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.334 | 2.337 | 76.57 | 2.293 | 501.30 | 508.94 | 506.39 |
| SDev | .001 | .002 | .11 | .000 | 1.57 | 1.73 | 1.67 |
| %RSD | .0613 | .0999 | .1437 | .0197 | .31395 | .33894 | .32968 |
| #1 | 2.334 | 2.336 | 76.44 | 2.294 | 499.61 | 506.98 | 504.53 |
| #2 | 2.333 | 2.336 | 76.65 | 2.293 | 501.58 | 509.57 | 506.91 |
| #3 | 2.336 | 2.340 | 76.60 | 2.294 | 502.72 | 510.25 | 507.75 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 3.000 | | 96.00 | 3.000 | | | 600.00 |
| Low | 2.000 | | 64.00 | 2.000 | | | 400.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 983.37 | 504.39 | 989.49 | 980.31 | 505.60 | 503.78 | 514.98 |
| SDev | 2.99 | 1.19 | 1.96 | 3.56 | 2.49 | 1.68 | .94 |
| %RSD | .30377 | .23658 | .19787 | .36357 | .49169 | .33320 | .18192 |
| #1 | 982.08 | 503.64 | 988.03 | 979.10 | 502.75 | 504.09 | 514.61 |
| #2 | 981.24 | 503.75 | 988.73 | 977.50 | 507.32 | 501.97 | 514.28 |
| #3 | 986.78 | 505.76 | 991.72 | 984.32 | 506.72 | 505.29 | 516.04 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1200.0 | 600.00 | | | | | 600.00 |

| | | | |
|---|---|---|---|
| Low | 800.00 | 400.00 | 400.00 |

| | | |
|---|---|---|
| Elem | V | Zn |
| Units | ppm | ppm |
| Avge | 2.332 | 2.390 |
| SDev | .004 | .001 |
| %RSD | .1562 | .0447 |
| #1 | 2.330 | 2.390 |
| #2 | 2.329 | 2.388 |
| #3 | 2.336 | 2.390 |
| Errors | LC Pass | LC Pass |
| High | 3.000 | 3.000 |
| Low | 2.000 | 2.000 |

Analysis Report Fri 09-22-95 02:15:24 PM page 1

Method: CLP1 Sample Name: A84201 Operator:
Run Time: 09/22/95 14:09:48
Comment: 9525471 Cut 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .53820 | 3.159 | 4.4199 | .0619 | .0531 | .0009 | 21.93 |
| SDev | .51378 | .010 | .8234 | .0009 | .0001 | .0002 | .03 |
| %RSD | 95.462 | .3101 | 18.630 | 1.463 | .2532 | 18.59 | .1308 |
| #1 | 1.1020 | 3.170 | 5.0508 | .0630 | .0533 | .0011 | 21.96 |
| #2 | .41619 | 3.150 | 4.7203 | .0616 | .0531 | .0009 | 21.91 |
| #3 | .09641 | 3.158 | 3.4884 | .0613 | .0531 | .0008 | 21.91 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0004 | .0105 | .0047 | .0110 | 18.93 | 2.085 | 4.031 |
| SDev | .0002 | .0002 | .0003 | .0004 | .02 | .003 | .010 |
| %RSD | 53.77 | 1.512 | 5.274 | 3.923 | .0825 | .1287 | .2541 |
| #1 | .0006 | .0106 | .0049 | .0115 | 18.95 | 2.088 | 4.042 |
| #2 | .0005 | .0107 | .0047 | .0109 | 18.92 | 2.084 | 4.028 |
| #3 | .0002 | .0103 | .0044 | .0106 | 18.92 | 2.083 | 4.022 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .3424 | .0010 | 15.97 | .0139 | 21.005 | 23.375 | 22.586 |
| SDev | .0003 | .0012 | .00 | .0001 | 1.652 | 1.116 | .449 |
| %RSD | .0848 | 110.6 | .0260 | .6112 | 7.8650 | 4.7724 | 1.9880 |
| #1 | .3427 | .0024 | 15.97 | .0139 | 22.395 | 23.155 | 22.902 |
| #2 | .3423 | .0005 | 15.96 | .0138 | 19.179 | 24.585 | 22.785 |
| #3 | .3421 | .0003 | 15.97 | .0139 | 21.442 | 22.387 | 22.072 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -1.2369 | 1.9678 | -.00914 | -1.8498 | 1.8346 | 2.0343 | 2.4527 |
| SDev | .3292 | 1.1524 | 1.49556 | .7815 | 1.9894 | .7749 | .3669 |
| %RSD | 26.614 | 58.563 | 16360. | 42.248 | 108.44 | 38.092 | 14.958 |
| #1 | -.85916 | 2.7697 | .24718 | -1.4115 | 3.5381 | 2.3861 | 2.1059 |
| #2 | -1.3889 | 2.4866 | 1.3417 | -2.7521 | 2.3175 | 2.5710 | 2.8368 |
| #3 | -1.4626 | .64720 | -1.6163 | -1.3859 | -.35174 | 1.1459 | 2.4153 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0106 | .0508 |
| SDev | .0003 | .0001 |
| %RSD | 3.254 | .2725 |
| #1 | .0110 | .0509 |
| #2 | .0106 | .0508 |
| #3 | .0103 | .0507 |

Analysis Report Fri 09-22-95 02:21:02 PM page 1

Method: CLP1 Sample Name: A84202 Operator:
Run Time: 09/22/95 14:15:27
Comment: 9525472 CUZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.50888 | 8.150 | 9.0618 | .0587 | .0927 | .0009 | 25.58 |
| SDev | .26308 | .042 | .3476 | .0001 | .0005 | .0000 | .13 |
| %RSD | 51.698 | .5137 | 3.8360 | .2043 | .5101 | 4.666 | .5043 |
| #1 | -.50862 | 8.117 | 8.6735 | .0585 | .0925 | .0009 | 25.45 |
| #2 | -.77209 | 8.135 | 9.1681 | .0587 | .0924 | .0009 | 25.57 |
| #3 | -.24592 | 8.197 | 9.3439 | .0588 | .0932 | .0008 | 25.71 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0008 | .0401 | .0149 | .0183 | 44.80 | 3.432 | 5.037 |
| SDev | .0001 | .0001 | .0002 | .0003 | .23 | .015 | .022 |
| %RSD | 8.113 | .3542 | 1.123 | 1.900 | .5045 | .4343 | .4459 |
| #1 | -.0008 | .0400 | .0149 | .0181 | 44.59 | 3.425 | 5.015 |
| #2 | -.0009 | .0403 | .0151 | .0180 | 44.78 | 3.421 | 5.035 |
| #3 | -.0008 | .0401 | .0147 | .0186 | 45.04 | 3.449 | 5.060 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 1.394 | .0009 | 15.67 | .0324 | 18.433 | 18.249 | 18.310 |
| SDev | .007 | .0000 | .09 | .0001 | 1.371 | 1.816 | 1.007 |
| %RSD | .5079 | 4.758 | .5452 | .2357 | 7.4396 | 9.9514 | 5.4981 |
| #1 | 1.388 | .0009 | 15.61 | .0323 | 19.377 | 16.152 | 17.226 |
| #2 | 1.392 | .0009 | 15.64 | .0324 | 16.860 | 19.303 | 18.490 |
| #3 | 1.401 | .0009 | 15.77 | .0325 | 19.062 | 19.292 | 19.215 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -2.0232 | .49010 | -.94602 | -2.5610 | 1.3297 | .07093 | 2.4532 |
| SDev | .8193 | .53846 | 1.06824 | 1.4692 | 1.1263 | 1.3214 | .2508 |
| %RSD | 40.494 | 109.87 | 112.92 | 57.368 | 84.701 | 1863.0 | 10.225 |
| #1 | -1.2669 | .58061 | -1.9326 | -.93454 | 1.8304 | -.04334 | 2.5022 |
| #2 | -1.9092 | -.08789 | .18846 | -2.9565 | 2.1188 | -1.1896 | 2.1815 |
| #3 | -2.8935 | .97757 | -1.0939 | -3.7920 | .03990 | 1.4457 | 2.6760 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0324 | .0701 |
| SDev | .0003 | .0003 |
| %RSD | 1.073 | .4896 |
| #1 | .0320 | .0698 |
| #2 | .0325 | .0702 |
| #3 | .0326 | .0704 |

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Method: CLP1 Sample Name: A84203 Operator:
Run Time: 09/22/95 14:21:05
Comment: 95254723 CGZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .29548 | 4.071 | 3.5652 | .0616 | .0618 | .0003 | 24.75 |
| SDev | .40017 | .011 | 1.1318 | .0004 | .0001 | .0000 | .02 |
| %RSD | 135.43 | .2640 | 31.745 | .6064 | .1316 | 5.761 | .0720 |
| #1 | .73831 | 4.078 | 4.8645 | .0620 | .0619 | .0004 | 24.77 |
| #2 | -.04024 | 4.077 | 3.0373 | .0613 | .0618 | .0003 | 24.75 |
| #3 | .18838 | 4.059 | 2.7938 | .0615 | .0618 | .0003 | 24.74 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0004 | .0133 | .0036 | .0064 | 20.49 | 3.496 | 4.043 |
| SDev | .0000 | .0002 | .0001 | .0002 | .02 | .001 | .004 |
| %RSD | 7.835 | 1.515 | 1.797 | 2.712 | .0982 | .0276 | .1013 |
| #1 | -.0003 | .0132 | .0035 | .0066 | 20.51 | 3.497 | 4.047 |
| #2 | -.0004 | .0135 | .0036 | .0063 | 20.49 | 3.495 | 4.045 |
| #3 | -.0004 | .0132 | .0036 | .0062 | 20.47 | 3.495 | 4.039 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .4558 | .0001 | 15.14 | .0134 | 6.3120 | 6.0300 | 6.1239 |
| SDev | .0004 | .0004 | .05 | .0007 | .6032 | .5928 | .5480 |
| %RSD | .0878 | 316.9 | .3450 | 5.544 | 9.5568 | 9.8303 | 8.9481 |
| #1 | .4562 | -.0003 | 15.18 | .0142 | 5.9248 | 6.2131 | 6.1171 |
| #2 | .4557 | .0003 | 15.17 | .0131 | 6.0043 | 5.3673 | 5.5794 |
| #3 | .4554 | .0004 | 15.08 | .0128 | 7.0071 | 6.5096 | 6.6753 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -1.0256 | .02767 | -.19960 | -1.4380 | 1.7900 | -.85217 | 1.7296 |
| SDev | .8967 | 1.2982 | .22217 | 1.2349 | 1.3881 | 2.28017 | .4004 |
| %RSD | 87.432 | 4692.3 | 111.31 | 85.873 | 77.546 | 267.57 | 23.149 |
| #1 | -.20691 | -1.4605 | .02459 | -.32249 | 2.5198 | -3.4476 | 1.5746 |
| #2 | -.88600 | .92771 | -.20368 | -1.2267 | 2.6609 | .06243 | 1.4299 |
| #3 | -1.9840 | .61578 | -.41971 | -2.7650 | .18926 | .82872 | 2.1843 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0102 | .0318 |
| SDev | .0003 | .0002 |
| %RSD | 2.449 | .6572 |
| #1 | .0104 | .0320 |
| #2 | .0099 | .0318 |
| #3 | .0103 | .0316 |

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Method: CLP1 Sample Name: A84204 Operator:
Run Time: 09/22/95 14:26:44
Comment: 9525474 CGZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -2.6803 | 73.69 | 48.068 | .0641 | .3527 | .0050 | 26.30 |
| SDev | .2516 | .19 | .655 | .0003 | .0009 | .0000 | .03 |
| %RSD | 9.3879 | .2540 | 1.3631 | .4533 | .2568 | .2153 | .1290 |
| #1 | -2.7061 | 73.49 | 48.815 | .0638 | .3518 | .0050 | 26.26 |
| #2 | -2.9180 | 73.72 | 47.800 | .0641 | .3528 | .0050 | 26.32 |
| #3 | -2.4167 | 73.86 | 47.589 | .0644 | .3536 | .0050 | 26.32 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0067 | .2640 | .1089 | .1425 | 318.7 | 7.377 | 12.81 |
| SDev | .0002 | .0002 | .0001 | .0004 | .6 | .031 | .02 |
| %RSD | 2.562 | .0835 | .0668 | .3065 | .1831 | .4168 | .1510 |
| #1 | -.0066 | .2638 | .1088 | .1420 | 318.0 | 7.341 | 12.79 |
| #2 | -.0069 | .2640 | .1090 | .1427 | 318.9 | 7.394 | 12.82 |
| #3 | -.0065 | .2642 | .1089 | .1428 | 319.1 | 7.395 | 12.82 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 8.622 | .0035 | 14.21 | .2066 | 90.165 | 95.471 | 93.704 |
| SDev | .014 | .0003 | .03 | .0008 | 2.008 | 1.243 | .485 |
| %RSD | .1638 | 8.151 | .2387 | .4036 | 2.2269 | 1.3016 | .51759 |
| #1 | 8.606 | .0032 | 14.18 | .2056 | 90.789 | 94.349 | 93.164 |
| #2 | 8.629 | .0038 | 14.19 | .2068 | 91.787 | 95.257 | 94.101 |
| #3 | 8.632 | .0036 | 14.24 | .2072 | 87.919 | 96.807 | 93.847 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -4.8860 | 4.3412 | -.95045 | -6.8509 | 10.477 | 1.2782 | 5.6309 |
| SDev | .9950 | .4442 | 1.91794 | 1.0945 | .646 | .9796 | 1.5699 |
| %RSD | 20.364 | 10.232 | 201.79 | 15.976 | 6.1675 | 76.644 | 27.881 |
| #1 | -3.7482 | 3.8477 | .31785 | -5.7781 | 11.108 | .22309 | 4.9386 |
| #2 | -5.5927 | 4.7089 | -3.1569 | -6.8087 | 9.8164 | 2.1590 | 4.5261 |
| #3 | -5.3173 | 4.4671 | -.01232 | -7.9659 | 10.506 | 1.4525 | 7.4280 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1786 | .4002 |
| SDev | .0001 | .0006 |
| %RSD | .0517 | .1607 |
| #1 | .1785 | .3996 |
| #2 | .1787 | .4009 |
| #3 | .1786 | .4001 |

Method: CLP1 Sample Name: A84205 Operator:
Run Time: 09/22/95 14:32:23
Comment: 9525475 CUZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .34312 | 4.463 | 4.8404 | .0646 | .0657 | .0003 | 23.62 |
| SDev | .18527 | .012 | .6508 | .0001 | .0001 | .0000 | .07 |
| %RSD | 53.995 | .2673 | 13.445 | .2081 | .1991 | 1.587 | .2919 |
| #1 | .45036 | 4.476 | 4.5479 | .0645 | .0658 | .0003 | 23.65 |
| #2 | .44982 | 4.457 | 5.5861 | .0647 | .0656 | .0003 | 23.67 |
| #3 | .12919 | 4.454 | 4.3871 | .0644 | .0656 | .0003 | 23.54 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0004 | .0196 | .0070 | .0137 | 24.05 | 2.317 | 4.344 |
| SDev | .0000 | .0003 | .0002 | .0002 | .08 | .006 | .013 |
| %RSD | 11.11 | 1.570 | 3.116 | 1.327 | .3360 | .2498 | .3058 |
| #1 | -.0004 | .0195 | .0071 | .0138 | 24.11 | 2.319 | 4.356 |
| #2 | -.0003 | .0199 | .0072 | .0138 | 24.08 | 2.310 | 4.347 |
| #3 | -.0004 | .0193 | .0068 | .0135 | 23.96 | 2.321 | 4.330 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .5177 | .0006 | 19.97 | .0151 | 9.4477 | 8.5265 | 8.8332 |
| SDev | .0020 | .0004 | .04 | .0001 | .7249 | .3638 | .0139 |
| %RSD | .3901 | 59.14 | .2243 | .8737 | 7.6729 | 4.2672 | .15696 |
| #1 | .5194 | .0007 | 20.02 | .0153 | 10.283 | 8.1063 | 8.8312 |
| #2 | .5183 | .0002 | 19.93 | .0150 | 8.9837 | 8.7390 | 8.8205 |
| #3 | .5154 | .0009 | 19.97 | .0151 | 9.0764 | 8.7340 | 8.8480 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.96668 | .16545 | -1.3808 | -.75996 | 3.2632 | -1.3811 | 2.0014 |
| SDev | .40450 | 1.3180 | .5211 | .81524 | 1.7724 | 1.2433 | 2.0280 |
| %RSD | 41.844 | 796.62 | 37.739 | 107.27 | 54.314 | 90.022 | 101.33 |
| #1 | -.84492 | -.00211 | -1.0954 | -.71989 | 2.1675 | -1.0853 | .09648 |
| #2 | -.63704 | -1.0608 | -1.9822 | .03451 | 2.3141 | -2.7457 | 4.1334 |
| #3 | -1.4181 | 1.5592 | -1.0647 | -1.5945 | 5.3081 | -.31240 | 1.7744 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0125 | .0570 |
| SDev | .0002 | .0001 |
| %RSD | 1.649 | .2653 |
| #1 | .0124 | .0571 |
| #2 | .0127 | .0570 |
| #3 | .0123 | .0568 |

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Method: CLP1 Sample Name: A84206 Operator:
Run Time: 09/22/95 14:38:03
Comment: 95254476 LGZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .05650 | 4.411 | 4.4960 | .1040 | .0775 | .0004 | 31.70 |
| SDev | .27705 | .037 | 1.6984 | .0002 | .0005 | .0000 | .22 |
| %RSD | 490.35 | .8333 | 37.775 | .1721 | .6877 | 5.973 | .6859 |
| #1 | .08926 | 4.452 | 4.5733 | .1042 | .0781 | .0004 | 31.94 |
| #2 | -.23547 | 4.402 | 2.7603 | .1041 | .0774 | .0004 | 31.64 |
| #3 | .31571 | 4.380 | 6.1544 | .1038 | .0771 | .0003 | 31.52 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0004 | .0140 | .0073 | .0120 | 23.33 | 3.271 | 6.096 |
| SDev | .0001 | .0001 | .0000 | .0003 | .18 | .024 | .045 |
| %RSD | 25.03 | .7258 | .5767 | 2.188 | .7523 | .7313 | .7406 |
| #1 | -.0005 | .0141 | .0073 | .0123 | 23.52 | 3.298 | 6.146 |
| #2 | -.0003 | .0140 | .0074 | .0118 | 23.30 | 3.262 | 6.084 |
| #3 | -.0004 | .0139 | .0073 | .0118 | 23.17 | 3.253 | 6.058 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .4391 | .0005 | 24.91 | .0136 | 6.9840 | 6.5442 | 6.6906 |
| SDev | .0033 | .0001 | .17 | .0004 | .6890 | .6409 | .2421 |
| %RSD | .7418 | 25.74 | .6731 | 2.627 | 9.8651 | 9.7937 | 3.6181 |
| #1 | .4427 | .0006 | 25.09 | .0139 | 7.2369 | 6.0281 | 6.4306 |
| #2 | .4383 | .0007 | 24.89 | .0132 | 6.2043 | 7.2616 | 6.9095 |
| #3 | .4363 | .0004 | 24.76 | .0137 | 7.5108 | 6.3428 | 6.7318 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.14867 | -.27694 | -.21498 | -.11557 | 1.0691 | -.94897 | 1.8533 |
| SDev | .41024 | 1.14076 | .98842 | .73272 | .9490 | 2.18027 | 2.2498 |
| %RSD | 275.94 | 411.91 | 459.78 | 634.03 | 88.765 | 229.75 | 121.40 |
| #1 | -.44109 | -.65252 | -1.2026 | -.06091 | 1.5285 | -1.7414 | 1.0152 |
| #2 | -.32520 | 1.0043 | .77422 | -.87409 | -.02216 | 1.5167 | .14281 |
| #3 | .32029 | -1.1826 | -.21654 | .58830 | 1.7011 | -2.6222 | 4.4019 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0124 | .0508 |
| SDev | .0001 | .0005 |
| %RSD | .6056 | .9692 |
| #1 | .0124 | .0512 |
| #2 | .0123 | .0509 |
| #3 | .0125 | .0503 |

Analysis Report Fri 09-22-95 02:49:18 PM page 1

Method: CLP1 Sample Name: CCV2 Operator:
Run Time: 09/22/95 14:43:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 990.92 | 52.55 | 513.36 | 2.552 | 2.579 | 2.597 | 50.32 |
| SDev | 1.11 | .09 | 1.90 | .006 | .005 | .004 | .09 |
| %RSD | .11247 | .1789 | .36997 | .2328 | .1837 | .1471 | .1855 |
| #1 | 989.63 | 52.44 | 511.70 | 2.545 | 2.574 | 2.594 | 50.25 |
| #2 | 991.48 | 52.62 | 512.96 | 2.554 | 2.583 | 2.596 | 50.28 |
| #3 | 991.64 | 52.58 | 515.43 | 2.557 | 2.581 | 2.601 | 50.42 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.494 | 2.528 | 2.530 | 2.563 | 52.32 | 84.88 | 51.18 |
| SDev | .004 | .004 | .004 | .004 | .07 | .27 | .09 |
| %RSD | .1799 | .1411 | .1534 | .1709 | .1419 | .3189 | .1739 |
| #1 | 2.491 | 2.524 | 2.527 | 2.558 | 52.25 | 84.58 | 51.11 |
| #2 | 2.493 | 2.529 | 2.529 | 2.567 | 52.33 | 85.11 | 51.16 |
| #3 | 2.499 | 2.531 | 2.534 | 2.565 | 52.39 | | |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.545 | 2.558 | 81.52 | 2.505 | 499.04 | 503.82 | 502.23 |
| SDev | .004 | .003 | .16 | .004 | 2.17 | 2.08 | 1.58 |
| %RSD | .1556 | .1346 | .2002 | .1747 | .43414 | .41228 | .31362 |
| #1 | 2.541 | 2.558 | 81.44 | 2.502 | 497.69 | 501.78 | 500.42 |
| #2 | 2.545 | 2.555 | 81.71 | 2.503 | 497.89 | 505.93 | 503.25 |
| #3 | 2.549 | 2.562 | 81.41 | 2.510 | 501.54 | 503.76 | 503.02 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1009.6 | 504.85 | 1018.2 | 1005.3 | 508.26 | 503.15 | 510.88 |
| SDev | 4.8 | 2.51 | 2.3 | 6.6 | 2.00 | 3.48 | .50 |
| %RSD | .47817 | .49753 | .22305 | .65322 | .39363 | .69219 | .09853 |
| #1 | 1012.1 | 507.25 | 1020.7 | 1007.7 | 510.22 | 505.77 | 510.44 |
| #2 | 1004.1 | 505.06 | 1016.4 | 997.92 | 506.23 | 504.48 | 511.43 |
| #3 | 1012.7 | 502.24 | 1017.5 | 1010.4 | 508.34 | 499.20 | 510.77 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 2.555 | 2.604 |
| SDev | .003 | .005 |
| %RSD | .1259 | .1816 |
| #1 | 2.551 | 2.599 |
| #2 | 2.555 | 2.604 |
| #3 | 2.558 | 2.608 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

Analysis Report Fri 09-22-95 02:57:43 PM page 1

Method: CLP1 Sample Name: CCB2 Operator:
Run Time: 09/22/95 14:52:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .09427 | .0041 | .64140 | .0014 | .0005 | .0003 | .0137 |
| SDev | .27954 | .0017 | .23029 | .0002 | .0001 | .0001 | .0030 |
| %RSD | 296.52 | 42.40 | 35.904 | 12.20 | 31.06 | 39.81 | 21.65 |
| #1 | -.16847 | .0058 | .66781 | .0013 | .0006 | .0005 | .0169 |
| #2 | .06327 | .0040 | .39905 | .0016 | .0004 | .0003 | .0132 |
| #3 | .38802 | .0024 | .85735 | .0013 | .0004 | .0002 | .0110 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0004 | .0009 | -.0008 | .0008 | .0128 | .0030 | .0147 |
| SDev | .0000 | .0002 | .0001 | .0001 | .0023 | .0007 | .0027 |
| %RSD | 10.88 | 22.12 | 9.974 | 13.82 | 18.02 | 22.78 | 18.37 |
| #1 | .0004 | .0010 | -.0008 | .0008 | .0153 | .0037 | .0178 |
| #2 | .0003 | .0011 | -.0009 | .0007 | .0123 | .0026 | .0134 |
| #3 | .0004 | .0007 | -.0007 | .0009 | .0107 | .0026 | .0129 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0002 | .0008 | .0226 | -.0004 | 2.9059 | -1.2943 | .10433 |
| SDev | .0001 | .0007 | .0089 | .0001 | 1.3129 | 2.2800 | 1.0877 |
| %RSD | 79.17 | 85.52 | 39.28 | 34.87 | 45.180 | 176.15 | 1042.6 |
| #1 | .0003 | .0000 | .0328 | -.0003 | 4.2803 | -3.7937 | -1.1051 |
| #2 | .0001 | .0014 | .0163 | -.0004 | 1.6647 | .67161 | 1.0023 |
| #3 | .0001 | .0010 | .0189 | -.0005 | 2.7726 | -.76089 | .41578 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.28644 | -.67634 | -3.0972 | 1.1168 | .93668 | -1.4816 | .61037 |
| SDev | 1.33027 | .58938 | 2.8830 | 3.3335 | 2.4794 | 1.9392 | .87853 |
| %RSD | 464.42 | 87.142 | 93.083 | 298.47 | 264.70 | 130.88 | 143.93 |
| #1 | 1.1310 | -1.1090 | -6.4110 | 4.8963 | 3.7980 | -3.5588 | -.11390 |
| #2 | -.48249 | -.00507 | -1.1657 | -.14142 | -.57844 | .28118 | 1.5876 |
| #3 | -1.5078 | -.91494 | -1.7149 | -1.4044 | -.40955 | -1.1673 | .35738 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0003 | .0004 |
| SDev | .0003 | .0001 |
| %RSD | 79.10 | 36.21 |
| #1 | .0000 | .0005 |
| #2 | .0005 | .0003 |
| #3 | .0005 | .0003 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Fri 09-22-95 03:03:29 PM page 1

Method: CLP1 Sample Name: A84207 Operator:
Run Time: 09/22/95 14:57:53
Comment: 95J25477 Cwt 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -3.9353 | 95.21 | 63.660 | .0512 | .5817 | .0074 | 31.71 |
| SDev | .2378 | .07 | 2.261 | .0007 | .0003 | .0000 | .03 |
| %RSD | 6.0417 | .0684 | 3.5524 | 1.287 | .0493 | .5331 | .0981 |
| #1 | -3.6681 | 95.26 | 66.170 | .0516 | .5817 | .0074 | 31.75 |
| #2 | -4.1233 | 95.24 | 63.028 | .0515 | .5820 | .0073 | 31.70 |
| #3 | -4.0147 | 95.13 | 61.782 | .0504 | .5814 | .0074 | 31.69 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0086 | .4617 | .1543 | .1904 | 508.3 | 8.991 | 17.34 |
| SDev | .0001 | .0004 | .0006 | .0005 | .4 | .016 | .02 |
| %RSD | .9821 | .0831 | .4170 | .2432 | .0748 | .1726 | .1157 |
| #1 | -.0086 | .4621 | .1550 | .1908 | 508.7 | 9.005 | 17.36 |
| #2 | -.0087 | .4614 | .1538 | .1899 | 508.1 | 8.992 | 17.32 |
| #3 | -.0085 | .4615 | .1541 | .1903 | 508.0 | 8.974 | 17.34 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 13.52 | .0047 | 17.98 | .3509 | 149.71 | 160.11 | 156.65 |
| SDev | .01 | .0006 | .05 | .0010 | .60 | .72 | .47 |
| %RSD | .0693 | 11.78 | .2967 | .2885 | .39898 | .44911 | .30072 |
| #1 | 13.53 | .0053 | 18.04 | .3517 | 149.44 | 159.45 | 156.12 |
| #2 | 13.51 | .0042 | 17.96 | .3498 | 149.29 | 160.88 | 157.02 |
| #3 | 13.51 | .0047 | 17.94 | .3514 | 150.39 | 160.01 | 156.81 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -7.2674 | 3.1243 | -.71253 | -10.540 | 12.340 | -1.4768 | 10.449 |
| SDev | .9372 | .9171 | 1.55517 | 1.919 | 2.682 | 2.3494 | 1.947 |
| %RSD | 12.896 | 29.356 | 218.26 | 18.204 | 21.733 | 159.08 | 18.636 |
| #1 | -6.4877 | 2.9486 | -2.4413 | -8.5078 | 15.244 | -3.1897 | 12.076 |
| #2 | -8.3071 | 4.1166 | -.26894 | -12.320 | 9.9555 | 1.2015 | 10.979 |
| #3 | -7.0074 | 2.3077 | .57264 | -10.792 | 11.822 | -2.4423 | 8.2913 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .2524 | .5281 |
| SDev | .0004 | .0008 |
| %RSD | .1692 | .1551 |
| #1 | .2528 | .5291 |
| #2 | .2525 | .5278 |
| #3 | .2519 | .5275 |

Analysis Report Fri 09-22-95 03:09:08 PM page 1

Method: CLP1 Sample Name: A84207D1 Operator:
Run Time: 09/22/95 15:03:32
Comment: 95125 4770 CW 9125/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -4.1997 | 91.12 | 63.282 | .0411 | .5700 | .0072 | 31.47 |
| SDev | .4959 | .14 | .197 | .0004 | .0011 | .0000 | .03 |
| %RSD | 11.809 | .1511 | .31093 | .8863 | .1917 | .1940 | .1005 |
| #1 | -3.8349 | 90.97 | 63.383 | .0410 | .5688 | .0072 | 31.44 |
| #2 | -3.9999 | 91.14 | 63.055 | .0408 | .5702 | .0072 | 31.48 |
| #3 | -4.7644 | 91.24 | 63.407 | .0415 | .5710 | .0072 | 31.50 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0083 | .4590 | .1499 | .1903 | 505.0 | 8.604 | 17.11 |
| SDev | .0001 | .0007 | .0002 | .0003 | .9 | .021 | .03 |
| %RSD | .9010 | .1597 | .1173 | .1767 | .1860 | .2471 | .1662 |
| #1 | -.0084 | .4581 | .1499 | .1900 | 504.0 | 8.580 | 17.08 |
| #2 | -.0083 | .4592 | .1501 | .1906 | 505.2 | 8.611 | 17.12 |
| #3 | -.0083 | .4596 | .1497 | .1903 | 505.8 | 8.621 | 17.14 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 13.48 | .0048 | 17.81 | .3448 | 148.92 | 158.93 | 155.60 |
| SDev | .02 | .0007 | .03 | .0001 | .99 | .02 | .32 |
| %RSD | .1428 | 13.88 | .1649 | .0441 | .66189 | .01348 | .20265 |
| #1 | 13.46 | .0052 | 17.84 | .3447 | 147.81 | 158.95 | 155.24 |
| #2 | 13.48 | .0053 | 17.78 | .3447 | 149.68 | 158.90 | 155.83 |
| #3 | 13.49 | .0041 | 17.82 | .3450 | 149.28 | 158.93 | 155.72 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -6.6419 | 4.5615 | -1.1573 | -9.3801 | 11.644 | 1.0254 | 9.8016 |
| SDev | 1.4213 | .5112 | .9635 | 1.7164 | 1.668 | .1543 | .8341 |
| %RSD | 21.399 | 11.207 | 83.248 | 18.298 | 14.323 | 15.048 | 8.5102 |
| #1 | -8.1704 | 4.6432 | -2.2644 | -11.119 | 11.575 | 1.1824 | 9.0135 |
| #2 | -6.3954 | 5.0269 | -.50874 | -9.3343 | 13.345 | .87390 | 9.7162 |
| #3 | -5.3600 | 4.0143 | -.69884 | -7.6872 | 10.012 | 1.0200 | 10.675 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .2497 | .4910 |
| SDev | .0004 | .0007 |
| %RSD | .1692 | .1409 |
| #1 | .2492 | .4902 |
| #2 | .2500 | .4913 |
| #3 | .2498 | .4915 |

Analysis Report Fri 09-22-95 03:14:47 PM page 1

Method: CLP1 Sample Name: A84207S1 Operator:
Run Time: 09/22/95 15:09:11
Comment: 95254775 CGB 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 31.404 | 85.41 | 1586.3 | .0396 | 2.144 | .0472 | 31.80 |
| SDev | .137 | .12 | 4.2 | .0004 | .004 | .0000 | .02 |
| %RSD | .43486 | .1393 | .26333 | 1.085 | .1846 | .0604 | .0515 |
| #1 | 31.506 | 85.31 | 1590.7 | .0400 | 2.140 | .0472 | 31.80 |
| #2 | 31.249 | 85.54 | 1585.9 | .0392 | 2.147 | .0472 | 31.81 |
| #3 | 31.457 | 85.39 | 1582.3 | .0397 | 2.144 | .0472 | 31.78 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0300 | .8209 | .2914 | .3769 | 474.1 | 7.691 | 16.17 |
| SDev | .0001 | .0010 | .0003 | .0001 | .4 | .017 | .01 |
| %RSD | .2588 | .1243 | .0846 | .0328 | .0743 | .2168 | .0906 |
| #1 | .0300 | .8216 | .2914 | .3770 | 473.7 | 7.673 | 16.18 |
| #2 | .0300 | .8214 | .2916 | .3769 | 474.4 | 7.706 | 16.17 |
| #3 | .0299 | .8198 | .2911 | .3767 | 474.1 | 7.694 | 16.15 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 13.12 | .0033 | 17.96 | .7077 | 518.78 | 531.92 | 527.54 |
| SDev | .00 | .0003 | .08 | .0005 | 2.14 | 2.29 | .86 |
| %RSD | .0365 | 9.724 | .4283 | .0688 | .41205 | .43072 | .16328 |
| #1 | 13.12 | .0036 | 17.92 | .7082 | 517.65 | 533.70 | 528.36 |
| #2 | 13.12 | .0033 | 18.05 | .7077 | 517.45 | 532.72 | 527.63 |
| #3 | 13.11 | .0030 | 17.91 | .7073 | 521.25 | 529.34 | 526.64 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 281.09 | 1539.2 | 286.53 | 278.38 | 1554.4 | 1531.6 | 1513.5 |
| SDev | 2.07 | 1.1 | 1.97 | 2.19 | 1.9 | 2.6 | 2.0 |
| %RSD | .73652 | .07221 | .68853 | .78845 | .11917 | .16824 | .13380 |
| #1 | 283.47 | 1538.6 | 288.76 | 280.83 | 1555.0 | 1530.5 | 1515.1 |
| #2 | 279.68 | 1540.5 | 285.85 | 276.60 | 1552.4 | 1534.6 | 1514.1 |
| #3 | 280.13 | 1538.5 | 284.99 | 277.70 | 1556.0 | 1529.8 | 1511.2 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .6262 | .8816 |
| SDev | .0003 | .0006 |
| %RSD | .0426 | .0661 |
| #1 | .6262 | .8822 |
| #2 | .6265 | .8816 |
| #3 | .6259 | .8810 |

Method: CLP1 Sample Name: A84207L1 Operator:
Run Time: 09/22/95 15:14:50
Comment: 9525477L CWF 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.99720 | 22.97 | 17.224 | .0167 | .1413 | .0019 | 7.866 |
| SDev | .24300 | .04 | .618 | .0003 | .0001 | .0000 | .021 |
| %RSD | 24.369 | .1553 | 3.5884 | 1.978 | .0437 | .0742 | .2680 |
| #1 | -.76459 | 22.93 | 17.797 | .0170 | .1413 | .0019 | 7.851 |
| #2 | -1.2494 | 22.98 | 17.307 | .0164 | .1412 | .0019 | 7.858 |
| #3 | -.97760 | 22.99 | 16.569 | .0167 | .1414 | .0019 | 7.890 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0026 | .1145 | .0375 | .0458 | 125.2 | 1.279 | 4.284 |
| SDev | .0001 | .0003 | .0005 | .0002 | .4 | .001 | .012 |
| %RSD | 2.812 | .2773 | 1.293 | .3600 | .2972 | .0984 | .2708 |
| #1 | -.0025 | .1143 | .0378 | .0460 | 124.9 | 1.277 | 4.278 |
| #2 | -.0027 | .1143 | .0370 | .0456 | 125.1 | 1.280 | 4.277 |
| #3 | -.0026 | .1148 | .0378 | .0458 | 125.6 | 1.279 | 4.298 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.491 | .0013 | 2.813 | .0883 | 38.726 | 39.629 | 39.328 |
| SDev | .006 | .0004 | .033 | .0001 | .446 | .380 | .401 |
| %RSD | .1784 | 33.70 | 1.156 | .0871 | 1.1517 | .95767 | 1.0184 |
| #1 | 3.486 | .0012 | 2.778 | .0884 | 39.239 | 40.066 | 39.790 |
| #2 | 3.489 | .0009 | 2.821 | .0883 | 38.428 | 39.434 | 39.099 |
| #3 | 3.498 | .0017 | 2.841 | .0882 | 38.511 | 39.386 | 39.095 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -1.4866 | 3.4392 | -.44669 | -2.0058 | 2.6896 | 3.8134 | 3.6667 |
| SDev | .9964 | 1.1540 | 1.53416 | .8877 | 2.2109 | 1.3339 | .7643 |
| %RSD | 67.025 | 33.553 | 343.45 | 44.258 | 82.200 | 34.978 | 20.845 |
| #1 | -.47123 | 3.0712 | 1.3247 | -1.3679 | .34893 | 4.4303 | 4.2800 |
| #2 | -2.4629 | 4.7323 | -1.3478 | -3.0196 | 4.7424 | 4.7272 | 2.8104 |
| #3 | -1.5257 | 2.5141 | -1.3170 | -1.6299 | 2.9774 | 2.2828 | 3.9098 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0621 | .1418 |
| SDev | .0002 | .0002 |
| %RSD | .2794 | .1604 |
| #1 | .0622 | .1416 |
| #2 | .0619 | .1416 |
| #3 | .0622 | .1420 |

Analysis Report Fri 09-22-95 03:44:00 PM page 1

Method: CLP1 Sample Name: A84207P1 Operator:
Run Time: 09/22/95 15:38:24
Comment: 95254778 CGZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 7.5330 | 94.30 | 78.414 | .0543 | .5748 | .0158 | 31.48 |
| SDev | .1574 | .07 | .697 | .0005 | .0005 | .0000 | .02 |
| %RSD | 2.0895 | .0695 | .88890 | .9817 | .0882 | .1790 | .0531 |
| #1 | 7.4029 | 94.22 | 78.329 | .0548 | .5744 | .0157 | 31.46 |
| #2 | 7.7080 | 94.34 | 77.763 | .0537 | .5747 | .0158 | 31.50 |
| #3 | 7.4882 | 94.34 | 79.150 | .0545 | .5754 | .0158 | 31.47 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0010 | 1.324 | .5917 | .6528 | 502.9 | 8.907 | 17.17 |
| SDev | .0001 | .000 | .0006 | .0014 | .4 | .027 | .01 |
| %RSD | 9.452 | .0371 | .1038 | .2172 | .0774 | .3006 | .0524 |
| #1 | -.0010 | 1.324 | .5910 | .6514 | 502.5 | 8.876 | 17.16 |
| #2 | -.0010 | 1.324 | .5922 | .6528 | 503.2 | 8.920 | 17.18 |
| #3 | -.0009 | 1.323 | .5919 | .6542 | 503.2 | 8.924 | 17.17 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 13.44 | .0040 | 17.93 | 1.219 | 153.95 | 165.85 | 161.89 |
| SDev | .01 | .0005 | .06 | .001 | 1.44 | 1.94 | .87 |
| %RSD | .0795 | 12.96 | .3465 | .1002 | .93682 | 1.1681 | .53999 |
| #1 | 13.43 | .0038 | 17.86 | 1.217 | 153.14 | 166.06 | 161.76 |
| #2 | 13.44 | .0036 | 17.97 | 1.220 | 155.62 | 163.82 | 161.08 |
| #3 | 13.45 | .0046 | 17.97 | 1.219 | 153.10 | 167.67 | 162.82 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 95.766 | 14.466 | 102.12 | 92.594 | 23.331 | 10.040 | 33.292 |
| SDev | 1.175 | .936 | 1.62 | 1.536 | 3.388 | 2.639 | 1.222 |
| %RSD | 1.2275 | 6.4669 | 1.5890 | 1.6590 | 14.523 | 26.286 | 3.6694 |
| #1 | 97.034 | 15.243 | 102.40 | 94.356 | 24.491 | 10.626 | 32.468 |
| #2 | 94.712 | 13.428 | 100.38 | 91.885 | 25.987 | 7.1576 | 34.696 |
| #3 | 95.551 | 14.728 | 103.59 | 91.540 | 19.515 | 12.338 | 32.714 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .7635 | 1.392 |
| SDev | .0007 | .001 |
| %RSD | .0896 | .0873 |
| #1 | .7629 | 1.390 |
| #2 | .7633 | 1.392 |
| #3 | .7642 | 1.393 |

Analysis Report Fri 09-22-95 03:49:40 PM page 1

Method: CLP1 Sample Name: A84204 Operator:
Run Time: 09/22/95 15:44:04
Comment: 9525474 cw 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -1.1411 | 39.16 | 25.874 | .0338 | .1871 | .0027 | 14.16 |
| SDev | .3128 | .07 | .782 | .0007 | .0004 | .0000 | .03 |
| %RSD | 27.408 | .1707 | 3.0240 | 1.940 | .2323 | .4620 | .1818 |
| #1 | -.98590 | 39.23 | 25.055 | .0341 | .1876 | .0027 | 14.19 |
| #2 | -1.5011 | 39.13 | 25.955 | .0342 | .1869 | .0027 | 14.14 |
| #3 | -.93636 | 39.10 | 26.614 | .0330 | .1868 | .0027 | 14.14 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0037 | .1425 | .0579 | .0778 | 170.8 | 3.243 | 6.892 |
| SDev | .0000 | .0003 | .0002 | .0004 | .3 | .003 | .014 |
| %RSD | 1.243 | .1751 | .3837 | .4815 | .1653 | .0850 | .2092 |
| #1 | -.0038 | .1427 | .0581 | .0783 | 171.1 | 3.242 | 6.909 |
| #2 | -.0037 | .1426 | .0579 | .0776 | 170.7 | 3.247 | 6.881 |
| #3 | -.0037 | .1422 | .0577 | .0777 | 170.7 | 3.242 | 6.888 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 4.706 | .0020 | 6.198 | .1117 | 47.495 | 51.888 | 50.425 |
| SDev | .009 | .0011 | .033 | .0005 | 1.028 | 1.049 | .940 |
| %RSD | .1953 | 56.85 | .5262 | .4543 | 2.1639 | 2.0217 | 1.8651 |
| #1 | 4.717 | .0031 | 6.209 | .1123 | 48.610 | 52.209 | 51.011 |
| #2 | 4.701 | .0008 | 6.162 | .1114 | 47.291 | 52.739 | 50.925 |
| #3 | 4.700 | .0020 | 6.225 | .1115 | 46.585 | 50.716 | 49.340 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -2.2986 | 2.4324 | .49398 | -3.6927 | 3.6117 | 1.8436 | 2.7174 |
| SDev | .5805 | .6488 | 1.3350 | .3018 | 1.0177 | .9905 | .2843 |
| %RSD | 25.254 | 26.675 | 270.25 | 8.1733 | 28.177 | 53.729 | 10.462 |
| #1 | -2.1774 | 3.1694 | .32229 | -3.4253 | 3.6672 | 2.9209 | 2.5751 |
| #2 | -2.9300 | 2.1804 | -.74686 | -4.0200 | 4.6006 | .97213 | 3.0447 |
| #3 | -1.7882 | 1.9474 | 1.9065 | -3.6328 | 2.5674 | 1.6378 | 2.5323 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0959 | .2154 |
| SDev | .0002 | .0005 |
| %RSD | .2441 | .2373 |
| #1 | .0962 | .2159 |
| #2 | .0957 | .2154 |
| #3 | .0958 | .2149 |

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Method: CLP1 Sample Name: A84207 Operator:
Run Time: 09/22/95 15:59:16
Comment: 9525477 CGZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -1.0893 | 23.60 | 16.141 | .0133 | .1426 | .0018 | 7.988 |
| SDev | .4151 | .14 | 1.481 | .0003 | .0010 | .0000 | .031 |
| %RSD | 38.107 | .5901 | 9.1729 | 2.618 | .7084 | .5349 | .3883 |
| #1 | -.61311 | 23.50 | 17.270 | .0131 | .1421 | .0018 | 7.977 |
| #2 | -1.2802 | 23.55 | 16.688 | .0130 | .1421 | .0018 | 7.964 |
| #3 | -1.3747 | 23.76 | 14.465 | .0136 | .1438 | .0018 | 8.023 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0028 | .1164 | .0379 | .0468 | 127.5 | 1.458 | 4.376 |
| SDev | .0001 | .0008 | .0003 | .0002 | .6 | .011 | .020 |
| %RSD | 2.056 | .6929 | .6852 | .4834 | .4954 | .7359 | .4554 |
| #1 | -.0028 | .1161 | .0381 | .0466 | 127.2 | 1.448 | 4.365 |
| #2 | -.0029 | .1158 | .0376 | .0467 | 127.1 | 1.456 | 4.364 |
| #3 | -.0028 | .1174 | .0381 | .0470 | 128.2 | 1.469 | 4.399 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.548 | .0015 | 2.905 | .0887 | 38.251 | 41.321 | 40.299 |
| SDev | .017 | .0004 | .009 | .0006 | 2.494 | .172 | .718 |
| %RSD | .4850 | 28.58 | .3126 | .6353 | 6.5210 | .41729 | 1.7816 |
| #1 | 3.539 | .0014 | 2.912 | .0884 | 35.828 | 41.466 | 39.588 |
| #2 | 3.537 | .0011 | 2.895 | .0884 | 38.116 | 41.368 | 40.285 |
| #3 | 3.568 | .0020 | 2.910 | .0894 | 40.811 | 41.130 | 41.024 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -2.7410 | .47765 | .35332 | -4.2858 | 3.0904 | -.82679 | 4.4456 |
| SDev | .8667 | .60757 | 2.4882 | 1.4597 | 1.6601 | .16133 | .4784 |
| %RSD | 31.621 | 127.20 | 704.24 | 34.059 | 53.718 | 19.513 | 10.762 |
| #1 | -3.3151 | -.20004 | 2.0037 | -5.9705 | 1.1834 | -.89072 | 4.9933 |
| #2 | -1.7440 | .97365 | 1.5649 | -3.3959 | 4.2124 | -.64329 | 4.1092 |
| #3 | -3.1639 | .65933 | -2.5087 | -3.4911 | 3.8755 | -.94636 | 4.2343 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0628 | .1334 |
| SDev | .0001 | .0006 |
| %RSD | .2461 | .4468 |
| #1 | .0627 | .1332 |
| #2 | .0628 | .1330 |
| #3 | .0630 | .1341 |

M00930 UMB 10/12/95

Analysis Report Fri 09-22-95 04:10:33 PM page 1

Method: CLP1 Sample Name: A84207D1 Operator:
Run Time: 09/22/95 16:04:57
Comment: 95254770 CUZ 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.58334 | 22.04 | 16.172 | .0106 | .1363 | .0018 | 7.787 |
| SDev | .15798 | .05 | .985 | .0001 | .0002 | .0000 | .032 |
| %RSD | 27.081 | .2330 | 6.0886 | .7416 | .1413 | .7458 | .4125 |
| #1 | -.62838 | 22.08 | 17.278 | .0107 | .1365 | .0018 | 7.822 |
| #2 | -.71391 | 22.04 | 15.390 | .0105 | .1363 | .0018 | 7.779 |
| #3 | -.40774 | 21.98 | 15.848 | .0106 | .1361 | .0018 | 7.760 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0026 | .1131 | .0362 | .0456 | 123.9 | 1.355 | 4.220 |
| SDev | .0001 | .0003 | .0001 | .0002 | .4 | .000 | .016 |
| %RSD | 1.941 | .2643 | .4204 | .3473 | .3441 | .0356 | .3868 |
| #1 | -.0026 | .1134 | .0362 | .0457 | 124.4 | 1.355 | 4.238 |
| #2 | -.0027 | .1129 | .0361 | .0454 | 123.8 | 1.355 | 4.213 |
| #3 | -.0026 | .1129 | .0364 | .0456 | 123.6 | 1.354 | 4.208 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.451 | .0015 | 2.820 | .0850 | 37.370 | 39.730 | 38.944 |
| SDev | .012 | .0004 | .044 | .0006 | .895 | .376 | .404 |
| %RSD | .3421 | 24.33 | 1.550 | .7552 | 2.3947 | .94648 | 1.0382 |
| #1 | 3.464 | .0019 | 2.841 | .0857 | 36.340 | 39.729 | 38.600 |
| #2 | 3.449 | .0014 | 2.770 | .0850 | 37.818 | 39.355 | 38.843 |
| #3 | 3.441 | .0013 | 2.850 | .0844 | 37.953 | 40.107 | 39.390 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -2.1896 | 1.7309 | -.58342 | -2.9914 | 3.8651 | .66542 | 4.0158 |
| SDev | 1.0101 | .4289 | 2.24054 | .6502 | .7443 | 1.0062 | .2395 |
| %RSD | 46.133 | 24.779 | 384.04 | 21.736 | 19.257 | 151.21 | 5.9650 |
| #1 | -1.0540 | 1.2364 | 1.9670 | -2.5622 | 4.7054 | -.49544 | 4.1695 |
| #2 | -2.5269 | 2.0023 | -2.2350 | -2.6726 | 3.6011 | 1.2040 | 4.1382 |
| #3 | -2.9879 | 1.9540 | -1.4823 | -3.7395 | 3.2887 | 1.2877 | 3.7398 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0606 | .1206 |
| SDev | .0004 | .0004 |
| %RSD | .7129 | .3000 |
| #1 | .0611 | .1210 |
| #2 | .0602 | .1204 |
| #3 | .0605 | .1203 |

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Method: CLP1 Sample Name: A84207S1 Operator:
Run Time: 09/22/95 16:10:37
Comment: 9525477S C.O.Z. 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 7.9145 | 20.34 | 383.04 | .0099 | .5085 | .0114 | 7.705 |
| SDev | .1809 | .03 | 1.90 | .0004 | .0010 | .0001 | .027 |
| %RSD | 2.2855 | .1424 | .49526 | 3.762 | .1956 | .4725 | .3446 |
| #1 | 8.1035 | 20.37 | 383.33 | .0098 | .5094 | .0114 | 7.727 |
| #2 | 7.8971 | 20.32 | 381.01 | .0095 | .5074 | .0113 | 7.676 |
| #3 | 7.7429 | 20.34 | 384.78 | .0103 | .5086 | .0114 | 7.713 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0067 | .1989 | .0693 | .0882 | 114.6 | 1.188 | 3.922 |
| SDev | .0000 | .0007 | .0004 | .0003 | .3 | .002 | .014 |
| %RSD | .2870 | .3445 | .6544 | .3353 | .2927 | .1420 | .3455 |
| #1 | .0068 | .1994 | .0697 | .0885 | 114.9 | 1.188 | 3.934 |
| #2 | .0067 | .1981 | .0688 | .0881 | 114.2 | 1.186 | 3.907 |
| #3 | .0067 | .1991 | .0695 | .0880 | 114.7 | 1.189 | 3.924 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.300 | .0007 | 2.760 | .1725 | 126.26 | 129.00 | 128.08 |
| SDev | .008 | .0005 | .051 | .0002 | 1.25 | 1.08 | 1.10 |
| %RSD | .2543 | 71.10 | 1.849 | .0956 | .98876 | .84080 | .86092 |
| #1 | 3.308 | .0012 | 2.816 | .1726 | 127.37 | 129.44 | 128.75 |
| #2 | 3.291 | .0002 | 2.716 | .1724 | 126.49 | 129.79 | 128.69 |
| #3 | 3.301 | .0008 | 2.748 | .1727 | 124.91 | 127.76 | 126.81 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 65.613 | 370.75 | 67.329 | 64.757 | 373.85 | 369.20 | 369.43 |
| SDev | .673 | .89 | 1.017 | .719 | 1.67 | 1.06 | 1.50 |
| %RSD | 1.0250 | .24076 | 1.5105 | 1.1099 | .44597 | .28576 | .40569 |
| #1 | 64.859 | 370.71 | 66.671 | 63.954 | 375.32 | 368.40 | 367.76 |
| #2 | 66.149 | 371.66 | 68.500 | 64.976 | 374.20 | 370.40 | 370.65 |
| #3 | 65.832 | 369.88 | 66.815 | 65.340 | 372.04 | 368.80 | 369.89 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1495 | .2143 |
| SDev | .0007 | .0006 |
| %RSD | .4649 | .2668 |
| #1 | .1501 | .2148 |
| #2 | .1487 | .2137 |
| #3 | .1496 | .2144 |

Method: CLP1 Sample Name: A84207L1 Operator:
Run Time: 09/22/95 16:16:16
Comment: 9525477L L62. 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 282.31 | 4.877 | 4.1038 | .0099 | .0333 | .0005 | 1.834 |
| SDev | .75 | .022 | 2.0772 | .0004 | .0002 | .0000 | .003 |
| %RSD | .26522 | .4586 | 50.617 | 3.775 | .7000 | 3.773 | .1501 |
| #1 | 283.15 | 4.902 | 2.7942 | .0103 | .0336 | .0005 | 1.838 |
| #2 | 281.73 | 4.861 | 6.4989 | .0099 | .0332 | .0005 | 1.833 |
| #3 | 282.03 | 4.867 | 3.0184 | .0096 | .0331 | .0004 | 1.833 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0004 | .0247 | .0077 | .0098 | 26.78 | .1746 | .9401 |
| SDev | .0001 | .0005 | .0005 | .0002 | .06 | .0032 | .0060 |
| %RSD | 19.22 | 2.004 | 6.290 | 1.691 | .2273 | 1.807 | .6340 |
| #1 | -.0003 | .0251 | .0080 | .0100 | 26.85 | .1777 | .9464 |
| #2 | -.0005 | .0247 | .0081 | .0097 | 26.75 | .1748 | .9395 |
| #3 | -.0005 | .0241 | .0072 | .0098 | 26.74 | .1714 | .9345 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .7514 | -.0001 | 2.862 | .0202 | 10.014 | 7.8662 | 8.5814 |
| SDev | .0019 | .0009 | .078 | .0004 | 2.356 | 1.7401 | .4220 |
| %RSD | .2500 | 1110. | 2.712 | 2.187 | 23.532 | 22.122 | 4.9173 |
| #1 | .7536 | .0001 | 2.932 | .0206 | 9.7178 | 7.6813 | 8.3595 |
| #2 | .7502 | .0007 | 2.876 | .0202 | 12.504 | 6.2259 | 8.3166 |
| #3 | .7505 | -.0011 | 2.778 | .0197 | 7.8193 | 9.6914 | 9.0680 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.35864 | .30148 | -1.7958 | .35887 | -.03714 | .47053 | -.30538 |
| SDev | 1.47832 | .43523 | 2.0104 | 1.8597 | .89971 | .84175 | 1.85766 |
| %RSD | 412.20 | 144.36 | 111.95 | 518.20 | 2422.7 | 178.89 | 608.31 |
| #1 | -1.8645 | -.17945 | -3.8395 | -.87844 | -.19831 | -.17004 | -1.1103 |
| #2 | 1.0905 | .41566 | -1.7276 | 2.4975 | .93227 | .15774 | 1.8190 |
| #3 | -.30199 | .66824 | .17954 | -.54239 | -.84537 | 1.4239 | -1.6249 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0133 | .0844 |
| SDev | .0003 | .0003 |
| %RSD | 2.644 | .3324 |
| #1 | .0137 | .0847 |
| #2 | .0130 | .0842 |
| #3 | .0133 | .0842 |

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Method: CLP1 Sample Name: CCV3 Operator:
Run Time: 09/22/95 16:21:55
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 1001.2 | 52.83 | 515.59 | 2.583 | 2.586 | 2.614 | 50.58 |
| SDev | 2.1 | .10 | .82 | .004 | .005 | .006 | .12 |
| %RSD | .21169 | .1966 | .15992 | .1504 | .1880 | .2422 | .2447 |
| #1 | 1003.5 | 52.95 | 516.10 | 2.587 | 2.592 | 2.621 | 50.72 |
| #2 | 999.43 | 52.77 | 514.64 | 2.581 | 2.584 | 2.611 | 50.51 |
| #3 | 1000.6 | 52.77 | 516.03 | 2.580 | 2.583 | 2.610 | 50.50 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.512 | 2.538 | 2.547 | 2.597 | 52.46 | 86.12 | 51.40 |
| SDev | .006 | .005 | .006 | .006 | .10 | .12 | .11 |
| %RSD | .2397 | .2101 | .2195 | .2138 | .1966 | .1395 | .2116 |
| #1 | 2.519 | 2.544 | 2.554 | 2.604 | 52.57 | 86.26 | 51.53 |
| #2 | 2.508 | 2.535 | 2.545 | 2.594 | 52.40 | 86.05 | 51.35 |
| #3 | 2.509 | 2.534 | 2.543 | 2.594 | 52.39 | 86.06 | 51.33 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.565 | 2.560 | 82.48 | 2.525 | 500.77 | 505.47 | 503.91 |
| SDev | .006 | .006 | .26 | .007 | 3.08 | 2.64 | .75 |
| %RSD | .2283 | .2248 | .3105 | .2600 | .61597 | .52299 | .14852 |
| #1 | 2.572 | 2.566 | 82.77 | 2.533 | 498.82 | 507.39 | 504.54 |
| #2 | 2.562 | 2.557 | 82.40 | 2.523 | 504.33 | 502.46 | 503.08 |
| #3 | 2.561 | 2.556 | 82.27 | 2.520 | 499.17 | 506.57 | 504.10 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1018.5 | 508.09 | 1023.8 | 1015.8 | 511.03 | 506.63 | 515.66 |
| SDev | 1.7 | 2.60 | 4.7 | 1.0 | 5.14 | 1.39 | .86 |
| %RSD | .16591 | .51089 | .45685 | .09688 | 1.0058 | .27362 | .16701 |
| #1 | 1020.4 | 505.26 | 1029.1 | 1016.0 | 505.21 | 505.28 | 516.57 |
| #2 | 1017.8 | 510.35 | 1020.2 | 1016.6 | 514.96 | 508.05 | 514.85 |
| #3 | 1017.2 | 508.68 | 1022.3 | 1014.7 | 512.92 | 506.56 | 515.58 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| | | |
|---|---|---|
| Elem | V | Zn |
| Units | ppm | ppm |
| Avge | 2.563 | 2.630 |
| SDev | .005 | .006 |
| %RSD | .1971 | .2168 |
| #1 | 2.569 | 2.637 |
| #2 | 2.560 | 2.626 |
| #3 | 2.560 | 2.628 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

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Method: CLP1 Sample Name: CCB3 Operator:
Run Time: 09/22/95 16:27:39
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .44636 | .0127 | 2.0358 | .0015 | .0009 | .0008 | .0201 |
| SDev | .29243 | .0015 | .4710 | .0001 | .0002 | .0002 | .0047 |
| %RSD | 65.515 | 11.94 | 23.138 | 7.700 | 25.59 | 27.44 | 23.35 |
| #1 | .61284 | .0144 | 2.3757 | .0016 | .0011 | .0010 | .0249 |
| #2 | .10870 | .0119 | 1.4981 | .0014 | .0009 | .0008 | .0199 |
| #3 | .61755 | .0117 | 2.2336 | .0014 | .0007 | .0006 | .0155 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | .0013 | -.0005 | .0011 | .0188 | .0057 | .0227 |
| SDev | .0002 | .0004 | .0002 | .0002 | .0090 | .0012 | .0056 |
| %RSD | 22.83 | 31.07 | 49.53 | 21.81 | 48.01 | 21.17 | 24.63 |
| #1 | .0010 | .0013 | -.0005 | .0012 | .0241 | .0065 | .0275 |
| #2 | .0008 | .0017 | -.0002 | .0008 | .0239 | .0063 | .0241 |
| #3 | .0007 | .0009 | -.0007 | .0012 | .0084 | .0043 | .0166 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0007 | .0015 | .0141 | -.0001 | 1.7588 | .12072 | .66619 |
| SDev | .0002 | .0005 | .0080 | .0003 | .5946 | 1.0095 | .55341 |
| %RSD | 33.95 | 32.86 | 57.24 | 494.6 | 33.809 | 836.25 | 83.070 |
| #1 | .0009 | .0020 | .0199 | .0002 | 1.7386 | .97813 | 1.2314 |
| #2 | .0006 | .0014 | .0174 | -.0004 | 1.1745 | .37594 | .64186 |
| #3 | .0005 | .0011 | .0049 | -.0000 | 2.3632 | -.99191 | .12535 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.14391 | -.25581 | -1.9243 | .74495 | -.16259 | -.30235 | 1.8434 |
| SDev | .09346 | .78538 | 1.3593 | .78317 | 2.14089 | .60919 | 2.0915 |
| %RSD | 64.947 | 307.02 | 70.641 | 105.13 | 1316.7 | 201.49 | 113.46 |
| #1 | -.23418 | .54763 | -1.6190 | .45721 | 1.1245 | .25963 | 4.2262 |
| #2 | -.14998 | -1.0218 | -.74352 | .14634 | -2.6340 | -.21693 | .31102 |
| #3 | -.04755 | -.29326 | -3.4103 | 1.6313 | 1.0217 | -.94974 | .99289 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0009 | .0013 |
| SDev | .0003 | .0002 |
| %RSD | 34.75 | 17.49 |
| #1 | .0012 | .0015 |
| #2 | .0009 | .0013 |
| #3 | .0006 | .0011 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

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Method: CLP1 Sample Name: A84207P1 Operator:
Run Time: 09/22/95 16:36:02
Comment: 9525477P CW2 9/25/95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 17.979 | 23.18 | 35.798 | .0131 | .1397 | .0125 | 7.856 |
| SDev | .225 | .01 | .378 | .0003 | .0000 | .0000 | .011 |
| %RSD | 1.2508 | .0577 | 1.0546 | 2.356 | .0249 | .2424 | .1443 |
| #1 | 17.779 | 23.17 | 35.484 | .0133 | .1397 | .0125 | 7.867 |
| #2 | 18.223 | 23.18 | 35.693 | .0127 | .1397 | .0125 | 7.856 |
| #3 | 17.935 | 23.20 | 36.217 | .0132 | .1398 | .0124 | 7.844 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0072 | .2138 | .0572 | .0971 | 125.2 | 1.435 | 4.297 |
| SDev | .0001 | .0002 | .0002 | .0001 | .1 | .005 | .004 |
| %RSD | .7995 | .0778 | .3520 | .1139 | .1076 | .3390 | .0992 |
| #1 | .0073 | .2140 | .0574 | .0970 | 125.3 | 1.430 | 4.301 |
| #2 | .0072 | .2137 | .0570 | .0971 | 125.3 | 1.435 | 4.297 |
| #3 | .0071 | .2138 | .0573 | .0973 | 125.1 | 1.440 | 4.292 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.511 | .0010 | 2.775 | .1672 | 45.558 | 44.395 | 44.783 |
| SDev | .004 | .0002 | .005 | .0006 | .551 | 1.153 | .626 |
| %RSD | .0999 | 21.55 | .1693 | .3868 | 1.2093 | 2.5962 | 1.3974 |
| #1 | 3.513 | .0009 | 2.780 | .1670 | 45.214 | 45.621 | 45.485 |
| #2 | 3.512 | .0009 | 2.774 | .1679 | 45.266 | 44.233 | 44.577 |
| #3 | 3.507 | .0013 | 2.771 | .1667 | 46.193 | 43.333 | 44.285 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 122.88 | 9.8751 | 123.76 | 122.44 | 12.410 | 8.6096 | 25.001 |
| SDev | 1.54 | 1.6553 | 1.23 | 1.71 | 1.120 | 2.8592 | 1.048 |
| %RSD | 1.2542 | 16.763 | .99018 | 1.3944 | 9.0279 | 33.210 | 4.1904 |
| #1 | 124.26 | 11.208 | 124.98 | 123.90 | 11.124 | 11.250 | 23.887 |
| #2 | 121.22 | 10.395 | 122.53 | 120.56 | 13.177 | 9.0066 | 25.150 |
| #3 | 123.15 | 8.0221 | 123.78 | 122.84 | 12.928 | 5.5726 | 25.966 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1615 | .1739 |
| SDev | .0004 | .0001 |
| %RSD | .2494 | .0859 |
| #1 | .1615 | .1738 |
| #2 | .1619 | .1741 |
| #3 | .1611 | .1739 |

Method: CLP1 Sample Name: CRIF1 Operator:
Run Time: 09/22/95 16:41:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 19.172 | .0124 | 21.159 | .0013 | .0002 | .0106 | .0063 |
| SDev | .096 | .0034 | .710 | .0002 | .0000 | .0000 | .0007 |
| %RSD | .50256 | 27.61 | 3.3544 | 17.37 | 23.83 | .1769 | 11.17 |
| #1 | 19.224 | .0157 | 21.054 | .0011 | .0002 | .0106 | .0070 |
| #2 | 19.060 | .0125 | 21.915 | .0015 | .0001 | .0105 | .0062 |
| #3 | 19.230 | .0089 | 20.507 | .0012 | .0001 | .0105 | .0056 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0102 | .1014 | .0192 | .0509 | .0515 | .0011 | .0064 |
| SDev | .0000 | .0003 | .0001 | .0000 | .0104 | .0001 | .0010 |
| %RSD | .4397 | .3250 | .7507 | .0269 | 20.17 | 5.363 | 15.68 |
| #1 | .0102 | .1011 | .0191 | .0509 | .0614 | .0012 | .0059 |
| #2 | .0101 | .1013 | .0193 | .0508 | .0524 | .0011 | .0057 |
| #3 | .0102 | .1018 | .0191 | .0509 | .0407 | .0011 | .0075 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0319 | -.0003 | .0111 | .0805 | 6.8232 | 5.9166 | 6.2185 |
| SDev | .0003 | .0005 | .0062 | .0006 | 1.4812 | .2124 | .4229 |
| %RSD | 1.015 | 154.9 | 55.60 | .7745 | 21.708 | 3.5903 | 6.8006 |
| #1 | .0322 | -.0008 | .0063 | .0805 | 8.5313 | 5.7587 | 6.6820 |
| #2 | .0318 | .0001 | .0181 | .0810 | 5.8949 | 5.8330 | 5.8536 |
| #3 | .0316 | -.0002 | .0091 | .0798 | 6.0433 | 6.1581 | 6.1199 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 126.30 | 9.5321 | 126.34 | 126.28 | 9.3186 | 9.6387 | 21.592 |
| SDev | .79 | .7026 | .93 | 1.63 | .2942 | .9426 | 1.117 |
| %RSD | .62459 | 7.3713 | .73539 | 1.2938 | 3.1569 | 9.7793 | 5.1710 |
| #1 | 125.46 | 9.0802 | 127.40 | 124.48 | 9.3450 | 8.9480 | 22.503 |
| #2 | 127.02 | 10.342 | 125.71 | 127.67 | 9.5987 | 10.713 | 21.928 |
| #3 | 126.43 | 9.1745 | 125.90 | 126.70 | 9.0121 | 9.2556 | 20.347 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1014 | .0435 |
| SDev | .0002 | .0001 |
| %RSD | .1944 | .1208 |
| #1 | .1016 | .0434 |
| #2 | .1012 | .0435 |
| #3 | .1015 | .0434 |

Method: CLP1 Sample Name: ICSAF1 Operator:
Run Time: 09/22/95 16:47:21
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.09796 | 506.2 | 3.0751 | .0021 | .0058 | .0005 | 515.5 |
| SDev | .37492 | .7 | 1.4692 | .0004 | .0001 | .0000 | 1.1 |
| %RSD | 382.71 | .1382 | 47.777 | 19.31 | .8609 | 2.146 | .2191 |
| #1 | .16655 | 506.9 | 1.3866 | .0017 | .0058 | .0005 | 516.3 |
| #2 | -.52702 | 506.1 | 4.0618 | .0021 | .0059 | .0005 | 516.0 |
| #3 | .06658 | 505.5 | 3.7768 | .0024 | .0058 | .0005 | 514.2 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 600.0 | | | .2000 | .0050 | 600.0 |
| Low | -10.000 | 400.0 | | | -.2000 | -.0050 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0016 | .0023 | .0005 | .0011 | 203.6 | .0008 | 517.8 |
| SDev | .0002 | .0004 | .0004 | .0002 | .3 | .0002 | .6 |
| %RSD | 14.21 | 18.83 | 68.71 | 16.52 | .1590 | 29.99 | .1075 |
| #1 | -.0017 | .0023 | .0001 | .0012 | 203.8 | .0006 | 518.1 |
| #2 | -.0013 | .0028 | .0008 | .0009 | 203.7 | .0010 | 518.2 |
| #3 | -.0017 | .0019 | .0007 | .0012 | 203.2 | .0007 | 517.2 |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass |
| High | .0050 | | .0100 | | 240.0 | | 600.0 |
| Low | -.0050 | | -.0100 | | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | H.0169 | -.0027 | .0442 | -.0002 | -10.435 | 4.7099 | -.33336 |
| SDev | .0001 | .0015 | .0188 | .0004 | 2.082 | 1.5480 | .34668 |
| %RSD | .8855 | 56.41 | 42.63 | 185.9 | 19.953 | 32.866 | 104.00 |
| #1 | H.0170 | -.0012 | .0312 | -.0005 | -11.787 | 5.5863 | -.19913 |
| #2 | H.0168 | -.0027 | .0658 | .0003 | -11.481 | 5.6209 | -.07386 |
| #3 | H.0167 | -.0042 | .0355 | -.0004 | -8.0374 | 2.9226 | -.72709 |
| Errors | LC High | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | | .0400 | | | 6.0000 |
| Low | -.0150 | | | -.0400 | | | -6.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.50837 | -1.2925 | -2.1492 | .31080 | 2.0892 | -2.9809 | -1.8910 |
| SDev | 1.78209 | .2037 | 5.1114 | 3.3174 | 1.6311 | 1.0842 | 2.5300 |
| %RSD | 350.55 | 15.761 | 237.83 | 1067.4 | 78.069 | 36.372 | 133.79 |
| #1 | 1.4661 | -1.2394 | -2.6811 | 3.5366 | 2.7192 | -3.2158 | -4.1230 |
| #2 | -.99379 | -1.1206 | 3.2074 | -3.0912 | .23715 | -1.7985 | -2.4074 |
| #3 | -1.9975 | -1.5175 | -6.9738 | .48697 | 3.3114 | -3.9284 | .85738 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0024 | H.0227 |
| SDev | .0002 | .0001 |
| %RSD | 9.066 | .5478 |
| #1 | .0022 | H.0228 |
| #2 | .0026 | H.0228 |
| #3 | .0023 | H.0226 |

| Errors | LC Pass | LC High |
|---|---|---|
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

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Method: CLP1 Sample Name: ICSABF1 Operator:
Run Time: 09/22/95 16:53:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 1058.4 | 503.6 | 1023.3 | .0039 | .5412 | .5187 | 512.1 |
| SDev | .7 | .4 | 2.1 | .0001 | .0003 | .0007 | 1.1 |
| %RSD | .06881 | .0791 | .20420 | 3.899 | .0567 | .1314 | .2075 |
| #1 | 1057.7 | 503.1 | 1024.7 | .0040 | .5415 | .5192 | 512.7 |
| #2 | 1059.2 | 503.9 | 1024.1 | .0037 | .5409 | .5190 | 512.8 |
| #3 | 1058.4 | 503.8 | 1020.9 | .0039 | .5413 | .5179 | 510.9 |
| Errors | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 600.0 | 1200.0 | | .6000 | .6000 | 600.0 |
| Low | 800.00 | 400.0 | 800.00 | | .4000 | .4000 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9546 | .4983 | .4969 | .5511 | 204.5 | .0001 | 516.8 |
| SDev | .0009 | .0017 | .0011 | .0008 | .2 | .0011 | .5 |
| %RSD | .0965 | .3408 | .2194 | .1358 | .1133 | 1475. | .1054 |
| #1 | .9548 | .4993 | .4976 | .5504 | 204.6 | .0006 | 517.1 |
| #2 | .9554 | .4993 | .4974 | .5510 | 204.6 | .0008 | 517.1 |
| #3 | .9536 | .4964 | .4956 | .5519 | 204.2 | -.0012 | 516.1 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass |
| High | 1.200 | .6000 | .6000 | .6000 | 240.0 | | 600.0 |
| Low | .8000 | .4000 | .4000 | .4000 | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .5308 | -.0031 | .0395 | .9711 | 959.84 | 988.98 | 979.27 |
| SDev | .0006 | .0009 | .0042 | .0016 | 1.16 | 2.31 | 1.20 |
| %RSD | .1184 | 28.66 | 10.61 | .1634 | .12071 | .23342 | .12237 |
| #1 | .5311 | -.0021 | .0401 | .9709 | 960.93 | 987.63 | 978.74 |
| #2 | .5312 | -.0038 | .0434 | .9728 | 959.97 | 987.66 | 978.44 |
| #3 | .5301 | -.0034 | .0351 | .9696 | 958.62 | 991.64 | 980.65 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .6000 | | | 1.200 | | | 1200.0 |
| Low | .4000 | | | .8000 | | | 800.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | .50347 | 1002.7 | 1.4297 | .04104 | 1008.9 | 999.67 | 974.07 |
| SDev | 1.9557 | 1.2 | 1.5685 | 3.6209 | .3 | 1.90 | 3.15 |
| %RSD | 388.45 | .11747 | 109.71 | 8821.9 | .02836 | .19049 | .32339 |
| #1 | -.47425 | 1001.4 | 1.2339 | -1.3271 | 1009.2 | 997.48 | 972.78 |
| #2 | 2.7553 | 1003.4 | -.03176 | 4.1467 | 1008.7 | 1000.7 | 977.66 |
| #3 | -.77060 | 1003.5 | 3.0869 | -2.6965 | 1008.8 | 1000.8 | 971.76 |
| Errors | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | | 1200.0 | | | | | 1200.0 |

| | | | |
|---|---|---|---|
| Low | | 800.00 | 800.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .5224 | 1.093 |
| SDev | .0013 | .001 |
| %RSD | .2461 | .0793 |
| #1 | .5235 | 1.093 |
| #2 | .5228 | 1.093 |
| #3 | .5210 | 1.092 |
| Errors | LC Pass | LC Pass |
| High | .6000 | 1.200 |
| Low | .4000 | .8000 |

Analysis Report Fri 09-22-95 05:04:32 PM page 1

Method: CLP1 Sample Name: CCV4 Operator:
Run Time: 09/22/95 16:58:56
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 984.84 | 51.79 | 509.74 | 2.542 | 2.538 | 2.571 | 49.71 |
| SDev | .91 | .09 | 1.84 | .003 | .002 | .003 | .09 |
| %RSD | .09273 | .1774 | .36029 | .1019 | .0828 | .1189 | .1883 |
| #1 | 985.63 | 51.87 | 509.90 | 2.544 | 2.539 | 2.569 | 49.62 |
| #2 | 985.06 | 51.81 | 511.49 | 2.542 | 2.538 | 2.575 | 49.81 |
| #3 | 983.84 | 51.69 | 507.82 | 2.539 | 2.535 | 2.570 | 49.69 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.474 | 2.496 | 2.507 | 2.548 | 51.67 | 84.23 | 51.06 |
| SDev | .004 | .004 | .003 | .007 | .08 | .16 | .08 |
| %RSD | .1674 | .1704 | .1269 | .2597 | .1523 | .1873 | .1616 |
| #1 | 2.470 | 2.493 | 2.504 | 2.556 | 51.60 | 84.41 | 51.05 |
| #2 | 2.479 | 2.501 | 2.510 | 2.546 | 51.75 | 84.17 | 51.15 |
| #3 | 2.474 | 2.495 | 2.507 | 2.543 | 51.67 | 84.12 | 50.99 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.524 | 2.523 | 81.16 | 2.486 | 494.98 | 498.39 | 497.26 |
| SDev | .003 | .004 | .07 | .003 | 1.30 | 2.76 | 1.55 |
| %RSD | .1101 | .1621 | .0871 | .1017 | .26183 | .55436 | .31074 |
| #1 | 2.522 | 2.519 | 81.24 | 2.485 | 493.91 | 501.58 | 499.03 |
| #2 | 2.527 | 2.527 | 81.14 | 2.489 | 494.61 | 496.95 | 496.17 |
| #3 | 2.523 | 2.523 | 81.10 | 2.485 | 496.43 | 496.65 | 496.58 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1000.4 | 500.85 | 1004.5 | 998.38 | 505.27 | 498.64 | 508.63 |
| SDev | 1.4 | 1.14 | 1.7 | 1.88 | 3.48 | 1.83 | 1.63 |
| %RSD | .14099 | .22798 | .16452 | .18815 | .68783 | .36673 | .32093 |
| #1 | 1001.8 | 500.89 | 1004.3 | 1000.5 | 501.71 | 500.48 | 507.13 |
| #2 | 998.94 | 499.69 | 1002.9 | 996.96 | 505.44 | 496.82 | 510.37 |
| #3 | 1000.5 | 501.97 | 1006.2 | 997.67 | 508.65 | 498.64 | 508.40 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| | | |
|---|---|---|
| Elem | V | Zn |
| Units | ppm | ppm |
| Avge | 2.516 | 2.589 |
| SDev | .002 | .003 |
| %RSD | .0961 | .1148 |
| #1 | 2.515 | 2.591 |
| #2 | 2.519 | 2.590 |
| #3 | 2.515 | 2.585 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

Analysis Report Fri 09-22-95 05:10:18 PM page 1

Method: CLP1 Sample Name: CCB4 Operator:
Run Time: 09/22/95 17:04:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .40115 | .0509 | .74343 | .0018 | .0009 | .0008 | .0538 |
| SDev | .21780 | .0137 | .24207 | .0003 | .0002 | .0002 | .0152 |
| %RSD | 54.293 | 26.98 | 32.561 | 14.12 | 21.00 | 24.75 | 28.23 |
| #1 | .56947 | .0656 | .58900 | .0021 | .0011 | .0010 | .0697 |
| #2 | .15517 | .0486 | .61887 | .0016 | .0008 | .0008 | .0520 |
| #3 | .47881 | .0385 | 1.0224 | .0016 | .0007 | .0006 | .0395 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0009 | .0014 | -.0004 | .0008 | .0342 | .0054 | .0586 |
| SDev | .0002 | .0004 | .0001 | .0002 | .0097 | .0006 | .0141 |
| %RSD | 26.46 | 30.59 | 35.11 | 28.13 | 28.33 | 10.18 | 24.10 |
| #1 | .0012 | .0011 | -.0004 | .0010 | .0432 | .0060 | .0740 |
| #2 | .0009 | .0013 | -.0005 | .0006 | .0240 | .0050 | .0555 |
| #3 | .0007 | .0019 | -.0002 | .0008 | .0354 | .0052 | .0463 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0006 | .0016 | .0149 | .0004 | .51462 | .29161 | .36587 |
| SDev | .0002 | .0003 | .0105 | .0002 | 1.3502 | .78638 | .35933 |
| %RSD | 40.26 | 19.40 | 70.70 | 41.53 | 262.37 | 269.67 | 98.211 |
| #1 | .0008 | .0020 | .0055 | .0006 | -.88606 | .62473 | .12164 |
| #2 | .0005 | .0015 | .0128 | .0003 | 1.8079 | -.60650 | .19750 |
| #3 | .0004 | .0014 | .0263 | .0003 | .62198 | .85659 | .77846 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.79280 | -.10903 | -.86704 | -.75573 | -1.2554 | .46331 | 2.8966 |
| SDev | .58198 | 1.80830 | 1.23974 | .93886 | 1.8790 | 1.9714 | .4874 |
| %RSD | 73.408 | 1658.5 | 142.99 | 124.23 | 149.67 | 425.50 | 16.827 |
| #1 | -1.0632 | .26642 | .26388 | -1.7257 | -2.0329 | 1.4143 | 2.4689 |
| #2 | -.12482 | 1.4821 | -.67243 | .14858 | .88747 | 1.7789 | 2.7938 |
| #3 | -1.1904 | -2.0756 | -2.1926 | -.69009 | -2.6210 | -1.8033 | 3.4273 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0009 | .0031 |
| SDev | .0002 | .0001 |
| %RSD | 23.23 | 4.875 |
| #1 | .0010 | .0033 |
| #2 | .0010 | .0031 |
| #3 | .0007 | .0030 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

# 2M LABS, INC.

Standards Prepd: 9/28/95
Source: Plasma Chem

CLIENT USB004 (RT-60) NOEC(0912) [Pb post spike]
DATE 9/28/95
ASK: CLP1 (AutoSampler)
RESULT FILE: USB004.ASC
ANALYST CC-2 Charles Zinke

| # | SAMPLE | NOTES | # | SAMPLE | NOTES |
|---|---|---|---|---|---|
| 1 | ICV | | 26 | 9525889S | XXB5AXS |
| 2 | ICB | | 27 | 9525889L | XXB5AXL |
| 3 | CRII | | 28 | 9525890 | BLIVDD |
| 4 | ICSAI | | 29 | CCV3 | |
| 5 | ICSABI | | 30 | CCB3 | |
| 6 | CCV1 | | 31 | 9525892 | XVAULT; Dilute Cu, Zn Tl=-10.4 |
| 7 | CCB1 | | 32 | 95258920 | XVAULTO; Dilute Cu, Zn Tl=-10.1 |
| 8 | PBW | | 33 | 9525892S | XVAULTS; Dilute Cu, Zn |
| 9 | PBS | | 34 | 9525892L | XVAULTL |
| 10 | LCSW | | 35 | 9525889P | XXB5AXP; Cu=+1.00 mg/L |
| 11 | LCSS | (1:5 dilution) | 36 | 9525892P | XVAULTP; Sb=+120 ug/L |
| 12 | 9525477P | A84207P; Pb=+0.30 mg/L | 37 | ZZZZZZ | ZZZZZZ |
| 13 | 9525477L | ZZZZZ mm 10/5/95 A84207L; re-analysis of serial dilution | 38 | CRIF | Cu carryover |
| 14 | CRIF | | 39 | ICSAF | |
| 15 | ICSAF | | 40 | ICSABF | |
| 16 | ICSABF | | 41 | CCV4 | |
| 17 | CCV2 | | 42 | CCB4 | |
| 18 | CCB2 | | 43 | | |
| 19 | 9525899 | FLOBLK | 44 | | |
| 20 | 9525885 | XXXXB1 | 45 | | |
| 21 | 9525886 | XXB2AX | 46 | | |
| 22 | 9525887 | XXB3AX | 47 | | |
| 23 | 9525888 | XXB4AX | 48 | | |
| 24 | 9525889 | XXB5AX | 49 | | |
| 25 | 95258890 | XXB5AXO | 50 | | |

Reviewed By:
Date: 10/11/95

Thermo Jarrell Ash USB004 CLP Analysis.

AutoSampler Report Table: USB004 Thu 09-28-95 11:05:02 AM page 1

ICAP 61 E Trace Analyzer

Table Name: USB004 Autosampler Type: TYPECTJA

Sample Positions: 41/96 QC Positions: 13/19 # Sets: 1

Rinse Station location is rack -1, pos. -1.

--- Racks ---

| Rack # | Type | Usage | #Pos Left | Analyses/Pos |
|---|---|---|---|---|
| 1 | Aux. (L) Rack | STD/QC/BLANK | 13 | 10 |
| 2 | Sample (28mm) | Samples | 0 | 1 |
| 3 | Sample (28mm) | Samples | 0 | 1 |
| 4 | Sample (28mm) | Samples | 17 | 1 |
| 5 | Sample (28mm) | Samples | 24 | 1 |

--- Sample Sets ---

| Set# | Type | Prepare? | Description | Method | #Pos | Rack# | StartPos |
|---|---|---|---|---|---|---|---|
| 1 | Normal | No | USB004,DEC0912 Pspk | CLP1 | 55 | 2 | 1 |

--- Preparation Info ---

| Set# | Uptake | Uptake#2 | Final | Dil.Factor |
|---|---|---|---|---|

No Samples Prepared.

Rack #1

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | NAKH | -NA- | 1 | Standard |
| 2 | 1 | 2 | MULTIH | -NA- | 1 | Standard |
| 3 | 1 | 3 | FURNH | -NA- | 1 | Standard |
| 4 | 1 | 4 | ICSH | -NA- | 1 | Standard |
| 5 | 1 | 5 | AGSBH | -NA- | 1 | Standard |
| 6 | 1 | 6 | BLANK | -NA- | 1 | Standard |

(7...19 Not Used)

Rack #2

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | ICV | 1 | -NA- | Sample |
| 2 | 1 | 2 | ICB | 1 | -NA- | Sample |
| 3 | 1 | 3 | CRII | 1 | -NA- | Sample |
| 4 | 1 | 4 | ICSAI | 1 | -NA- | Sample |
| 5 | 1 | 5 | ICSABI | 1 | -NA- | Sample |
| 6 | 1 | 6 | CCV1 | 1 | -NA- | Sample |
| 7 | 1 | 7 | CCB1 | 1 | -NA- | Sample |
| 8 | 1 | 8 | PBW | 1 | -NA- | Sample |
| 9 | 2 | 1 | PBS | 1 | -NA- | Sample |
| 10 | 2 | 2 | LCSW | 1 | -NA- | Sample |
| 11 | 2 | 3 | LCSS | 1 | -NA- | Sample |
| 12 | 2 | 4 | 9525477P | 1 | -NA- | Sample |
| 13 | 2 | 5 | 9525477L | 1 | -NA- | Sample |
| 14 | 2 | 6 | CRIF | 1 | -NA- | Sample |
| 15 | 2 | 7 | ICSAF | 1 | -NA- | Sample |

Rack #2

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 16 | 2 | 8 | ICSABF | 1 | -NA- | Sample |
| 17 | 3 | 1 | CCV2 | 1 | -NA- | Sample |
| 18 | 3 | 2 | CCB2 | 1 | -NA- | Sample |
| 19 | 3 | 3 | FLDBLK | 1 | -NA- | Sample |
| 20 | 3 | 4 | XXXXB1 | 1 | -NA- | Sample |
| 21 | 3 | 5 | XXB2AX | 1 | -NA- | Sample |
| 22 | 3 | 6 | XXB3AX | 1 | -NA- | Sample |
| 23 | 3 | 7 | XXB4AX | 1 | -NA- | Sample |
| 24 | 3 | 8 | XXB5AX | 1 | -NA- | Sample |

Rack #3

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | XXB5AXD | 1 | -NA- | Sample |
| 2 | 1 | 2 | XXB5AXS | 1 | -NA- | Sample |
| 3 | 1 | 3 | XXB5AXL | 1 | -NA- | Sample |
| 4 | 1 | 4 | BLINDD | 1 | -NA- | Sample |
| 5 | 1 | 5 | CCV3 | 1 | -NA- | Sample |
| 6 | 1 | 6 | CCB3 | 1 | -NA- | Sample |
| 7 | 1 | 7 | XVAULT | 1 | -NA- | Sample |
| 8 | 1 | 8 | XVAULTD | 1 | -NA- | Sample |
| 9 | 2 | 1 | XVAULTS | 1 | -NA- | Sample |
| 10 | 2 | 2 | XVAULTL | 1 | -NA- | Sample |
| 11 | 2 | 3 | XXB5AXP | 1 | -NA- | Sample |
| 12 | 2 | 4 | XVAULTP | 1 | -NA- | Sample |
| 13 | 2 | 5 | CRIF | 1 | -NA- | Sample |
| 14 | 2 | 6 | ICSAF | 1 | -NA- | Sample |
| 15 | 2 | 7 | ICSABF | 1 | -NA- | Sample |
| 16 | 2 | 8 | CCV4 | 1 | -NA- | Sample |
| 17 | 3 | 1 | CCB4 | 1 | -NA- | Sample |
| 18 | 3 | 2 | ( empty ) | 1 | -NA- | -NA- |
| 19 | 3 | 3 | ( empty ) | 1 | -NA- | -NA- |
| 20 | 3 | 4 | ( empty ) | 1 | -NA- | -NA- |
| 21 | 3 | 5 | ( empty ) | 1 | -NA- | -NA- |
| 22 | 3 | 6 | ( empty ) | 1 | -NA- | -NA- |
| 23 | 3 | 7 | ( empty ) | 1 | -NA- | -NA- |
| 24 | 3 | 8 | ( empty ) | 1 | -NA- | -NA- |

Rack #4

| Pos | Row | Col | Sample Name | Set # | #Used | Type |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | ( empty ) | 1 | -NA- | -NA- |
| 2 | 1 | 2 | ( empty ) | 1 | -NA- | -NA- |
| 3 | 1 | 3 | ( empty ) | 1 | -NA- | -NA- |
| 4 | 1 | 4 | ( empty ) | 1 | -NA- | -NA- |
| 5 | 1 | 5 | ( empty ) | 1 | -NA- | -NA- |
| 6 | 1 | 6 | ( empty ) | 1 | -NA- | -NA- |
| 7 | 1 | 7 | ( empty ) | 1 | -NA- | -NA- |

(8...24 Not Used)

Thermo Jarrell Ash
Standardization Rpt.
ICAP 61E Trace Analyzer
Method: CLP1 Standard: BLANK

USB004 CLP Analysis
NDEC0912 - Pb Post Spike
Thu 09-28-95 01:10:06 PM page 1
Data File: USB004.ASC

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Avge | .00001 | .0086 | -.00056 | .0004 | .0000 | .0001 | .0006 |
| SDev | .00003 | .0000 | .00016 | .0000 | .0000 | .0000 | .0000 |
| %RSD | 301.27 | .0986 | 29.508 | 3.320 | 33.20 | 19.88 | 4.135 |
| #1 | .00001 | .0086 | -.00061 | .0004 | .0000 | .0001 | .0006 |
| #2 | -.00002 | .0086 | -.00037 | .0004 | .0000 | .0001 | .0006 |
| #3 | .00004 | .0086 | -.00069 | .0004 | .0000 | .0001 | .0006 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Avge | .0002 | .0000 | .0005 | .0011 | .0007 | .0025 | .0001 |
| SDev | .0004 | .0000 | .0001 | .0000 | .0004 | .0001 | .0000 |
| %RSD | 159.1 | 49.86 | 16.62 | 1.175 | 62.32 | 4.204 | 16.27 |
| #1 | .0001 | .0000 | .0006 | .0011 | .0012 | .0026 | .0001 |
| #2 | -.0000 | .0000 | .0004 | .0011 | .0005 | .0026 | .0001 |
| #3 | .0007 | .0000 | .0005 | .0012 | .0004 | .0024 | .0001 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | 2068/1 |
|---|---|---|---|---|---|---|---|
| Avge | .0004 | .0000 | -.0061 | .0006 | .00122 | .00003 | -.00003 |
| SDev | .0003 | .0000 | .0002 | .0003 | .00007 | .00019 | .00035 |
| %RSD | 64.67 | 25.09 | 2.630 | 62.64 | 5.4366 | 700.41 | 1365.9 |
| #1 | .0008 | .0000 | -.0062 | .0009 | .00129 | .00016 | .00021 |
| #2 | .0003 | .0000 | -.0059 | .0005 | .00116 | -.00020 | -.00043 |
| #3 | .0002 | .0000 | -.0063 | .0003 | .00121 | .00012 | .00015 |

| Elem | 2068/2 | 1960/1 | 1960/2 | Tl1908 | V | Zn |
|---|---|---|---|---|---|---|
| Avge | .00002 | -.00120 | .00051 | -.00106 | .0000 | .0006 |
| SDev | .00012 | .00006 | .00012 | .00011 | .0000 | .0000 |
| %RSD | 509.65 | 5.3446 | 23.898 | 10.003 | 36.58 | 2.068 |
| #1 | .00016 | -.00117 | .00064 | -.00100 | .0000 | .0006 |
| #2 | -.00002 | -.00115 | .00047 | -.00118 | .0000 | .0006 |
| #3 | -.00007 | -.00127 | .00040 | -.00100 | .0000 | .0006 |

Method: CLP1 Standard: AGSBH

| Elem | AG | 2068/1 | 2068/2 |
|---|---|---|---|
| Avge | .14137 | .53467 | .25772 |
| SDev | .00022 | .00130 | .00063 |
| %RSD | .15637 | .24358 | .24294 |
| #1 | .14116 | .53388 | .25831 |
| #2 | .14133 | .53396 | .25779 |
| #3 | .14160 | .53617 | .25706 |

Method: CLP1 Standard: ICSH

| Elem | Al | Ca | Fe | Mg |
|---|---|---|---|---|
| Avge | 6.094 | 9.225 | 2.246 | 11.88 |
| SDev | .005 | .009 | .002 | .02 |
| %RSD | .0902 | .0926 | .0938 | .1438 |
| | | | | |
| #1 | 6.091 | 9.224 | 2.246 | 11.87 |
| #2 | 6.100 | 9.218 | 2.244 | 11.87 |
| #3 | 6.090 | 9.235 | 2.248 | 11.90 |

Method: CLP1 Standard: FURNH

| Elem | As1890 | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|
| Avge | .18434 | .83373 | .33940 | .10881 | .07950 | .15861 |
| SDev | .00040 | .00247 | .00057 | .00052 | .00017 | .00046 |
| %RSD | .21929 | .29612 | .16862 | .47545 | .21788 | .28693 |
| #1 | .18473 | .83106 | .33993 | .10927 | .07959 | .15829 |
| #2 | .18392 | .83422 | .33947 | .10825 | .07930 | .15913 |
| #3 | .18438 | .83592 | .33879 | .10891 | .07961 | .15841 |

Method: CLP1 Standard: MULTIH

| Elem | B | Ba | Be | Cd | Co | Cr | Cu |
|---|---|---|---|---|---|---|---|
| Avge | .3305 | 1.332 | 1.747 | 15.39 | .3171 | .4481 | .3150 |
| SDev | .0005 | .002 | .002 | .03 | .0004 | .0006 | .0004 |
| %RSD | .1420 | .1759 | .0988 | .2272 | .1249 | .1443 | .1136 |
| #1 | .3299 | 1.334 | 1.746 | 15.35 | .3168 | .4475 | .3151 |
| #2 | .3306 | 1.332 | 1.747 | 15.38 | .3170 | .4481 | .3153 |
| #3 | .3308 | 1.329 | 1.749 | 15.42 | .3175 | .4488 | .3146 |

| Elem | Mn | Mo | Ni | V | Zn |
|---|---|---|---|---|---|
| Avge | 1.078 | .1999 | .4125 | .2234 | .7071 |
| SDev | .001 | .0002 | .0006 | .0001 | .0012 |
| %RSD | .0825 | .1047 | .1525 | .0659 | .1640 |
| #1 | 1.077 | .1998 | .4119 | .2233 | .7060 |
| #2 | 1.078 | .2002 | .4126 | .2234 | .7070 |
| #3 | 1.079 | .1998 | .4131 | .2235 | .7083 |

Method: CLP1 Standard: NAKH

| Elem | K | Na |
|---|---|---|
| Avge | 11.47 | 3.873 |
| SDev | .00 | .004 |
| %RSD | .0405 | .0940 |
| | | |
| #1 | 11.47 | 3.873 |
| #2 | 11.47 | 3.877 |
| #3 | 11.48 | 3.870 |

Standardization Report Thu 09-28-95 01:33:00 PM page 1

Method: CLP1 Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std | Slope | Y-intercept | Date Standardized |
|---|---|---|---|---|---|---|
| AG | 328.068 | AGSBH | BLANK | 14148.5 | -.131270 | 09/28/95 01:29:43 |
| Al | 308.215 | ICSH | BLANK | 82.1702 | -.705782 | 09/28/95 01:29:43 |
| As1890 | 189.042 | FURNH | BLANK | 5408.30 | 3.01301 | 09/28/95 01:29:43 |
| B | 249.678 | MULTIH | BLANK | 15.1483 | -.005909 | 09/28/95 01:29:43 |
| Ba | 493.409 | MULTIH | BLANK | 3.75520 | -.000126 | 09/28/95 01:29:43 |
| Be | 313.042 | MULTIH | BLANK | 2.86172 | -.000179 | 09/28/95 01:29:43 |
| Ca | 317.933 | ICSH | BLANK | 1.04842 | -.000022 | 09/28/95 01:29:43 |
| Cd | 226.502 | MULTIH | BLANK | .324939 | -.000077 | 09/28/95 01:29:43 |
| Co | 228.616 | MULTIH | BLANK | 15.7675 | -.000220 | 09/28/95 01:29:43 |
| Cr | 267.716 | MULTIH | BLANK | 11.1691 | -.005354 | 09/28/95 01:29:43 |
| Cu | 324.754 | MULTIH | BLANK | 15.9323 | -.018236 | 09/28/95 01:29:43 |
| Fe | 271.441 | ICSH | BLANK | 111.330 | -.076077 | 09/28/95 01:29:43 |
| K | 766.491 | NAKH | BLANK | .915951 | .001469 | 09/28/95 01:29:43 |
| Mg | 279.079 | ICSH | BLANK | 1.07524 | .000057 | 09/28/95 01:29:43 |
| Mn | 257.610 | MULTIH | BLANK | 4.63901 | -.002034 | 09/28/95 01:29:43 |
| Mo | 202.030 | MULTIH | BLANK | 25.0123 | -.000726 | 09/28/95 01:29:43 |
| Na | 330.232 | NAKH | BLANK | .981952 | .000388 | 09/28/95 01:29:43 |
| Ni | 231.604 | MULTIH | BLANK | 12.1363 | -.006717 | 09/28/95 01:29:43 |
| 2203/1 | 220.351 | FURNH | BLANK | 1201.19 | -1.46824 | 09/28/95 01:29:43 |
| 2203/2 | 220.352 | FURNH | BLANK | 2946.64 | -.081571 | 09/28/95 01:29:43 |
| Pb2203 | 220.353 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| Sb2068 | 206.838 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| Se1960 | 196.026 | NONE | NONE | .000000 | .000000 | *NOT STANDARDIZED |
| 2068/1 | 206.831 | AGSBH | BLANK | 3740.44 | .096733 | 09/28/95 01:29:43 |
| 2068/2 | 206.832 | AGSBH | BLANK | 7761.09 | -.188319 | 09/28/95 01:29:43 |
| 1960/1 | 196.021 | FURNH | BLANK | 9090.20 | 10.8903 | 09/28/95 01:29:43 |
| 1960/2 | 196.022 | FURNH | BLANK | 12659.3 | -6.40605 | 09/28/95 01:29:43 |
| Tl1908 | 190.864 | FURNH | BLANK | 6262.88 | 6.63843 | 09/28/95 01:29:43 |
| V | 292.402 | MULTIH | BLANK | 22.3823 | -.000442 | 09/28/95 01:29:43 |
| Zn | 213.856 | MULTIH | BLANK | 7.07697 | -.004165 | 09/28/95 01:29:43 |

Method: CLP1

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| AG | 328.068 | BLANK | .000000 | -.000000 | .000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Al | 308.215 | BLANK | .000000 | -.000000 | .000000 |
| | | ICSH | 500.000 | 500.000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| As1890 | 189.042 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | -.000061 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| B | 249.678 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Ba | 493.409 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Be | 313.042 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Ca | 317.933 | BLANK | .000594 | .000587 | .000007 |
| | | ICSH | 9.67217 | 9.22549 | .446681 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cd | 226.502 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Co | 228.616 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cr | 267.716 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Cu | 324.754 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Fe | 271.441 | BLANK | .000000 | .000000 | -.000000 |
| | | ICSH | 250.000 | 250.000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| K | 766.491 | BLANK | .003790 | .002534 | .001256 |
| | | NAKH | 10.5097 | 11.4724 | -.962776 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Mg | 279.079 | BLANK | .000194 | .000128 | .000067 |
| | | ICSH | 12.7775 | 11.8833 | .894189 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Mn | 257.610 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Mo | 202.030 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Signal | Measured Signal | Residual Signal |
|---|---|---|---|---|---|
| Na | 330.232 | BLANK | -.005625 | -.006123 | .000499 |
| | | NAKH | 3.80378 | 3.87330 | -.069518 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Ni | 231.604 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2203/1 | 220.351 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | -.000061 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2203/2 | 220.352 | BLANK | .000000 | -.000000 | .000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Pb2203 | 220.353 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Sb2068 | 206.838 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Se1960 | 196.026 | NONE | .000000 | .000000 | .000000 |
| | | NONE | .000000 | .000000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2068/1 | 206.831 | BLANK | .000000 | -.000000 | .000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 2068/2 | 206.832 | BLANK | .000000 | -.000000 | .000000 |
| | | AGSBH | 2000.00 | 2000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 1960/1 | 196.021 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| 1960/2 | 196.022 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Tl1908 | 190.864 | BLANK | .000000 | .000000 | -.000000 |
| | | FURNH | 1000.00 | 1000.00 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| V | 292.402 | BLANK | .000000 | -.000000 | .000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

| Element | Wavelength | Standard | Known Concentration | Measured Concentration | Residual Concentration |
|---|---|---|---|---|---|
| Zn | 213.856 | BLANK | .000000 | .000000 | -.000000 |
| | | MULTIH | 5.00000 | 5.00000 | .000000 |

Method: CLP1 Sample Name: ICV1 Operator: CGZ
Run Time: 09/28/95 13:35:53
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 971.42 | 49.94 | 500.16 | 2.504 | 2.505 | 2.541 | 47.78 |
| SDev | 1.65 | .13 | 3.04 | .001 | .004 | .001 | .04 |
| %RSD | .16997 | .2570 | .60781 | .0529 | .1771 | .0304 | .0829 |
| #1 | 969.75 | 49.81 | 497.15 | 2.502 | 2.503 | 2.541 | 47.74 |
| #2 | 971.44 | 49.93 | 500.11 | 2.504 | 2.503 | 2.541 | 47.81 |
| #3 | 973.06 | 50.07 | 503.23 | 2.505 | 2.511 | 2.542 | 47.80 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.451 | 2.468 | 2.480 | 2.521 | 50.92 | 76.52 | 48.58 |
| SDev | .001 | .002 | .002 | .006 | .04 | .38 | .03 |
| %RSD | .0474 | .0826 | .0881 | .2532 | .0758 | .5000 | .0618 |
| #1 | 2.449 | 2.465 | 2.477 | 2.516 | 50.88 | 76.19 | 48.55 |
| #2 | 2.451 | 2.469 | 2.480 | 2.518 | 50.95 | 76.42 | 48.61 |
| #3 | 2.451 | 2.468 | 2.481 | 2.528 | 50.94 | 76.94 | 48.58 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.490 | 2.491 | 76.63 | 2.453 | 492.67 | 490.51 | 491.23 |
| SDev | .002 | .003 | .15 | .001 | 1.90 | 1.86 | 1.77 |
| %RSD | .0939 | .1293 | .1893 | .0225 | .38540 | .37846 | .36058 |
| #1 | 2.488 | 2.487 | 76.54 | 2.452 | 492.29 | 491.57 | 491.81 |
| #2 | 2.490 | 2.491 | 76.55 | 2.452 | 491.00 | 488.37 | 489.25 |
| #3 | 2.493 | 2.493 | 76.80 | 2.453 | 494.74 | 491.60 | 492.64 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1001.9 | 499.76 | 1005.9 | 999.95 | 503.13 | 498.07 | 503.61 |
| SDev | 2.7 | 1.84 | 3.6 | 2.90 | 3.46 | 4.47 | .33 |
| %RSD | .27175 | .36819 | .35641 | .29044 | .68842 | .89732 | .06477 |
| #1 | 999.68 | 498.37 | 1005.4 | 996.84 | 506.26 | 494.44 | 503.42 |
| #2 | 1001.1 | 501.85 | 1002.6 | 1000.4 | 499.41 | 503.06 | 503.43 |
| #3 | 1005.0 | 499.05 | 1009.7 | 1002.6 | 503.73 | 496.72 | 503.99 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 2.484 | 2.550 |
| SDev | .001 | .001 |
| %RSD | .0421 | .0568 |
| #1 | 2.483 | 2.549 |
| #2 | 2.484 | 2.550 |
| #3 | 2.485 | 2.551 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

Analysis Report Thu 09-28-95 01:47:13 PM 

Method: CLP1 Sample Name: ICB1 Operator: CGZ
Run Time: 09/28/95 13:41:37
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .24806 | .0183 | 1.0160 | .0023 | .0008 | .0008 | .0122 |
| SDev | .37491 | .0072 | .7723 | .0003 | .0003 | .0003 | .0048 |
| %RSD | 151.14 | 39.00 | 76.010 | 11.32 | 33.33 | 32.98 | 39.04 |
| #1 | .41458 | .0254 | .26081 | .0024 | .0010 | .0010 | .0169 |
| #2 | -.18127 | .0185 | .98296 | .0025 | .0008 | .0008 | .0124 |
| #3 | .51087 | .0111 | 1.8043 | .0020 | .0005 | .0005 | .0074 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | .0007 | -.0034 | .0010 | -.0486 | .0052 | .0127 |
| SDev | .0003 | .0004 | .0005 | .0003 | .0079 | .0033 | .0047 |
| %RSD | 33.41 | 59.32 | 13.77 | 29.66 | 16.25 | 63.56 | 37.14 |
| #1 | .0011 | .0009 | -.0033 | .0014 | -.0464 | .0078 | .0158 |
| #2 | .0008 | .0009 | -.0030 | .0009 | -.0421 | .0064 | .0150 |
| #3 | .0006 | .0002 | -.0039 | .0008 | -.0574 | .0015 | .0073 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0009 | .0015 | .0922 | -.0055 | .86407 | -.80938 | -.25212 |
| SDev | .0002 | .0007 | .0641 | .0004 | 3.2822 | 1.43738 | .52330 |
| %RSD | 27.44 | 47.68 | 69.60 | 7.936 | 379.86 | 177.59 | 207.56 |
| #1 | -.0006 | .0023 | .0432 | -.0052 | -2.9096 | .56778 | -.59018 |
| #2 | -.0009 | .0014 | .1648 | -.0052 | 2.4465 | -.69570 | .35065 |
| #3 | -.0011 | .0008 | .0686 | -.0060 | 3.0553 | -2.3002 | -.51684 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | .84366 | .24182 | -1.0721 | 1.8001 | .81246 | -.04308 | .32370 |
| SDev | 2.0927 | 1.3430 | 3.1100 | 1.6922 | .50602 | 2.23010 | .73213 |
| %RSD | 248.05 | 555.36 | 290.08 | 94.005 | 62.283 | 5177.1 | 226.17 |
| #1 | 2.4813 | 1.6348 | .57052 | 3.4353 | .23212 | 2.3350 | 1.0742 |
| #2 | 1.5637 | .13552 | .87210 | 1.9089 | 1.1615 | -.37670 | .28545 |
| #3 | -1.5140 | -1.0448 | -4.6590 | .05613 | 1.0438 | -2.0876 | -.38855 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0007 | .0008 |
| SDev | .0005 | .0003 |
| %RSD | 75.42 | 40.75 |
| #1 | .0011 | .0011 |
| #2 | .0009 | .0007 |
| #3 | .0001 | .0005 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Thu 09-28-95 01:52:58 PM page 1

Method: CLP1 Sample Name: CRII1 Operator: CGZ
Run Time: 09/28/95 13:47:22
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 19.209 | .0376 | 20.758 | .0017 | .0002 | .0107 | .0117 |
| SDev | .403 | .0022 | 1.181 | .0003 | .0000 | .0001 | .0010 |
| %RSD | 2.0982 | 5.934 | 5.6890 | 18.91 | 19.55 | .5372 | 8.209 |
| #1 | 18.764 | .0383 | 19.467 | .0016 | .0002 | .0107 | .0122 |
| #2 | 19.550 | .0393 | 21.024 | .0014 | .0002 | .0107 | .0124 |
| #3 | 19.313 | .0350 | 21.784 | .0020 | .0001 | .0106 | .0106 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0103 | .1012 | .0163 | .0523 | -.0464 | -.0017 | .0016 |
| SDev | .0001 | .0002 | .0002 | .0004 | .0046 | .0013 | .0016 |
| %RSD | .6150 | .2096 | 1.021 | .6990 | 10.01 | 75.25 | 96.32 |
| #1 | .0103 | .1009 | .0161 | .0521 | -.0471 | -.0026 | .0012 |
| #2 | .0104 | .1014 | .0163 | .0528 | -.0414 | -.0002 | .0034 |
| #3 | .0103 | .1012 | .0164 | .0521 | -.0506 | -.0023 | .0004 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0295 | .0004 | .0694 | .0753 | 6.6374 | 5.0202 | 5.5587 |
| SDev | .0001 | .0002 | .0659 | .0006 | 1.0578 | .4164 | .4964 |
| %RSD | .4504 | 53.87 | 95.04 | .7852 | 15.938 | 8.2953 | 8.9295 |
| #1 | .0294 | .0007 | .0243 | .0750 | 6.3620 | 5.4511 | 5.7544 |
| #2 | .0297 | .0003 | .0388 | .0760 | 5.7445 | 4.6199 | 4.9944 |
| #3 | .0295 | .0003 | .1451 | .0751 | 7.8057 | 4.9897 | 5.9274 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 127.22 | 9.9547 | 124.42 | 128.62 | 9.8162 | 10.024 | 20.119 |
| SDev | .56 | 1.1788 | .62 | 1.11 | .0807 | 1.740 | .772 |
| %RSD | .43844 | 11.842 | .49821 | .86436 | .82177 | 17.361 | 3.8378 |
| #1 | 126.92 | 8.8741 | 124.37 | 128.20 | 9.8076 | 8.4080 | 19.420 |
| #2 | 126.87 | 11.212 | 125.06 | 127.78 | 9.9008 | 11.866 | 19.988 |
| #3 | 127.86 | 9.7782 | 123.82 | 129.88 | 9.7402 | 9.7971 | 20.948 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1015 | .0418 |
| SDev | .0008 | .0001 |
| %RSD | .7369 | .2537 |
| #1 | .1007 | .0417 |
| #2 | .1021 | .0419 |
| #3 | .1017 | .0418 |

Analysis Report Thu 09-28-95 01:58:36 PM page 1

Method: CLP1 Sample Name: ICSAI1 Operator: CGZ
Run Time: 09/28/95 13:53:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.66789 | 495.4 | -.43314 | .0037 | .0063 | .0002 | 497.7 |
| SDev | .30433 | .1 | .53629 | .0002 | .0000 | .0000 | 1.3 |
| %RSD | 45.566 | .0207 | 123.81 | 6.336 | .4069 | 3.486 | .2669 |
| #1 | -.58254 | 495.3 | -.12243 | .0035 | .0063 | .0002 | 496.7 |
| #2 | -1.0058 | 495.4 | -.12461 | .0040 | .0062 | .0002 | 497.2 |
| #3 | -.41534 | 495.5 | -1.0524 | .0036 | .0063 | .0002 | 499.2 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 600.0 | | | .2000 | .0050 | 600.0 |
| Low | -10.000 | 400.0 | | | -.2000 | -.0050 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0025 | .0010 | .0014 | .0117 | 195.0 | -.0009 | 489.8 |
| SDev | .0001 | .0004 | .0002 | .0003 | .3 | .0013 | .7 |
| %RSD | 3.239 | 37.33 | 16.87 | 2.703 | .1633 | 138.1 | .1509 |
| #1 | .0025 | .0008 | .0012 | .0118 | 194.7 | -.0016 | 489.0 |
| #2 | .0025 | .0007 | .0015 | .0113 | 194.9 | -.0018 | 489.8 |
| #3 | .0024 | .0014 | .0016 | .0119 | 195.3 | .0006 | 490.5 |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass |
| High | .0050 | | .0100 | | 240.0 | | 600.0 |
| Low | -.0050 | | -.0100 | | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0048 | -.0039 | .5734 | -.0007 | -6.5234 | 10.380 | 4.7514 |
| SDev | .0000 | .0008 | .0475 | .0007 | 2.4893 | 1.942 | .5296 |
| %RSD | .5221 | 19.07 | 8.291 | 100.00 | 38.160 | 18.711 | 11.146 |
| #1 | .0048 | -.0048 | .5796 | -.0014 | -9.3794 | 12.604 | 5.2838 |
| #2 | .0049 | -.0034 | .5231 | -.0006 | -5.3772 | 9.0184 | 4.2247 |
| #3 | .0048 | -.0037 | .6176 | -.0000 | -4.8137 | 9.5181 | 4.7456 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | | .0400 | | | 6.0000 |
| Low | -.0150 | | | -.0400 | | | -6.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 2.7520 | -1.5118 | -.12915 | 4.1904 | -2.8800 | -.82868 | -4.8347 |
| SDev | 1.1050 | .9569 | 5.62851 | 2.6747 | 2.4829 | 2.37562 | 1.5094 |
| %RSD | 40.152 | 63.296 | 4358.1 | 63.828 | 86.213 | 286.67 | 31.221 |
| #1 | 1.6255 | -1.9579 | .55131 | 2.1618 | -4.3574 | -.75995 | -3.1196 |
| #2 | 3.8341 | -.41328 | 5.1282 | 3.1880 | -4.2693 | 1.5118 | -5.9609 |
| #3 | 2.7964 | -2.1642 | -6.0670 | 7.2215 | -.01342 | -3.2379 | -5.4236 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0008 | .0069 |
| SDev | .0002 | .0001 |
| %RSD | 28.21 | 1.538 |
| #1 | .0010 | .0070 |
| #2 | .0006 | .0068 |
| #3 | .0007 | .0068 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Thu 09-28-95 02:04:18 PM page 1

Method: CLP1 Sample Name: ICSABI1 Operator: CGZ
Run Time: 09/28/95 13:58:43
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 1042.2 | 488.8 | 987.81 | .0046 | .5248 | .5068 | 491.3 |
| SDev | 3.2 | 1.8 | 1.61 | .0002 | .0019 | .0008 | 1.0 |
| %RSD | .30697 | .3766 | .16259 | 5.104 | .3532 | .1630 | .2131 |
| #1 | 1039.2 | 486.9 | 988.66 | .0047 | .5228 | .5063 | 490.9 |
| #2 | 1041.9 | 488.9 | 985.96 | .0048 | .5251 | .5064 | 490.6 |
| #3 | 1045.6 | 490.6 | 988.82 | .0043 | .5264 | .5078 | 492.5 |
| Errors | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 600.0 | 1200.0 | | .6000 | .6000 | 600.0 |
| Low | 800.00 | 400.0 | 800.00 | | .4000 | .4000 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9390 | .4840 | .4845 | .5408 | 193.2 | -.0011 | 485.5 |
| SDev | .0014 | .0010 | .0012 | .0019 | .4 | .0019 | 1.0 |
| %RSD | .1483 | .2087 | .2467 | .3538 | .1812 | 177.6 | .2035 |
| #1 | .9389 | .4836 | .4836 | .5388 | 192.9 | -.0014 | 484.8 |
| #2 | .9376 | .4833 | .4840 | .5410 | 193.1 | -.0027 | 485.0 |
| #3 | .9404 | .4852 | .4858 | .5427 | 193.6 | .0010 | 486.6 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass |
| High | 1.200 | .6000 | .6000 | .6000 | 240.0 | | 600.0 |
| Low | .8000 | .4000 | .4000 | .4000 | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .5049 | -.0019 | .5844 | .9459 | 941.32 | 967.91 | 959.05 |
| SDev | .0008 | .0016 | .0808 | .0030 | 4.83 | 3.31 | .73 |
| %RSD | .1665 | 85.03 | 13.82 | .3149 | .51352 | .34188 | .07592 |
| #1 | .5043 | -.0018 | .5660 | .9434 | 936.11 | 971.08 | 959.44 |
| #2 | .5045 | -.0035 | .5144 | .9452 | 942.20 | 968.15 | 959.51 |
| #3 | .5058 | -.0003 | .6727 | .9492 | 945.66 | 964.48 | 958.21 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .6000 | | | 1.200 | | | 1200.0 |
| Low | .4000 | | | .8000 | | | 800.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 6.0106 | 979.54 | 1.2826 | 8.3710 | 979.99 | 979.32 | 951.45 |
| SDev | 1.3961 | 4.25 | .8599 | 2.0491 | 3.64 | 5.67 | 2.54 |
| %RSD | 23.227 | .43362 | 67.042 | 24.479 | .37190 | .57916 | .26738 |
| #1 | 5.0871 | 978.09 | 1.9634 | 6.6466 | 975.89 | 979.19 | 948.95 |
| #2 | 7.6166 | 976.21 | 1.5681 | 10.636 | 981.21 | 973.71 | 951.36 |
| #3 | 5.3280 | 984.32 | .31626 | 7.8301 | 982.86 | 985.05 | 954.03 |
| Errors | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | | 1200.0 | | | | | 1200.0 |

| | | | |
|---|---|---|---|
| Low | | 800.00 | 800.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .5063 | 1.040 |
| SDev | .0006 | .002 |
| %RSD | .1163 | .1774 |
| #1 | .5056 | 1.039 |
| #2 | .5067 | 1.040 |
| #3 | .5065 | 1.042 |
| Errors | LC Pass | LC Pass |
| High | .6000 | 1.200 |
| Low | .4000 | .8000 |

Analysis Report Thu 09-28-95 02:10:03 PM page 1

Method: CLP1 Sample Name: CCV1 Operator: CGZ
Run Time: 09/28/95 14:04:27
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 967.20 | 49.68 | 499.92 | 2.494 | 2.489 | 2.533 | 47.61 |
| SDev | 10.93 | .66 | 4.43 | .029 | .031 | .030 | .59 |
| %RSD | 1.1301 | 1.325 | .88574 | 1.181 | 1.245 | 1.189 | 1.244 |
| #1 | 954.73 | 48.92 | 494.82 | 2.460 | 2.454 | 2.499 | 46.93 |
| #2 | 971.77 | 50.03 | 502.12 | 2.508 | 2.505 | 2.545 | 47.86 |
| #3 | 975.11 | 50.09 | 502.82 | 2.513 | 2.509 | 2.556 | 48.03 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.442 | 2.458 | 2.463 | 2.507 | 50.67 | 75.70 | 48.72 |
| SDev | .030 | .032 | .031 | .030 | .64 | 1.03 | .57 |
| %RSD | 1.220 | 1.289 | 1.259 | 1.216 | 1.262 | 1.364 | 1.179 |
| #1 | 2.408 | 2.422 | 2.427 | 2.472 | 49.94 | 74.51 | 48.06 |
| #2 | 2.455 | 2.472 | 2.476 | 2.523 | 50.94 | 76.26 | 48.98 |
| #3 | 2.464 | 2.480 | 2.485 | 2.527 | 51.13 | 76.33 | 49.11 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.479 | 2.482 | 76.15 | 2.441 | 492.69 | 488.78 | 490.08 |
| SDev | .031 | .031 | .89 | .029 | 3.35 | 5.89 | 4.91 |
| %RSD | 1.251 | 1.249 | 1.174 | 1.182 | .68033 | 1.2059 | 1.0011 |
| #1 | 2.444 | 2.446 | 75.12 | 2.408 | 489.37 | 481.97 | 484.44 |
| #2 | 2.493 | 2.497 | 76.63 | 2.454 | 492.65 | 492.40 | 492.48 |
| #3 | 2.501 | 2.502 | 76.70 | 2.461 | 496.07 | 491.95 | 493.32 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 997.70 | 499.38 | 999.25 | 996.93 | 507.16 | 495.50 | 503.29 |
| SDev | 8.63 | 3.47 | 12.68 | 6.69 | 5.23 | 3.49 | 7.37 |
| %RSD | .86528 | .69549 | 1.2685 | .67099 | 1.0313 | .70362 | 1.4646 |
| #1 | 988.57 | 495.91 | 985.28 | 990.21 | 504.77 | 491.48 | 494.78 |
| #2 | 998.82 | 499.39 | 1002.5 | 996.99 | 503.55 | 497.31 | 507.33 |
| #3 | 1005.7 | 502.85 | 1010.0 | 1003.6 | 513.16 | 497.71 | 507.75 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

| | | | |
|---|---|---|---|
| Low | 900.00 | 450.00 | 450.00 |

| | | |
|---|---|---|
| Elem | V | Zn |
| Units | ppm | ppm |
| Avge | 2.472 | 2.539 |
| SDev | .031 | .029 |
| %RSD | 1.258 | 1.142 |
| #1 | 2.436 | 2.506 |
| #2 | 2.486 | 2.551 |
| #3 | 2.493 | 2.560 |
| Errors | LC Pass | LC Pass |
| High | 2.750 | 2.750 |
| Low | 2.250 | 2.250 |

Analysis Report Thu 09-28-95 02:15:49 PM 

Method: CLP1 Sample Name: CCB1 Operator: CGZ
Run Time: 09/28/95 14:10:13
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .14917 | .0526 | -.09403 | .0019 | .0007 | .0007 | .0428 |
| SDev | .28999 | .0144 | .73307 | .0005 | .0002 | .0002 | .0146 |
| %RSD | 194.41 | 27.38 | 779.64 | 25.93 | 33.91 | 33.47 | 34.22 |
| #1 | .36351 | .0684 | -.52499 | .0024 | .0010 | .0009 | .0582 |
| #2 | -.18080 | .0494 | .75240 | .0016 | .0007 | .0007 | .0411 |
| #3 | .26478 | .0401 | -.50949 | .0016 | .0005 | .0005 | .0291 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0007 | .0005 | -.0038 | .0009 | -.0354 | .0021 | .0419 |
| SDev | .0003 | .0002 | .0001 | .0002 | .0091 | .0014 | .0132 |
| %RSD | 37.58 | 49.96 | 3.983 | 23.25 | 25.74 | 69.65 | 31.62 |
| #1 | .0010 | .0007 | -.0036 | .0011 | -.0274 | .0037 | .0557 |
| #2 | .0007 | .0004 | -.0039 | .0007 | -.0334 | .0014 | .0408 |
| #3 | .0004 | .0003 | -.0038 | .0010 | -.0453 | .0010 | .0293 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0010 | .0008 | .0374 | -.0057 | 1.1216 | -.38652 | .11569 |
| SDev | .0002 | .0005 | .0536 | .0004 | 3.0728 | 1.66090 | .11655 |
| %RSD | 24.77 | 57.03 | 143.0 | 6.315 | 273.96 | 429.70 | 100.74 |
| #1 | -.0007 | .0009 | .0387 | -.0055 | 4.2403 | -2.1363 | -.01287 |
| #2 | -.0010 | .0013 | -.0167 | -.0061 | 1.0277 | -.19158 | .21443 |
| #3 | -.0012 | .0003 | .0903 | -.0054 | -1.9032 | 1.1683 | .14551 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -.35052 | .70074 | -.79140 | -.13041 | 2.2229 | -.05919 | -1.7828 |
| SDev | 1.17986 | 1.0720 | 2.07848 | 2.14214 | 4.0195 | .44584 | .3696 |
| %RSD | 336.60 | 152.98 | 262.63 | 1642.6 | 180.82 | 753.22 | 20.734 |
| #1 | .21075 | 1.2210 | -3.0695 | 1.8484 | 4.6248 | -.47842 | -2.1713 |
| #2 | -1.7062 | 1.4134 | -.30642 | -2.4051 | 4.4613 | -.10833 | -1.7416 |
| #3 | .44393 | -.53208 | 1.0017 | .16546 | -2.4174 | .40918 | -1.4354 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0006 | -.0016 |
| SDev | .0002 | .0003 |
| %RSD | 36.24 | 17.81 |
| #1 | .0004 | -.0013 |
| #2 | .0005 | -.0016 |
| #3 | .0008 | -.0019 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Thu 09-28-95 02:21:34 PM 

Method: CLP1 Sample Name: PBW1 Operator: CGZ
Run Time: 09/28/95 14:15:58
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .54783 | .0192 | 1.7659 | .0045 | .0002 | .0002 | .0120 |
| SDev | .20064 | .0049 | .4982 | .0004 | .0001 | .0001 | .0037 |
| %RSD | 36.624 | 25.75 | 28.213 | 8.623 | 39.23 | 34.72 | 30.91 |
| #1 | .36651 | .0247 | 2.3281 | .0046 | .0003 | .0003 | .0157 |
| #2 | .76338 | .0176 | 1.3790 | .0048 | .0002 | .0002 | .0118 |
| #3 | .51360 | .0152 | 1.5906 | .0041 | .0002 | .0001 | .0083 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | .0001 | -.0045 | .0017 | -.0500 | -.0035 | .0092 |
| SDev | .0001 | .0001 | .0002 | .0002 | .0051 | .0021 | .0039 |
| %RSD | 20.19 | 49.36 | 4.429 | 10.54 | 10.12 | 60.55 | 42.51 |
| #1 | .0003 | .0002 | -.0044 | .0015 | -.0479 | -.0013 | .0137 |
| #2 | .0002 | .0001 | -.0043 | .0019 | -.0463 | -.0036 | .0073 |
| #3 | .0002 | .0001 | -.0047 | .0017 | -.0558 | -.0056 | .0065 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0015 | -.0001 | .0684 | -.0062 | 1.0462 | -1.3557 | -.55585 |
| SDev | .0001 | .0001 | .0805 | .0004 | .4885 | .4128 | .37718 |
| %RSD | 3.339 | 260.4 | 117.7 | 6.177 | 46.696 | 30.447 | 67.857 |
| #1 | -.0014 | .0001 | .1437 | -.0059 | 1.5778 | -1.2978 | -.34021 |
| #2 | -.0015 | -.0000 | .0780 | -.0066 | .61692 | -1.7943 | -.99137 |
| #3 | -.0015 | -.0002 | -.0165 | -.0060 | .94385 | -.97490 | -.33596 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | .73547 | .43910 | -1.1513 | 1.6774 | 5.3862 | -2.0308 | 1.4488 |
| SDev | .88675 | .52594 | .5475 | 1.5987 | 3.0190 | .7355 | .5759 |
| %RSD | 120.57 | 119.78 | 47.558 | 95.310 | 56.051 | 36.220 | 39.753 |
| #1 | 1.0959 | .90009 | -1.2585 | 2.2714 | 8.3297 | -2.8092 | 1.6309 |
| #2 | 1.3852 | -.13378 | -1.6372 | 2.8942 | 2.2969 | -1.3473 | .80382 |
| #3 | -.27474 | .55099 | -.55806 | -.13330 | 5.5321 | -1.9358 | 1.9117 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0001 | .0070 |
| SDev | .0003 | .0001 |
| %RSD | 311.6 | 1.893 |
| #1 | -.0001 | .0072 |
| #2 | .0005 | .0070 |
| #3 | -.0000 | .0069 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | -.0000 | .0135 |
| SDev | .0001 | .0001 |
| %RSD | 557.1 | 1.086 |
| #1 | .0000 | .0134 |
| #2 | -.0001 | .0135 |
| #3 | .0000 | .0137 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Thu 09-28-95 02:33:04 PM page 1

Method: CLP1 Sample Name: LCSW1 Operator: CGZ
Run Time: 09/28/95 14:27:29
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 996.81 | 49.45 | 525.77 | 2.454 | 2.411 | 2.516 | 47.75 |
| SDev | .49 | .05 | 3.81 | .003 | .001 | .003 | .01 |
| %RSD | .04906 | .1100 | .72460 | .1069 | .0281 | .1079 | .0137 |
| #1 | 997.37 | 49.45 | 529.66 | 2.452 | 2.411 | 2.516 | 47.75 |
| #2 | 996.49 | 49.40 | 525.60 | 2.457 | 2.410 | 2.518 | 47.76 |
| #3 | 996.57 | 49.51 | 522.04 | 2.454 | 2.411 | 2.513 | 47.75 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 60.00 | 600.00 | 3.000 | 3.000 | 3.000 | 60.00 |
| Low | 800.00 | 40.00 | 400.00 | 2.000 | 2.000 | 2.000 | 40.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.367 | 2.386 | 2.396 | 2.439 | 48.53 | 70.43 | 48.42 |
| SDev | .001 | .001 | .000 | .000 | .02 | .09 | .01 |
| %RSD | .0448 | .0469 | .0077 | .0175 | .0372 | .1217 | .0194 |
| #1 | 2.367 | 2.386 | 2.396 | 2.439 | 48.54 | 70.37 | 48.41 |
| #2 | 2.369 | 2.388 | 2.396 | 2.439 | 48.55 | 70.40 | 48.43 |
| #3 | 2.367 | 2.386 | 2.396 | 2.440 | 48.51 | 70.53 | 48.42 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 3.000 | 3.000 | 3.000 | 3.000 | 60.00 | 96.00 | 60.00 |
| Low | 2.000 | 2.000 | 2.000 | 2.000 | 40.00 | 64.00 | 40.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.415 | 2.408 | 73.71 | 2.371 | 520.08 | 520.95 | 520.66 |
| SDev | .001 | .004 | .16 | .003 | 4.06 | 1.70 | 1.02 |
| %RSD | .0449 | .1808 | .2130 | .1358 | .78036 | .32634 | .19584 |
| #1 | 2.415 | 2.412 | 73.86 | 2.368 | 524.72 | 519.44 | 521.20 |
| #2 | 2.416 | 2.408 | 73.54 | 2.375 | 518.28 | 522.79 | 521.29 |
| #3 | 2.414 | 2.404 | 73.72 | 2.370 | 517.23 | 520.61 | 519.48 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 3.000 | | 96.00 | 3.000 | | | 600.00 |
| Low | 2.000 | | 64.00 | 2.000 | | | 400.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1012.9 | 518.53 | 1019.9 | 1009.4 | 520.73 | 517.44 | 529.72 |
| SDev | 1.2 | 1.31 | 2.3 | 2.6 | 5.45 | 2.85 | 1.82 |
| %RSD | .11491 | .25196 | .22876 | .25380 | 1.0471 | .55015 | .34360 |
| #1 | 1014.2 | 519.39 | 1018.5 | 1012.1 | 526.74 | 515.72 | 528.25 |
| #2 | 1012.2 | 519.18 | 1022.6 | 1007.0 | 516.10 | 520.72 | 531.75 |
| #3 | 1012.3 | 517.03 | 1018.5 | 1009.1 | 519.36 | 515.87 | 529.14 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1200.0 | 600.00 | | | | | 600.00 |

| | | | |
|---|---|---|---|
| Low | 800.00 | 400.00 | 400.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 2.398 | 2.472 |
| SDev | .002 | .001 |
| %RSD | .0681 | .0468 |
| #1 | 2.397 | 2.472 |
| #2 | 2.400 | 2.473 |
| #3 | 2.398 | 2.470 |
| Errors | LC Pass | LC Pass |
| High | 3.000 | 3.000 |
| Low | 2.000 | 2.000 |

Analysis Report Thu 09-28-95 02:38:49 PM page 1

Method: CLP1 Sample Name: LCSS1 Operator: CGZ
Run Time: 09/28/95 14:33:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 43.763 | .6968 | 2042.7 | .0128 | .0130 | .0441 | 389.0 |
| SDev | .484 | .0027 | 4.0 | .0005 | .0002 | .0001 | .5 |
| %RSD | 1.1051 | .3850 | .19696 | 3.966 | 1.697 | .1553 | .1185 |
| #1 | 43.343 | .6996 | 2039.9 | .0130 | .0132 | .0441 | 388.5 |
| #2 | 43.655 | .6965 | 2047.3 | .0131 | .0130 | .0441 | 389.0 |
| #3 | 44.292 | .6943 | 2040.8 | .0122 | .0128 | .0440 | 389.4 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0910 | .3215 | .2115 | 14.22 | 47.22 | .0320 | 237.6 |
| SDev | .0002 | .0004 | .0002 | .01 | .06 | .0031 | .2 |
| %RSD | .1756 | .1128 | .1113 | .0551 | .1220 | 9.646 | .0922 |
| #1 | .0910 | .3212 | .2116 | 14.22 | 47.16 | .0355 | 237.3 |
| #2 | .0912 | .3219 | .2113 | 14.22 | 47.22 | .0308 | 237.7 |
| #3 | .0909 | .3213 | .2117 | 14.21 | 47.27 | .0298 | 237.7 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .4573 | .1074 | .4431 | .1220 | 466.24 | 465.37 | 465.66 |
| SDev | .0004 | .0006 | .0455 | .0003 | .66 | .73 | .40 |
| %RSD | .0992 | .5595 | 10.27 | .2762 | .14186 | .15673 | .08555 |
| #1 | .4568 | .1070 | .4948 | .1219 | 466.23 | 464.69 | 465.21 |
| #2 | .4575 | .1072 | .4089 | .1217 | 466.91 | 465.27 | 465.81 |
| #3 | .4576 | .1081 | .4256 | .1223 | 465.58 | 466.14 | 465.95 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 454.76 | 83.264 | 453.44 | 455.42 | 83.457 | 83.168 | 79.851 |
| SDev | .43 | 1.267 | 2.02 | .45 | .604 | 1.772 | 1.251 |
| %RSD | .09398 | 1.5217 | .44498 | .09963 | .72359 | 2.1311 | 1.5666 |
| #1 | 454.72 | 82.566 | 452.51 | 455.83 | 83.830 | 81.935 | 78.511 |
| #2 | 454.35 | 82.500 | 452.05 | 455.50 | 82.760 | 82.370 | 80.053 |
| #3 | 455.20 | 84.727 | 455.75 | 454.93 | 83.781 | 85.199 | 80.988 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1455 | .4078 |
| SDev | .0004 | .0004 |
| %RSD | .2849 | .1032 |
| #1 | .1460 | .4074 |
| #2 | .1454 | .4076 |
| #3 | .1451 | .4082 |

Analysis Report Thu 09-28-95 02:44:28 PM page 1

Method: CLP1 Sample Name: 9525477P1 Operator: CGZ
Run Time: 09/28/95 14:38:52
Comment: A84207P CGZ 9-29-95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -48.983 | 88.37 | 1033.7 | .0616 | .5424 | .5115 | 29.37 |
| SDev | .348 | .12 | 2.1 | .0010 | .0008 | .0008 | .08 |
| %RSD | .70985 | .1364 | .20594 | 1.564 | .1451 | .1505 | .2628 |
| #1 | -48.718 | 88.51 | 1032.4 | .0625 | .5433 | .5122 | 29.43 |
| #2 | -48.855 | 88.30 | 1036.2 | .0617 | .5420 | .5115 | 29.40 |
| #3 | -49.377 | 88.30 | 1032.6 | .0606 | .5418 | .5107 | 29.28 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4750 | 5.197 | 1.107 | 2.715 | 476.4 | 8.062 | 16.07 |
| SDev | .0008 | .009 | .002 | .004 | .8 | .022 | .04 |
| %RSD | .1569 | .1765 | .1813 | .1445 | .1635 | .2750 | .2307 |
| #1 | .4757 | 5.205 | 1.109 | 2.718 | 477.0 | 8.081 | 16.10 |
| #2 | .4751 | 5.200 | 1.108 | 2.711 | 476.8 | 8.038 | 16.09 |
| #3 | .4742 | 5.187 | 1.105 | 2.717 | 475.6 | 8.067 | 16.03 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 14.17 | .0014 | 18.68 | 4.112 | 427.15 | 431.51 | 430.05 |
| SDev | .02 | .0006 | .08 | .007 | .86 | 2.57 | 1.51 |
| %RSD | .1522 | 44.00 | .4363 | .1629 | .20179 | .59673 | .35198 |
| #1 | 14.19 | .0014 | 18.72 | 4.114 | 427.32 | 429.19 | 428.57 |
| #2 | 14.18 | .0008 | 18.73 | 4.117 | 427.91 | 431.05 | 430.00 |
| #3 | 14.14 | .0020 | 18.58 | 4.104 | 426.21 | 434.28 | 431.59 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 6112.0 | 474.52 | 6109.2 | 6113.4 | 472.14 | 475.70 | 966.07 |
| SDev | 11.8 | 2.42 | 10.2 | 13.0 | 3.45 | 3.00 | 1.75 |
| %RSD | .19270 | .50912 | .16679 | .21271 | .73131 | .63142 | .18161 |
| #1 | 6100.6 | 472.45 | 6097.7 | 6102.0 | 472.68 | 472.34 | 966.19 |
| #2 | 6111.3 | 473.93 | 6112.7 | 6110.6 | 468.45 | 476.66 | 967.76 |
| #3 | 6124.1 | 477.17 | 6117.2 | 6127.5 | 475.30 | 478.11 | 964.25 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | 5.054 | 2.462 |
| SDev | .007 | .002 |
| %RSD | .1361 | .0964 |
| #1 | 5.061 | 2.464 |
| #2 | 5.053 | 2.462 |
| #3 | 5.048 | 2.459 |

Analysis Report Thu 09-28-95 02:50:07 PM page 1

Method: CLP1 Sample Name: 9525477L1 Operator: CGZ
Run Time: 09/28/95 14:44:31
Comment: A842071 CGZ 9-29-95
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.74563 | 22.38 | 15.452 | .0173 | .1373 | .0020 | 7.632 |
| SDev | .13676 | .05 | 1.142 | .0002 | .0003 | .0001 | .015 |
| %RSD | 18.341 | .2430 | 7.3875 | 1.381 | .2457 | 3.873 | .2003 |
| #1 | -.66813 | 22.37 | 15.235 | .0170 | .1373 | .0021 | 7.639 |
| #2 | -.66523 | 22.34 | 14.435 | .0175 | .1369 | .0019 | 7.615 |
| #3 | -.90354 | 22.44 | 16.687 | .0174 | .1376 | .0019 | 7.643 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0001 | .1137 | .0343 | .0475 | 122.9 | 1.456 | 4.193 |
| SDev | .0001 | .0009 | .0003 | .0005 | .3 | .007 | .011 |
| %RSD | 69.69 | .7651 | 1.033 | 1.139 | .2366 | .4898 | .2597 |
| #1 | .0002 | .1147 | .0345 | .0480 | 122.8 | 1.458 | 4.200 |
| #2 | .0000 | .1134 | .0339 | .0474 | 122.7 | 1.448 | 4.181 |
| #3 | .0002 | .1131 | .0345 | .0470 | 123.2 | 1.462 | 4.200 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 3.451 | .0012 | 4.548 | .0826 | 39.940 | 37.572 | 38.360 |
| SDev | .008 | .0007 | .104 | .0000 | 1.649 | .850 | .280 |
| %RSD | .2191 | 55.80 | 2.281 | .0501 | 4.1284 | 2.2633 | .72992 |
| #1 | 3.451 | .0004 | 4.592 | .0826 | 38.732 | 38.484 | 38.567 |
| #2 | 3.444 | .0015 | 4.430 | .0826 | 39.268 | 37.429 | 38.041 |
| #3 | 3.459 | .0017 | 4.623 | .0826 | 41.818 | 36.801 | 38.472 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 5.7659 | 2.2272 | 3.6696 | 6.8125 | 2.3168 | 2.1824 | .70630 |
| SDev | 2.7922 | .6449 | 4.3982 | 2.1143 | 1.0248 | .6274 | .32978 |
| %RSD | 48.426 | 28.954 | 119.86 | 31.036 | 44.235 | 28.750 | 46.691 |
| #1 | 8.8400 | 2.2316 | 8.0202 | 9.2493 | 1.6309 | 2.5315 | .42395 |
| #2 | 5.0706 | 2.8698 | 3.7633 | 5.7233 | 3.4949 | 2.5578 | 1.0688 |
| #3 | 3.3870 | 1.5801 | -.77483 | 5.4649 | 1.8246 | 1.4581 | .62620 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0625 | .1411 |
| SDev | .0008 | .0004 |
| %RSD | 1.332 | .3162 |
| #1 | .0634 | .1414 |
| #2 | .0621 | .1406 |
| #3 | .0618 | .1413 |

Method: CLP1 Sample Name: CRIF1 Operator: CGZ
Run Time: 09/28/95 14:50:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 18.843 | .0466 | 21.063 | .0010 | .0001 | .0105 | .0243 |
| SDev | .050 | .0087 | .635 | .0001 | .0000 | .0001 | .0044 |
| %RSD | .26448 | 18.58 | 3.0144 | 14.93 | 56.18 | .5127 | 18.31 |
| #1 | 18.876 | .0558 | 20.768 | .0012 | .0001 | .0105 | .0290 |
| #2 | 18.867 | .0456 | 20.629 | .0009 | .0001 | .0105 | .0239 |
| #3 | 18.786 | .0385 | 21.792 | .0010 | .0000 | .0104 | .0201 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0101 | .1005 | .0157 | .0522 | .0403 | -.0082 | .0037 |
| SDev | .0000 | .0007 | .0002 | .0002 | .0325 | .0015 | .0043 |
| %RSD | .2388 | .7114 | 1.329 | .4411 | 80.61 | 18.87 | 117.6 |
| #1 | .0101 | .1012 | .0160 | .0524 | .0755 | -.0073 | .0065 |
| #2 | .0101 | .1006 | .0157 | .0520 | .0338 | -.0073 | .0058 |
| #3 | .0101 | .0998 | .0155 | .0520 | .0115 | -.0100 | -.0013 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0318 | -.0008 | .0057 | .0748 | 6.4097 | 6.5593 | 6.5095 |
| SDev | .0010 | .0008 | .0516 | .0003 | 1.2700 | .1363 | .4688 |
| %RSD | 3.214 | 97.25 | 907.5 | .4284 | 19.814 | 2.0785 | 7.2021 |
| #1 | .0329 | -.0005 | .0457 | .0752 | 7.5436 | 6.5206 | 6.8613 |
| #2 | .0315 | -.0018 | .0239 | .0745 | 6.6480 | 6.7108 | 6.6899 |
| #3 | .0309 | -.0003 | -.0525 | .0748 | 5.0374 | 6.4464 | 5.9772 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 127.50 | 10.080 | 126.28 | 128.12 | 10.494 | 9.8732 | 21.146 |
| SDev | 2.01 | 1.197 | 1.91 | 2.87 | 1.672 | 1.7502 | 1.374 |
| %RSD | 1.5768 | 11.870 | 1.5099 | 2.2412 | 15.933 | 17.727 | 6.4997 |
| #1 | 128.39 | 9.7147 | 124.60 | 130.29 | 12.134 | 8.5068 | 19.765 |
| #2 | 125.20 | 11.417 | 125.89 | 124.86 | 10.556 | 11.846 | 22.514 |
| #3 | 128.92 | 9.1086 | 128.35 | 129.20 | 8.7917 | 9.2669 | 21.158 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .1007 | .0414 |
| SDev | .0008 | .0002 |
| %RSD | .8141 | .5548 |
| #1 | .1016 | .0417 |
| #2 | .1001 | .0413 |
| #3 | .1003 | .0413 |

Analysis Report Thu 09-28-95 03:01:24 PM 

Method: CLP1 Sample Name: ICSAF1 Operator: CGZ
Run Time: 09/28/95 14:55:49
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | -.87608 | 476.0 | .44105 | .0024 | .0057 | .0001 | 478.3 |
| SDev | .27160 | .4 | 2.5118 | .0003 | .0000 | .0000 | 1.1 |
| %RSD | 31.001 | .0830 | 569.50 | 11.66 | .3240 | 11.36 | .2313 |
| #1 | -1.1093 | 475.5 | 2.7914 | .0021 | .0057 | .0001 | 477.2 |
| #2 | -.94110 | 476.3 | -2.2059 | .0026 | .0057 | .0002 | 479.4 |
| #3 | -.57788 | 476.0 | .73771 | .0027 | .0057 | .0001 | 478.3 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 600.0 | | | .2000 | .0050 | 600.0 |
| Low | -10.000 | 400.0 | | | -.2000 | -.0050 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0022 | .0014 | .0012 | .0078 | 187.9 | -.0049 | 475.1 |
| SDev | .0001 | .0001 | .0001 | .0000 | .3 | .0018 | .8 |
| %RSD | 3.710 | 8.705 | 8.529 | .4111 | .1584 | 36.04 | .1685 |
| #1 | .0021 | .0012 | .0011 | .0078 | 187.6 | -.0067 | 474.3 |
| #2 | .0022 | .0014 | .0013 | .0078 | 188.2 | -.0048 | 475.9 |
| #3 | .0022 | .0015 | .0013 | .0077 | 187.9 | -.0032 | 475.2 |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass |
| High | .0050 | | .0100 | | 240.0 | | 600.0 |
| Low | -.0050 | | -.0100 | | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .0052 | -.0034 | .6572 | -.0008 | -8.5187 | 10.145 | 3.9300 |
| SDev | .0001 | .0010 | .0631 | .0003 | 1.5692 | 2.895 | 1.4245 |
| %RSD | 2.633 | 30.21 | 9.607 | 34.63 | 18.421 | 28.534 | 36.246 |
| #1 | .0053 | -.0037 | .6081 | -.0010 | -6.8282 | 7.3530 | 2.6307 |
| #2 | .0052 | -.0043 | .6352 | -.0009 | -9.9289 | 13.133 | 5.4531 |
| #3 | .0050 | -.0023 | .7285 | -.0005 | -8.7991 | 9.9496 | 3.7063 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | | .0400 | | | 6.0000 |
| Low | -.0150 | | | -.0400 | | | -6.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 6.9931 | -.68160 | -.31616 | 10.642 | -1.4705 | -.28776 | -7.6026 |
| SDev | 3.1644 | 2.72727 | 3.06602 | 3.546 | 6.2192 | 2.05144 | .5039 |
| %RSD | 45.250 | 400.13 | 969.76 | 33.320 | 422.94 | 712.90 | 6.6276 |
| #1 | 9.8173 | 1.5306 | .79645 | 14.321 | .43216 | 2.0791 | -7.9404 |
| #2 | 7.5888 | -3.7287 | 2.0382 | 10.360 | -8.4188 | -1.3872 | -7.0235 |
| #3 | 3.5731 | .15327 | -3.7832 | 7.2458 | 3.5752 | -1.5551 | -7.8439 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0013 | .0018 |
| SDev | .0001 | .0001 |
| %RSD | 4.714 | 5.251 |
| #1 | .0013 | .0017 |
| #2 | .0012 | .0019 |
| #3 | .0012 | .0018 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Analysis Report Thu 09-28-95 03:07:07 PM 

Method: CLP1 Sample Name: ICSABF1 Operator: CGZ
Run Time: 09/28/95 15:01:31
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 1033.6 | 483.6 | 979.62 | .0038 | .5170 | .5033 | 487.1 |
| SDev | 6.1 | 3.3 | 8.48 | .0007 | .0037 | .0028 | 2.8 |
| %RSD | .59461 | .6898 | .86524 | 17.25 | .7142 | .5634 | .5784 |
| #1 | 1031.1 | 482.3 | 982.66 | .0045 | .5160 | .5021 | 485.7 |
| #2 | 1029.1 | 481.2 | 970.04 | .0032 | .5139 | .5012 | 485.2 |
| #3 | 1040.6 | 487.4 | 986.16 | .0037 | .5211 | .5065 | 490.3 |
| Errors | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | 1200.0 | 600.0 | 1200.0 | | .6000 | .6000 | 600.0 |
| Low | 800.00 | 400.0 | 800.00 | | .4000 | .4000 | 400.0 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9328 | .4785 | .4801 | .5363 | 191.3 | -.0079 | 483.7 |
| SDev | .0044 | .0025 | .0026 | .0039 | 1.2 | .0014 | 2.5 |
| %RSD | .4739 | .5273 | .5480 | .7189 | .6074 | 17.48 | .5218 |
| #1 | .9308 | .4775 | .4787 | .5347 | 190.8 | -.0067 | 482.5 |
| #2 | .9297 | .4766 | .4785 | .5336 | 190.5 | -.0077 | 482.1 |
| #3 | .9378 | .4813 | .4832 | .5407 | 192.6 | -.0094 | 486.7 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | NOCHECK | LC Pass |
| High | 1.200 | .6000 | .6000 | .6000 | 240.0 | | 600.0 |
| Low | .8000 | .4000 | .4000 | .4000 | 160.0 | | 400.0 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | .5004 | -.0029 | .5016 | .9407 | 938.90 | 957.08 | 951.02 |
| SDev | .0029 | .0007 | .0712 | .0054 | 5.81 | 6.83 | 5.86 |
| %RSD | .5864 | 26.09 | 14.20 | .5711 | .61854 | .71405 | .61663 |
| #1 | .4991 | -.0023 | .5816 | .9376 | 933.08 | 956.51 | 948.71 |
| #2 | .4983 | -.0026 | .4451 | .9376 | 938.91 | 950.54 | 946.67 |
| #3 | .5038 | -.0037 | .4781 | .9469 | 944.70 | 964.18 | 957.69 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .6000 | | | 1.200 | | | 1200.0 |
| Low | .4000 | | | .8000 | | | 800.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 5.5546 | 973.41 | -1.1611 | 8.9074 | 980.83 | 969.70 | 943.68 |
| SDev | .8519 | 6.67 | 2.7024 | 2.1878 | 7.62 | 6.98 | 3.80 |
| %RSD | 15.336 | .68502 | 232.75 | 24.562 | .77655 | .72003 | .40256 |
| #1 | 5.7839 | 970.43 | 1.3545 | 7.9952 | 973.80 | 968.75 | 940.41 |
| #2 | 6.2683 | 968.75 | -4.0178 | 11.404 | 979.77 | 963.25 | 942.77 |
| #3 | 4.6115 | 981.05 | -.81993 | 7.3232 | 988.92 | 977.11 | 947.85 |
| Errors | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | | 1200.0 | | | | | 1200.0 |

| | | | |
|---|---|---|---|
| Low | | 800.00 | 800.00 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .5018 | 1.031 |
| SDev | .0027 | .006 |
| %RSD | .5425 | .5724 |
| #1 | .5010 | 1.027 |
| #2 | .4995 | 1.027 |
| #3 | .5048 | 1.038 |
| Errors | LC Pass | LC Pass |
| High | .6000 | 1.200 |
| Low | .4000 | .8000 |

Analysis Report Thu 09-28-95 03:12:53 PM 

Method: CLP1 Sample Name: CCV2 Operator: CGZ
Run Time: 09/28/95 15:07:17
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | 967.89 | 49.65 | 500.53 | 2.500 | 2.477 | 2.538 | 47.73 |
| SDev | 3.86 | .23 | 2.39 | .009 | .007 | .010 | .23 |
| %RSD | .39854 | .4621 | .47651 | .3538 | .2930 | .3936 | .4886 |
| #1 | 971.01 | 49.79 | 501.35 | 2.505 | 2.481 | 2.548 | 47.96 |
| #2 | 969.07 | 49.77 | 502.39 | 2.505 | 2.482 | 2.539 | 47.74 |
| #3 | 963.57 | 49.39 | 497.84 | 2.490 | 2.469 | 2.528 | 47.49 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1100.0 | 55.00 | 550.00 | 2.750 | 2.750 | 2.750 | 55.00 |
| Low | 900.00 | 45.00 | 450.00 | 2.250 | 2.250 | 2.250 | 45.00 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.451 | 2.457 | 2.469 | 2.515 | 50.67 | 75.54 | 48.99 |
| SDev | .012 | .011 | .011 | .011 | .20 | .38 | .27 |
| %RSD | .4793 | .4301 | .4564 | .4558 | .3967 | .4974 | .5416 |
| #1 | 2.462 | 2.467 | 2.479 | 2.521 | 50.85 | 75.62 | 49.25 |
| #2 | 2.452 | 2.458 | 2.470 | 2.523 | 50.71 | 75.87 | 49.00 |
| #3 | 2.439 | 2.446 | 2.457 | 2.502 | 50.46 | 75.14 | 48.72 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 2.750 | 2.750 | 2.750 | 2.750 | 55.00 | 88.00 | 55.00 |
| Low | 2.250 | 2.250 | 2.250 | 2.250 | 45.00 | 72.00 | 45.00 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | 2.481 | 2.484 | 76.24 | 2.450 | 493.49 | 488.55 | 490.19 |
| SDev | .010 | .008 | .35 | .011 | 3.49 | 1.86 | 2.18 |
| %RSD | .3868 | .3344 | .4608 | .4652 | .70709 | .38163 | .44385 |
| #1 | 2.490 | 2.492 | 76.30 | 2.462 | 496.77 | 490.63 | 492.67 |
| #2 | 2.483 | 2.483 | 76.56 | 2.450 | 493.87 | 487.02 | 489.30 |
| #3 | 2.471 | 2.476 | 75.87 | 2.439 | 489.82 | 488.00 | 488.60 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | 2.750 | | 88.00 | 2.750 | | | 550.00 |
| Low | 2.250 | | 72.00 | 2.250 | | | 450.00 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 999.45 | 498.04 | 1004.7 | 996.81 | 501.28 | 496.42 | 503.35 |
| SDev | 5.51 | 1.67 | 3.7 | 6.55 | 3.36 | 1.22 | .99 |
| %RSD | .55135 | .33584 | .36540 | .65687 | .67035 | .24640 | .19734 |
| #1 | 1005.8 | 499.97 | 1008.9 | 1004.3 | 504.75 | 497.58 | 504.15 |
| #2 | 996.75 | 497.11 | 1001.8 | 994.23 | 501.05 | 495.14 | 503.65 |
| #3 | 995.80 | 497.03 | 1003.5 | 991.95 | 498.04 | 496.53 | 502.24 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 1100.0 | 550.00 | | | | | 550.00 |

Analysis Report Thu 09-28-95 03:18:38 PM 

Method: CLP1 Sample Name: CCB2 Operator: CGZ
Run Time: 09/28/95 15:13:02
Comment:
Mode: CONC Corr. Factor: 1

| Elem | AG | Al | As1890 | B | Ba | Be | Ca |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppm | ppb | ppm | ppm | ppm | ppm |
| Avge | .35105 | .0645 | .70165 | .0019 | .0007 | .0007 | .0457 |
| SDev | .46388 | .0161 | .29024 | .0006 | .0003 | .0003 | .0157 |
| %RSD | 132.14 | 24.98 | 41.365 | 34.01 | 33.90 | 33.78 | 34.37 |
| #1 | .66526 | .0800 | .42452 | .0021 | .0010 | .0010 | .0621 |
| #2 | .56963 | .0655 | 1.0034 | .0024 | .0008 | .0007 | .0443 |
| #3 | -.18173 | .0479 | .67701 | .0012 | .0005 | .0005 | .0307 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | .2000 | 10.000 | .0200 | .2000 | .0050 | .2000 |
| Low | -10.000 | -.2000 | -10.000 | -.0200 | -.2000 | -.0050 | -.2000 |

| Elem | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | .0005 | -.0036 | .0011 | -.0336 | .0025 | .0434 |
| SDev | .0003 | .0004 | .0003 | .0003 | .0105 | .0018 | .0146 |
| %RSD | 37.76 | 74.66 | 8.432 | 24.85 | 31.30 | 71.53 | 33.54 |
| #1 | .0010 | .0005 | -.0035 | .0014 | -.0283 | .0033 | .0565 |
| #2 | .0008 | .0008 | -.0033 | .0012 | -.0268 | .0036 | .0459 |
| #3 | .0005 | .0001 | -.0039 | .0008 | -.0457 | .0004 | .0277 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .0050 | .0500 | .0100 | .0250 | .1000 | 5.000 | .2000 |
| Low | -.0050 | -.0500 | -.0100 | -.0250 | -.1000 | -5.000 | -.2000 |

| Elem | Mn | Mo | Na | Ni | 2203/1 | 2203/2 | Pb2203 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppb | ppb | ppb |
| Avge | -.0009 | .0011 | .0234 | -.0052 | -.40394 | .65789 | .30430 |
| SDev | .0003 | .0008 | .0988 | .0005 | .28117 | 1.2070 | .71220 |
| %RSD | 32.20 | 77.97 | 421.1 | 9.420 | 69.606 | 183.46 | 234.05 |
| #1 | -.0006 | .0019 | -.0096 | -.0053 | -.69775 | 1.9818 | 1.0895 |
| #2 | -.0010 | .0010 | .1345 | -.0047 | -.37669 | .37316 | .12346 |
| #3 | -.0012 | .0002 | -.0545 | -.0057 | -.13739 | -.38125 | -.30005 |
| Errors | LC Pass | NOCHECK | LC Pass | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High | .0150 | | 5.000 | .0400 | | | 3.0000 |
| Low | -.0150 | | -5.000 | -.0400 | | | -3.0000 |

| Elem | Sb2068 | Se1960 | 2068/1 | 2068/2 | 1960/1 | 1960/2 | Tl1908 |
|---|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1.2180 | -.57480 | .27190 | 1.6903 | .04364 | -.88356 | .16688 |
| SDev | 1.6948 | .19301 | 1.5166 | 2.2979 | 2.7902 | 1.53410 | 1.8140 |
| %RSD | 139.15 | 33.579 | 557.76 | 135.95 | 6392.9 | 173.63 | 1087.0 |
| #1 | 3.1432 | -.37615 | 1.3349 | 4.0460 | .20377 | -.66568 | .44290 |
| #2 | .55946 | -.76163 | -1.4648 | 1.5701 | 2.7503 | -2.5150 | 1.8270 |
| #3 | -.04876 | -.58662 | .94556 | -.54518 | -2.8231 | .52995 | -1.7693 |
| Errors | LC Pass | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass |
| High | 60.000 | 5.0000 | | | | | 10.000 |

| | | | |
|---|---|---|---|
| Low | -60.000 | -5.0000 | -10.000 |

| Elem | V | Zn |
|---|---|---|
| Units | ppm | ppm |
| Avge | .0007 | .0072 |
| SDev | .0002 | .0002 |
| %RSD | 35.61 | 3.354 |
| #1 | .0007 | .0074 |
| #2 | .0009 | .0073 |
| #3 | .0004 | .0069 |
| Errors | LC Pass | LC Pass |
| High | .0500 | .0200 |
| Low | -.0500 | -.0200 |

Hg ERM 004 - wks

# H2M LABS, INC.

Cal std prep 9/19/95
Source: plasmachem
High Purity

ERM 004
NDEC 0912

| | Intensity |
|---|---|
| Blank | 1884 |
| 0.2 | 7478 |
| 1.0 | 27530 |
| 2.0 | 54176 |
| 6.0 | 155285 |
| 10.0 | 256791 |

Tim 8:04

3

ELEMENT Hg

r = .9999

DATE 9/19/95

ANALYST SIGNAT [signature]

Leeman PS-200

Sample wt:

| # | SPK | LAB NO. | RESULT (ug/L) | DIL. FACTOR | ~~RESULT (mg/Kg)~~ | ABS. | ANALYSIS TIME | SAMPLE ID/NOTES |
|---|---|---|---|---|---|---|---|---|
| 1 | | ICV | 5.08 | 101.6% | | | | TV = 5.00 |
| 2 | | ICB | <.10 | | | | | |
| 3 | | CCV1 | 5.18 | 103.6% | | | | TV = 5.00 |
| 4 | | CCB1 | <.10 | | | | | |
| 5 | | PBw | <.10 | | | | | |
| 6 | | PBs | <.10 | | .20 | | | |
| 7 | | LCSs | 31.4 | 3.14x10 / 10 | .20 | 123.6% | | 15.7 mg/kgm TV = 12.7 |
| 8 | | 9525398 | <.10 | | | | | XX GW50 |
| 9 | | 399 | <.10 | | | | | XX GW60 |
| 10 | | 400 | <.10 | | | | | XX GW70 |
| 11 | | 401 | <.10 | | | | | XX GW80 |
| 12 | | 713 | <.10 | | | | | XX GW40 |
| 13 | | 713D | <.10 | | | | | D |
| 14 | 1 | 713S | 1.10 | 110.0% | | | | S |
| 15 | | CCV2 | 5.23 | 104.6% | | | | |
| 16 | | CCB2 | <.10 | | | | | |
| 17 | | 9525402 | <.10 | | | | | XX GW90 |
| 18 | | 403 | <.10 | | | | | X GW100 |
| 19 | | 404 | <.10 | | | | | X GW110 |
| 20 | | 405 | <.10 | | | | | X GW120 |
| 21 | | 406 | <.10 | | | | | X GW130 |
| 22 | | 711 | <.10 | | | | | XX GW20 |
| 23 | | 712 | <.10 | | | | | XX GW30 |
| 24 | | 477 | .42 | | | | | A84207 |
| 25 | | 477D | .41 | | | | | D |

Reviewed By: [signature]
Date: 9/27/95

# H2M LABS, INC.

ELEMENT Hg

DATE 9/19/95

ANALYST SIGNATURE William Fitte

| # | SPK | LAB NO. | RESULT (ug/L) | DIL. FACTOR | ~~RESULT (mg/Kg)~~ Sample wt. | % TS ABS. | ANALYSIS TIME | SAMPLE ID/NOTES |
|---|---|---|---|---|---|---|---|---|
| 26 | 1 | 9525477S | 1.47 | 105.0% | | | | A84207 S |
| 27 | | CCV3 | 5.12 | 102.4% | | | | |
| 28 | | CCB3 | <.10 | | | | | |
| 29 | | 9525471 | <.10 | | | | | A84201 |
| 30 | | 472 | <.10 | | | | | A84202 |
| 31 | | 473 | <.10 | | | | | A84203 |
| 32 | | 474 | .25 | | | | | A84204 |
| 33 | | 475 | <.10 | | | | | A84205 |
| 34 | | 476 | <.10 | | | | | A84206 |
| 35 | | 311 | <.20 | | | | | ZZZZZZ |
| 36 | | 309 | <.20 | | | | | |
| 37 | | 309D | <.20 | | | | | |
| 38 | | 309S | .97 | 97.0% | | | | |
| 39 | | CCV4 | 4.90 | 98.0% | | | | |
| 40 | | CCB4 | <.10 | | | | | |
| 41 | | 9525709 | .25 | | .22 | 91.9 | .12 mg/Kg | ZZZZZZ |
| 42 | | 710 | .31 | | .21 | 89.7 | .17 mg/Kg | |
| 43 | | 100 | <.20 | | .28 | | <.07 mg/Kg | |
| 44 | | 101 | <.20 | | .26 | | <.08 mg/Kg | |
| 1 | | 327 | <.20 | | | | | |
| 2 | | 334 | <.20 | | | | | |
| 3 | | 335 | <.20 | | | | | |
| 4 | | 310 | <.20 | | | | | |
| 5 | | 310D | <.20 | | | | | |
| 6 | 1 | 310S | .97 | 97.0% | | | | |

# H2M LABS, INC.

ELEMENT Hg DATE 9/19/95

ANALYST SIGNATURE [signature]

| # | SPK | LAB NO. | RESULT (ug/L) | DIL. FACTOR | RESULT (mg/Kg) | ABS. | ANALYSIS TIME | SAMPLE ID/NOTES |
|---|---|---|---|---|---|---|---|---|
| 7 | | ccv5 | 4.73 | 94.6% | | | | |
| 8 | | ccB5 | <.10 | | | | | |
| 9 | | 9525336 | <.20 | | | | | zzzzzzz |
| 10 | | 338 | <.20 | | | | | |
| 11 | | 378 | <.20 | | | | | |
| 12 | | 740 | <.20 | | | | | |
| 13 | | 023 | 1.6 | | | | | |
| 14 | | 742 | <.20 | | | | | |
| 15 | | 743 | <.20 | | | | | |
| 16 | | 741 | <.20 | | | | | |
| 17 | | 741D | <.20 | | | | | |
| 18 | 1 | 741S | .184 | 84.0% | | | | |
| 19 | | ccv6 | 4.67 | 93.4% | | | | |
| 20 | | ccB6 | <.10 | | | | | |
| 21 | | 9525379 | <.20 | | | | | zzzzzzz |
| 22 | | 461 | <.20 | | | | | |
| 23 | | 732 | <.20 | | | | | |
| 24 | | 733 | <.20 | | | | | |
| 25 | | 462 | <.20 | | | | | |
| 26 | | 792 | <.20 | | | | | |
| 27 | | 793 | <.20 | | | | | |
| 28 | | 708 | <.20 | | | | | |
| 29 | | ccv7 | 4.61 | 92.2% | | | | |
| 30 | | ccB7 | <.10 | | | | | |

# H2M LABS, INC.

SDG NO.: NDEC 0912
DATE: 9/19/95
ANALYST: M. Ritter
ELEMENT: Hg

## METALS QC CHECKLIST

| | YES | NO | NA |
|---|---|---|---|
| GENERAL | | | |
| 1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE | ✓ | | |
| 1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB? | ✓ | | |
| 2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION | ✓ | | |
| 3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION | ✓ | | |
| 4. ARE THE "S" SPIKE RECOVERIES CHECKED? | ✓ | | |
| 5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL? | ✓ | | |
| 6. IS THE PREP BLANK LABELLED AS WATER OR SOIL? | ✓ | | |
| 7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES? | | ✓ | |
| 8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY? | | | ✓ |
| 9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID? | ✓ | | |
| 10. ARE ALL PAGES SIGNED AND DATED? | ✓ | | |
| 11. WAS A CRA/CRI STD. ANALYZED? | ✓ | | ✓ |
| 12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.? | ✓ | | |
| 13. IS THE INITIAL CAL. COEFF. > 0.995? | ✓ | | |
| 14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE? | ✓ | | |
| FURNACE | | | |
| 15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE | | | |
| 16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE | | | |
| 17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE | | | |
| 18. DID ANY SAMPLES REQUIRE MSA ANALYSIS? | | | |
| 19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN? | | | |
| 20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB? | | | |
| ICP | | | |
| 21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA? | | | |
| 22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION? | | | |

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

William Fitten



08:04:19 19 Sep 1995 Protocol: MERCURY

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Standard: 1 Rep: 1 Seq: 0 08:04:19 19 Sep 1995 HG

Hg .000 ppb 1884
Ave. Int. = 1884 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 08:06:41 19 Sep 1995 HG

Hg .200 ppb 7478
Ave. Int. = 7478 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 08:09:03 19 Sep 1995 HG

Hg 1.00 ppb 27530
Ave. Int. = 27530 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 08:11:27 19 Sep 1995 HG

Hg 2.00 ppb 54176
Ave. Int. = 54176 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 08:13:50 19 Sep 1995 HG

Hg 6.00 ppb 155285
Ave. Int. = 155285 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 08:16:32 19 Sep 1995 HG

Hg 10.0 ppb 256791
Ave. Int. = 256791 S. D. = 0

Protocol: MERCURY

Rev: 3.001 Time: 08:17:51 19 Sep 1995

Folder: HGERM004 Seq: 6 Print: On

User: W.FITTERER Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Xmit: Off Autosampler: On

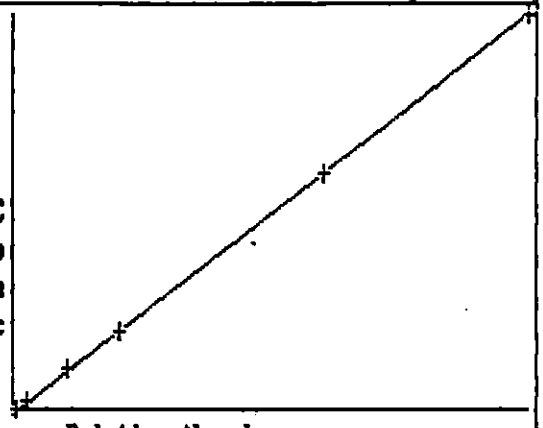
CALIBRATION: Line Calibration

Line: Hg

| | Conc. | Calc. | Dev. | Accepted LiNear | |
|---|---|---|---|---|---|
| S1 | .000 | -.019 | -.019 | Quadratic | |
| S2 | .200 | .201 | .001 | WtdLinear | |
| S3 | 1.00 | .988 | -.012 | | C |
| S4 | 2.00 | 2.03 | .034 | Accept | o |
| S5 | 6.00 | 6.00 | .005 | | n |
| S6 | 10.0 | 9.99 | -.009 | StdAdd | c |

A .0069000 r .999989

B 3.92702e-5 C -9.30938e-2



Relative Absorbance

| | Mean | %RSD | |
|---|---|---|---|
| S1 | 1884 | 0 | 1884 |
| S2 | 7478 | 0 | 7478 |
| S3 | 27530 | 0 | 27530 |
| S4 | 54176 | 0 | 54176 |
| S5 | 155285 | 0 | 155285 |
| S6 | 256791 | 0 | 256791 |

New calibration coefficients stored

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: ICV | | | | | Seq: 6 | 08:19:57 19 Sep 1995 HG | | |
| Hg | 5.08 | ppb | .000 | 5.08 | | | | |
| *** Sample ID: ICB | | | | | Seq: 7 | 08:22:31 19 Sep 1995 HG | | |
| Hg | -.044 | ppb | .000 | -.044 | | | | |
| *** Sample ID: CCV1 | | | | | Seq: 8 | 08:24:48 19 Sep 1995 HG | | |
| Hg | 5.18 | ppb | .000 | 5.18 | | | | |
| *** Sample ID: CCB1 | | | | | Seq: 9 | 08:27:26 19 Sep 1995 HG | | |
| Hg | -.039 | ppb | .000 | -.039 | | | | |
| *** Sample ID: PBW | | | | | Seq: 10 | 08:29:43 19 Sep 1995 HG | | |
| Hg | -.018 | ppb | .000 | -.018 | | | | |
| *** Sample ID: PBS | | | | | Seq: 11 | 08:32:00 19 Sep 1995 HG | | |
| Hg | -.020 | ppb | .000 | -.020 | | | | |
| *** Sample ID: LCSS | | | | | Seq: 12 | 08:34:17 19 Sep 1995 HG | | |
| Hg | 3.14 | ppb | .000 | 3.14 | | | | |
| *** Sample ID: XXGW50 | | | | | Seq: 13 | 08:36:47 19 Sep 1995 HG | | |
| Hg | .025 | ppb | .000 | .025 | | | | |
| *** Sample ID: XXGW60 | | | | | Seq: 14 | 08:39:04 19 Sep 1995 HG | | |
| Hg | .001 | ppb | .000 | .001 | | | | |
| *** Sample ID: XXGW70 | | | | | Seq: 15 | 08:41:21 19 Sep 1995 HG | | |
| Hg | -.008 | ppb | .000 | -.008 | | | | |
| *** Sample ID: XXGW80 | | | | | Seq: 16 | 08:43:39 19 Sep 1995 HG | | |
| Hg | -.001 | ppb | .000 | -.001 | | | | |
| *** Sample ID: XXGW40 | | | | | Seq: 17 | 08:45:55 19 Sep 1995 HG | | |
| Hg | .068 | ppb | .000 | .068 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: XXGW40D | | | | | Seq: 18 | 08:48:10 19 Sep 1995 HG | | |
| Hg | .063 | ppb | .000 | .063 | | | | |
| *** Sample ID: XXGW40S | | | | | Seq: 19 | 08:50:25 19 Sep 1995 HG | | |
| Hg | 1.10 | ppb | .000 | 1.10 | | | | |
| *** Sample ID: CCV2 | | | | | Seq: 20 | 08:52:43 19 Sep 1995 HG | | |
| Hg | 5.23 | ppb | .000 | 5.23 | | | | |
| *** Sample ID: CCB2 | | | | | Seq: 21 | 08:55:13 19 Sep 1995 HG | | |
| Hg | -.039 | ppb | .000 | -.039 | | | | |
| *** Sample ID: XXGW90 | | | | | Seq: 22 | 08:57:29 19 Sep 1995 HG | | |
| Hg | -.010 | ppb | .000 | -.010 | | | | |
| *** Sample ID: XGW100 | | | | | Seq: 23 | 08:59:44 19 Sep 1995 HG | | |
| Hg | -.008 | ppb | .000 | -.008 | | | | |
| *** Sample ID: XGW110 | | | | | Seq: 24 | 09:01:59 19 Sep 1995 HG | | |
| Hg | -.015 | ppb | .000 | -.015 | | | | |
| *** Sample ID: XGW120 | | | | | Seq: 25 | 09:04:14 19 Sep 1995 HG | | |
| Hg | -.008 | ppb | .000 | -.008 | | | | |
| *** Sample ID: XGW130 | | | | | Seq: 26 | 09:06:29 19 Sep 1995 HG | | |
| Hg | -.014 | ppb | .000 | -.014 | | | | |
| *** Sample ID: XXGW20 | | | | | Seq: 27 | 09:08:45 19 Sep 1995 HG | | |
| Hg | .099 | ppb | .000 | .099 | | | | |
| *** Sample ID: XXGW30 | | | | | Seq: 28 | 09:11:01 19 Sep 1995 HG | | |
| Hg | .078 | ppb | .000 | .078 | | | | |
| *** Sample ID: A84207 | | | | | Seq: 29 | 09:13:16 19 Sep 1995 HG | | |
| Hg | .415 | ppb | .000 | .415 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: A84207D | | | | | Seq: 30 | 09:15:30 19 Sep 1995 HG | | |
| Hg | .409 | ppb | .000 | .409 | | | | |
| *** Sample ID: A84207S | | | | | Seq: 31 | 09:17:44 19 Sep 1995 HG | | |
| Hg | 1.47 | ppb | .000 | 1.47 | | | | |
| *** Sample ID: CCV3 | | | | | Seq: 32 | 09:20:02 19 Sep 1995 HG | | |
| Hg | 5.12 | ppb | .000 | 5.12 | | | | |
| *** Sample ID: CCB3 | | | | | Seq: 33 | 09:22:32 19 Sep 1995 HG | | |
| Hg | -.039 | ppb | .000 | -.039 | | | | |
| *** Sample ID: A84201 | | | | | Seq: 34 | 09:24:46 19 Sep 1995 HG | | |
| Hg | -.009 | ppb | .000 | -.009 | | | | |
| *** Sample ID: A84202 | | | | | Seq: 35 | 09:27:00 19 Sep 1995 HG | | |
| Hg | .052 | ppb | .000 | .052 | | | | |
| *** Sample ID: A84203 | | | | | Seq: 36 | 09:29:14 19 Sep 1995 HG | | |
| Hg | -.000 | ppb | .000 | -.000 | | | | |
| *** Sample ID: A84204 | | | | | Seq: 37 | 09:31:30 19 Sep 1995 HG | | |
| Hg | .249 | ppb | .000 | .249 | | | | |
| *** Sample ID: A84205 | | | | | Seq: 38 | 09:33:46 19 Sep 1995 HG | | |
| Hg | .001 | ppb | .000 | .001 | | | | |
| *** Sample ID: A84206 | | | | | Seq: 39 | 09:36:00 19 Sep 1995 HG | | |
| Hg | -.000 | ppb | .000 | -.000 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 40 | 09:38:13 19 Sep 1995 HG | | |
| Hg | -.023 | ppb | .000 | -.023 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 41 | 09:40:27 19 Sep 1995 HG | | |
| Hg | -.028 | ppb | .000 | -.028 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: ZZZZZZ | | | | | Seq: 42 | 09:42:41 19 Sep 1995 HG | | |
| Hg | -.023 | ppb | .000 | -.023 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 43 | 09:44:55 19 Sep 1995 HG | | |
| Hg | .967 | ppb | .000 | .967 | | | | |
| *** Sample ID: CCV4 | | | | | Seq: 44 | 09:47:12 19 Sep 1995 HG | | |
| Hg | 4.90 | ppb | .000 | 4.90 | | | | |
| *** Sample ID: CCB4 | | | | | Seq: 45 | 09:49:42 19 Sep 1995 HG | | |
| Hg | -.041 | ppb | .000 | -.041 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 46 | 09:51:56 19 Sep 1995 HG | | |
| Hg | .253 | ppb | .000 | .253 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 47 | 09:54:12 19 Sep 1995 HG | | |
| Hg | .309 | ppb | .000 | .309 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 48 | 09:56:26 19 Sep 1995 HG | | |
| Hg | -.019 | ppb | .000 | -.019 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 49 | 09:58:42 19 Sep 1995 HG | | |
| Hg | -.016 | ppb | .000 | -.016 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 50 | 10:00:57 19 Sep 1995 HG | | |
| Hg | -.028 | ppb | .000 | -.028 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 51 | 10:03:12 19 Sep 1995 HG | | |
| Hg | -.023 | ppb | .000 | -.023 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 52 | 10:05:27 19 Sep 1995 HG | | |
| Hg | -.026 | ppb | .000 | -.026 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 53 | 10:07:42 19 Sep 1995 HG | | |
| Hg | -.026 | ppb | .000 | -.026 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: ZZZZZZ | | | | | Seq: 54 | 10:09:57 19 Sep 1995 HG | | |
| Hg | -.030 | ppb | .000 | -.030 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 55 | 10:12:12 19 Sep 1995 HG | | |
| Hg | .972 | ppb | .000 | .972 | | | | |
| *** Sample ID: CCV5 | | | | | Seq: 56 | 10:14:29 19 Sep 1995 HG | | |
| Hg | 4.73 | ppb | .000 | 4.73 | | | | |
| *** Sample ID: CCB5 | | | | | Seq: 57 | 10:16:59 19 Sep 1995 HG | | |
| Hg | -.027 | ppb | .000 | -.027 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 58 | 10:19:14 19 Sep 1995 HG | | |
| Hg | -.022 | ppb | .000 | -.022 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 59 | 10:21:29 19 Sep 1995 HG | | |
| Hg | -.026 | ppb | .000 | -.026 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 60 | 10:23:45 19 Sep 1995 HG | | |
| Hg | -.012 | ppb | .000 | -.012 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 61 | 10:26:02 19 Sep 1995 HG | | |
| Hg | -.001 | ppb | .000 | -.001 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 62 | 10:28:18 19 Sep 1995 HG | | |
| Hg | 1.63 | ppb | .000 | 1.63 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 63 | 10:30:39 19 Sep 1995 HG | | |
| Hg | -.023 | ppb | .000 | -.023 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 64 | 10:32:57 19 Sep 1995 HG | | |
| Hg | -.012 | ppb | .000 | -.012 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 65 | 10:35:14 19 Sep 1995 HG | | |
| Hg | .000 | ppb | .000 | .000 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: ZZZZZZ | | | | | Seq: 66 | 10:37:31 19 Sep 1995 HG | | |
| Hg | -.017 | ppb | .000 | -.017 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 67 | 10:39:48 19 Sep 1995 HG | | |
| Hg | .835 | ppb | .000 | .835 | | | | |
| *** Sample ID: CCV6 | | | | | Seq: 68 | 10:42:15 19 Sep 1995 HG | | |
| Hg | 4.67 | ppb | .000 | 4.67 | | | | |
| *** Sample ID: CCB6 | | | | | Seq: 69 | 10:44:48 19 Sep 1995 HG | | |
| Hg | -.040 | ppb | .000 | -.040 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 70 | 10:47:05 19 Sep 1995 HG | | |
| Hg | -.022 | ppb | .000 | -.022 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 71 | 10:49:22 19 Sep 1995 HG | | |
| Hg | -.037 | ppb | .000 | -.037 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 72 | 10:51:40 19 Sep 1995 HG | | |
| Hg | -.035 | ppb | .000 | -.035 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 73 | 10:53:58 19 Sep 1995 HG | | |
| Hg | -.037 | ppb | .000 | -.037 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 74 | 10:56:16 19 Sep 1995 HG | | |
| Hg | -.024 | ppb | .000 | -.024 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 75 | 10:58:35 19 Sep 1995 HG | | |
| Hg | -.038 | ppb | .000 | -.038 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 76 | 11:00:53 19 Sep 1995 HG | | |
| Hg | -.026 | ppb | .000 | -.026 | | | | |
| *** Sample ID: ZZZZZZ | | | | | Seq: 77 | 11:03:12 19 Sep 1995 HG | | |
| Hg | -.027 | ppb | .000 | -.027 | | | | |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Sample ID: CCV7 | | | | Seq: 78 | 11:05:31 19 Sep 1995 HG | | | |
| Hg | 4.61 | ppb | .000 | 4.61 | | | | |
| *** Sample ID: CCB7 | | | | Seq: 79 | 11:08:02 19 Sep 1995 HG | | | |
| Hg | -.043 | ppb | .000 | -.043 | | | | |

# IV. DOCUMENTATION FOR METALS

A. DIGESTION LOG SHEETS
B. REPORTING ANALYSTS SIGNATURE SHEET

# H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

**ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**

CLP DIGESTION LOG Time Start 7:25

CLIENT: NYCC
SDG #: 0912
MATRIX: LEACHED
METHOD: CLP 1270

ANALYST SIGNATURE: [signature]
DATE: 9/15/95

| SAMPLE ID# | LAB NO. | DIG TYPE | INITIAL VOL. | FINAL VOL | SPIKE/ NOTES | DESCRIPTION* BEFORE | DESCRIPTION* AFTER |
|---|---|---|---|---|---|---|---|
| A84201 | 952547 | IE | 100ml | 100ml | | PALE ORANGE cloudy | colorless clear |
| 2 | 72 | | | | | ORANGE OPAQUE | LITE YELLO clear |
| 3 | 73 | | | | | PALE ORANGE cloudy | colorless clear |
| 4 | 74 | | | | | ORANGE OPAQUE | YELLO clear |
| 5 | 75 | | | | | PALE ORANGE cloudy | colorless clear |
| 6 | 76 | | | | | ↓ | ↓ |
| 7 MS/MSD | 77 | | | | | D. ORANGE OPAQUE | YELLO clear |
| ↓ ↓ | ↓ ↓ | | | | Dup | ↓ | ↓ |
| | | | | | Spike (+1.0ml IE) | | |
| | Blank | | | | | colorless clear | YELLO clear |
| | LCS | | | | | | |

EOID

COMMENTS: pH<2

* Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
* Description of texture: fine, medium, coarse.
* Description of clarity: clear, cloudy, opaque.
* Description of artifacts: yes or no and describe.

M 0169

P 0034

# H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLP DIGESTION LOG Time Start 7:42

CLIENT: NDEC
SDG #: 0912
MATRIX: LIQUID
METHOD: CLP AC-70

ANALYST SIGNATURE: [illegible]
DATE: 9/21/95

| SAMPLE ID# | LAB NO. | DIG TYPE | INITIAL VOL. | FINAL VOL | SPIKE/ NOTES | DESCRIPTION* BEFORE | DESCRIPTION* AFTER |
|---|---|---|---|---|---|---|---|
| A84204 | 952-5474 | FL | 100ml | 100ml | Pebbles | ORANGE OPAQUE | YELLO CLEAR |
| A84207 | ↓ 5477 | ↓ | ↓ | ↓ | Insufficient Amt. of Sample | DIORANGE OPAQUE | ↓ |
| | Blank | | | | | colorless CLEAR | colorless clear |
| | LCS | ↓ | ↓ | ↓ | (TRACER) | ↓ | YELLO clear |

VOID

COMMENTS: pH <2

* Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
* Description of texture: fine, medium, coarse.
* Description of clarity: clear, cloudy, opaque.
* Description of artifacts: yes or no and describe.

M 0170

P 0040

Hg [illegible]

# H2M LABS, INC.

Digestion 11:20 - 13:20

NDEC 0912
ERM 004

NAME: William Fitten
DATE: 9/18/95

## HG DIGESTIONS

| LAB NO. | CLIENT ID | SAMPLE WEIGHT GRAMS | SAMPLE VOLUME MLS | FINAL VOLUME MLS | DILUTION FACTOR | SPIKE |
|---|---|---|---|---|---|---|
| ICV | | | 0.5ml/100 | 100 | | |
| ICB | | | 100 | | | |
| CCV1 | | | 0.5ml/100 | | | |
| CCB1 | | | 100 | | | |
| PBw | | | | | | |
| 9525398 | XX Gw50 | | | | | |
| 399 | XX Gw60 | | | | | |
| 400 | XX Gw70 | | | | | |
| 401 | XX Gw80 | | | | | |
| 713 | XX Gw40 | | | | | |
| 713D | D | | | | | |
| 713S | S | | | | | / |
| 402 | XX Gw90 | | | | | |
| 403 | X Gw100 | | | | | |
| 404 | X Gw110 | | | | | |
| 405 | X Gw120 | | | | | |
| 406 | X Gw130 | | | | | |
| 711 | XX Gw20 | | | | | |
| 712 | XX Gw30 | | | | | |
| 477 | A84207 | | | | | |
| 477D | D | | | | | |
| 477S | S | | | | | / |
| 471 | A84201 | | | | | |
| 472 | A84202 | | | | | |
| 473 | A84203 | | | | | |

# H2M LABS, INC.

NAME: William Fritter
DATE: 9/18/95

## HG DIGESTIONS

| LAB NO. | CLIENT ID | SAMPLE WEIGHT GRAMS | SAMPLE VOLUME MLS | FINAL VOLUME MLS | DILUTION FACTOR | SPIKE |
|---|---|---|---|---|---|---|
| 9525474 | A84204 | | 100 | 100 | | |
| 475 | A84205 | | ↓ | ↓ | | |
| 476 | A84206 | | ↓ | ↓ | | |
| | | Cal std prep | | | | |
| 0.2 ppb | | | .02ml/100 | 100 | | |
| 1.0 | | | .10ml/100 | ↓ | | |
| 2.0 | | | .20ml/100 | ↓ | | |
| 6.0 | | | .60ml/100 | ↓ | | |
| 10.0 | | | 1.0ml/100 | ↓ | | |

# H2M LABS, INC.

CASE #: SH195

SDG #: 0912

SCAN METALS

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: Lynn Baumann

Date: 10/10/95

# VI. CSF PURGE PACKAGE

# H2M LABS, INC.

A. ORIGINAL SHIPPING DOCUMENTS
   1. NYSDEC CHAIN OF CUSTODY
   2. NYSDEC CLSIS
   3. AIRBILLS N/A LMB 10/12/95

**H2M LABS, INC.**
Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

№ 2411

# EXTERNAL CHAIN OF CUSTODY

PROJ. NO.

PROJECT NAME: Bldg 40 SUNY Stony Brook NY 11790 NYSDEC

SAMPLERS: (Signature)/Client: Jamie Ascher

DELIVERABLES: ~~AS-70~~ AC-70

Refrigerator #

SAMPLE CONTAINER DESCRIPTION →

TOTAL NO. OF CONTAINERS ↓

NOTES: 9525471-77

| DATE | TIME | MATRIX | FIELD I.D. | TOTAL NO. OF CONTAINERS | ANALYSIS REQUESTED: ORGANIC VOA | ORGANIC BNA | ORGANIC Pest/PCB | | | | INORG. Metal | INORG. CN | LAB I.D. No. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/12/95 | 1430 | G.W | SH1950912A84207 X | 9 | 4 | 4 | | | | | 1 | | | ms/msd |
| 9/12/95 | 1155 | G.W | SH1950912A84202 X | 5 | 2 | 2 | | | | | 1 | | | |
| 9/12/95 | 1230 | G.W | SH1950912A84203 X | 5 | 2 | 2 | | | | | 1 | | | |
| 9/12/95 | 1300 | G.W | SH1950912A84201 X | 5 | 2 | 2 | | | | | 1 | | | |
| 9/12/95 | 1320 | G.W | SH1950912A84204 X | 5 | 2 | 2 | | | | | 1 | | | |
| 9/12/95 | 1350 | G.W | SH1950912A84205 X | 5 | 2 | 2 | | | | | 1 | | | |
| 9/12/95 | 1410 | G.W | SH1950912A84206 X | 5 | 2 | 2 | | | | | 1 | | | |

| Relinquished by: (Signature) | Date | time | Received by: (Signature) | Date | time |
|---|---|---|---|---|---|
| RD 9-13 | | | RD 9-13 | | |
| Relinquished by: (Signature) | Date | time | Received by: (Signature) | Date | time |
| | | | | | |
| Relinquished by: (Signature) | Date | time | Received for Laboratory by: (Signature) | Date | time |
| | 9-13-95 | 1230 | | 9-13-95 | 1230 |

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or (N)
NOTES:

LABORATORY USE ONLY

Samples were: Samples received from cooler
1)Shipped ___ or Hand Delivered ___ Airbill # ___
2)Ambient or (Chilled)
3)Recieved in Good Condition (Y) or N
4)Properly Preserved (Y) or N
5)Samples returned to lab. ___ hours from Collection

COC Tape was:
1)Present on Outer Package Y or (N)
2)Unbroken on Outer Package Y or (N)
3)COC Record Present and Complete Upon Sample Rec't. (Y) or N

M 0176

ORIGINAL COPY

# H2M LABS, INC.

SAMPLE RECEIPT NON COMPLIANCE REPORT
H2M LABS, INC.

Client: NYS DEC-Region 1 SDG #: 0912

Date of Sample Receipt: 9-13-95 Received By: R. Diaz

**Problems with Samples:**

✓ ___ 1. Insufficient quantity received for proper analysis.
___ 2. Sample received broken or leaking.
___ 3. Sample received improperly preserved.
___ 4. Sample received in improper container.
___ 5. Holding time exceeded at receipt.
___ 6. Sample I.D. missing or incorrect on container.
___ 7. Multi-layer sample.
___ 8. No MS/MSD designated.
___ 9. Sample received out of temp. specs (4°C +/- 2°).
Recorded temperature_____°C.
___ 10. Other_____

**Problems with Chain of Custody (COC):**

___ 1. Sample received without COC form.
___ 2. Custody tape broken.
___ 3. COC form not relinquished by client.
___ 4. COC form not properly signed by client.
___ 5. Sample information on container does not match sample information on COC form.
___ 6. Other_____

Notes: 1 liter Poly for metals MS/MSD - MAW said it is OK then will run the sample on the trace analyzer
* No space documented in internal COC *
4 liters for BNAE MS/MSD - S.S. said this is enough sample to do analysis

Client Contact:_____

VA Notification procedure: ___ phone ___ fax ___ writing ___ other

Notified By:_____ Date / Time:_____

Corrective Action:_____

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP ~~#89-2~~) 91-2
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP ~~#89-1~~) 91-1
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: | TELEPHONE NUMBER: | REGION NO: |
|---|---|---|
| Jamie Ascher | 516 444 0246 | 02 |

| CONTRACT LAB: | COUNTY: | SAMPLING DATE: | MILITARY TIME: |
|---|---|---|---|
| H.M | Nassau | 9/12/95 | 1300 |

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| SHIPS | 0912 | ASN20 | ☐ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

M 0178

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: Jamie Archer | TELEPHONE NUMBER: 516 444 0246 | REGION NO: One |
|---|---|---|

| CONTRACT LAB: H2M | COUNTY: Nassau | SAMPLING DATE: 9/12/95 | MILITARY TIME: 1155 |
|---|---|---|---|

SAMPLE MATRIX: ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| 5 H 1 9 5 | 0 9 1 2 | A 8 4 2 0 2 | ☐ This Sample | ☐ Composite ☒ Grab ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

| SAMPLING POINT: | Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐ |
|---|---|---|---|
| | SPDES NUMBER/REGISTRY NUMBER | | FLOW GPD MGD |

M 0179

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: | TELEPHONE NUMBER: | REGION NO: |
|---|---|---|
| Jamie Ashe | 516 444 0216 | 02 |

| CONTRACT LAB: | COUNTY: | SAMPLING DATE: | MILITARY TIME: |
|---|---|---|---|
| H&M | Nassau | 9/12/95 | 1230 |

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| 5H15 | 0912 | A5H203 | ☐ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

M 0180

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: Jamie Ascher | TELEPHONE NUMBER: 516 444 0246 | REGION NO: 9 |
|---|---|---|
| CONTRACT LAB: H2M | COUNTY: Nassau | SAMPLING DATE: 9/12/95 — MILITARY TIME: 1225 |

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE |
|---|---|---|---|---|
| CH1R50 | A12 | A3.4.R.C.M | ☐ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

M 0181

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 68. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: | TELEPHONE NUMBER: | REGION NO: |
|---|---|---|
| Jamie Archer | 516 [illegible] | [illegible] |

| CONTRACT LAB: | COUNTY: | SAMPLING DATE: | MILITARY TIME: |
|---|---|---|---|
| [illegible] | [illegible] | 9/12/[illegible] | [illegible] |

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| 5 H 1 5 5 | 0 M 1 2 | A S M 2 0 5 | ☐ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

M 0182

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 InSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| | | | |
|---|---|---|---|
| COLLECTED BY: Jamie Ascher | TELEPHONE NUMBER: 516 4111 0246 | | REGION NO: 02 |
| CONTRACT LAB: H2M | COUNTY: Nassau | SAMPLING DATE: 6/22/95 | MILITARY TIME: 1410 |

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| H 1 9 5 | 1 2 | A 8 1 2 0 6 | ☐ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

M 0183

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

**CAUTION** (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

| COLLECTED BY: Jamie Fischer | TELEPHONE NUMBER: 516 4444 2216 | REGION NO: One |
|---|---|---|

| CONTRACT LAB: H2M | COUNTY: Nassau | SAMPLING DATE: 6-12-95 | MILITARY TIME: 1530 |
|---|---|---|---|

SAMPLE MATRIX: ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

| CASE NUMBER | SDG NUMBER | SAMPLE NUMBER | CHECK FOR MS/MD | TYPE OF SAMPLE: |
|---|---|---|---|---|
| 5H195 | 0512 | A5H207 | ☒ This Sample | ☒ Grab ☐ Composite ☐ Term ____ hrs |

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW M 0184 GPD MGD

B. ORIGINAL RECEIVING DOCUMENTS
1. DC-1 FORM
2. SDG COVER SHEET

# H2M LABS, INC.

## SDG COVER PAGE

CONTRACT NUMBER: C003180
LAB CODE: 10478
CASE NO.: SH195
SDG NO.: 0912

| DEC SAMPLE NO. | LAB SAMPLE ID. |
|---|---|
| A84201 | 9525471 |
| A84202 | 9525472 |
| A84203 | 9525473 |
| A84204 | 9525474 |
| A84505 | 9525475 |
| A84206 | 9525476 |
| A84207 MS/MSD | 9525477 |

**FIRST SAMPLE RECEIVED 9/13/95**
**FINAL SAMPLE RECEIVED 9/13/95**

SAMPLE LOG-IN SHEET

Lab Name: H2M Labs, Inc  Page 1 of 1

Received by (Print Name): Richard Diaz  Log-in Date: 9-13-95

Received by (Signature): [signature]

Case Number: SH195
SDG Number: 0912
SAS Number: —

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Numbers: —
3. Chain-of-Custody Records Present/Absent*
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/Absent*
5. Airbill Airbill/Sticker Present/Absent* Hand delivered
6. Airbill No.: —
7. Sample Tags Present/Absent* Sample Tag Nos. Listed/Not Listed on Chain-of-Custody
8. Sample Condition Intact/Broken*/Leaking
9. Does information on custody rec., CLSIS, & sample tags agree Yes/No*
10. Date received at Lab: 9-13-95
11. Time Received: 1230

| | CORRESPONDING | | |
|---|---|---|---|
| NYSDEC SAMPLE # | SAMPLE TAG # | ASSIGNED LAB # | REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC. |
| A84201 | | 925471 | OK (LSD) |
| A84202 | | 925472 | ↓ ↓ |
| A84203 | | 925473 | ↓ ↓ |
| A84204 | | 925474 | ↓ ↓ |
| A84205 | | 925475 | ↓ ↓ |
| A84206 | | 925476 | ↓ ↓ |
| A84207 | | 925477 | ↓ ↓ |

| Sample Transfer | | | | |
|---|---|---|---|---|
| Fraction: | TCLmetals | TCLVOC | BNA/ETCL | |
| Area #: | Metals | GC/MS | Sp. Process | |
| By: | RD | RD | RD | |
| On: | 9-13-95 | 9-13-95 | 9-13-95 | |

* Contact BTSR and attach record of resolution

Reviewed By: _____

Date: _____

Logbook No.: Metals 89; GC/MS 88; Sp. Process 9

Logbook Page No.: 000100; 000097; 000034

FORM DC-1

C. OTHER ORIGINAL LABORATORY TRANSFER RECORDS

1. INTERNAL CHAIN OF CUSTODY

# H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC ~~AS-70~~ AC-70 

SDG #: 0912 (~~Cat B~~) CLP

Case# 51195 9-13-95 SED 9/14/95

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY ~~S Dun~~ K. Diaz DATE 9-13-95 TIME 1230

SIGNATURE [illegible]

| CLIENT I.D. | H2M LAB # | BOTTLE TYPE | # OF BOTTLES | TESTS REQUESTED |
|---|---|---|---|---|
| A84201 | 925471 | D | 2 | TCL VOC'S |
| A84202 | 72 | | | |
| A84203 | 73 | | | |
| A84204 | 74 | | | |
| A84205 | 75 | | | |
| A84206 | 76 | | | |
| A84207 MS/MSD | 77 | | 4 | |

LSD 9-13-95

M 0189

HON LAB, INC
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

SDG #: 0912



INTERNAL CHAIN OF CUSTODY

| DATE | TIME | SAMPLE RELINQUISHED BY | SAMPLE RECEIVED BY | SAMPLE I.D. NO. AND BOTTLE TYPE | PURPOSE OF CHANGE OF CUSTODY | INIT |
|---|---|---|---|---|---|---|
| 9/13/95 | Jul 13 1830 | Sign [signature] | Sign [signature] | All D | Analysis | |
| 9/15/95 | 1830 | Sign [signature] | Sign G. Dermeade | All D | Analysis | |
| | | Sign | Sign | | | |
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M 0190

PAGE No: 000098

# H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC ~~AS-70~~ AC-70 

SDG #: 0912 (~~Cat B~~) CLP

Case# SH195

9/14/95

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY R. Diaz DATE 9.13.95 TIME 1230

SIGNATURE

| CLIENT I.D. | H2M LAB # | BOTTLE TYPE | # OF BOTTLES | TESTS REQUESTED |
|---|---|---|---|---|
| A84201 | 9525471 | G | 2 | BN/AETCL |
| A84202 | 72 | | | |
| A84203 | 73 | | | |
| A84204 | 74 | | | |
| A84205 | 75 | | | |
| A84206 | 76 | | | |
| A84207 MS/MSD | 77 | | 4 | |

LSO 9-13-95

PAGE No: 000034

M 0191

HOM LABS INC
575 Broad Hollow Road, Melville, N.Y. 1174
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

SDG #: 0912



INTERNAL CHAIN OF CUSTODY

| DATE | TIME | SAMPLE RELINQUISHED BY | SAMPLE RECEIVED BY | SAMPLE I.D. NO. AND BOTTLE TYPE | PURPOSE OF CHANGE OF CUSTODY | INIT |
|---|---|---|---|---|---|---|
| 9/13/95 | 17.0 | Sign [illegible] | Sign M. Crespi | All G | Prep | |
| 9/14/95 | 10:25 | Sign M. Crespi | Sign [illegible] | All G | Extractions | |
| 9/15/95 | 2010 | Sign [illegible] | Sign G. Deakeade | ALL G | ANALYSIS | |
| 9/25/95 | 18.5 | Sign G. Deakeade | Sign U. Altmer | all G (E) | analyses | |
| | | Sign | Sign | | | |
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# H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC ~~AS-70~~ AC-70 Page 1 of 3

pre-checked ✓

SDG #: 0912 (~~Cat B~~) CLP

Case # SH195

SED 9/14/95

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY R. Diaz DATE 9.13.95 TIME 1230

SIGNATURE [signature]

C

folder ✓

| CLIENT I.D. | H2M LAB # | BOTTLE TYPE | # OF BOTTLES | TESTS REQUESTED |
|---|---|---|---|---|
| A84201 | 9525471 | EN | 1 | TCL Metals |
| A84202 | 72 | | | |
| A84203 | 73 | | | |
| A84204 | 74 | | | |
| A84205 | 75 | | | |
| A84206 | 76 | | | |
| * A84207 MS/MSD | 77 | | * | |
| * No spare sample for MS/MSD | | | | |

LSD 9-13-95

PAGE No: 000100

M 0193

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC



DG #: C912

## INTERNAL CHAIN OF CUSTODY

| DATE | TIME | SAMPLE RELINQUISHED BY | SAMPLE RECEIVED BY | SAMPLE I.D. NO. AND BOTTLE TYPE | PURPOSE OF CHANGE OF CUSTODY | INIT |
|---|---|---|---|---|---|---|
| 9/13/95 | 1600 | Sign [illegible] | Sign [illegible] | All EN | analysis | |
| 9/15/95 | 7:20 | Sign Karen Prans | Sign [illegible] | all EN | FL Digs | |
| 9/15/95 | 12:55 | Sign [illegible] | Sign Karen Prans | all EN / FL Digs | storage | |
| 9/15/95 | 14:00 | Sign Karen Prans | Sign J. M. Mtz | All Fl digs | JM 9/15 ~~storage~~ analysis | |
| 9/15/95 | 16:45 | Sign J. M. Mtz | Sign Cabinet C | All Fl digs | storage | |
| 9/16/95 | 6:30 | Sign Cabinet C | Sign J. M. Mtz | All Fl digs | analysis | |
| 9/16/95 | 15:00 | Sign J. M. Mtz | Sign Cabinet C | All Fl digs | storage | |
| 9/18/95 | 6:45 | Sign Karen Prans | Sign [illegible] | all EN | Hg prep | |
| 9/18/95 | 9:10 | Sign [illegible] | Sign Karen Prans | all EN | storage | |
| 9/19/95 | 7:00 | Sign [illegible] | Sign [illegible] | all BOD | Hg analysis | |
| 9/20/95 | 13:00 | Sign Karen Prans | Sign [illegible] | all fl digs | ICP (Trace) | |
| 9/20/95 | 16:30 | Sign [illegible] | Sign Cabinet B | All fl digs | Storage | |
| 9/21/95 | 7:40 | Sign Karen Prans | Sign [illegible] | EN 9525474 5477 | Redig | |
| 9/21/95 | 12:15 | Sign [illegible] | Sign Karen Prans | EN 9525474 5477 / Fl redig | Storage | |
| 9/22/95 | 12:30 | Sign Karen Prans | Sign [illegible] | All fl redigs. | ICP (Trace) | |
| 9/22/95 | 17:00 | Sign [illegible] | Sign Cabinet B | All fl redigs. | Storage | |
| 9/28/95 | 12:30 | Sign Cabinet B | Sign [illegible] | 9525477 fl. redig | ICP (Trace) | |
| 9/28/95 | 15:30 | Sign [illegible] | Sign Cabinet B | 9525477 fl redig | Storage | |
| | | Sign | Sign | | | |
| | | Sign | Sign | | | |
| | | Sign | Sign | | | |
| | | Sign | Sign | | | |

PAGE No: 000101

M 0194

# H2M LABS, INC.

D. SDG SPECIFIC DOCUMENTS

1. TELEPHONE LOG n/a LMB 10/12/95
2. CASE SPECIFIC NOTES n/a