Suite 201
1090 King Georges Post Road, Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

TRANSMITTAL MEMO

To: Greg Deangelis, OSC
Removal Action Branch, U.S. EPA Region II

From: Smita Sumbaly, Data Reviewer
Joe Filosa, Project Manager
TAT Region II

Subject: Documentation of Transmittal

Date: August 31, 1995

The purpose of this memo is to transmit the following information:

Site: Haller Testing Site

Subject:

1. Data validation results for the following parameters:

   TAL 01 sample

2. Matrices and Number of Samples:

   Soil 01 sample

3. Sampling date: July 27, 1995

4. Final data assessment narrative and original analytical data package sent to Greg Deangelis, Region II On Scene Coordinator, on August 31,1995.

cc: TAT PM: Joe Filosa
TAT FILE: TDD #: 02-9507-L007
TDD #: 02-9507-0013
WO # : 0473

217063

ANALYTICAL DATA REPORT PACKAGE

ROY F. WESTON, INC.

Site Reference 0473

REPORT GENERATION DATE: August 15, 1995
DATE SAMPLED: 07/27/95

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

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ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

AUGUST 15, 1995
17:00:51

CLIENT: ROY F. WESTON, INC.
SOURCE: Site Reference 0473

ANALYTICAL DATA SUMMARY REPORT FOOTNOTE PAGE

U = Indicates a compound was analyzed for but not detected.
For results marked U, the numerical value is the compound MDL.

J = Indicates an estimated value. It is utilized when a reported value meets the identification.
criteria but the result is less than the specified detection limit and greater than zero.

B = Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

W = Analytical Spike recovery for furnace AA analysis was not within control limits but was greater than or equal to 40%.

NA = Not Applicable.

Trip Blank pH is measured in laboratory.

IND = Indeterminable - compound decomposes in water.

+ = Indicates that an MDL was not available for this compound. PQL was reported.

P = Positive

N = Negative

BONNIE

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

AUGUST 15, 1995
17:00:43

CLIENT: ROY F. WESTON, INC.
SOURCE: Site Reference 0473

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	HTS-1
ICM Sample Number	216666
Sampling Date	07/27/95
Units	MG/KG
INORGANIC PARAMETERS (METALS)	
Aluminum	5500
Antimony	1.65 U
Arsenic	3.85
Barium	122
Beryllium	0.330
Cadmium	2.09
Calcium	27200
Chromium	30.6
Cobalt	3.74
Copper	51.7
Iron	13800
Lead	298
Magnesium	3290
Manganese	193
Mercury	1.41
Nickel	14.9
Potassium	1010
Selenium	0.550
Silver	0.550 U
Sodium	158
Thallium	0.606
Vanadium	20.7
Zinc	143

1A

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ANALYTICAL DATA REPORT PACKAGE

Client: ROY F. WESTON, INC.
Sample Source: Site Reference 0473
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
HTS-1	Soil	216666	07/27/95 09:40	07/27/95

Supervisor/Manager Signature:

Richard S. Levine (MC)

Richard S. Levine

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BON

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submissions. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The proposed "Technical Requirements for Site Remediation" rules, which appeared in the May 4, 1992 New Jersey Register, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

		Check if Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address, & date of report	✓
2.	Table of Contents	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds	✓
4.	Summary Table cross-referencing field ID #'s vs. Lab ID #'s	✓
5.	Document bound, paginated and legible	✓
6.	Chain of Custody	✓
7.	Methodology Summary	✓
8.	Laboratory Chronicle and Holding Time Check	✓
9.	Results submitted on a dry weight basis (if applicable)	✓
10.	Method Detection Limits	✓
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP	✓
12.	Non-Conformance Summary	✓

Carla Mesp
ICM LABORATORIES
Quality Assurance Manager

8/15/95
Date

CHAIN OF CUSTODY RECORD

Address verbal and written results
to the attention of Smita Sumbaly,
Analytical Coordinator.

RFP #: 0473

PO #: 16-3943

Name of Unit and Address:

WESTON MANAGERS DESIGNERS/CONSULTANTS

Suite 201
1090 King Georges Post Road, Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

Sample Number	Number of Containers	Description of Samples
HTS-1 Lab # 216666	1	1x 8oz. glass Jar for Target Analyte List (TAL) metals EPA-method SW-846 6010/7000 Sample Date: 7/27/95 0940 Am 3.2°C Reduced Deliverables 6/7

Person Assuming Responsibility for Sample:	Time	Date
[signature]	1000	7/27/95

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All	[signature]	Nutan Chale	1050	7/27/95	RECEIPT AT LAB
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Foster Wheeler USA Corporation, Resource Applications, Inc., C.C. Johnson & Malhotra, P.C., R.E. Sarriera Associates, and GRB Environmental Services, Inc.

ICM Laboratories, Inc.
Internal Chain-of-Custody

LINK: 216666

Account number: WA2513 ROY F. WESTON, INC.
Project: Hauer Testing
Tier Level: Standard

Laboratory Person Breaking Seal on Shuttle: Nalan Chalan

Title: Log in

Lab Number	Relinq. By	Recd. By	Date	Time	Reason for Transfer	Aliquot ID
All	NT	TY	07/27/95	12:30	STORAGE	ALL
All	TY	BN	8/7/95	9:50	metals	501
All	BN	TY	8/7/95	15:30	Storage	501

Randolph, NJ 07869
(201) 584-0330

US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 07/27/95 PRESERVATIVE: 4 degrees C

DATE RECEIPT/REFRIGERATION: 07/27/95 Cooler Temp: 3.2°C

ETALS:

LAB ID #	DATE ANALYZED METALS	DATE ANALYZED MERCURY	pH
216666	08/08/95	08/09/95	NA

DEPT. SUPERVISOR: Gene K. Mardell

QA REVIEW & APPROVAL: Donna S. Basile

METAL ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

		NO	YES
1.	Calibration Summary Meet Criteria	____	✓
2.	ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria	____	✓
3.	Serial Dilution Summary Submitted (if applicable) / Meet Criteria	____	✓
4.	Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria	____	✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)	____	✓
7.	Extraction Holding Time Met	____	✓
	If not met, list number of days exceeded for each sample _____		
8.	Analysis Holding Time Met	____	✓
	If not met, list number of days exceeded for each sample _____		

Additional Comments: _____

Laboratory Manager: Matthew A Cordova Date: 8/15/95

METHODOLOGY

Aluminum
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Antimony
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Arsenic
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Barium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Beryllium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Cadmium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Calcium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Chromium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Cobalt
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Copper
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Iron
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Lead
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Magnesium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Manganese
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Mercury
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 7470

Nickel
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Potassium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Selenium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Silver
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Sodium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Thallium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/~~7841~~6010A
0258/1+18

Vanadium
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

Zinc
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3050A/6010A

* Indicates reference.
** Indicates method.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 216666
Client: ROY F. WESTON, INC.
Sample source: Site Reference 0473
Sample ID: HTS-1
Sample date: 07/27/95
Sampled by: Customer
At lab date: 07/27/95
Matrix: SOIL

Percent Moisture: 9.17 %

ICP/FURNACE Initial weight: 2 g
Mercury Initial weight: 0.500g

ICP/FURNACE Final volume: 100ml
Mercury Final volume: 100 ml

Results in mg/kg dry weight basis.

Parameter	Dilution Factor	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Aluminum	1	5500	U	5.50	08/08/95
Antimony	1	U	U	1.65	08/08/95
Arsenic	1	3.85	U	0.220	08/08/95
Barium	1	122	U	0.550	08/08/95
Beryllium	1	0.330	U	0.275	08/08/95
Cadmium	1	2.09	U	0.275	08/08/95
Calcium	1	27200	U	11.0	08/08/95
Chromium	1	30.6	U	0.550	08/08/95
Cobalt	1	3.74	U	0.550	08/08/95
Copper	1	51.7	U	1.38	08/08/95
Iron	1	13800	U	2.75	08/08/95
Lead	1	298	U	2.75	08/08/95
Magnesium	1	3290	U	5.50	08/08/95
Manganese	1	193	U	0.826	08/08/95
Mercury	1	1.41	U	0.110	08/09/95
Nickel	1	14.9	U	1.38	08/08/95
Potassium	1	1010	U	110	08/08/95
Selenium	1	0.550	U	0.220	08/08/95
Silver	1	U	U	0.550	08/08/95
Sodium	1	158	U	55.0	08/08/95
Thallium	1	0.606	U	0.440	08/08/95
Vanadium	1	20.7	U	1.38	08/08/95
Zinc	1	143	U	1.10	08/08/95

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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1152 Route 10
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201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Blanks

Batch Number: T2111B

Associated Samples: 216666 217498-500 217502-504 216868-216881 216871 216871D 216871S 216871SD BLANK BLANKD BLANKS BLANKSD

Matrix: Soil Units: mg/L
Analysis Date: 08/08/95

Parameter	Initial Calib. Blank	Continuing Calibration Blank 1	2	3	4	5	6	7	8	9	10	Method Blank	Method Detection Limit
Aluminum	U	U	U	U	U	U	U	U				U	0.100
Antimony	U	U	U	U	U	U	U	U				U	0.030
Arsenic	U	U	U	U	U	U	U	U				U	0.004
Barium	U	U	U	U	U	U	U	U				U	0.010
Beryllium	U	U	U	U	U	U	U	U				U	0.005
Cadmium	U	U	U	U	U	U	U	U				U	0.005
Calcium	U	U	U	U	U	U	U	U				U	0.200
Chromium	U	U	U	U	U	U	U	U				U	0.010
Cobalt	U	U	U	U	U	U	U	U				U	0.010
Copper	U	U	U	U	U	U	U	U				U	0.025
Iron	U	U	U	U	U	U	U	U				U	0.050
Lead	U	U	U	U	U	U	U	U				U	0.004
Manganese	U	U	U	U	U	U	U	U				U	0.015
Magnesium	U	U	U	U	U	U	U	U				U	0.100
Nickel	U	U	U	U	U	U	U	U				U	0.025
Potassium	U	U	U	U	U	U	U	U				U	2.00
Selenium	U	U	U	U	U	U	U	U				U	0.004
Silver	U	U	U	U	U	U	U	U				U	0.010
Sodium	U	U	U	U	U	U	U	U				U	1.00
Vanadium	U	U	U	U	U	U	U	U				U	0.025
Zinc	U	U	U	U	U	U	U	U				U	0.020
Thallium	U	U	U	U	U	U	U	U				U	0.008

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1152 Route 10
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201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

AA Metals Quality Assurance Data - Blanks

Batch Number: 2111HG

Associated Samples: 216666 216868-216870 216871 216871 216871D 216871S 216871SD
216872-216883 BLANK BLANKD BLANKS BLANKSD

Matrix: Soil Units: mg/L

Parameter	Initial Calib. Blank	Continuing Calibration Blank 1	2	3	4	5	6	7	8	9	10	Method Blank	Method Detection Limit	Analysis Date
Mercury	U	U	U	U	U	U	U	U				U	0.0005	08/09/95

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1152 Route 10
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201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Calibration Standards

Batch Number: T2111B

Associated Samples: 216666 217498-500 217502-504 216868-216881 216871 216871D 216871S 216871SD BLANK BLANKD BLANKS BLANKSD

Units: mg/L
Analysis Date: 08/08/95

Parameter	Calibration Standard Concentration	Instrument Detection Limit	Method Detection Limit
Aluminum	20.0	0.0167	0.100
Antimony	10.0	0.0204	0.030
Arsenic	1.00	0.0020	0.004
Barium	20.0	0.0015	0.010
Beryllium	0.500	0.0006	0.005
Cadmium	5.00	0.0014	0.005
Calcium	100	0.0118	0.200
Chromium	2.00	0.0030	0.010
Cobalt	5.00	0.0049	0.010
Copper	2.50	0.0031	0.025
Iron	10.0	0.0050	0.050
Lead	1.00	0.0020	0.004
Manganese	5.00	0.0005	0.015
Magnesium	100	0.0456	0.100
Nickel	5.00	0.0108	0.025
Potassium	100	0.6088	2.00
Selenium	1.00	0.0020	0.004
Silver	2.50	0.0043	0.010
Sodium	100	0.0177	1.00
Vanadium	5.00	0.0038	0.025
Zinc	5.00	0.0019	0.020
Thallium	1.00	0.0020	0.008

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201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Check Standards

Batch Number: T2111B

Associated Samples: 216666 217498-500 217502-504 216868-216881 216871 216871D 216871S 216871SD BLANK BLANKD BLANKS BLANKSD

Units: mg/L

	INITIAL CALIBRATION				CONTINUING CALIBRATION		
Parameter	True Value	Found Value	% Recovery	Analysis Date	True Value	Found Value	% Recovery
Aluminum	2.00	2.03	102	08/08/95	5.00	5.16	103
Antimony	0.500	0.527	105	08/08/95	0.500	0.514	103
Arsenic	2.00	2.03	102	08/08/95	0.500	0.514	103
Barium	2.00	2.10	105	08/08/95	5.00	5.18	104
Beryllium	0.050	0.052	104	08/08/95	0.125	0.128	102
Cadmium	0.050	0.051	102	08/08/95	0.250	0.249	100
Calcium	5.00	5.25	105	08/08/95	12.5	12.8	102
Chromium	0.200	0.205	102	08/08/95	0.500	0.506	101
Cobalt	0.500	0.510	102	08/08/95	1.25	1.26	101
Copper	0.250	0.257	103	08/08/95	0.625	0.627	100
Iron	1.00	1.01	101	08/08/95	2.50	2.58	103
Lead	0.500	0.514	103	08/08/95	0.500	0.514	103
Manganese	0.500	0.523	105	08/08/95	1.25	1.27	102
Magnesium	5.00	5.05	101	08/08/95	12.5	12.7	102
Nickel	0.500	0.513	103	08/08/95	1.25	1.27	102
Potassium	5.00	5.39	108	08/08/95	12.5	12.9	103
Selenium	0.500	0.523	105	08/08/95	0.500	0.527	105
Silver	0.125	0.130	104	08/08/95	0.625	0.629	101
Sodium	5.00	5.10	102	08/08/95	12.5	12.3	98
Vanadium	0.500	0.507	101	08/08/95	1.25	1.26	101
Zinc	0.500	0.543	109	08/08/95	1.25	1.30	104
Thallium	00.500	0.507	101	08/08/95	0.500	0.510	102

QC Limits = 90 - 110 %

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1152 Route 10
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201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Check Standards

Batch Number: T2111B

Associated Samples: 216666 217498-500 217502-504 216868-216881 216871 216871D 216871S 216871SD BLANK BLANKD BLANKS BLANKSD

Units: mg/L

CONTINUING CALIBRATION

Parameter	True Value	Found Value	% Recovery	Found Value	% Recovery	Found Value	% Recovery
Aluminum	5.00	5.08	102	5.05	101	5.05	101
Antimony	0.500	0.498	100	0.490	98	0.482	96
Arsenic	0.500	0.503	101	0.487	97	0.478	96
Barium	5.00	5.05	101	5.00	100	5.00	100
Beryllium	0.125	0.124	99	0.123	98	0.120	96
Cadmium	0.250	0.242	97	0.237	95	0.233	93
Calcium	12.5	12.4	99	12.3	98	12.2	98
Chromium	0.500	0.489	98	0.484	97	0.479	96
Cobalt	1.25	1.22	98	1.20	96	1.18	94
Copper	0.625	0.610	98	0.606	97	0.595	95
Iron	2.50	2.53	101	2.51	100	2.50	100
Lead	0.500	0.496	99	0.489	98	0.484	97
Manganese	1.25	1.23	98	1.22	98	1.21	97
Magnesium	12.5	12.4	99	12.3	98	12.1	97
Nickel	1.25	1.233	99	1.21	97	1.19	95
Potassium	12.5	12.7	102	12.6	101	12.5	100
Selenium	0.500	0.513	103	0.510	102	0.494	99
Silver	0.625	0.606	97	0.603	96	0.591	94
Sodium	12.5	12.0	96	12.1	97	11.9	95
Vanadium	1.25	1.22	98	1.21	97	1.20	96
Zinc	1.25	1.26	101	1.24	99	1.21	97
Thallium	0.500	0.494	99	0.486	97	0.478	96

QC Limits = 90 - 110 %

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1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Check Standards

Batch Number: T2111B

Associated Samples: 216666 217498-500 217502-504 216868-216881 216871 216871D 216871S 216871SD BLANK BLANKD BLANKS BLANKSD

Units: mg/L

CONTINUING CALIBRATION

Parameter	True Value	Found Value	% Recovery	Found Value	% Recovery	Found Value	% Recovery
Aluminum	5.00	5.24	105	5.16	103	5.20	104
Antimony	0.500	0.507	101	0.485	97	0.476	95
Arsenic	0.500	0.498	100	0.480	96	0.464	93
Barium	5.00	5.27	105	5.28	106	5.30	106
Beryllium	0.125	0.127	102	0.120	96	0.117	94
Cadmium	0.250	0.243	97	0.232	93	0.225	90
Calcium	12.5	12.6	101	12.0	96	11.7	94
Chromium	0.500	0.502	100	0.479	96	0.469	94
Cobalt	1.25	1.24	99	1.18	94	1.15	92
Copper	0.625	0.658	105	0.646	103	0.640	102
Iron	2.50	2.63	105	2.48	99	2.44	98
Lead	0.500	0.505	101	0.485	97	0.476	95
Manganese	1.25	1.27	102	1.22	98	1.19	95
Magnesium	12.5	12.6	101	12.4	99	12.2	98
Nickel	1.25	1.24	99	1.24	99	1.18	94
Potassium	12.5	12.9	103	12.7	102	12.6	101
Selenium	0.500	0.518	104	0.500	100	0.488	98
Silver	0.625	0.622	100	0.605	97	0.595	95
Sodium	12.5	12.4	99	12.7	102	12.1	97
Vanadium	1.25	1.26	101	1.22	98	1.21	97
Zinc	1.25	1.27	102	1.20	96	1.16	93
Thallium	0.500	0.499	100	0.483	97	0.475	95

QC Limits = 90 - 110 %

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AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

AA Metals Quality Assurance Data - Calibration Standards

Batch Number: 2111HG

Associated Samples: 216666 216868-216870 216871 216871 216871D 216871S 216871SD 216872-216883 BLANK BLANKD BLANKS BLANKSD

Units: mg/L

Parameter	Calibration Standard Concentration 1	2	3	4	5	6	Instrument Detection Limit	Method Detection Limit	Analysis Date
Mercury	0.0002	0.0005	0.0010	0.0020	0.0050	0.0100	0.0001	0.0005	08/09/95

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US EPA Historic CLP Lab

AA Metals Quality Assurance Data - Check Standards

Batch Number: 2111HG

Associated Samples: 216666 216868-216870 216871 216871 216871D 216871S 216871SD 216872-216883 BLANK BLANKD BLANKS BLANKSD

Units: mg/L

	INITIAL CALIBRATION				CONTINUING CALIBRATION		
Parameter	True Value	Found Value	% Recovery	Analysis Date	True Value	Found Value	% Recovery
Mercury	0.0040	0.0041	102	08/09/95	0.0050	0.0051	102

QC Limits = 90 - 110 % Furnace
QC Limits = 80 - 120 % Mercury

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AA Metals Quality Assurance Data - Check Standards

Batch Number: 2111HG

Associated Samples: 216666 216868-216870 216871 216871 216871D 216871S 216871SD 216872-216883 BLANK BLANKD BLANKS BLANKSD

Units: mg/L

CONTINUING CALIBRATION

Parameter	True Value	Found Value	% Recovery	Found Value	% Recovery	Found Value	% Recovery
Mercury	0.0050	0.0052	104	0.0054	108	0.0054	108

QC Limits = 90 - 110 % Furnace
QC Limits = 80 - 120 % Mercury

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US EPA Historic CLP Lab

AA Metals Quality Assurance Data - Check Standards

Batch Number: 2111HG

Associated Samples: 216666 216868-216870 216871 216871 216871D 216871S 216871SD 216872-216883 BLANK BLANKD BLANKS BLANKSD

Units: mg/L

			CONTINUING CALIBRATION				
Parameter	True Value	Found Value	% Recovery	Found Value	% Recovery	Found Value	% Recovery
Mercury	0.0050	0.0055	110	0.0054	108	0.0054	108

QC Limits = 90 - 110 % Furnace
QC Limits = 80 - 120 % Mercury

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ICP Metals Quality Assurance Data - Interference Check Sample

Batch Number: T2111B
Analysis Date: 08/08/95
Units: mg/L

Parameter	Control Limits	True Value	Initial Observed	% Recovery	Final Observed	% Recovery
Aluminum	+/- 20%	500	471	94	456	91
Antimony	+/- 20%	1.00	1.08	108	0.971	97
Arsenic	+/- 20%	1.00	1.04	104	0.917	92
Barium	+/- 20%	0.500	0.567	113	0.564	113
Beryllium	+/- 20%	0.500	0.501	100	0.445	89
Cadmium	+/- 20%	1.00	0.978	98	0.859	86
Calcium	+/- 20%	500	469	94	413	83
Chromium	+/- 20%	0.500	0.502	100	0.449	90
Cobalt	+/- 20%	0.500	0.500	100	0.445	89
Copper	+/- 20%	0.500	0.588	118	0.584	117
Iron	+/- 20%	200	192	96	172	86
Lead	+/- 20%	1.00	1.02	102	0.914	91
Manganese	+/- 20%	0.500	0.514	103	0.465	93
Magnesium	+/- 20%	500	513	103	471	94
Nickel	+/- 20%	1.00	0.986	99	0.872	87
Potassium	+/- 2.0	0	0.044	NC	0.092	NC
Selenium	+/- 20%	1.00	1.04	104	0.941	94
Silver	+/- 20%	1.00	1.13	113	1.04	104
Sodium	+/- 1.0	0	0.355	NC	0.510	NC
Vanadium	+/- 20%	0.500	0.517	103	0.477	95
Zinc	+/- 20%	1.00	1.08	108	0.946	95
Thallium	+/- 20%	1.00	1.03	103	0.928	93

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US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Lab Number: 216871
Matrix: Soil

Percent Moisture: 20.54%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868-216881 216666

Parameter	Sample Result	Spike Added	Spike Sample Result	Spike Recovery %	Spike Contr. Limits %	Minimum Detection Limit	Method Blank Analysis
Aluminum	16400	629	23100	1070	75-125	6.29	U
Antimony	U	315	264	84	75-125	1.89	U
Arsenic	31.7	252	257	89	75-125	0.252	U
Barium	106	629	711	96	75-125	0.629	U
Beryllium	0.629	15.7	13.9	84	75-125	0.315	U
Cadmium	30.1	15.7	59.8	189J	75-125	0.315	U
Calcium	47400	31500	89400	133	75-125	12.6	U
Chromium	98.8	62.9	277	284J	75-125	0.629	U
Cobalt	13.1	157	149	86	75-125	0.629	U
Copper	4220	3150	6980	88	75-125	1.57	U
Iron	22500	315	31100	2740	75-125	3.15	U
Lead	239	62.9	438	316J	75-125	3.15	U
Magnesium	5760	1570	7110	86	75-125	6.29	U
Manganese	381	157	667	182J	75-125	0.944	U
Mercury	U	0.5034	0.6544	130J	75-125	0.1258	U
Nickel	133	157	381	158J	75-125	1.57	U
Potassium	2200	1570	4300	134	75-125	126	U
Selenium	1.32	252	181	71J	75-125	0.252	U
Silver	1.57	15.7	17.0	98	75-125	0.629	U
Sodium	132	1570	1600	94	75-125	62.9	U
Thallium	1.01	252	195	77	75-125	0.503	U
Vanadium	2.57	157	175	110	75-125	1.57	U
Zinc	527	157	743	137J	75-125	1.26	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - SPIKE RECOVERIES

atch Number: 2111
Lab Number: BLANK
Matrix: Soil

Percent Moisture: 100%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868 216881 217221-217226 216666

Parameter	Sample Result	Spike Added	Spike Sample Result	Spike Recovery %	Spike Contr. Limits %	Minimum Detection Limit	Method Blank Analysis
Aluminum	U	100	97.5	98	75-125	5.00	U
Antimony	U	25.0	25.2	101	75-125	1.50	U
Arsenic	U	100	97.5	98	75-125	0.200	U
Barium	U	100	102	101	75-125	0.500	U
Beryllium	U	2.50	2.45	98	75-125	0.250	U
Cadmium	U	2.50	2.40	96	75-125	0.250	U
Calcium	U	250	247	99	75-125	10.0	U
Chromium	U	10.0	9.75	98	75-125	0.500	U
Cobalt	U	25.0	24.3	97	75-125	0.500	U
Copper	U	12.5	12.4	99	75-125	1.25	U
Iron	U	50.0	48.0	96	75-125	2.50	U
Lead	U	25.0	24.5	98	75-125	0.200	U
Magnesium	U	250	247	99	75-125	5.00	U
Manganese	U	25.0	24.8	99	75-125	0.750	U
Mercury	U	0.200	0.200	100	75-125	0.025	U
Nickel	U	25.0	24.4	98	75-125	1.25	U
Potassium	U	250	264	106	75-125	100	U
Selenium	U	25.0	25.3	101	75-125	0.200	U
Silver	U	6.25	6.15	98	75-125	0.500	U
Sodium	U	250	243	97	75-125	50.0	U
Thallium	U	25.0	24.5	98	75-125	0.400	U
Vanadium	U	25.0	24.2	97	75-125	1.25	U
Zinc	U	25.0	25.7	103	75-125	1.00	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - DUPLICATES

Lab Number: 216871
Matrix: Soil

Percent Moisture: 20.54%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868-216881 216666

	Sample	Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Aluminum	16400	16400	<1	+-20	6.29	U
Antimony	U	U	NC	NC	1.89	U
Arsenic	31.7	31.7	<1	+-20	0.252	U
Barium	106	106	0	+-20	0.629	U
Beryllium	0.629	0.629	0	+-50	0.315	U
Cadmium	30.1	30.0	<1	+-20	0.315	U
Calcium	47400	47300	<1	+-20	12.6	U
Chromium	98.8	98.2	<1	+-20	0.629	U
Cobalt	13.1	13.0	<1	+-20	0.629	U
Copper	4220	4200	<1	+-20	1.57	U
Iron	22500	22400	<1	+-20	3.15	U
Lead	239	238	<1	+-20	3.15	U
Magnesium	5760	5730	<1	+-20	6.29	U
Manganese	381	380	<1	+-20	0.944	U
Mercury	U	U	NC	NC	0.1258	U
Nickel	133	133	<1	+-20	1.57	U
Potassium	2200	2200	<1	+-20	126	U
Selenium	1.32	1.32	0	+-20	0.252	U
Silver	1.57	1.57	0	+-40	0.629	U
Sodium	132	132	0	+-48	62.9	U
Thallium	1.01	1.32	27	+-43	0.503	U
Vanadium	25.7	25.7	0	+-20	1.57	U
Zinc	527	525	<1	+-20	1.26	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - DUPLICATES

atch Number: 2111
Lab Number: BLANK
Matrix: Soil

Percent Moisture: 100%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868-216881 217221-217226 216666

	Sample	Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Aluminum	U	U	NC	NC	5.00	U
Antimony	U	U	NC	NC	1.50	U
Arsenic	U	U	NC	NC	0.200	U
Barium	U	U	NC	NC	0.500	U
Beryllium	U	U	NC	NC	0.250	U
Cadmium	U	U	NC	NC	0.250	U
Calcium	U	U	NC	NC	10.0	U
Chromium	U	U	NC	NC	0.500	U
Cobalt	U	U	NC	NC	0.500	U
Copper	U	U	NC	NC	1.25	U
Iron	U	U	NC	NC	2.50	U
Lead	U	U	NC	NC	0.200	U
Magnesium	U	U	NC	NC	5.00	U
Manganese	U	U	NC	NC	0.750	U
Mercury	U	U	NC	NC	0.025	U
Nickel	U	U	NC	NC	1.25	U
Potassium	U	U	NC	NC	100	U
Selenium	U	U	NC	NC	0.200	U
Silver	U	U	NC	NC	0.500	U
Sodium	U	U	NC	NC	50.0	U
Thallium	U	U	NC	NC	0.400	U
Vanadium	U	U	NC	NC	1.25	U
Zinc	U	U	NC	NC	1.00	U

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RPD = Relative percent difference

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NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - SPIKE DUPLICATE

Lab Number: 216871
Matrix: Soil

Percent Moisture: 20.54%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868-216881 216666

	Spike Sample	Spike Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Aluminum	23100	23200	<1	+-20	6.29	U
Antimony	264	263	<1	+-20	1.89	U
Arsenic	257	256	<1	+-20	0.252	U
Barium	711	717	<1	+-20	0.629	U
Beryllium	13.9	13.8	<1	+-20	0.315	U
Cadmium	59.8	59.6	<1	+-20	0.315	U
Calcium	89400	90600	1	+-20	12.6	U
Chromium	277	277	<1	+-20	0.629	U
Cobalt	149	148	<1	+-20	0.629	U
Copper	6980	6980	0	+-20	1.57	U
Iron	31100	31100	<1	+-20	3.15	U
Lead	438	437	<1	+-20	3.15	U
Magnesium	7110	7110	0	+-20	6.29	U
Manganese	667	661	<1	+-20	0.944	U
Mercury	0.6544	0.6544	0	+-20	0.1258	U
Nickel	381	380	<1	+-20	1.57	U
Potassium	4300	4300	<1	+-20	126	U
Selenium	181	179	<1	+-20	0.252	U
Silver	17.0	17.1	<1	+-20	0.629	U
Sodium	1600	1620	<1	+-20	62.9	U
Thallium	195	195	0	+-20	0.503	U
Vanadium	175	176	<1	+-20	1.57	U
Zinc	743	736	<1	+-20	1.26	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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METALS QUALITY ASSURANCE DATA - SPIKE DUPLICATE

atch Number: 2111
Lab Number: BLANK
Matrix: Soil

Percent Moisture: 100%

Results in mg/kg.

This report serves as Quality Assurance Data for the following lab numbers:

217498-217500 217502-217504

216868-216881 217221-217226 216666

	Spike Sample	Spike Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Aluminum	97.5	98.5	1	+-20	5.00	U
Antimony	25.2	25.5	1	+-20	1.50	U
Arsenic	97.5	98.5	1	+-20	0.200	U
Barium	102	103	<1	+-20	0.500	U
Beryllium	2.45	2.50	2	+-20	0.250	U
Cadmium	2.40	2.40	0	+-20	0.250	U
Calcium	247	249	1	+-20	10.0	U
Chromium	9.75	9.80	<1	+-20	0.500	U
Cobalt	24.3	24.5	<1	+-20	0.500	U
Copper	12.4	12.5	1	+-20	1.25	U
Iron	48.0	48.6	1	+-20	2.50	U
Lead	24.5	24.8	1	+-20	2.50	U
Magnesium	247	244	1	+-20	5.00	U
Manganese	24.8	25.1	1	+-20	0.750	U
Mercury	0.200	0.200	0	+-20	0.025	U
Nickel	24.4	24.7	1	+-20	1.25	U
Potassium	264	266	<1	+-38	100	U
Selenium	25.3	25.5	<1	+-20	0.200	U
Silver	6.15	6.20	<1	+-20	0.500	U
Sodium	243	247	2	+-20	50.0	U
Thallium	24.5	24.5	0	+-20	0.400	U
Vanadium	24.2	24.5	1	+-20	1.25	U
Zinc	25.7	25.9	<1	+-20	1.00	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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US EPA Historic CLP Lab

ICP Metals Quality Assurance Data - Laboratory Control Sample

Batch Number: T2111B
Matrix: Soil Units: mg/kg

Analysis Date: 08/08/95

Parameter	True Value	Found Value	% Recovery
Aluminum	100	97.5	98
Antimony	25.0	25.2	101
Arsenic	100	97.5	98
Barium	100	101.5	102
Beryllium	2.5	2.45	98
Cadmium	2.5	2.40	96
Calcium	250	246	98
Chromium	10.0	9.75	98
Cobalt	25.0	24.3	97
Copper	12.5	12.4	99
Iron	50.0	48.0	96
Lead	25.0	24.5	98
Manganese	25.0	24.8	99
Magnesium	250	241.5	97
Nickel	25.0	24.4	98
Potassium	250	264	106
Selenium	25.0	25.3	101
Silver	6.25	6.15	98
Sodium	250	242	97
Vanadium	25.0	24.2	97
Zinc	25.0	25.7	103
Thallium	25.0	24.5	98

QC Limits = 75 - 125 % Recovery

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AA Metals Quality Assurance Data - Laboratory Control Sample

Batch Number: 2111HG
Matrix: Soil Units: mg/kg

Parameter	True Value	Found Value	% Recovery	Analysis Date
Mercury	0.800	0.82	102	08/09/95

QC Limits = 75 - 125 % Recovery

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ICP Metals Quality Assurance Data - Serial Dilution Sample

Batch Number: T2111B
Serial diluted sample: 216871
Analysis date: 08/08/95

Matrix: Soil Units: mg/L

Parameter	Initial Sample Result	Serial Dilution Result	% Difference
Aluminum	260	279	7
Antimony	U	U	NC
Arsenic	0.504	0.538	7
Barium	1.68	1.70	1
Beryllium	0.010	0.010	0
Cadmium	0.479	0.494	3
Chromium	1.57	1.66	6
Cobalt	0.208	0.212	2
Iron	358	376	5
Lead	3.80	4.12	8
Manganese	6.06	6.32	4
Magnesium	91.6	100	9
Nickel	2.12	2.22	5
Potassium	34.8	34.5	1
Selenium	0.021	0.034	62
Silver	0.025	0.022	12
Sodium	2.09	3.54	69+
Vanadium	0.408	0.406	0
Zinc	8.37	11.1	33+
Thallium	0.016	0.020	25

NC = Non Calculable

QC Limits= 10% if analyte concentration in the original sample is greater than 50 times analyte IDL.
Analysis subject to matrix interference.

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ICP Metals Quality Assurance Data - Serial Dilution Sample

Batch Number: 2111Q2
Serial diluted sample: 216871
Analysis date: 08/11/95

Matrix: Soil Units: mg/L

Parameter	Initial Sample Result	Serial Dilution Result	% Difference
Calcium	754	735	2
Copper	67.0	65.0	3

NC = Non Calculable

QC Limits= 10% if analyte concentration in the original sample is greater than 50 times analyte IDL.
+ Analysis subject to matrix interference.

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LYN

Soil

BATCH 2111

METALS SAMPLE PREPARATION LOG

SAMPLE ID No.	ICP		FURNACE		MERCURY		pH	COMMENTS
	Initial	Final	Initial	Final	Initial	Final		
Abs + DUP	2.0	100			0.5	100		
LCSS + DUP	2.0	100			0.5	100		
216666	2.0	100			0.5			Aliquoted
217221	2.0	100						For Mercury
222								
223								
224 (DISTD)								
225								
216666					0.5	100		
869								
870								
871 (DISTD)								
872								
873								
874								
875								
876								
877								
878								
879								
880								
881								
883 (FB)	100	100			100	100		
212453	2.0	100			—	—		
217498	2.0	100			N/A	N/A		
217504								
Analyst's Init.	CLS /	CS			CLS /	CS		
Prep Date	8/7/95	8/7/95			8/7/95	8/7/95		
Sample Spiked	Spike Added		Spike Added		Spike Added			
	Lot #	ml	Lot #	ml	Lot #	ml		
217224	SA-11-6	2.5						
216691	SA-12-1	2.0						
	SA-11-4	0.250						
	BR-14-12	0.5						
Sample Spiked	Spike Added		Spike Added		Spike Added			
	Lot #	ml	Lot #	ml	Lot #	ml		
Sample Spiked	Spike Added		Spike Added		Spike Added			
	Lot #	ml	Lot #	ml	Lot #	ml		

LABORATORY CHRONICLE: A.A. DEPARTMENT
--ICP--

DATE: 8/8/95

SHIFT: DAY

TIME: AM

INSTRUMENT: ___ ICAP Trace ✓
___ ICAP61E ___

METHOD NAME: NAKFit

AUTOSAMPLER TABLE: 080895A

DATA FILE: ANADATA

ANALYST(s): [signature]

STANDARD	LOT#	CONC.
ICF-153		

SUPERVISOR: [signature]

Raw data w/ B2111

SAMPLE NUMBER	CUP#	DILUTION	BATCH #	ANALYTES	COMMENTS
HighSTD	1				
CB	2				
Al 500	3				
CB	4				
FE 200	5				
CB	6				
ICV/ICB/ICSAB	7				
CCV/CCB	8				
CRI	9				
ICSA	10				
PBS 2109	11				
PBD	12				
LCSS	13				
LCSSD	14				
216956	15				
216957	16				
216958	17				
216959	18				
CCV/CCB	19				
216960	20				
216961	21				
216962 FB	22				
216963	23				
216963D	24				
216963L	25				
216963S	26				
216963SD	27				
217105	28				
217106	29				
CCV/CCB	30				
217107	31				
217108	32				
217109	33				

LABORATORY CHRONICLE: A.A. DEPARTMENT
--ICP--

DATE: 8/2/95 TIME: Am INITIALS: JN

AUTOSAMPLER TABLE: 080895A DATA FILE: ANDATA

SAMPLE NUMBER	CUP#	DILUTION	BATCH #	ANALYTES	COMMENTS
217110	34				
217111	35				
217112 FR	36				
216482	37				
216483	38				
217135	39				
ICSAB/CCV/CCB	40				
217137	41				
217630	42				
217031	43				
217031D	44				
217031L	45				
217031S	46				
217031SD	47				
217032	48				
ICSAB/CCV/CCB	49				
PBS 2111	50			Recalibrate	
PBSD	51				
LCSS	52				
LCSSD	53				
216666	54				
217221	55				
217222	56				
217223	57				
217224	58				
217224D	59				
CCV/CCB	60				
217224L	61				
217224S	62				
217224SD	63				
217225	64				
217226 (EB)	65				
217453	66				
217498	67				
217499	68				
217500	69				
~~217501~~ ICSAB/CCV/CCB	70				
ICSAB/217501	71				
217502	72				
217503	73				
217504	74				
216868	75				
216869	76				
216870	77				
216871	78				

LABORATORY CHRONICLE: A.A. DEPARTMENT
--ICP--

DATE: 8/8/95 TIME: AM INITIALS: JM

AUTOSAMPLER TABLE: 080895A DATA FILE: AUADATA

SAMPLE NUMBER	CUP#	DILUTION	BATCH #	ANALYTES	COMMENTS
216871D	79				
216871S	80				
CCV/CCB	81				
216871SD	82				
216872	83				
216873	84				
216874	85				
216875	86				
216876	87				
216877	88				
216878	89				
216879	90				
~~ICSAB/CCV/CCB~~	91	217871L			
~~216880~~	92	CCV/CCB			
~~216881~~	93	216880			
~~216883~~ EB	94	216881			
ICSAB/CCV/CCB	95	216883			
	96	217379	BW		
ICSAB/CCV/CCB	97				
	98				
	99				
	100				
	101				
	102				
	103				
	104				
	105				
	106				
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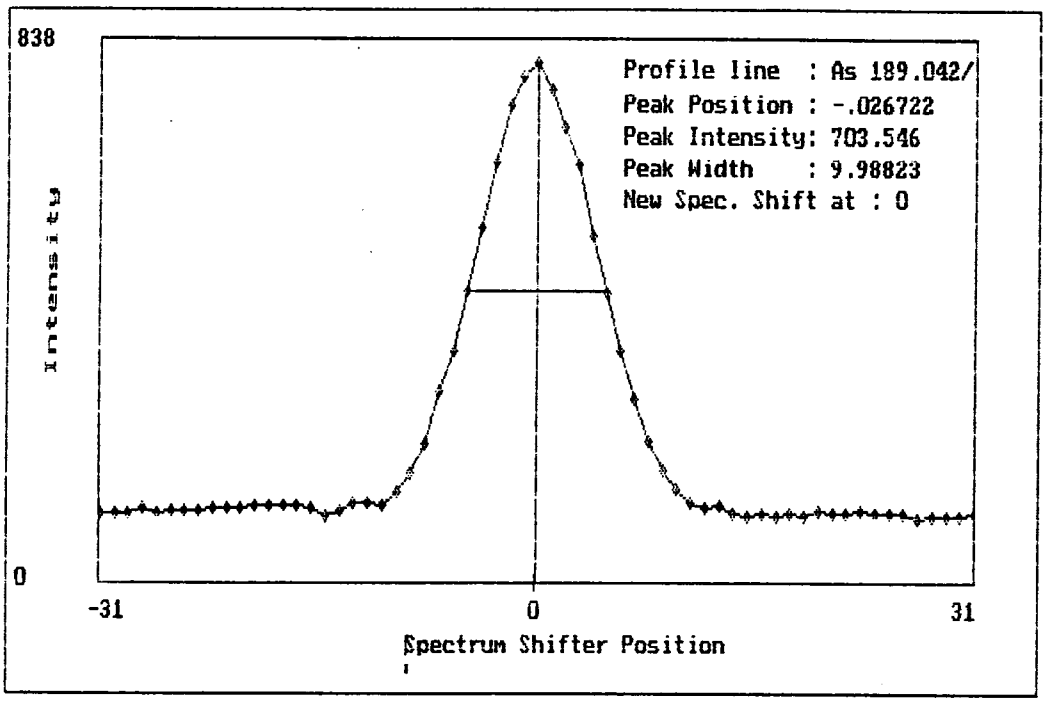
	123				


838
0
Intensity
Profile line : As 189.042/
Peak Position : -.026722
Peak Intensity: 703.546
Peak Width : 9.98823
New Spec. Shift at : 0
-31
0
31
Spectrum Shifter Position

Standardization Rpt. Tue 08-08-95 02:17:03 PM page 1

Method: NAKFIT Standard: STD1-Blank

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Avge	.0440	-.0044	.0007	-.0028	.0001	.0024	.0014
SDev	.0002	.0017	.0002	.0005	.0000	.0001	.0001
%RSD	.3591	38.43	27.98	16.46	24.97	2.191	6.358
#1	.0440	-.0062	.0010	-.0033	.0001	.0025	.0014
#2	.0438	-.0028	.0006	-.0024	.0001	.0024	.0014
#3	.0442	-.0043	.0007	-.0026	.0001	.0023	.0015

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Avge	.0012	.0023	.0003	-.0002	.0075	-.0008	.0043
SDev	.0005	.0001	.0002	.0002	.0001	.0001	.0017
%RSD	38.20	2.259	55.07	76.61	1.029	10.25	40.66
#1	.0017	.0023	.0005	-.0001	.0075	-.0008	.0050
#2	.0007	.0023	.0002	-.0004	.0075	-.0008	.0023
#3	.0012	.0022	.0002	-.0002	.0074	-.0009	.0056

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Avge	-.0024	-.0005	.0003	.0003	.0020	-.0336	-.0075
SDev	.0005	.0000	.0000	.0001	.0004	.0032	.0008
%RSD	20.62	7.055	6.744	33.06	18.88	9.562	10.06
#1	-.0018	-.0005	.0004	.0004	.0019	-.0299	-.0076
#2	-.0026	-.0006	.0003	.0002	.0024	-.0352	-.0082
#3	-.0027	-.0006	.0003	.0003	.0017	-.0357	-.0067

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Avge	.0049	.0633	.0002	-.0040	-.0001	-.00067	-.0013
SDev	.0011	.0005	.0002	.0004	.0004	.00069	.0000
%RSD	21.90	.7717	92.18	9.901	349.6	102.50	1.881
#1	.0037	.0638	.0004	-.0036	-.0004	-.00043	-.0013
#2	.0056	.0633	.0000	-.0040	.0003	-.00145	-.0013
#3	.0054	.0628	.0001	-.0044	-.0003	-.00014	-.0013

Elem	V_2924	Zn2138
Avge	.0001	.0008
SDev	.0000	.0001
%RSD	50.05	5.646
#1	.0000	.0009
#2	.0001	.0009
#3	.0001	.0008

Standardization Rpt. Tue 08-08-95 02:21:21 PM page 1

Method: NAKFIT Standard: STD2

Elem	Al3082	Ba4934	Be3130	B_2496	Ca3179	Cr2677	Co2296
Avge	.8435	7.723	.4340	2.510	1.051	.6196	1.085
SDev	.0013	.007	.0020	.014	.006	.0034	.005
%RSD	.1499	.0884	.4608	.5470	.5282	.5453	.4564
#1	.8426	7.722	.4334	2.497	1.049	.6184	1.084
#2	.8430	7.717	.4325	2.509	1.047	.6170	1.081
#3	.8450	7.731	.4363	2.524	1.057	.6235	1.091

Elem	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316	K_7664
Avge	.8646	.1095	1.522	1.474	2.863	3.386	4.924
SDev	.0012	.0009	.004	.007	.016	.013	.006
%RSD	.1352	.8312	.2436	.4451	.5583	.3762	.1207
#1	.8633	.1096	1.519	1.471	2.852	3.377	4.928
#2	.8649	.1085	1.521	1.469	2.855	3.380	4.926
#3	.8656	.1103	1.526	1.481	2.881	3.400	4.917

Elem	Si2881	Ag3280	Na3302	Sn1899	Ti3349	V_2924	Zn2138
Avge	1.353	.8955	.1720	2.034	6.365	.3617	1.042
SDev	.004	.0028	.0004	.008	.018	.0014	.004
%RSD	.2969	.3082	.2213	.3746	.2839	.3822	.3517
#1	1.349	.8937	.1724	2.031	6.358	.3613	1.040
#2	1.353	.8941	.1719	2.028	6.351	.3606	1.039
#3	1.357	.8986	.1717	2.043	6.385	.3633	1.046

Standardization Rpt. Tue 08-08-95 02:25:39 PM page 1

Method: NAKFIT Standard: STD3

Elem	2068-1	2068-2	As1890	Cd2265	2203-1	2203-2	1960-1
Avge	.9228	.4433	.4576	1.443	1.198	.8909	.4647
SDev	.0173	.0009	.0039	.007	.003	.0155	.0029
%RSD	1.871	.1937	.8425	.4882	.2301	1.737	.6325
#1	.9031	.4436	.4591	1.435	1.201	.8730	.4660
#2	.9355	.4441	.4605	1.448	1.196	.8993	.4668
#3	.9297	.4424	.4532	1.446	1.198	.9003	.4614

Elem	1960-2	Tl1908
Avge	.5163	.22218
SDev	.0100	.00207
%RSD	1.928	.93361
#1	.5062	.22084
#2	.5261	.22457
#3	.5167	.22113

Analysis Report Tue 08-08-95 02:30:26 PM page 1

Method: NAKFIT Sample Name: HIGH STD Operator: TJN
Run Time: 08/08/95 14:25:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	10.03	1030.	1024.	1030.	10.07	.2543	5.079
SDev	.02	3.	1.	9.	.03	.0008	.004
%RSD	.2205	.2856	.0772	.8591	.2784	.3067	.0771
#1	10.05	1027.	1024.	1040.	10.10	.2552	5.078
#2	10.03	1033.	1025.	1026.	10.06	.2540	5.083
#3	10.00	1029.	1023.	1023.	10.05	.2537	5.076

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.5012	25.40	1.012	2.522	1.276	5.058	1023.
SDev	.0019	.11	.004	.007	.004	.012	1.
%RSD	.3869	.4355	.4278	.2724	.2758	.2355	.1129
#1	.5033	25.53	1.017	2.530	1.280	5.071	1024.
#2	.5007	25.36	1.010	2.519	1.277	5.050	1023.
#3	.4996	25.32	1.008	2.517	1.273	5.052	1022.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1040.	25.32	2.528	5.064	2.532	25.00	1056.
SDev	4.	.08	.009	.017	.008	.05	5.
%RSD	.3569	.3338	.3680	.3340	.3027	.1979	.4409
#1	1036.	25.41	2.539	5.084	2.541	25.04	1059.
#2	1041.	25.30	2.523	5.057	2.528	25.00	1051.
#3	1043.	25.24	2.522	5.053	2.527	24.95	1059.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	1060.	5.075	1.265	24.67	5.062	1027.2	5.048
SDev	3.	.009	.003	.11	.020	15.1	.016
%RSD	.3289	.1797	.2612	.4264	.3890	1.4702	.3094
#1	1063.	5.083	1.269	24.77	5.084	1033.9	5.066
#2	1056.	5.076	1.264	24.69	5.047	1037.8	5.042
#3	1060.	5.065	1.262	24.56	5.054	1009.9	5.037

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	2.523	2.532	1034.	1058.	1026.
SDev	.009	.008	2.	4.	1.
%RSD	.3567	.3070	.2033	.3605	.1393
#1	2.533	2.541	1032.	1061.	1025.
#2	2.519	2.531	1035.	1054.	1027.
#3	2.517	2.526	1036.	1060.	1025.

Analysis Report Tue 08-08-95 02:35:15 PM page 1

Method: NAKFIT Sample Name: CB Operator: TJN
Run Time: 08/08/95 14:30:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0051	2.569	1.588	-.4355	.0034	.0001	.0206
SDev	.0038	.671	1.407	1.3622	.0003	.0001	.0055
%RSD	75.25	26.14	88.61	312.8	7.852	109.0	26.83
#1	-.0055	2.239	3.195	-.5240	.0036	.0002	.0263
#2	-.0011	2.127	.9882	.9688	.0035	.0000	.0201
#3	-.0087	3.342	.5799	-1.751	.0031	.0000	.0153

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0002	.0049	-.0001	.0005	.0001	.0045	-2.122
SDev	.0002	.0012	.0003	.0005	.0002	.0061	1.905
%RSD	96.80	24.56	190.9	96.57	292.5	136.4	89.75
#1	.0000	.0058	-.0003	.0004	.0000	.0016	-.9531
#2	.0004	.0054	.0002	.0010	-.0001	.0003	-1.093
#3	.0001	.0035	-.0003	.0001	.0003	.0115	-4.320

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.720	.0064	.0019	.0042	-.0001	.0677	1.861
SDev	1.709	.0017	.0001	.0025	.0003	.0028	2.861
%RSD	99.37	26.03	5.054	59.26	184.3	4.075	153.8
#1	-.2536	.0054	.0020	.0071	-.0003	.0662	4.814
#2	2.708	.0083	.0020	.0033	.0002	.0709	-.8982
#3	2.705	.0055	.0018	.0023	-.0003	.0660	1.667

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-.8119	-.0043	.0000	.2958	.0122	4.7691	.0022
SDev	1.3156	.0018	.0003	.0577	.0037	2.2115	.0004
%RSD	162.0	42.10	545.9	19.50	30.03	46.372	16.95
#1	-.0524	-.0026	-.0001	.2300	.0164	6.3571	.0026
#2	-.0523	-.0042	.0003	.3377	.0100	5.7071	.0021
#3	-2.331	-.0062	-.0001	.3196	.0101	2.2432	.0019

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0008	.0001	.4406	.0784	1.915
SDev	.0003	.0001	.9665	1.333	.836
%RSD	34.18	58.52	219.3	1699.	43.65
#1	.0005	.0001	-.4863	1.569	2.877
#2	.0010	.0001	1.442	-.3337	1.368
#3	.0010	.0000	.3658	-.9996	1.500

Analysis Report QC Standard Tue 08-08-95 02:40:09 PM page 1

Method: NAKFIT Sample Name: ICV Operator: TJN
Run Time: 08/08/95 14:35:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	2.034	529.9	525.1	2033.	2.103	.0517	1.017
SDev	.005	4.1	1.4	9.	.003	.0002	.000
%RSD	.2484	.7689	.2638	.4449	.1628	.3181	.0086
#1	2.036	526.8	524.6	2033.	2.106	.0518	1.017
#2	2.038	534.5	524.0	2042.	2.103	.0517	1.017
#3	2.029	528.5	526.7	2024.	2.100	.0515	1.017

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0506	5.248	.2048	.5095	.2567	1.010	509.4
SDev	.0002	.013	.0006	.0012	.0006	.009	4.3
%RSD	.4687	.2529	.2791	.2382	.2457	.8949	.8499
#1	.0505	5.260	.2048	.5109	.2573	1.019	510.9
#2	.0508	5.252	.2053	.5087	.2567	1.001	512.7
#3	.0504	5.234	.2042	.5089	.2561	1.010	504.5

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	516.1	5.047	.5229	1.043	.5129	5.392	522.4
SDev	2.0	.014	.0008	.002	.0013	.015	5.9
%RSD	.3839	.2766	.1541	.2224	.2551	.2818	1.121
#1	514.5	5.063	.5235	1.042	.5115	5.410	525.1
#2	515.5	5.041	.5232	1.045	.5141	5.384	526.5
#3	518.3	5.038	.5219	1.041	.5132	5.382	515.7

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	523.2	.9872	.1301	5.101	1.022	507.22	1.016
SDev	2.5	.0022	.0004	.112	.002	3.68	.002
%RSD	.4713	.2189	.2826	2.196	.2013	.72456	.1985
#1	526.1	.9892	.1305	5.230	1.024	506.70	1.017
#2	522.0	.9874	.1300	5.049	1.021	511.14	1.017
#3	521.7	.9849	.1298	5.025	1.021	503.84	1.013

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5068	.5431	513.9	523.0	526.7
SDev	.0017	.0020	.7	3.1	1.2
%RSD	.3389	.3624	.1273	.5852	.2263
#1	.5086	.5442	513.3	525.8	525.3
#2	.5064	.5444	514.6	523.5	527.5
#3	.5053	.5409	513.7	519.7	527.3

Analysis Report Tue 08-08-95 02:45:02 PM page 1

Method: NAKFIT Sample Name: ICB Operator: TJN
Run Time: 08/08/95 14:40:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0011	1.305	.8787	.5326	.0010	.0001	.0067
SDev	.0037	1.127	.5807	2.209	.0001	.0001	.0017
%RSD	327.4	86.38	66.09	414.8	10.83	104.9	24.99
#1	.0048	2.357	1.056	-1.941	.0012	.0001	.0084
#2	.0012	1.442	1.350	1.231	.0010	.0000	.0066
#3	-.0026	.1154	.2299	2.308	.0010	.0000	.0051

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.0000	-.0013	-.0001	-.0003	-.0006	-.0032	-.4409
SDev	.0001	.0009	.0004	.0003	.0002	.0019	1.2130
%RSD	211.2	63.50	311.5	114.8	27.88	59.97	275.1
#1	.0001	-.0004	.0002	.0001	-.0005	-.0045	.6750
#2	-.0001	-.0017	-.0005	-.0004	-.0005	-.0010	-.2656
#3	-.0001	-.0020	-.0001	-.0005	-.0008	-.0039	-1.732

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	2.944	.0011	.0014	.0011	-.0012	.0556	4.526
SDev	1.477	.0018	.0001	.0005	.0004	.0073	3.837
%RSD	50.16	165.5	5.950	45.90	29.41	13.09	84.79
#1	4.555	.0031	.0015	.0013	-.0009	.0637	8.369
#2	1.653	-.0002	.0013	.0014	-.0016	.0497	.6942
#3	2.626	.0004	.0013	.0005	-.0012	.0532	4.514

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-1.522	-.0057	-.0001	.2320	.0088	1.2619	.0006
SDev	1.133	.0030	.0004	.0538	.0031	2.3778	.0001
%RSD	74.47	52.71	353.1	23.19	35.76	188.43	23.06
#1	-2.578	-.0028	.0003	.2923	.0123	3.3420	.0008
#2	-.3250	-.0055	-.0004	.2146	.0064	1.7738	.0005
#3	-1.662	-.0088	-.0002	.1890	.0076	-1.3301	.0006

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0016	1.817	.4924	1.021
SDev	.0004	.0001	1.255	.5332	.720
%RSD	94.29	9.261	69.03	108.3	70.51
#1	.0007	.0017	3.263	1.068	1.489
#2	.0005	.0015	1.014	.0147	1.381
#3	-.0000	.0017	1.175	.3950	.1921

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Method: NAKFIT Sample Name: ICSAB Operator: TJN
Run Time: 08/08/95 14:45:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	471.2	1073.	1082.	1040.	.5673	.5006	.0068
SDev	2.4	6.	11.	13.	.0041	.0031	.0008
%RSD	.5055	.5986	1.052	1.219	.7252	.6227	12.26
#1	473.5	1068.	1094.	1053.	.5714	.5041	.0077
#2	471.2	1080.	1079.	1039.	.5671	.4997	.0068
#3	468.7	1070.	1072.	1028.	.5632	.4981	.0060

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9775	468.8	.5017	.5004	.5877	192.1	987.3
SDev	.0042	2.2	.0025	.0026	.0048	1.2	10.9
%RSD	.4308	.4664	.4998	.5285	.8093	.6012	1.104
#1	.9824	471.3	.5046	.5034	.5923	193.3	997.1
#2	.9752	467.8	.4999	.4985	.5881	191.8	989.4
#3	.9750	467.2	.5007	.4992	.5828	191.1	975.6

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1039.	512.6	.5141	1.042	.9859	.0440	1031.
SDev	3.	4.1	.0028	.009	.0034	.0149	13.
%RSD	.2933	.8037	.5419	.8622	.3426	33.91	1.244
#1	1043.	517.0	.5173	1.050	.9895	.0612	1045.
#2	1037.	511.9	.5133	1.045	.9854	.0349	1025.
#3	1039.	508.8	.5119	1.032	.9828	.0358	1022.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	1051.	.0482	1.130	.3547	1.083	1032.9	.0019
SDev	9.	.0045	.007	.0750	.007	5.3	.0001
%RSD	.8166	9.356	.6150	21.14	.6078	.51237	4.708
#1	1059.	.0524	1.138	.4411	1.090	1032.2	.0019
#2	1051.	.0489	1.129	.3169	1.078	1028.0	.0018
#3	1042.	.0434	1.124	.3062	1.080	1038.5	.0020

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5171	1.085	1022.	1044.	1079.
SDev	.0030	.005	5.	10.	7.
%RSD	.5743	.4761	.4825	.9316	.6607
#1	.5204	1.091	1028.	1054.	1085.
#2	.5160	1.083	1021.	1043.	1080.
#3	.5148	1.081	1018.	1035.	1071.

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Method: NAKFIT Sample Name: CCV Operator: TJN
Run Time: 08/08/95 14:50:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.162	516.8	511.9	513.5	5.177	.1276	2.516
SDev	.019	3.0	3.1	1.6	.014	.0002	.002
%RSD	.3620	.5713	.6017	.3113	.2753	.1718	.0989
#1	5.181	517.4	509.7	512.6	5.193	.1277	2.513
#2	5.161	519.4	515.4	515.4	5.171	.1278	2.518
#3	5.144	513.6	510.6	512.6	5.166	.1274	2.517

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2492	12.77	.5055	1.262	.6273	2.583	506.6
SDev	.0003	.02	.0009	.001	.0023	.008	4.4
%RSD	.1101	.1922	.1838	.0963	.3652	.3275	.8686
#1	.2491	12.75	.5044	1.260	.6298	2.589	511.7
#2	.2495	12.80	.5059	1.263	.6269	2.587	503.9
#3	.2491	12.77	.5061	1.262	.6252	2.574	504.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	517.3	12.68	1.270	2.532	1.271	12.94	525.8
SDev	.9	.03	.002	.010	.003	.06	4.7
%RSD	.1714	.2519	.1218	.4055	.2458	.4449	.8843
#1	516.3	12.72	1.269	2.522	1.269	13.00	527.0
#2	517.9	12.68	1.272	2.542	1.274	12.91	529.7
#3	517.7	12.65	1.270	2.533	1.269	12.90	520.7

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	528.0	2.484	.6286	12.34	2.518	510.60	2.517
SDev	1.7	.007	.0010	.03	.005	5.66	.003
%RSD	.3295	.2966	.1556	.2282	.2124	1.1078	.1081
#1	527.2	2.490	.6292	12.37	2.524	515.03	2.519
#2	529.9	2.486	.6291	12.31	2.518	512.55	2.518
#3	526.7	2.476	.6275	12.34	2.513	504.23	2.514

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.263	1.299	513.7	527.2	513.6
SDev	.001	.001	.9	2.6	2.8
%RSD	.0942	.0816	.1706	.4916	.5474
#1	1.262	1.300	514.7	527.2	512.3
#2	1.264	1.299	513.2	529.9	516.8
#3	1.262	1.298	513.2	524.7	511.6

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 14:55:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0444	.6563	.5544	.2996	.0020	.0001	.0078
SDev	.0125	.1671	.2452	.7620	.0001	.0001	.0032
%RSD	28.18	25.47	44.24	254.4	2.897	53.99	40.48
#1	.0575	.4703	.2720	-.5388	.0020	.0002	.0113
#2	.0430	.7940	.7144	.9498	.0020	.0001	.0072
#3	.0326	.7046	.6766	.4877	.0019	.0001	.0051

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0473	.0000	.0003	-.0005	.0149	1.260
SDev	.0001	.0055	.0001	.0002	.0003	.0033	1.259
%RSD	43.27	11.65	335.8	61.62	73.33	21.94	99.93
#1	.0001	.0536	.0001	.0004	-.0001	.0147	2.712
#2	.0002	.0452	.0000	.0001	-.0005	.0117	.6006
#3	.0001	.0432	-.0001	.0004	-.0008	.0183	.4677

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	2.024	.0482	.0014	.0021	-.0001	.0643	3.073
SDev	.459	.0058	.0000	.0013	.0004	.0077	1.974
%RSD	22.66	12.08	1.551	60.70	720.1	12.03	64.21
#1	1.502	.0548	.0013	.0034	-.0004	.0688	1.590
#2	2.207	.0442	.0014	.0021	-.0002	.0554	5.313
#3	2.362	.0455	.0014	.0008	.0004	.0688	2.316

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	.1973	-.0063	.0003	.2538	.0077	1.6850	.0013
SDev	.3651	.0044	.0001	.0149	.0026	4.5180	.0001
%RSD	185.1	69.58	15.47	5.884	33.58	268.13	9.739
#1	.0692	-.0017	.0004	.2656	.0100	4.7594	.0014
#2	-.0866	-.0068	.0003	.2370	.0081	-3.5024	.0013
#3	.6092	-.0104	.0003	.2588	.0049	3.7980	.0012

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0007	.0001	1.770	1.155	.5886
SDev	.0003	.0001	.121	.568	.2185
%RSD	34.66	102.5	6.833	49.19	37.11
#1	.0007	.0001	1.905	.5760	.3384
#2	.0009	.0002	1.673	1.712	.7412
#3	.0005	-.0000	1.732	1.178	.6862

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Method: NAKFIT Sample Name: CRI Operator: TJN
Run Time: 08/08/95 15:00:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0254	.0019	.6534	19.93	.0007	-.0000	.0035
SDev	.0041	1.190	.8532	1.87	.0000	.0001	.0008
%RSD	16.27	61350.	130.6	9.400	6.191	582.7	22.22
#1	.0296	-.3033	.7357	19.80	.0008	.0000	.0041
#2	.0213	1.315	-.2380	18.13	.0007	.0000	.0036
#3	.0252	-1.006	1.462	21.87	.0007	-.0001	.0026

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0002	.0282	-.0004	-.0003	-.0007	.0051	8.399
SDev	.0002	.0014	.0004	.0002	.0001	.0033	2.114
%RSD	80.64	4.970	88.29	70.28	15.24	64.61	25.17
#1	.0003	.0297	-.0000	-.0001	-.0006	.0082	10.37
#2	.0003	.0271	-.0005	-.0003	-.0008	.0054	6.163
#3	.0000	.0277	-.0007	-.0005	-.0008	.0017	8.669

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	6.516	.0143	-.0000	.0005	-.0007	.0509	8.626
SDev	1.050	.0027	.0001	.0005	.0004	.0123	2.235
%RSD	16.11	18.83	247.9	99.23	48.36	24.05	25.91
#1	5.853	.0158	.0000	.0010	-.0004	.0638	7.036
#2	5.969	.0112	-.0001	.0002	-.0011	.0495	11.18
#3	7.727	.0159	-.0000	.0002	-.0007	.0394	7.661

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	11.07	-.0004	-.0001	.2987	.0051	21.660	.0002
SDev	1.65	.0029	.0005	.0352	.0019	3.303	.0001
%RSD	14.94	813.3	550.0	11.80	36.73	15.249	31.57
#1	11.23	.0013	.0004	.3074	.0054	20.199	.0002
#2	9.347	-.0037	-.0002	.3288	.0031	25.441	.0002
#3	12.65	.0013	-.0004	.2599	.0068	19.339	.0001

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0002	-.0002	7.144	10.26	.4367
SDev	.0002	.0001	1.020	.63	.1852
%RSD	99.70	50.25	14.28	6.175	42.40
#1	.0002	-.0001	7.356	9.831	.3900
#2	.0005	-.0002	6.034	9.958	.2794
#3	-.0000	-.0004	8.041	10.99	.6408

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Method: NAKFIT Sample Name: ICSA Operator: TJN
Run Time: 08/08/95 15:04:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	452.8	-24.68	1.529	-.3385	.0022	.0004	.0015
SDev	2.0	6.85	4.503	2.6980	.0000	.0001	.0006
%RSD	.4370	27.77	294.6	797.0	.6437	23.79	37.57
#1	455.1	-31.91	6.726	-1.279	.0022	.0005	.0021
#2	451.9	-23.84	-.9424	2.704	.0022	.0004	.0014
#3	451.4	-18.28	-1.198	-2.441	.0022	.0003	.0010

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0120	446.3	-.0042	.0006	.0011	183.0	-21.55
SDev	.0002	2.2	.0001	.0003	.0003	.9	7.96
%RSD	1.437	.4850	3.165	42.40	22.21	.4974	36.93
#1	.0118	448.8	-.0041	.0009	.0013	184.0	-12.39
#2	.0121	444.9	-.0042	.0004	.0013	182.5	-25.55
#3	.0120	445.2	-.0043	.0006	.0008	182.4	-26.72

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	14.68	488.1	.0001	-.0010	.0015	.0623	20.14
SDev	4.89	3.0	.0001	.0006	.0009	.0139	2.84
%RSD	33.30	.6225	104.7	58.14	64.42	22.30	14.08
#1	9.310	491.6	.0002	-.0004	.0007	.0783	19.22
#2	18.87	486.9	.0001	-.0016	.0012	.0545	17.88
#3	15.87	485.9	.0000	-.0011	.0025	.0540	23.32

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	17.92	.0305	-.0001	.3641	.0051	33.009	.0015
SDev	.24	.0029	.0002	.0881	.0044	1.229	.0001
%RSD	1.315	9.512	135.6	24.18	86.83	3.7219	3.956
#1	18.08	.0339	.0001	.4648	.0087	34.338	.0015
#2	17.65	.0289	-.0002	.3263	.0002	32.777	.0015
#3	18.04	.0288	-.0003	.3014	.0064	31.914	.0016

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0006	.0119	2.617	18.66	-7.197
SDev	.0003	.0005	1.281	1.05	1.243
%RSD	46.70	4.030	48.97	5.629	17.27
#1	.0005	.0124	2.084	18.46	-6.139
#2	.0004	.0119	4.078	17.73	-8.566
#3	.0010	.0114	1.687	19.80	-6.887

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Method: NAKFIT Sample Name: CCV Operator: TJN
Run Time: 08/08/95 15:09:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.084	499.3	497.2	502.9	5.046	.1242	2.442
SDev	.029	7.3	4.1	4.5	.025	.0007	.010
%RSD	.5798	1.470	.8201	.8949	.4873	.5778	.4181
#1	5.113	491.9	500.0	504.5	5.071	.1246	2.443
#2	5.085	506.5	499.1	506.4	5.045	.1246	2.452
#3	5.054	499.7	492.5	497.8	5.022	.1233	2.431

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2416	12.43	.4892	1.223	.6102	2.527	489.0
SDev	.0007	.07	.0029	.007	.0039	.022	2.1
%RSD	.2900	.5591	.6040	.5456	.6381	.8812	.4194
#1	.2422	12.47	.4904	1.227	.6145	2.537	490.1
#2	.2417	12.48	.4913	1.226	.6093	2.543	490.3
#3	.2409	12.36	.4858	1.215	.6069	2.502	486.6

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	499.5	12.38	1.230	2.456	1.234	12.70	511.3
SDev	2.8	.08	.007	.011	.006	.06	5.0
%RSD	.5559	.6303	.5311	.4681	.5189	.4624	.9762
#1	497.3	12.45	1.233	2.460	1.238	12.76	516.5
#2	502.6	12.40	1.235	2.465	1.237	12.69	506.5
#3	498.6	12.29	1.223	2.443	1.226	12.65	510.9

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	513.6	2.400	.6064	11.95	2.433	493.79	2.448
SDev	2.6	.013	.0026	.09	.013	4.13	.012
%RSD	.5112	.5532	.4227	.7362	.5486	.83713	.4999
#1	515.4	2.411	.6087	12.05	2.444	493.40	2.458
#2	514.8	2.402	.6068	11.94	2.438	498.10	2.452
#3	510.6	2.385	.6037	11.87	2.418	489.86	2.435

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.225	1.255	496.0	512.8	497.9
SDev	.007	.007	2.2	2.6	3.4
%RSD	.5352	.5881	.4380	.5133	.6755
#1	1.229	1.258	494.9	515.8	497.3
#2	1.229	1.260	498.5	512.0	501.5
#3	1.218	1.247	494.6	510.7	494.9

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 15:14:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0237	.9922	.9082	.1247	.0011	-.0000	.0079
SDev	.0118	1.157	.7654	.7203	.0000	.0001	.0027
%RSD	49.60	116.6	84.28	577.6	1.878	423.9	33.81
#1	.0362	-.3369	.4077	.7189	.0011	.0001	.0108
#2	.0222	1.774	1.789	-.6763	.0011	-.0001	.0075
#3	.0128	1.539	.5275	.3315	.0011	-.0000	.0055

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0305	-.0003	-.0000	-.0007	.0244	-.8104
SDev	.0003	.0063	.0004	.0002	.0001	.0057	.5435
%RSD	270.5	20.54	142.5	556.3	19.10	23.27	67.07
#1	.0002	.0370	.0002	-.0003	-.0007	.0196	-.7587
#2	-.0002	.0299	-.0004	.0000	-.0005	.0306	-1.378
#3	.0003	.0245	-.0005	.0002	-.0008	.0229	-.2945

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.533	.0323	.0015	.0016	-.0006	.0669	4.625
SDev	.705	.0066	.0000	.0010	.0003	.0060	1.951
%RSD	46.02	20.56	2.382	58.60	39.59	8.937	42.19
#1	.7295	.0391	.0015	.0027	-.0009	.0719	3.613
#2	1.817	.0321	.0015	.0012	-.0006	.0603	3.388
#3	2.051	.0258	.0015	.0010	-.0004	.0685	6.874

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-.8110	-.0073	-.0000	.2542	.0061	.02915	.0009
SDev	3.1737	.0026	.0003	.0825	.0029	1.4137	.0002
%RSD	391.3	35.99	908.8	32.46	48.22	4849.7	25.33
#1	1.961	-.0048	.0003	.2121	.0079	-.55473	.0012
#2	-.1216	-.0071	-.0000	.2013	.0076	-.99912	.0009
#3	-4.273	-.0101	-.0004	.3493	.0027	1.6413	.0007

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0002	-.0006	.7527	.9995	.9364
SDev	.0002	.0002	.5181	1.537	.8147
%RSD	104.3	26.26	68.83	153.7	86.99
#1	-.0000	-.0005	.2342	2.512	.1601
#2	.0002	-.0005	.7534	1.047	1.785
#3	.0005	-.0007	1.270	-.5604	.8647

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Method: NAKFIT Sample Name: PBS 2111 Operator: TJN
Run Time: 08/08/95 15:19:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0035	.8583	1.204	-.4392	.0005	-.0000	.0017
SDev	.0048	1.740	1.567	.9797	.0001	.0001	.0006
%RSD	139.8	202.7	130.2	223.1	18.20	268.4	33.01
#1	.0086	1.297	2.967	-.0233	.0006	.0001	.0023
#2	.0027	2.337	.6734	.2640	.0005	-.0001	.0016
#3	-.0009	-1.059	-.0290	-1.558	.0004	-.0001	.0012

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0000	.0235	-.0003	.0003	.0003	.0094	-1.192
SDev	.0000	.0032	.0003	.0003	.0002	.0063	1.809
%RSD	45.43	13.51	118.5	107.5	71.73	66.36	151.8
#1	.0000	.0261	-.0004	.0006	.0005	.0165	-1.421
#2	.0000	.0244	.0001	.0004	.0003	.0074	-2.876
#3	.0001	.0200	-.0005	-.0001	.0001	.0045	.7209

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.112	.0226	-.0001	.0004	-.0010	.0653	4.265
SDev	.484	.0028	.0000	.0001	.0007	.0122	3.969
%RSD	43.54	12.18	23.26	32.69	63.52	18.67	93.06
#1	.8424	.0248	-.0001	.0003	-.0014	.0731	3.416
#2	.8232	.0235	-.0002	.0005	-.0003	.0715	.7895
#3	1.672	.0195	-.0001	.0005	-.0014	.0512	8.590

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-2.060	-.0082	-.0000	.2836	.0007	-1.6325	.0005
SDev	.187	.0019	.0002	.0767	.0010	3.3426	.0001
%RSD	9.078	23.77	615.2	27.05	140.2	204.76	15.30
#1	-2.058	-.0060	-.0000	.3298	-.0002	1.0056	.0006
#2	-1.874	-.0090	.0002	.3259	.0005	-.51152	.0006
#3	-2.248	-.0096	-.0003	.1950	.0019	-5.3915	.0004

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0003	-.0003	.3454	.0466	1.089
SDev	.0001	.0001	.9093	1.199	1.397
%RSD	45.00	39.91	263.3	2576.	128.3
#1	.0002	-.0003	.0890	-.2348	2.412
#2	.0005	-.0004	-.4082	-.9868	1.228
#3	.0002	-.0002	1.355	1.361	-.3718

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Method: NAKFIT Sample Name: PBSD Operator: TJN
Run Time: 08/08/95 15:24:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0098	.7083	.7579	.8393	.0001	-.0000	.0003
SDev	.0028	1.921	1.486	.8394	.0001	.0000	.0003
%RSD	28.26	271.3	196.0	100.0	38.88	1257.	77.55
#1	-.0074	2.679	1.437	1.582	.0002	.0000	.0006
#2	-.0092	-1.159	-.9460	1.007	.0001	-.0000	.0003
#3	-.0128	.6044	1.782	-.0712	.0001	-.0000	.0001

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.0001	.0010	-.0004	-.0004	-.0006	.0054	-1.299
SDev	.0001	.0009	.0002	.0001	.0000	.0033	1.314
%RSD	59.77	87.87	48.40	35.16	3.770	61.57	101.1
#1	-.0001	.0020	-.0003	-.0005	-.0006	.0051	.0495
#2	-.0000	.0008	-.0006	-.0004	-.0006	.0022	-1.372
#3	-.0002	.0003	-.0003	-.0002	-.0006	.0088	-2.575

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.549	.0017	-.0002	.0002	-.0012	.0650	4.875
SDev	.631	.0014	.0001	.0006	.0002	.0111	2.480
%RSD	40.72	84.38	31.25	271.9	15.22	17.03	50.87
#1	2.270	.0032	-.0001	.0003	-.0010	.0766	5.722
#2	1.104	.0003	-.0003	-.0004	-.0012	.0545	6.820
#3	1.272	.0015	-.0003	.0007	-.0014	.0640	2.082

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-.4263	-.0046	-.0002	.3231	-.0011	.15886	.0001
SDev	.6146	.0018	.0001	.0642	.0010	2.6611	.0000
%RSD	144.2	39.61	48.52	19.87	90.55	1675.2	41.84
#1	-.7462	-.0031	-.0003	.3971	-.0023	1.7623	.0001
#2	.2823	-.0040	-.0001	.2834	-.0004	-2.9130	.0001
#3	-.8148	-.0066	-.0003	.2887	-.0007	1.6272	.0001

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	-.0000	-.0002	.6007	1.339	.7416
SDev	.0000	.0001	.8186	1.156	1.540
%RSD	46.68	35.91	136.3	86.34	207.7
#1	-.0000	-.0001	1.531	1.408	1.851
#2	-.0000	-.0001	.2795	2.460	-1.017
#3	-.0000	-.0002	-.0087	.1502	1.390

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Method: NAKFIT Sample Name: LCSS Operator: TJN
Run Time: 08/08/95 15:29:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	1.946	508.3	501.7	1952.	2.030	.0493	.9669
SDev	.017	1.1	7.6	19.	.015	.0005	.0051
%RSD	.8565	.2154	1.523	.9859	.7200	.9294	.5257
#1	1.965	507.4	509.8	1973.	2.047	.0498	.9727
#2	1.942	509.5	500.5	1950.	2.026	.0493	.9646
#3	1.932	507.9	494.7	1935.	2.018	.0489	.9634

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0478	4.933	.1946	.4851	.2473	.9602	484.4
SDev	.0006	.043	.0014	.0050	.0013	.0049	6.4
%RSD	1.197	.8697	.7205	1.020	.5392	.5111	1.319
#1	.0485	4.979	.1961	.4902	.2487	.9633	490.1
#2	.0476	4.928	.1945	.4849	.2471	.9628	485.6
#3	.0474	4.894	.1933	.4803	.2461	.9546	477.5

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	493.0	4.834	.4962	.9897	.4882	5.285	505.3
SDev	2.5	.033	.0040	.0098	.0049	.035	1.8
%RSD	.4972	.6817	.7986	.9884	1.009	.6662	.3644
#1	494.1	4.868	.5005	1.000	.4931	5.323	507.4
#2	494.7	4.830	.4957	.9871	.4883	5.280	504.6
#3	490.2	4.803	.4926	.9814	.4833	5.253	503.9

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	506.6	.9377	.1228	4.848	.9672	489.48	.9754
SDev	1.9	.0093	.0012	.087	.0085	2.33	.0075
%RSD	.3726	.9921	1.009	1.785	.8742	.47555	.7708
#1	508.5	.9483	.1243	4.943	.9746	490.60	.9835
#2	506.4	.9339	.1223	4.825	.9691	491.04	.9740
#3	504.8	.9309	.1220	4.775	.9580	486.81	.9687

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4841	.5126	490.1	506.2	503.9
SDev	.0038	.0046	3.7	1.9	5.0
%RSD	.7883	.8915	.7455	.3674	.9898
#1	.4882	.5173	492.8	508.2	509.0
#2	.4835	.5123	491.7	505.8	503.5
#3	.4806	.5081	486.0	504.5	499.1

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Method: NAKFIT Sample Name: LCSSD Operator: TJN
Run Time: 08/08/95 15:34:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	1.969	513.6	508.1	1970.	2.054	.0497	.9763
SDev	.009	1.1	2.0	7.	.010	.0001	.0050
%RSD	.4823	.2149	.3998	.3692	.5010	.3086	.5138
#1	1.977	512.4	510.1	1977.	2.063	.0498	.9815
#2	1.972	514.5	508.2	1971.	2.057	.0498	.9758
#3	1.958	513.9	506.0	1963.	2.043	.0495	.9716

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0485	4.976	.1959	.4889	.2503	.9721	489.4
SDev	.0004	.010	.0009	.0015	.0014	.0034	3.4
%RSD	.9192	.2002	.4503	.3076	.5576	.3532	.6994
#1	.0485	4.980	.1959	.4900	.2514	.9761	493.0
#2	.0490	4.983	.1968	.4895	.2507	.9697	489.1
#3	.0481	4.965	.1950	.4872	.2487	.9706	486.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	497.3	4.885	.5008	1.001	.4928	5.324	514.7
SDev	4.1	.024	.0016	.005	.0012	.040	4.8
%RSD	.8291	.4943	.3246	.5038	.2429	.7519	.9394
#1	494.5	4.905	.5020	1.006	.4941	5.368	515.8
#2	502.0	4.891	.5016	1.002	.4924	5.315	518.9
#3	495.4	4.858	.4990	.9959	.4918	5.289	509.4

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	507.3	.9500	.1243	4.938	.9759	489.10	.9869
SDev	4.9	.0060	.0006	.104	.0037	10.73	.0038
%RSD	.9689	.6317	.4956	2.104	.3814	2.1931	.3891
#1	504.5	.9543	.1250	5.047	.9747	481.57	.9898
#2	512.9	.9525	.1241	4.841	.9801	484.34	.9884
#3	504.3	.9431	.1239	4.924	.9729	501.38	.9826

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4892	.5167	494.7	509.7	509.9
SDev	.0015	.0024	2.8	4.6	1.1
%RSD	.2994	.4564	.5576	.9077	.2229
#1	.4907	.5187	494.0	508.3	510.8
#2	.4892	.5174	497.7	514.9	510.3
#3	.4878	.5141	492.3	506.0	508.7

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Method: NAKFIT Sample Name: 216666 Operator: TJN
Run Time: 08/08/95 15:39:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	100.5	2.479	12.69	69.76	2.214	.0056	.2314
SDev	1.3	4.566	1.02	3.05	.028	.0001	.0050
%RSD	1.292	184.2	8.030	4.376	1.247	2.262	2.183
#1	101.9	.2502	13.73	71.81	2.243	.0058	.2369
#2	100.3	-.5451	12.64	66.25	2.209	.0057	.2301
#3	99.35	7.732	11.69	71.21	2.189	.0055	.2271

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0385	494.3	.5560	.0676	.9404	250.0	5428.
SDev	.0006	2.5	.0027	.0007	.0176	2.1	81.
%RSD	1.470	.5024	.4848	1.012	1.875	.8336	1.495
#1	.0391	497.1	.5590	.0682	.9592	252.2	5499.
#2	.0380	493.7	.5550	.0677	.9379	249.6	5446.
#3	.0385	492.2	.5539	.0668	.9242	248.1	5340.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	5412.	59.84	3.495	.0272	.2713	18.30	-14.04
SDev	54.	.92	.024	.0022	.0034	.26	.83
%RSD	.9886	1.546	.6873	8.270	1.257	1.423	5.898
#1	5464.	60.82	3.520	.0296	.2753	18.58	-14.86
#2	5414.	59.71	3.491	.0267	.2693	18.25	-14.05
#3	5357.	58.98	3.473	.0252	.2694	18.07	-13.20

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	21.72	19.98	.0094	2.871	.0967	11.220	4.772
SDev	1.82	.19	.0004	.187	.0015	1.611	.047
%RSD	8.368	.9528	3.803	6.501	1.536	14.358	.9789
#1	22.01	20.20	.0098	3.086	.0970	10.362	4.822
#2	19.77	19.91	.0091	2.750	.0951	13.079	4.763
#3	23.37	19.84	.0094	2.776	.0980	10.221	4.730

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.3762	2.595	5417.	9.813	9.288
SDev	.0029	.025	63.	1.344	1.063
%RSD	.7783	.9610	1.154	13.69	11.45
#1	.3792	2.623	5476.	9.734	9.241
#2	.3762	2.588	5425.	8.510	8.249
#3	.3733	2.574	5351.	11.19	10.37

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Method: NAKFIT Sample Name: 217221 Operator: TJN
Run Time: 08/08/95 15:44:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	211.5	-11.86	2.081	246.5	1.841	.0103	.1782
SDev	1.6	2.25	2.113	2.9	.016	.0001	.0014
%RSD	.7513	18.98	101.5	1.191	.8627	1.329	.7855
#1	213.3	-14.28	3.624	249.6	1.859	.0104	.1792
#2	211.0	-9.834	-.3273	246.2	1.837	.0102	.1787
#3	210.2	-11.46	2.947	243.7	1.828	.0102	.1766

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0263	103.9	.3156	.1411	.2508	362.0	157.8
SDev	.0008	.3	.0012	.0008	.0028	1.7	3.5
%RSD	2.996	.3052	.3731	.5402	1.121	.4659	2.217
#1	.0270	104.3	.3164	.1420	.2538	363.9	161.7
#2	.0254	103.8	.3160	.1409	.2503	361.5	156.4
#3	.0265	103.7	.3142	.1405	.2482	360.7	155.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	185.0	84.49	6.803	.0191	.3302	37.64	4.864
SDev	3.0	.60	.031	.0020	.0003	.44	7.000
%RSD	1.630	.7129	.4581	10.41	.0975	1.163	143.9
#1	181.6	85.18	6.838	.0201	.3301	38.13	9.498
#2	187.0	84.27	6.791	.0203	.3305	37.46	8.283
#3	186.6	84.03	6.779	.0168	.3299	37.31	-3.188

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	22.01	1.633	-.0014	2.210	.0189	23.626	2.009
SDev	3.33	.026	.0001	.095	.0008	8.619	.013
%RSD	15.13	1.603	5.807	4.278	4.155	36.481	.6603
#1	19.48	1.661	-.0014	2.306	.0185	14.343	2.024
#2	25.78	1.627	-.0013	2.117	.0183	25.161	2.006
#3	20.76	1.610	-.0013	2.208	.0197	31.375	1.998

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4949	6.393	176.0	16.30	-2.561
SDev	.0025	.021	.9	3.59	.843
%RSD	.5056	.3353	.5272	22.01	32.92
#1	.4978	6.417	175.0	16.16	-2.338
#2	.4937	6.387	176.8	19.96	-3.493
#3	.4933	6.376	176.1	12.78	-1.851

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Method: NAKFIT Sample Name: 217222 Operator: TJN
Run Time: 08/08/95 15:48:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	51.99	-3.928	1.557	40.70	.4096	.0030	.0505
SDev	.16	1.716	1.963	2.99	.0015	.0001	.0002
%RSD	.3085	43.68	126.1	7.342	.3664	3.034	.4512
#1	52.13	-5.884	-.6743	41.33	.4112	.0031	.0508
#2	52.03	-3.222	2.326	43.32	.4095	.0030	.0504
#3	51.81	-2.678	3.018	37.45	.4082	.0029	.0504

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0083	175.9	.0974	.0537	.0775	114.4	63.11
SDev	.0003	.7	.0004	.0005	.0006	.4	.96
%RSD	3.759	.3775	.4054	.9401	.7727	.3430	1.514
#1	.0084	175.4	.0973	.0538	.0781	114.4	62.11
#2	.0079	176.6	.0978	.0541	.0774	114.9	64.02
#3	.0085	175.6	.0970	.0531	.0769	114.1	63.21

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	63.93	106.3	5.341	.0077	.1240	10.73	-5.183
SDev	1.90	.4	.014	.0001	.0005	.07	4.644
%RSD	2.967	.3753	.2618	1.977	.3918	.6764	89.61
#1	61.99	106.6	5.338	.0078	.1245	10.81	-2.676
#2	65.78	106.4	5.356	.0075	.1239	10.73	-2.331
#3	64.03	105.8	5.329	.0077	.1236	10.66	-10.54

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	9.891	7.293	-.0003	1.701	.0114	7.3172	1.824
SDev	.726	.028	.0003	.145	.0016	2.0231	.004
%RSD	7.344	.3851	75.31	8.553	14.48	27.648	.2073
#1	9.052	7.316	-.0004	1.806	.0132	9.3819	1.825
#2	10.32	7.302	-.0001	1.761	.0101	5.3385	1.827
#3	10.30	7.262	-.0005	1.535	.0108	7.2312	1.820

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.1619	.3637	63.66	4.871	-.2694
SDev	.0004	.0016	1.58	1.392	1.8805
%RSD	.2517	.4409	2.487	28.57	698.1
#1	.1616	.3643	62.03	5.147	-2.409
#2	.1624	.3650	65.19	6.105	.4792
#3	.1618	.3619	63.76	3.363	1.122

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Method: NAKFIT Sample Name: 217223 Operator: TJN
Run Time: 08/08/95 15:53:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	271.0	-15.07	7.268	112.9	2.330	.0132	.1742
SDev	2.9	3.92	2.869	2.0	.032	.0001	.0010
%RSD	1.075	25.98	39.48	1.749	1.353	1.054	.5599
#1	274.1	-18.40	10.02	115.1	2.362	.0134	.1751
#2	270.6	-16.06	4.296	112.5	2.328	.0132	.1743
#3	268.3	-10.76	7.487	111.2	2.299	.0131	.1731

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0323	118.0	.3887	.1669	.4552	388.3	250.8
SDev	.0007	.3	.0019	.0013	.0073	2.2	5.0
%RSD	2.264	.2585	.4805	.7557	1.594	.5672	2.011
#1	.0330	118.3	.3908	.1683	.4629	390.8	255.2
#2	.0324	117.7	.3881	.1665	.4542	387.5	251.9
#3	.0315	117.9	.3872	.1659	.4485	386.6	245.3

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	269.8	100.8	10.95	.0227	.4254	40.29	8.695
SDev	2.5	1.1	.05	.0010	.0026	.65	.935
%RSD	.9432	1.056	.4636	4.369	.6145	1.615	10.75
#1	267.5	102.0	11.01	.0236	.4284	40.96	9.774
#2	269.5	100.6	10.93	.0228	.4244	40.26	8.133
#3	272.6	99.88	10.91	.0216	.4234	39.66	8.177

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	31.24	2.657	-.0000	2.406	.0268	20.684	1.010
SDev	2.53	.029	.0003	.123	.0015	2.485	.009
%RSD	8.107	1.083	2042.	5.097	5.586	12.015	.8578
#1	30.29	2.689	.0003	2.547	.0281	19.727	1.019
#2	29.33	2.649	-.0002	2.326	.0272	23.506	1.008
#3	34.11	2.633	-.0001	2.346	.0252	18.820	1.002

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5944	2.249	263.5	23.73	-.1710
SDev	.0033	.009	.1	1.62	2.0477
%RSD	.5606	.4224	.0384	6.834	1198.
#1	.5982	2.260	263.4	23.46	.5588
#2	.5933	2.245	263.6	22.27	-2.484
#3	.5918	2.242	263.5	25.48	1.412

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Method: NAKFIT Sample Name: 217224 Operator: TJN
Run Time: 08/08/95 15:58:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	95.04	-5.874	5.650	60.83	.8702	.0055	.0779
SDev	1.26	3.667	1.364	1.28	.0124	.0001	.0013
%RSD	1.327	62.43	24.14	2.107	1.422	2.382	1.602
#1	96.41	-10.11	6.435	61.22	.8834	.0057	.0793
#2	94.81	-3.842	4.075	61.88	.8680	.0055	.0776
#3	93.92	-3.673	6.441	59.40	.8590	.0054	.0769

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0159	309.8	.1614	.0826	.1812	190.1	110.9
SDev	.0006	.4	.0010	.0008	.0039	1.0	4.2
%RSD	3.503	.1234	.6258	.9939	2.172	.5487	3.788
#1	.0165	310.2	.1626	.0830	.1853	191.2	114.3
#2	.0157	309.7	.1610	.0831	.1807	189.9	112.1
#3	.0154	309.5	.1607	.0816	.1775	189.2	106.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	111.1	171.4	7.346	.0114	.1934	15.85	-15.66
SDev	1.5	2.1	.034	.0010	.0023	.31	5.67
%RSD	1.346	1.244	.4620	8.654	1.187	1.974	36.19
#1	109.5	173.7	7.382	.0119	.1960	16.19	-10.54
#2	111.6	171.2	7.341	.0120	.1925	15.78	-14.68
#3	112.3	169.5	7.315	.0102	.1916	15.58	-21.75

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	21.97	8.538	-.0002	2.382	.0153	5.6965	2.000
SDev	5.66	.066	.0003	.116	.0031	3.5321	.018
%RSD	25.76	.7768	112.9	4.889	20.36	62.004	.9191
#1	16.69	8.612	.0001	2.511	.0120	2.4402	2.019
#2	21.28	8.517	-.0003	2.348	.0156	9.4514	1.996
#3	27.94	8.485	-.0005	2.286	.0183	5.1979	1.983

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.2587	.6262	111.1	9.438	1.813
SDev	.0013	.0034	.7	1.890	1.121
%RSD	.5135	.5420	.6667	20.03	61.82
#1	.2602	.6300	111.1	7.620	.9269
#2	.2583	.6248	111.8	9.302	1.439
#3	.2576	.6236	110.3	11.39	3.073

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Method: NAKFIT Sample Name: 217224D Operator: TJN
Run Time: 08/08/95 16:03:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	94.16	-3.809	4.613	61.82	.8609	.0054	.0770
SDev	1.03	1.397	1.619	2.11	.0101	.0002	.0004
%RSD	1.091	36.67	35.09	3.421	1.175	3.115	.5574
#1	95.27	-5.260	3.954	62.42	.8721	.0056	.0772
#2	93.94	-3.696	3.428	63.56	.8583	.0054	.0773
#3	93.25	-2.473	6.458	59.47	.8523	.0053	.0765

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0157	306.4	.1588	.0812	.1792	187.9	114.2
SDev	.0004	.4	.0010	.0006	.0029	1.0	2.8
%RSD	2.297	.1297	.6506	.7653	1.635	.5343	2.494
#1	.0160	306.8	.1599	.0818	.1824	189.0	117.5
#2	.0153	306.3	.1579	.0812	.1785	187.6	112.4
#3	.0157	306.0	.1585	.0805	.1766	187.0	112.7

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	110.2	169.8	7.264	.0118	.1912	15.67	-17.45
SDev	2.6	1.8	.030	.0011	.0019	.24	1.05
%RSD	2.350	1.061	.4091	9.522	1.018	1.536	6.007
#1	108.3	171.7	7.297	.0130	.1935	15.93	-18.64
#2	113.2	169.3	7.257	.0107	.1904	15.61	-16.69
#3	109.3	168.2	7.238	.0116	.1898	15.46	-17.00

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	25.00	8.572	-.0005	2.382	.0145	8.4110	1.978
SDev	3.16	.051	.0002	.116	.0031	4.5821	.015
%RSD	12.63	.5947	39.48	4.866	21.41	54.478	.7423
#1	22.44	8.631	-.0003	2.509	.0154	5.9455	1.994
#2	28.53	8.548	-.0007	2.358	.0111	5.5894	1.975
#3	24.03	8.538	-.0005	2.281	.0171	13.698	1.965

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.2556	.6191	111.6	10.87	1.809
SDev	.0014	.0043	1.3	2.40	1.453
%RSD	.5352	.7004	1.140	22.04	80.35
#1	.2572	.6240	111.3	8.759	.8862
#2	.2549	.6176	112.9	13.47	1.056
#3	.2548	.6157	110.4	10.37	3.484

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Method: NAKFIT Sample Name: CCV Operator: TJN
Run Time: 08/08/95 16:08:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.046	495.0	488.1	486.7	5.005	.1226	2.408
SDev	.008	4.3	1.1	2.5	.009	.0001	.008
%RSD	.1565	.8695	.2328	.5043	.1898	.1133	.3389
#1	5.044	490.0	487.0	485.3	5.004	.1226	2.399
#2	5.054	497.7	489.3	485.3	5.015	.1227	2.414
#3	5.039	497.3	488.1	489.5	4.996	.1224	2.411

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2367	12.28	.4835	1.203	.6065	2.508	485.8
SDev	.0008	.02	.0006	.002	.0016	.010	1.9
%RSD	.3575	.1727	.1351	.1529	.2697	.4125	.3912
#1	.2375	12.30	.4837	1.205	.6058	2.519	485.3
#2	.2368	12.28	.4840	1.204	.6084	2.499	487.9
#3	.2359	12.26	.4828	1.201	.6053	2.506	484.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	490.8	12.32	1.221	2.408	1.209	12.63	513.2
SDev	1.3	.02	.002	.006	.002	.03	2.3
%RSD	.2639	.1883	.1660	.2410	.1454	.2038	.4525
#1	490.0	12.31	1.223	2.410	1.211	12.62	513.5
#2	492.3	12.34	1.222	2.413	1.209	12.66	515.3
#3	490.2	12.30	1.219	2.402	1.208	12.61	510.7

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	507.6	2.456	.6026	12.06	2.384	485.93	2.436
SDev	1.4	.011	.0002	.07	.001	1.49	.004
%RSD	.2714	.4399	.0406	.6106	.0517	.30676	.1504
#1	507.5	2.465	.6027	12.09	2.385	486.67	2.435
#2	506.3	2.458	.6028	12.12	2.383	486.91	2.440
#3	509.1	2.444	.6023	11.98	2.383	484.22	2.433

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.213	1.239	489.2	509.5	490.4
SDev	.002	.002	1.5	.2	2.1
%RSD	.1415	.1568	.3007	.0302	.4335
#1	1.214	1.241	488.4	509.5	488.0
#2	1.214	1.237	490.9	509.3	492.1
#3	1.211	1.238	488.2	509.6	491.1

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 16:13:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0226	.9761	-.0762	.1012	.0013	-.0002	.0077
SDev	.0020	.7614	.2210	1.228	.0001	.0000	.0025
%RSD	9.053	78.00	290.1	1213.	3.827	19.47	32.04
#1	-.0206	1.654	.1729	-1.241	.0013	-.0001	.0103
#2	-.0226	.1521	-.1526	1.169	.0013	-.0002	.0074
#3	-.0247	1.123	-.2488	.3758	.0012	-.0002	.0054

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0000	.0228	-.0002	-.0000	.0001	.0128	.4982
SDev	.0001	.0046	.0002	.0001	.0002	.0059	1.237
%RSD	395.6	19.94	107.1	634.5	146.1	46.21	248.3
#1	-.0001	.0279	-.0003	.0001	.0003	.0196	-.7353
#2	.0000	.0213	-.0000	-.0002	.0003	.0086	1.739
#3	.0001	.0192	-.0001	.0000	-.0001	.0103	.4909

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.110	.0129	.0005	.0012	-.0005	.0708	3.099
SDev	.477	.0034	.0001	.0012	.0007	.0046	2.166
%RSD	42.92	26.54	13.00	97.84	135.4	6.559	69.91
#1	1.652	.0163	.0006	.0025	-.0009	.0756	2.874
#2	.7569	.0129	.0005	.0012	-.0010	.0663	5.369
#3	.9219	.0095	.0005	.0001	.0003	.0706	1.053

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-2.239	.0194	-.0001	.2989	.0014	3.5876	.0010
SDev	.600	.0033	.0001	.0200	.0020	3.3110	.0002
%RSD	26.78	17.01	234.2	6.705	138.9	92.289	22.71
#1	-1.635	.0220	-.0002	.3188	.0023	2.2485	.0013
#2	-2.248	.0205	-.0001	.2992	.0028	1.1559	.0010
#3	-2.834	.0157	.0001	.2788	-.0008	7.3583	.0008

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0006	.0005	.9068	-.4614	.2745
SDev	.0001	.0001	.1586	.9571	.3631
%RSD	22.58	26.86	17.49	207.5	132.3
#1	.0007	.0006	.8575	-.1331	.6662
#2	.0007	.0004	1.084	.2885	-.0508
#3	.0005	.0006	.7787	-1.539	.2082

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Method: NAKFIT Sample Name: 217224L Operator: TJN
Run Time: 08/08/95 16:18:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	19.31	-1.310	1.523	12.64	.1729	.0011	.0183
SDev	.18	1.205	1.732	3.49	.0019	.0001	.0007
%RSD	.9070	92.02	113.7	27.63	1.114	4.265	3.872
#1	19.48	-2.666	3.384	15.74	.1747	.0011	.0188
#2	19.34	-.3621	1.229	13.34	.1732	.0010	.0186
#3	19.13	-.9011	-.0427	8.855	.1708	.0010	.0175

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0029	65.77	.0313	.0165	.0340	39.33	22.27
SDev	.0001	.45	.0006	.0003	.0006	.29	2.55
%RSD	3.496	.6915	1.971	1.558	1.713	.7316	11.46
#1	.0029	66.21	.0320	.0168	.0346	39.60	19.35
#2	.0030	65.79	.0308	.0165	.0339	39.35	23.35
#3	.0028	65.30	.0312	.0163	.0335	39.03	24.10

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	24.40	36.63	1.523	.0028	.0398	3.342	-2.780
SDev	.84	.28	.011	.0005	.0003	.034	2.786
%RSD	3.444	.7663	.7258	17.05	.8632	1.007	100.2
#1	23.48	36.88	1.533	.0032	.0394	3.377	-5.996
#2	24.59	36.68	1.524	.0023	.0400	3.338	-1.152
#3	25.13	36.33	1.511	.0028	.0400	3.310	-1.191

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	5.962	1.809	-.0002	.7228	.0034	3.2414	.4002
SDev	.126	.007	.0002	.0331	.0028	.8548	.0035
%RSD	2.115	.4076	74.10	4.583	81.63	26.373	.8802
#1	5.820	1.815	-.0001	.7524	.0066	3.1938	.4038
#2	6.062	1.811	-.0004	.7288	.0013	2.4113	.4001
#3	6.003	1.801	-.0002	.6870	.0023	4.1190	.3968

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0515	.1298	23.69	3.051	.5802
SDev	.0006	.0005	1.41	1.010	.8551
%RSD	1.102	.3685	5.930	33.09	147.4
#1	.0519	.1302	22.11	1.885	1.369
#2	.0516	.1298	24.18	3.660	.6996
#3	.0508	.1293	24.79	3.607	-.3283

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Method: NAKFIT Sample Name: 2172248 Operator: TJN
Run Time: 08/08/95 16:23:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	99.90	4282.	4248.	3189.	10.18	.2157	4.159
SDev	1.09	9.	55.	34.	.12	.0011	.036
%RSD	1.093	.2139	1.297	1.074	1.168	.5254	.8764
#1	101.1	4290.	4311.	3228.	10.31	.2170	4.201
#2	99.59	4283.	4225.	3172.	10.15	.2153	4.140
#3	99.01	4272.	4209.	3167.	10.08	.2148	4.136

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2217	317.8	1.047	2.192	1.414	191.3	934.3
SDev	.0020	.6	.003	.013	.021	1.0	9.5
%RSD	.9120	.1930	.3089	.5763	1.494	.5029	1.012
#1	.2240	318.5	1.050	2.207	1.437	192.4	945.1
#2	.2208	317.5	1.045	2.186	1.408	190.9	929.9
#3	.2202	317.5	1.045	2.183	1.396	190.5	927.9

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	917.3	183.2	9.179	4.354	2.257	37.76	2689.
SDev	7.4	1.7	.039	.021	.017	.70	42.
%RSD	.8015	.9152	.4291	.4865	.7541	1.859	1.550
#1	909.4	185.0	9.224	4.376	2.276	38.54	2737.
#2	918.7	182.7	9.163	4.351	2.251	37.57	2670.
#3	923.9	181.8	9.150	4.334	2.243	37.18	2660.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	2786.	23.72	.2268	25.15	4.257	3176.1	6.529
SDev	12.	.14	.0025	.36	.025	17.6	.049
%RSD	.4389	.6085	1.089	1.434	.5768	.55433	.7440
#1	2797.	23.89	.2296	25.55	4.285	3192.4	6.583
#2	2789.	23.66	.2261	25.04	4.247	3178.4	6.515
#3	2773.	23.62	.2248	24.85	4.239	3157.5	6.488

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	2.510	2.631	923.0	2754.	4259.
SDev	.015	.014	2.0	21.	39.
%RSD	.5874	.5421	.2186	.7665	.9253
#1	2.526	2.647	921.3	2777.	4304.
#2	2.505	2.627	922.4	2749.	4244.
#3	2.498	2.620	925.2	2735.	4230.

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Method: NAKFIT Sample Name: 217224SD Operator: TJN
Run Time: 08/08/95 16:28:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	100.3	4302.	4261.	3195.	10.21	.2169	4.187
SDev	1.4	24.	68.	37.	.15	.0017	.045
%RSD	1.405	.5470	1.593	1.167	1.460	.7919	1.086
#1	101.9	4327.	4337.	3236.	10.38	.2188	4.238
#2	99.75	4298.	4240.	3187.	10.16	.2166	4.173
#3	99.18	4281.	4206.	3162.	10.10	.2154	4.150

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2233	319.9	1.052	2.202	1.415	192.0	938.4
SDev	.0023	1.1	.006	.016	.026	1.4	17.0
%RSD	1.036	.3343	.5909	.7045	1.846	.7093	1.807
#1	.2256	320.9	1.059	2.218	1.445	193.5	957.1
#2	.2233	319.9	1.052	2.199	1.406	191.7	934.1
#3	.2209	318.8	1.046	2.188	1.395	190.8	924.1

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	922.9	183.9	9.233	4.374	2.263	37.77	2712.
SDev	4.1	2.3	.057	.033	.020	.83	46.
%RSD	.4427	1.239	.6218	.7520	.8917	2.207	1.684
#1	918.2	186.4	9.295	4.409	2.286	38.71	2761.
#2	924.8	183.3	9.223	4.368	2.255	37.43	2705.
#3	925.6	182.0	9.181	4.344	2.249	37.15	2671.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	2792.	24.03	.2278	25.20	4.272	3186.1	6.558
SDev	20.	.26	.0027	.56	.048	36.9	.065
%RSD	.7107	1.072	1.171	2.223	1.130	1.1587	.9957
#1	2811.	24.31	.2308	25.83	4.325	3226.8	6.630
#2	2794.	23.94	.2269	25.00	4.261	3176.5	6.539
#3	2771.	23.82	.2257	24.76	4.231	3154.9	6.504

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	2.520	2.644	928.0	2765.	4275.
SDev	.020	.020	3.0	28.	53.
%RSD	.7809	.7426	.3268	1.023	1.241
#1	2.541	2.666	931.1	2794.	4334.
#2	2.516	2.639	927.9	2764.	4259.
#3	2.502	2.627	925.1	2738.	4231.

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Method: NAKFIT Sample Name: 217225 Operator: TJN
Run Time: 08/08/95 16:32:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	70.16	-.6908	5.272	48.08	.5413	.0036	.0764
SDev	.44	1.1290	.548	3.92	.0035	.0001	.0048
%RSD	.6267	163.4	10.40	8.154	.6481	1.834	6.291
#1	70.52	.3190	5.042	51.68	.5443	.0037	.0812
#2	70.28	-.4818	5.898	48.65	.5420	.0036	.0764
#3	69.67	-1.910	4.876	43.90	.5374	.0035	.0716

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0102	291.3	.1239	.0527	.0978	139.6	74.98
SDev	.0001	1.0	.0005	.0001	.0014	.6	1.64
%RSD	.8350	.3364	.4085	.2932	1.403	.4568	2.193
#1	.0101	291.8	.1245	.0527	.0990	140.0	76.78
#2	.0103	291.9	.1237	.0526	.0982	139.9	74.58
#3	.0102	290.2	.1236	.0529	.0963	138.9	73.57

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	76.82	123.0	3.331	.0091	.1188	12.02	-7.931
SDev	1.51	.7	.014	.0016	.0008	.10	3.196
%RSD	1.963	.6011	.4075	17.72	.6734	.8490	40.30
#1	75.09	123.6	3.340	.0108	.1197	12.12	-5.506
#2	77.48	123.2	3.337	.0087	.1181	12.01	-6.735
#3	77.89	122.2	3.315	.0077	.1187	11.92	-11.55

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	16.25	9.082	-.0006	2.108	.0149	8.2785	2.604
SDev	2.50	.039	.0002	.106	.0030	5.7766	.013
%RSD	15.36	.4281	32.48	5.036	20.09	69.779	.5137
#1	18.09	9.110	-.0004	2.222	.0183	14.947	2.614
#2	17.24	9.098	-.0008	2.011	.0138	5.0961	2.609
#3	13.41	9.038	-.0007	2.092	.0126	4.7930	2.589

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.2149	.5598	76.21	8.197	3.287
SDev	.0008	.0022	.48	2.729	.600
%RSD	.3823	.4003	.6253	33.29	18.25
#1	.2152	.5612	75.66	10.24	3.470
#2	.2155	.5609	76.51	9.260	3.774
#3	.2139	.5572	76.45	5.097	2.616

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Method: NAKFIT Sample Name: 217226 FB Operator: TJN
Run Time: 08/08/95 16:37:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0316	.4788	1.320	-.5966	.0009	-.0003	.0035
SDev	.0062	2.514	.658	2.0179	.0002	.0000	.0005
%RSD	19.60	525.0	49.85	338.2	24.58	8.038	14.30
#1	-.0383	3.216	1.347	1.644	.0007	-.0003	.0040
#2	-.0261	-.0544	1.963	-2.271	.0012	-.0003	.0033
#3	-.0305	-1.725	.6485	-1.163	.0009	-.0003	.0031

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.0001	.1142	-.0003	-.0002	.0001	.0549	-.3704
SDev	.0001	.0260	.0000	.0000	.0003	.0103	1.3145
%RSD	48.30	22.80	12.29	23.44	375.7	18.69	354.9
#1	-.0001	.0893	-.0003	-.0001	.0003	.0523	.2290
#2	-.0002	.1412	-.0002	-.0002	-.0002	.0662	.5377
#3	-.0001	.1120	-.0002	-.0002	.0001	.0462	-1.878

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.034	.0487	.0013	.0005	-.0006	.0775	3.533
SDev	1.637	.0131	.0004	.0006	.0001	.0068	.969
%RSD	158.4	26.90	30.66	128.1	14.17	8.753	27.41
#1	-.6519	.0373	.0009	.0008	-.0005	.0833	2.579
#2	2.618	.0630	.0017	.0009	-.0007	.0792	3.506
#3	1.134	.0457	.0013	-.0002	-.0007	.0700	4.515

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-.7916	.0340	-.0002	.3274	-.0011	2.1629	.0016
SDev	.3992	.0096	.0002	.0717	.0022	3.3451	.0002
%RSD	50.43	28.13	65.81	21.89	199.0	154.66	14.04
#1	-1.195	.0445	-.0001	.4021	-.0029	4.0930	.0016
#2	-.7838	.0317	-.0003	.3209	.0013	4.0955	.0018
#3	-.3963	.0258	-.0003	.2592	-.0017	-1.6997	.0014

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0003	.0004	.5664	.6489	1.040
SDev	.0003	.0001	1.202	.5887	1.078
%RSD	93.05	35.71	212.3	90.72	103.7
#1	-.0000	.0004	-.3583	.0622	1.970
#2	.0004	.0002	1.926	.6450	1.292
#3	.0004	.0005	.1317	1.239	-.1417

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Method: NAKFIT Sample Name: 217498 Operator: TJN
Run Time: 08/08/95 16:47:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	292.4	-23.25	8.486	61.79	.5351	.0031	.0181
SDev	3.8	1.85	1.719	2.97	.0080	.0001	.0005
%RSD	1.311	7.950	20.26	4.813	1.505	3.673	2.729
#1	296.6	-25.12	10.44	62.29	.5440	.0032	.0187
#2	291.3	-23.20	7.205	64.48	.5326	.0030	.0180
#3	289.2	-21.43	7.814	58.60	.5285	.0030	.0177

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0139	3.620	.4664	.0186	.2035	230.0	77.54
SDev	.0004	.004	.0027	.0005	.0048	1.5	3.90
%RSD	2.924	.1224	.5733	2.694	2.372	.6525	5.025
#1	.0143	3.622	.4694	.0192	.2089	231.7	82.04
#2	.0136	3.624	.4656	.0183	.2019	229.5	75.30
#3	.0137	3.615	.4643	.0183	.1996	228.8	75.29

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	93.71	2.738	.2135	.0204	.1140	5.825	-1.400
SDev	1.50	.037	.0016	.0010	.0011	.129	.903
%RSD	1.600	1.354	.7547	5.009	.9720	2.220	64.47
#1	92.07	2.780	.2152	.0206	.1153	5.970	-.4405
#2	95.01	2.725	.2131	.0193	.1133	5.784	-2.233
#3	94.06	2.710	.2121	.0213	.1134	5.721	-1.528

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	31.55	14.42	-.0005	1.289	.0197	21.890	1.903
SDev	3.39	.17	.0003	.066	.0026	1.433	.020
%RSD	10.75	1.165	49.64	5.083	12.99	6.5470	1.034
#1	30.60	14.61	-.0003	1.364	.0203	22.864	1.925
#2	35.31	14.36	-.0008	1.242	.0219	22.562	1.898
#3	28.73	14.29	-.0005	1.262	.0169	20.244	1.886

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5174	.1627	88.33	20.57	-2.082
SDev	.0043	.0032	.47	2.09	.771
%RSD	.8256	1.972	.5332	10.18	37.04
#1	.5222	.1655	88.73	20.26	-1.403
#2	.5162	.1634	88.44	22.81	-2.921
#3	.5139	.1592	87.81	18.65	-1.924

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Method: NAKFIT Sample Name: 217499 Operator: TJN
Run Time: 08/08/95 16:52:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	234.3	-17.82	6.140	50.26	.4549	.0031	.0193
SDev	2.3	2.74	1.677	1.38	.0050	.0001	.0004
%RSD	.9917	15.38	27.31	2.744	1.109	2.141	2.083
#1	236.8	-18.82	5.335	50.13	.4604	.0032	.0197
#2	233.9	-19.92	8.068	48.95	.4537	.0031	.0190
#3	232.2	-14.72	5.017	51.70	.4506	.0030	.0191

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0117	4.589	.3931	.0200	.1723	190.4	158.6
SDev	.0003	.019	.0024	.0008	.0027	1.0	6.5
%RSD	2.853	.4183	.6237	3.944	1.551	.5273	4.127
#1	.0119	4.598	.3950	.0208	.1753	191.3	163.7
#2	.0117	4.601	.3940	.0201	.1713	190.5	160.9
#3	.0113	4.566	.3903	.0192	.1703	189.3	151.2

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	175.6	2.576	.2149	.0182	.1006	5.344	-8.051
SDev	2.3	.031	.0013	.0011	.0010	.083	6.150
%RSD	1.294	1.191	.6121	5.985	.9538	1.560	76.39
#1	172.9	2.608	.2162	.0191	.1018	5.438	-2.034
#2	176.9	2.572	.2151	.0170	.1001	5.317	-7.792
#3	176.8	2.547	.2136	.0186	.1001	5.278	-14.33

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	30.84	11.32	-.0015	1.202	.0071	19.036	1.414
SDev	3.51	.08	.0004	.048	.0002	3.515	.011
%RSD	11.38	.7414	27.19	4.020	2.787	18.464	.7744
#1	26.97	11.41	-.0010	1.231	.0069	19.746	1.426
#2	31.71	11.30	-.0016	1.229	.0073	15.221	1.413
#3	33.83	11.24	-.0018	1.146	.0071	22.142	1.404

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4198	.1558	169.9	17.89	-1.838
SDev	.0021	.0040	1.6	.63	.769
%RSD	.5099	2.544	.9544	3.503	41.84
#1	.4219	.1598	169.9	17.31	-2.708
#2	.4200	.1558	171.6	18.56	-1.251
#3	.4176	.1519	168.3	17.79	-1.554

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Method: NAKFIT Sample Name: 217500 Operator: TJN
Run Time: 08/08/95 16:57:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	4.732	.2347	2.233	.7138	.0554	-.0001	.0095
SDev	.082	1.563	.825	.1825	.0007	.0001	.0001
%RSD	1.723	666.2	36.96	25.57	1.344	74.89	1.333
#1	4.820	-1.570	2.241	.8277	.0562	-.0000	.0095
#2	4.717	1.169	3.053	.8105	.0552	-.0001	.0097
#3	4.659	1.105	1.403	.5033	.0547	-.0001	.0095

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0015	.5047	.0599	-.0010	.0164	7.693	23.66
SDev	.0002	.0035	.0006	.0002	.0008	.042	3.46
%RSD	12.40	.6889	1.064	22.02	4.600	.5426	14.60
#1	.0017	.5078	.0606	-.0009	.0172	7.741	27.43
#2	.0013	.5010	.0594	-.0009	.0163	7.662	22.92
#3	.0014	.5052	.0597	-.0013	.0157	7.677	20.64

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	13.72	.1588	.0322	.0071	.0083	1.299	-21.06
SDev	2.16	.0017	.0001	.0007	.0003	.033	2.11
%RSD	15.72	1.049	.3321	9.678	3.758	2.564	10.01
#1	11.33	.1602	.0322	.0079	.0085	1.337	-20.44
#2	14.28	.1570	.0322	.0065	.0080	1.284	-23.41
#3	15.53	.1592	.0320	.0069	.0086	1.275	-19.33

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	12.99	4.838	.0001	1.029	.0025	-3.9333	.4259
SDev	2.01	.090	.0003	.032	.0008	2.9327	.0056
%RSD	15.51	1.860	230.5	3.142	29.71	74.560	1.307
#1	15.30	4.937	.0004	1.048	.0033	-3.6612	.4301
#2	12.06	4.813	-.0001	.9915	.0018	-6.9925	.4281
#3	11.60	4.762	.0000	1.047	.0026	-1.1462	.4196

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0251	.0179	17.03	1.649	1.568
SDev	.0002	.0008	.29	1.603	.762
%RSD	.8476	4.355	1.716	97.21	48.60
#1	.0254	.0188	16.69	3.397	.9724
#2	.0249	.0177	17.16	.2492	2.426
#3	.0251	.0173	17.24	1.300	1.304

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Method: NAKFIT Sample Name: ICSAB Operator: TJN
Run Time: 08/08/95 17:02:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	459.5	1010.	1031.	977.4	.5548	.4780	.0027
SDev	1.5	16.	3.	1.7	.0012	.0025	.0003
%RSD	.3194	1.617	.3164	.1723	.2125	.5280	12.58
#1	458.2	992.5	1032.	977.4	.5542	.4757	.0025
#2	459.2	1014.	1027.	979.0	.5540	.4776	.0026
#3	461.1	1025.	1034.	975.7	.5561	.4807	.0031

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9234	444.9	.4784	.4749	.5636	181.8	938.6
SDev	.0056	2.9	.0039	.0018	.0013	.8	2.4
%RSD	.6023	.6570	.8235	.3815	.2264	.4587	.2603
#1	.9176	441.8	.4741	.4731	.5650	181.0	941.3
#2	.9240	445.4	.4792	.4749	.5626	181.7	936.6
#3	.9287	447.5	.4818	.4768	.5633	182.7	937.8

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	977.3	483.8	.4911	.9840	.9265	.0710	987.7
SDev	9.7	1.5	.0025	.0078	.0073	.0016	5.9
%RSD	.9879	.3047	.5182	.7900	.7858	2.297	.5935
#1	966.2	482.9	.4885	.9765	.9185	.0726	990.8
#2	981.9	482.9	.4910	.9835	.9328	.0710	991.4
#3	983.7	485.5	.4936	.9920	.9283	.0693	980.9

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	996.6	.0540	1.069	.4290	1.007	975.56	.0023
SDev	10.3	.0024	.003	.0989	.009	9.74	.0000
%RSD	1.035	4.419	.3027	23.05	.9202	.99834	1.226
#1	984.8	.0566	1.067	.5303	1.002	972.82	.0023
#2	1001.	.0534	1.068	.3327	1.000	986.37	.0023
#3	1004.	.0520	1.073	.4240	1.017	967.48	.0023

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4977	1.017	964.4	993.6	1024.
SDev	.0023	.005	5.7	6.0	6.
%RSD	.4687	.5015	.5891	.6025	.5727
#1	.4956	1.012	957.9	986.8	1019.
#2	.4973	1.018	966.8	997.8	1023.
#3	.5002	1.023	968.4	996.2	1031.

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Method: NAKFIT Sample Name: CCV Operator: TJN
Run Time: 08/08/95 17:07:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.050	484.8	480.9	478.4	5.005	.1205	2.342
SDev	.053	1.1	6.6	7.0	.047	.0009	.011
%RSD	1.052	.2330	1.382	1.468	.9406	.7550	.4892
#1	5.104	485.5	485.7	486.6	5.052	.1213	2.353
#2	5.050	483.5	483.8	474.3	5.005	.1206	2.342
#3	4.997	485.4	473.3	474.5	4.958	.1195	2.330

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2332	12.18	.4792	1.185	.5954	2.501	484.2
SDev	.0023	.11	.0041	.010	.0049	.035	5.0
%RSD	.9763	.8987	.8545	.8258	.8196	1.412	1.023
#1	.2351	12.29	.4833	1.195	.6000	2.540	487.9
#2	.2339	12.19	.4791	1.186	.5959	2.488	486.2
#3	.2307	12.07	.4751	1.175	.5903	2.473	478.6

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	483.6	12.11	1.206	2.361	1.186	12.53	495.5
SDev	2.2	.10	.010	.014	.010	.12	6.2
%RSD	.4509	.8158	.8681	.5797	.8711	.9897	1.245
#1	485.9	12.21	1.216	2.373	1.195	12.66	502.6
#2	483.3	12.11	1.207	2.365	1.188	12.53	491.8
#3	481.6	12.02	1.195	2.346	1.174	12.41	492.1

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	492.6	2.398	.5906	11.90	2.338	477.74	2.433
SDev	2.5	.029	.0050	.17	.022	4.25	.022
%RSD	.5030	1.195	.8405	1.394	.9543	.88916	.9085
#1	495.3	2.428	.5957	12.04	2.358	479.49	2.454
#2	490.4	2.395	.5903	11.95	2.343	480.84	2.435
#3	492.2	2.371	.5857	11.72	2.314	472.90	2.410

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.205	1.210	483.8	493.6	482.2
SDev	.010	.010	3.0	3.7	4.3
%RSD	.8147	.8582	.6244	.7401	.8962
#1	1.215	1.220	486.6	497.7	485.6
#2	1.206	1.211	484.2	490.9	483.7
#3	1.195	1.199	480.6	492.2	477.3

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 17:12:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0345	-.9525	2.107	1.700	.0013	-.0003	.0066
SDev	.0104	1.2166	1.627	.783	.0001	.0001	.0022
%RSD	30.28	127.7	77.25	46.07	6.345	17.10	33.60
#1	-.0229	-1.762	3.490	.7956	.0013	-.0002	.0090
#2	-.0373	-1.542	2.516	2.145	.0013	-.0003	.0065
#3	-.0433	.4465	.3136	2.159	.0012	-.0003	.0045

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0357	-.0002	.0001	.0001	.0040	-.7316
SDev	.0001	.0057	.0000	.0003	.0002	.0030	1.0046
%RSD	117.4	16.07	18.19	213.8	337.6	75.18	137.3
#1	.0003	.0417	-.0002	.0001	.0003	.0048	.1197
#2	.0000	.0353	-.0001	.0004	-.0001	.0066	-1.840
#3	.0001	.0302	-.0002	-.0001	-.0000	.0007	-.4749

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.415	.0315	.0001	.0023	-.0005	.0759	5.320
SDev	1.375	.0061	.0001	.0019	.0007	.0065	3.570
%RSD	97.24	19.38	93.51	83.86	141.2	8.529	67.10
#1	2.854	.0382	.0001	.0045	-.0013	.0773	7.453
#2	.1129	.0298	.0001	.0015	.0001	.0815	7.309
#3	1.277	.0264	.0000	.0009	-.0003	.0688	1.199

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-1.662	-.0001	.0001	.3885	.0022	1.8272	.0012
SDev	1.622	.0028	.0001	.0958	.0032	2.1333	.0004
%RSD	97.59	2365.	38.29	24.65	143.7	116.75	31.84
#1	-3.383	.0030	.0002	.4620	.0051	4.2345	.0016
#2	-.1631	-.0022	.0001	.4232	-.0012	.17145	.0011
#3	-1.438	-.0012	.0002	.2802	.0028	1.0756	.0008

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0006	.7001	.6636	1.088
SDev	.0001	.0001	1.240	1.492	.695
%RSD	38.03	19.44	177.1	224.8	63.85
#1	.0004	.0007	1.943	.2256	1.741
#2	.0004	.0005	-.5371	2.325	1.165
#3	.0002	.0005	.6940	-.5600	.3581

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Method: NAKFIT Sample Name: 217501 Operator: TJN
Run Time: 08/08/95 17:16:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	267.2	-16.82	6.184	45.99	.4569	.0029	.0239
SDev	2.2	5.18	3.021	.75	.0050	.0001	.0005
%RSD	.8252	30.81	48.85	1.620	1.090	2.531	2.000
#1	269.7	-22.56	9.572	46.59	.4624	.0030	.0244
#2	266.3	-12.48	3.771	46.22	.4558	.0029	.0238
#3	265.6	-15.42	5.210	45.15	.4526	.0029	.0235

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0109	4.883	.4111	.0158	.2325	185.7	96.69
SDev	.0004	.001	.0014	.0003	.0034	.8	5.03
%RSD	3.506	.0297	.3388	2.086	1.453	.4352	5.197
#1	.0112	4.883	.4127	.0155	.2363	186.6	101.6
#2	.0110	4.881	.4104	.0160	.2312	185.4	96.87
#3	.0105	4.884	.4102	.0160	.2300	185.0	91.58

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	121.1	2.528	.1805	.0124	.1009	5.809	-7.389
SDev	1.0	.025	.0008	.0023	.0008	.086	4.859
%RSD	.8217	1.001	.4544	18.64	.8215	1.489	65.76
#1	120.0	2.557	.1814	.0151	.1018	5.904	-4.241
#2	121.5	2.519	.1802	.0107	.1008	5.790	-4.940
#3	121.8	2.509	.1799	.0115	.1001	5.734	-12.98

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	33.12	6.910	-.0013	1.111	.0213	15.476	1.497
SDev	5.74	.039	.0003	.016	.0022	3.331	.010
%RSD	17.32	.5674	20.60	1.434	10.39	21.520	.6888
#1	29.46	6.955	-.0011	1.129	.0231	17.258	1.509
#2	30.17	6.894	-.0016	1.102	.0188	11.634	1.493
#3	39.73	6.882	-.0012	1.101	.0219	17.537	1.489

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4223	.1111	113.0	19.63	-1.476
SDev	.0026	.0010	1.1	2.21	.302
%RSD	.6042	.8723	.9726	11.25	20.48
#1	.4251	.1121	113.9	18.24	-1.127
#2	.4218	.1112	113.3	18.48	-1.641
#3	.4201	.1101	111.7	22.18	-1.659

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Method: NAKFIT Sample Name: 217502 Operator: TJN
Run Time: 08/08/95 17:21:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	258.4	-17.44	5.570	43.32	.4156	.0026	.0159
SDev	2.4	10.52	1.969	1.33	.0042	.0001	.0004
%RSD	.9107	60.33	35.35	3.073	1.002	4.578	2.303
#1	261.0	-29.47	7.015	44.14	.4200	.0027	.0156
#2	257.9	-12.90	6.366	41.79	.4152	.0025	.0163
#3	256.3	-9.951	3.327	44.04	.4117	.0025	.0158

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0103	3.854	.3711	.0156	.1442	173.7	66.12
SDev	.0005	.011	.0018	.0010	.0023	.9	9.15
%RSD	4.998	.2811	.4795	6.515	1.607	.5145	13.83
#1	.0108	3.866	.3731	.0167	.1466	174.7	76.68
#2	.0101	3.847	.3704	.0152	.1439	173.4	60.49
#3	.0099	3.848	.3698	.0148	.1420	173.0	61.21

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	86.71	2.396	.2198	.0119	.0872	5.150	-5.424
SDev	4.53	.029	.0010	.0016	.0015	.082	8.032
%RSD	5.219	1.205	.4609	13.13	1.749	1.595	148.1
#1	81.61	2.428	.2209	.0134	.0890	5.239	3.512
#2	90.23	2.386	.2197	.0119	.0865	5.134	-7.744
#3	88.29	2.373	.2189	.0103	.0862	5.078	-12.04

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	30.73	13.08	-.0009	1.094	.0160	18.730	1.745
SDev	3.84	.10	.0004	.102	.0023	4.904	.012
%RSD	12.50	.7724	43.63	9.318	14.31	26.181	.7049
#1	26.33	13.20	-.0004	1.212	.0156	24.222	1.759
#2	33.42	13.06	-.0011	1.038	.0139	17.175	1.743
#3	32.45	13.00	-.0011	1.033	.0185	14.792	1.734

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4338	.0894	79.85	18.69	-2.092
SDev	.0022	.0006	.54	1.04	2.685
%RSD	.5159	.6858	.6724	5.563	128.3
#1	.4362	.0899	79.97	18.73	-5.133
#2	.4335	.0895	80.33	19.71	-.0488
#3	.4317	.0887	79.27	17.63	-1.094

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Method: NAKFIT Sample Name: 217503 Operator: TJN
Run Time: 08/08/95 17:26:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	25.61	-3.613	1.623	4.229	.0948	.0003	.0123
SDev	.22	1.433	.678	.961	.0009	.0000	.0003
%RSD	.8420	39.67	41.76	22.73	.9984	11.45	2.373
#1	25.86	-4.959	.8768	5.273	.0959	.0003	.0125
#2	25.49	-2.106	2.201	4.035	.0944	.0003	.0120
#3	25.49	-3.772	1.793	3.380	.0942	.0003	.0125

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0014	1.444	.0832	-.0002	.0157	14.96	36.78
SDev	.0002	.012	.0001	.0002	.0004	.08	3.10
%RSD	13.58	.8297	.1460	110.2	2.547	.5215	8.427
#1	.0016	1.432	.0832	-.0000	.0162	14.93	37.82
#2	.0013	1.444	.0831	-.0001	.0155	14.90	39.22
#3	.0012	1.456	.0833	-.0004	.0154	15.05	33.29

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	28.84	.7719	.0509	.0027	.0083	4.558	-18.30
SDev	.28	.0074	.0002	.0006	.0007	.069	.44
%RSD	.9660	.9591	.4410	22.19	8.144	1.511	2.393
#1	28.57	.7804	.0508	.0026	.0082	4.637	-17.98
#2	28.82	.7679	.0507	.0034	.0077	4.528	-18.12
#3	29.12	.7673	.0511	.0022	.0090	4.509	-18.80

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	12.75	12.46	-.0001	1.067	.0030	2.2879	1.263
SDev	1.63	.05	.0001	.070	.0019	1.2974	.004
%RSD	12.78	.4291	60.55	6.562	62.74	56.706	.3107
#1	14.42	12.51	-.0001	1.110	.0010	2.8489	1.267
#2	12.66	12.41	-.0001	1.105	.0034	3.2104	1.259
#3	11.17	12.44	-.0002	.9861	.0048	.80444	1.263

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0819	.0255	31.48	2.411	-.1199
SDev	.0001	.0002	.90	1.223	.9180
%RSD	.1320	.8228	2.851	50.70	765.6
#1	.0819	.0254	31.65	3.633	-1.066
#2	.0819	.0254	32.28	2.412	.7668
#3	.0821	.0258	30.51	1.188	-.0602

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Method: NAKFIT Sample Name: 217504 Operator: TJN
Run Time: 08/08/95 17:31:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	200.0	-12.29	5.495	40.77	.4428	.0026	.0169
SDev	1.9	3.17	3.088	2.27	.0051	.0001	.0008
%RSD	.9488	25.78	56.20	5.558	1.155	3.401	4.673
#1	201.8	-15.93	8.986	43.35	.4476	.0027	.0177
#2	200.2	-10.74	3.120	39.11	.4434	.0026	.0167
#3	198.0	-10.19	4.378	39.84	.4374	.0025	.0161

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0097	4.038	.3482	.0110	.1362	176.6	126.3
SDev	.0002	.015	.0014	.0001	.0020	.9	3.5
%RSD	2.266	.3727	.3951	1.038	1.466	.5138	2.787
#1	.0100	4.029	.3484	.0109	.1383	177.1	129.4
#2	.0095	4.055	.3495	.0112	.1362	177.2	126.9
#3	.0096	4.029	.3468	.0110	.1343	175.6	122.5

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	142.2	2.622	.1469	.0087	.0799	6.515	-8.200
SDev	4.1	.031	.0008	.0003	.0011	.110	3.129
%RSD	2.864	1.188	.5289	3.972	1.361	1.692	38.16
#1	137.6	2.650	.1475	.0091	.0812	6.631	-5.221
#2	145.1	2.628	.1472	.0086	.0793	6.502	-11.46
#3	144.0	2.589	.1460	.0084	.0792	6.412	-7.920

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	30.19	8.929	-.0009	1.193	.0160	13.382	1.569
SDev	2.50	.076	.0003	.048	.0027	3.252	.012
%RSD	8.288	.8497	35.19	3.983	16.94	24.301	.7776
#1	33.07	8.991	-.0005	1.245	.0128	12.097	1.579
#2	28.71	8.951	-.0010	1.183	.0174	10.968	1.573
#3	28.78	8.844	-.0011	1.151	.0176	17.080	1.555

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.3485	.0899	136.9	17.40	-.4266
SDev	.0021	.0001	2.1	2.60	1.0929
%RSD	.6121	.0803	1.542	14.95	256.2
#1	.3502	.0899	134.9	20.32	.6885
#2	.3492	.0898	139.1	15.33	-1.496
#3	.3461	.0900	136.8	16.56	-.4724

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Method: NAKFIT Sample Name: 216868 Operator: TJN
Run Time: 08/08/95 17:36:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	340.1	-19.96	11.28	121.3	2.835	.0171	.0873
SDev	1.9	7.96	6.46	5.0	.018	.0001	.0003
%RSD	.5453	39.86	57.24	4.086	.6416	.5453	.3404
#1	342.2	-29.07	18.14	124.6	2.856	.0172	.0872
#2	339.2	-16.45	5.321	123.7	2.825	.0171	.0870
#3	338.8	-14.37	10.38	115.6	2.823	.0170	.0876

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.275	56.07	.5379	.3371	12.14	436.3	847.0
SDev	.011	.22	.0034	.0027	.10	2.0	16.2
%RSD	.4724	.3859	.6303	.7873	.8091	.4637	1.916
#1	2.286	56.25	.5412	.3399	12.25	438.3	865.6
#2	2.274	56.14	.5381	.3368	12.08	436.3	839.0
#3	2.265	55.83	.5344	.3347	12.08	434.2	836.3

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	863.7	71.48	19.49	3.404	4.454	49.56	6464.
SDev	8.3	.49	.08	.018	.024	.38	63.
%RSD	.9613	.6846	.4118	.5312	.5481	.7592	.9796
#1	854.4	72.03	19.57	3.424	4.478	49.99	6535.
#2	866.3	71.32	19.48	3.401	4.453	49.28	6446.
#3	870.3	71.10	19.41	3.388	4.429	49.42	6413.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	6584.	2.288	.0022	1.959	.1910	34.910	.5452
SDev	10.	.025	.0006	.115	.0054	4.683	.0022
%RSD	.1534	1.100	26.90	5.857	2.820	13.413	.3999
#1	6594.	2.316	.0027	2.083	.1963	31.340	.5474
#2	6574.	2.282	.0022	1.935	.1910	33.179	.5452
#3	6586.	2.266	.0016	1.858	.1856	40.212	.5431

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5528	2.652	858.1	6544.	.8771
SDev	.0018	.014	.9	26.	2.434
%RSD	.3312	.5240	.1049	.3945	277.5
#1	.5548	2.667	858.1	6574.	2.420
#2	.5525	2.649	857.2	6531.	-1.929
#3	.5512	2.639	859.0	6528.	2.141

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Method: NAKFIT Sample Name: 216869 Operator: TJN
Run Time: 08/08/95 17:41:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	386.5	-16.55	20.14	131.0	3.206	.0213	.0891
SDev	2.5	9.50	4.38	2.2	.029	.0001	.0007
%RSD	.6545	57.43	21.76	1.701	.9191	.3598	.7863
#1	389.4	-27.52	25.02	132.8	3.240	.0214	.0896
#2	385.3	-10.91	18.83	128.5	3.193	.0213	.0883
#3	384.8	-11.21	16.56	131.7	3.185	.0212	.0894

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1034	67.06	.7918	.3850	H36.02	490.8	3385.
SDev	.0011	.13	.0008	.0008	.35	.7	19.
%RSD	1.097	.1919	.1024	.2201	.9776	.1513	.5640
#1	.1047	66.93	.7922	.3857	H36.42	491.7	3408.
#2	.1028	67.04	.7908	.3852	H35.91	490.4	3375.
#3	.1026	67.19	.7923	.3841	H35.74	490.4	3374.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	3356.	67.20	H21.92	.0361	1.649	51.71	18.37
SDev	20.	.34	.02	.0025	.002	.81	11.24
%RSD	.6005	.4995	.1016	6.873	.1136	1.559	61.20
#1	3333.	67.57	H21.94	.0389	1.651	52.63	31.33
#2	3366.	67.13	H21.90	.0354	1.648	51.39	11.13
#3	3369.	66.91	H21.92	.0341	1.648	51.12	12.66

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	50.27	7.019	.0097	2.363	.8745	39.181	.8026
SDev	2.83	.008	.0001	.134	.0055	4.141	.0030
%RSD	5.629	.1172	1.006	5.691	.6247	10.568	.3777
#1	47.05	7.024	.0098	2.506	.8807	40.188	.8059
#2	52.35	7.010	.0097	2.346	.8725	34.630	.8017
#3	51.41	7.024	.0096	2.239	.8704	42.726	.8001

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.6550	8.624	3366.	39.65	7.922
SDev	.0018	.003	7.	1.88	.877
%RSD	.2720	.0294	.2107	4.729	11.07
#1	.6570	8.627	3357.	41.81	7.529
#2	.6536	8.622	3369.	38.62	8.927
#3	.6543	8.624	3370.	38.51	7.311

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Method: NAKFIT Sample Name: 216870 Operator: TJN
Run Time: 08/08/95 17:46:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	172.3	2.949	17.97	268.6	.9778	.0067	.0660
SDev	1.4	4.825	4.35	2.6	.0093	.0001	.0002
%RSD	.7834	163.6	24.22	.9623	.9514	1.148	.2809
#1	173.8	-2.467	22.61	271.1	.9869	.0067	.0662
#2	172.1	4.525	13.98	268.7	.9781	.0066	.0659
#3	171.1	6.789	17.32	265.9	.9683	.0067	.0660

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1763	H982.2	.7140	.1506	H38.50	239.0	2618.
SDev	.0013	6.3	.0042	.0019	.28	1.4	21.
%RSD	.7512	.6420	.5844	1.282	.7295	.5792	.8094
#1	.1774	H988.2	.7188	.1525	H38.83	240.3	2641.
#2	.1748	H975.7	.7110	.1487	H38.33	237.5	2599.
#3	.1767	H982.8	.7121	.1506	H38.36	239.1	2615.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	2590.	86.36	3.427	.0192	1.024	26.61	-7.327
SDev	13.	.75	.019	.0003	.010	.31	2.954
%RSD	.5131	.8728	.5592	1.699	.9663	1.171	40.31
#1	2575.	86.98	3.448	.0188	1.034	26.86	-4.322
#2	2600.	85.52	3.411	.0193	1.014	26.71	-10.23
#3	2595.	86.58	3.423	.0194	1.024	26.26	-7.434

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	23.52	9.235	.0192	2.166	1.346	15.357	.4186
SDev	.22	.077	.0006	.197	.009	2.146	.0028
%RSD	.9170	.8377	3.241	9.079	.6835	13.972	.6734
#1	23.35	9.299	.0199	2.391	1.354	13.115	.4218
#2	23.44	9.149	.0187	2.076	1.336	17.391	.4178
#3	23.76	9.256	.0190	2.030	1.348	15.566	.4163

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.2796	5.535	2600.	13.24	12.97
SDev	.0015	.042	2.	.96	1.86
%RSD	.5376	.7580	.0877	7.241	14.37
#1	.2813	5.570	2597.	14.13	14.26
#2	.2784	5.488	2600.	12.23	10.83
#3	.2791	5.546	2602.	13.37	13.81

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Method: NAKFIT Sample Name: 216871 Operator: TJN
Run Time: 08/08/95 17:51:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	260.4	4.226	32.78	504.5	1.681	.0105	.0883
SDev	3.2	7.707	1.38	1.7	.024	.0002	.0015
%RSD	1.230	182.4	4.222	.3345	1.448	1.930	1.654
#1	264.1	-1.275	34.26	506.1	1.709	.0107	.0893
#2	258.9	13.04	31.52	504.6	1.668	.0104	.0889
#3	258.2	.9175	32.56	502.7	1.666	.0103	.0866

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.4788	H586.2	1.567	.2078	H59.58	357.6	3843.
SDev	.0046	3.2	.010	.0018	.85	2.7	44.
%RSD	.9659	.5491	.6148	.8631	1.422	.7662	1.138
#1	.4836	H589.0	1.577	.2097	H60.55	360.4	3893.
#2	.4785	H586.9	1.567	.2076	H59.22	357.4	3825.
#3	.4744	H582.7	1.558	.2061	H58.98	355.0	3811.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	3783.	91.57	6.060	.0432	2.117	34.79	1.064
SDev	7.	1.06	.045	.0014	.018	.69	6.569
%RSD	.1834	1.161	.7387	3.189	.8667	1.975	617.4
#1	3780.	92.69	6.107	.0443	2.135	35.58	8.604
#2	3791.	91.45	6.055	.0416	2.117	34.39	-3.423
#3	3778.	90.58	6.018	.0436	2.098	34.40	-1.988

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	31.39	10.90	.0247	2.093	2.131	15.704	.7909
SDev	4.82	.06	.0003	.266	.018	1.923	.0081
%RSD	15.34	.5336	1.322	12.69	.8482	12.247	1.031
#1	26.10	10.96	.0251	2.383	2.152	17.925	.8003
#2	35.52	10.86	.0244	2.035	2.124	14.578	.7870
#3	32.56	10.86	.0247	1.861	2.118	14.608	.7855

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4085	8.370	3803.	21.29	23.27
SDev	.0033	.055	14.	1.16	1.82
%RSD	.8078	.6598	.3745	5.429	7.836
#1	.4123	8.419	3818.	20.28	22.43
#2	.4072	8.380	3802.	22.55	25.37
#3	.4060	8.310	3789.	21.06	22.02

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Method: NAKFIT Sample Name: 216871D Operator: TJN
Run Time: 08/08/95 17:56:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	260.6	5.164	31.88	502.7	1.683	.0104	.0880
SDev	3.7	7.672	3.96	11.4	.025	.0002	.0003
%RSD	1.414	148.6	12.44	2.267	1.468	2.151	.3156
#1	264.6	-2.040	36.40	514.8	1.711	.0107	.0877
#2	259.9	4.301	30.23	501.0	1.676	.0104	.0882
#3	257.3	13.23	29.00	492.2	1.663	.0102	.0881

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.4768	H585.5	1.563	.2073	H59.51	356.5	3815.
SDev	.0054	5.5	.016	.0024	1.04	4.2	68.
%RSD	1.139	.9311	1.002	1.155	1.741	1.166	1.776
#1	.4822	H590.2	1.578	.2099	H60.63	360.6	3884.
#2	.4766	H586.7	1.566	.2070	H59.31	356.6	3812.
#3	.4714	H579.5	1.547	.2051	H58.59	352.3	3749.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	3760.	91.11	6.045	.0433	2.109	34.86	3.115
SDev	15.	1.50	.064	.0011	.025	.66	5.756
%RSD	.3985	1.642	1.056	2.508	1.175	1.901	184.8
#1	3773.	92.63	6.106	.0442	2.134	35.60	7.733
#2	3764.	91.05	6.052	.0421	2.109	34.66	-3.334
#3	3743.	89.64	5.979	.0436	2.084	34.32	4.947

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	29.21	11.00	.0248	2.088	2.130	21.346	.7923
SDev	5.02	.13	.0007	.147	.033	3.902	.0100
%RSD	17.17	1.162	2.920	7.039	1.530	18.279	1.261
#1	23.50	11.14	.0256	2.257	2.162	24.747	.8030
#2	31.23	10.99	.0247	1.994	2.133	22.204	.7906
#3	32.90	10.88	.0242	2.011	2.096	17.086	.7833

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4085	8.340	3778.	20.52	22.98
SDev	.0047	.098	32.	2.76	1.20
%RSD	1.141	1.179	.8541	13.45	5.234
#1	.4126	8.427	3810.	18.25	23.60
#2	.4094	8.359	3780.	19.72	21.60
#3	.4034	8.233	3745.	23.59	23.75

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Method: NAKFIT Sample Name: 217871S Operator: TJN
Run Time: 08/08/95 18:00:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	367.2	4202.	4198.	4083.	11.29	.2211	4.188
SDev	2.1	28.	40.	31.	.08	.0002	.009
%RSD	.5729	.6577	.9561	.7565	.7316	.0839	.2265
#1	369.6	4179.	4243.	4118.	11.38	.2213	4.198
#2	366.2	4194.	4186.	4066.	11.25	.2209	4.181
#3	365.8	4233.	4165.	4064.	11.23	.2212	4.184

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9508	119.8	4.412	2.361	H85.74	494.6	7049.
SDev	.0021	.4	.004	.002	.63	.1	68.
%RSD	.2211	.3096	.1014	.0636	.7304	.0268	.9638
#1	.9527	119.3	4.407	2.361	H86.45	494.8	7126.
#2	.9485	119.9	4.413	2.362	H85.46	494.5	7024.
#3	.9512	120.0	4.416	2.359	H85.29	494.6	6997.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	6919.	112.6	10.57	4.396	6.060	68.45	2827.
SDev	47.	.5	.00	.005	.009	1.11	26.
%RSD	.6844	.4574	.0309	.1121	.1488	1.624	.9263
#1	6877.	113.2	10.57	4.401	6.070	69.74	2857.
#2	6910.	112.4	10.57	4.396	6.052	67.86	2816.
#3	6970.	112.3	10.58	4.391	6.057	67.77	2808.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	2894.	5.404	.2704	25.47	7.525	3100.9	5.519
SDev	5.	.047	.0008	.41	.005	17.5	.018
%RSD	.1595	.8677	.3032	1.624	.0700	.56575	.3249
#1	2889.	5.456	.2713	25.93	7.530	3118.0	5.540
#2	2894.	5.389	.2701	25.37	7.520	3083.0	5.510
#3	2898.	5.366	.2698	25.12	7.524	3101.8	5.507

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	2.785	H11.84	6962.	2871.	4199.
SDev	.005	.03	16.	6.	19.
%RSD	.1839	.2439	.2256	.2056	.4588
#1	2.790	H11.81	6960.	2878.	4221.
#2	2.781	H11.86	6948.	2868.	4189.
#3	2.782	H11.85	6979.	2868.	4188.

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Method: NAKFIT Sample Name: CCV1 Operator: TJN
Run Time: 08/08/95 18:05:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.236	510.2	505.7	498.5	5.271	.1266	2.485
SDev	.018	6.8	4.0	3.6	.022	.0002	.002
%RSD	.3374	1.335	.7820	.7271	.4207	.1654	.0723
#1	5.251	517.0	509.4	499.2	5.288	.1268	2.485
#2	5.241	510.2	506.2	501.7	5.278	.1266	2.486
#3	5.217	503.3	501.5	494.6	5.246	.1264	2.483

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2433	12.60	.5017	1.239	.6581	2.633	507.3
SDev	.0005	.02	.0007	.003	.0015	.011	2.4
%RSD	.2095	.1216	.1331	.2043	.2236	.4154	.4803
#1	.2427	12.59	.5017	1.239	.6596	2.646	508.3
#2	.2437	12.62	.5024	1.241	.6580	2.627	509.1
#3	.2434	12.59	.5011	1.236	.6567	2.627	504.5

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	504.1	12.63	1.269	2.471	1.240	12.91	518.6
SDev	1.4	.04	.002	.005	.003	.08	.5
%RSD	.2725	.3435	.1287	.1878	.2582	.6342	.0981
#1	503.2	12.66	1.269	2.470	1.238	13.00	519.1
#2	505.7	12.65	1.271	2.476	1.244	12.90	518.1
#3	503.5	12.58	1.267	2.466	1.238	12.84	518.7

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	517.0	2.575	.6219	12.40	2.452	498.73	2.553
SDev	3.7	.013	.0015	.08	.003	2.88	.007
%RSD	.7235	.5013	.2425	.6832	.1313	.57845	.2890
#1	512.8	2.586	.6235	12.47	2.456	500.85	2.557
#2	519.8	2.577	.6219	12.31	2.450	499.89	2.557
#3	518.6	2.561	.6205	12.42	2.450	495.44	2.544

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.264	1.269	505.2	517.6	507.2
SDev	.001	.002	1.5	2.4	4.9
%RSD	.0755	.1586	.3002	.4546	.9659
#1	1.263	1.270	504.9	514.9	511.9
#2	1.265	1.271	506.8	519.2	507.5
#3	1.263	1.267	503.8	518.6	502.1

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 18:10:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0191	1.570	1.556	.1620	.0022	-.0002	.0103
SDev	.0096	2.384	.774	1.026	.0002	.0001	.0036
%RSD	50.06	151.9	49.71	633.0	10.62	25.01	34.38
#1	-.0091	2.334	2.450	.5468	.0024	-.0002	.0142
#2	-.0202	3.477	1.120	.9396	.0022	-.0003	.0094
#3	-.0281	-1.102	1.100	-1.000	.0019	-.0003	.0073

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0256	-.0001	.0002	.0080	.0308	-.4031
SDev	.0001	.0036	.0003	.0001	.0012	.0085	.0871
%RSD	130.9	14.20	479.3	75.60	15.36	27.50	21.61
#1	-.0000	.0292	.0002	.0003	.0093	.0400	-.4952
#2	.0000	.0256	-.0000	.0001	.0080	.0293	-.3922
#3	.0002	.0220	-.0003	.0001	.0068	.0232	-.3220

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.016	.0102	.0008	.0038	.0000	.0851	4.263
SDev	1.502	.0012	.0001	.0013	.0004	.0056	1.673
%RSD	147.8	11.35	19.00	35.08	3043.	6.533	39.23
#1	2.325	.0111	.0009	.0053	.0000	.0911	3.605
#2	-.6230	.0106	.0008	.0034	-.0004	.0839	6.165
#3	1.346	.0089	.0006	.0027	.0004	.0802	3.020

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-1.079	.0178	-.0000	.3361	.0062	4.9656	.0015
SDev	1.377	.0030	.0001	.0522	.0044	6.2317	.0006
%RSD	127.6	16.90	222.7	15.54	71.15	125.50	42.43
#1	.3791	.0200	-.0002	.3600	.0105	10.485	.0022
#2	-1.258	.0191	-.0000	.3720	.0062	6.2050	.0012
#3	-2.357	.0144	.0000	.2761	.0017	-1.7926	.0010

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0021	.5438	.7005	1.561
SDev	.0002	.0003	.9895	1.103	1.065
%RSD	53.25	14.47	182.0	157.5	68.21
#1	.0007	.0022	1.386	1.454	2.412
#2	.0002	.0022	-.5459	1.214	1.905
#3	.0004	.0017	.7911	-.5660	.3668

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Method: NAKFIT Sample Name: 216871SD Operator: TJN
Run Time: 08/08/95 18:15:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	367.6	4185.	4184.	4068.	11.40	.2201	4.196
SDev	3.8	8.	59.	43.	.15	.0011	.033
%RSD	1.041	.1900	1.417	1.057	1.321	.5066	.7888
#1	371.9	4194.	4251.	4117.	11.57	.2213	4.234
#2	365.9	4179.	4162.	4040.	11.35	.2191	4.177
#3	364.9	4182.	4138.	4047.	11.29	.2200	4.176

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9473	118.9	4.395	2.349	H86.24	494.2	7018.
SDev	.0065	.4	.018	.014	1.14	2.6	73.
%RSD	.6842	.3408	.4087	.5971	1.321	.5308	1.042
#1	.9544	119.0	4.412	2.365	H87.53	497.0	7102.
#2	.9418	118.5	4.376	2.338	H85.83	491.9	6986.
#3	.9456	119.3	4.396	2.345	H85.36	493.6	6966.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	6910.	112.7	10.53	4.375	6.042	68.24	2810.
SDev	7.	1.1	.05	.021	.034	1.52	45.
%RSD	.0974	.9423	.4381	.4724	.5544	2.225	1.618
#1	6913.	113.9	10.58	4.397	6.080	69.97	2860.
#2	6902.	112.2	10.49	4.355	6.016	67.61	2799.
#3	6914.	112.0	10.53	4.372	6.030	67.13	2772.

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	2873.	5.374	.2705	25.70	7.488	3095.1	5.531
SDev	18.	.056	.0023	.53	.054	45.6	.046
%RSD	.6295	1.033	.8649	2.072	.7227	1.4720	.8303
#1	2894.	5.436	.2732	26.31	7.547	3147.7	5.584
#2	2866.	5.356	.2692	25.46	7.440	3068.7	5.504
#3	2860.	5.329	.2692	25.33	7.478	3068.9	5.505

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	2.786	H11.66	6946.	2852.	4184.
SDev	.016	.04	26.	27.	42.
%RSD	.5790	.3075	.3733	.9515	1.004
#1	2.804	H11.67	6976.	2883.	4232.
#2	2.775	H11.62	6930.	2844.	4168.
#3	2.777	H11.69	6932.	2831.	4153.

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Method: NAKFIT Sample Name: 216872 Operator: TJN
Run Time: 08/08/95 18:20:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	325.9	33.27	68.21	639.0	1.788	.0118	.1048
SDev	5.2	5.30	4.16	13.9	.027	.0003	.0071
%RSD	1.586	15.94	6.093	2.174	1.494	2.320	6.806
#1	331.1	27.15	72.96	654.7	1.817	.0121	.1124
#2	325.8	36.10	65.26	634.2	1.782	.0119	.1038
#3	320.8	36.55	66.41	628.2	1.764	.0115	.0983

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.4609	115.1	2.164	.2484	H112.5	427.7	9038.
SDev	.0070	1.3	.027	.0045	2.1	6.1	162.
%RSD	1.530	1.126	1.245	1.803	1.826	1.416	1.791
#1	.4675	116.2	2.188	.2531	H114.7	433.2	9191.
#2	.4617	115.5	2.170	.2478	H112.3	428.6	9054.
#3	.4535	113.7	2.135	.2442	H110.6	421.2	8868.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	8864.	86.07	9.132	.0809	2.615	32.29	8.628
SDev	77.	1.68	.125	.0044	.042	.67	5.738
%RSD	.8643	1.950	1.368	5.412	1.622	2.068	66.51
#1	8903.	87.72	9.244	.0854	2.655	32.98	15.02
#2	8913.	86.11	9.156	.0805	2.620	32.25	6.930
#3	8775.	84.37	8.997	.0767	2.571	31.65	3.930

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	45.41	9.136	.0602	2.007	5.034	29.937	.8397
SDev	2.19	.094	.0009	.282	.090	2.297	.0125
%RSD	4.814	1.033	1.581	14.05	1.795	7.6734	1.488
#1	47.70	9.230	.0612	2.328	5.117	29.248	.8514
#2	43.35	9.135	.0601	1.895	5.046	32.500	.8412
#3	45.16	9.041	.0593	1.798	4.938	28.063	.8265

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4341	H11.68	8922.	33.16	56.57
SDev	.0061	.20	102.	3.17	1.08
%RSD	1.407	1.682	1.140	9.570	1.914
#1	.4403	H11.84	8999.	36.82	57.71
#2	.4340	H11.73	8960.	31.22	55.55
#3	.4280	H11.46	8806.	31.43	56.47

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Method: NAKFIT Sample Name: 216873 Operator: TJN
Run Time: 08/08/95 18:25:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	366.7	10.16	45.51	632.4	2.094	.0123	.1142
SDev	1.9	10.94	4.76	3.8	.012	.0001	.0016
%RSD	.5186	107.7	10.46	.5988	.5590	.4876	1.368
#1	368.8	-2.247	48.03	636.5	2.107	.0123	.1139
#2	366.2	18.42	40.02	631.6	2.089	.0123	.1159
#3	365.1	14.29	48.48	629.0	2.085	.0122	.1128

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.6792	167.8	2.758	.2586	H106.5	421.6	7685.
SDev	.0048	1.1	.017	.0017	.3	2.3	71.
%RSD	.7054	.6682	.6183	.6675	.3013	.5428	.9277
#1	.6835	168.7	2.772	.2595	H106.8	423.6	7766.
#2	.6800	168.3	2.761	.2597	H106.4	422.2	7658.
#3	.6740	166.6	2.739	.2566	H106.2	419.1	7632.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	7608.	86.76	9.713	.0844	3.821	45.12	14.43
SDev	48.	.24	.058	.0014	.027	.54	1.23
%RSD	.6287	.2714	.5921	1.649	.7058	1.205	8.506
#1	7575.	87.03	9.762	.0859	3.845	45.74	15.62
#2	7663.	86.64	9.726	.0843	3.827	44.87	14.50
#3	7587.	86.61	9.650	.0831	3.792	44.74	13.17

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	42.61	4.720	.0564	2.484	4.312	27.435	.6186
SDev	6.02	.008	.0002	.144	.019	10.561	.0026
%RSD	14.13	.1691	.3324	5.793	.4467	38.496	.4167
#1	36.59	4.729	.0566	2.643	4.332	38.652	.6214
#2	42.61	4.713	.0563	2.445	4.310	25.968	.6180
#3	48.64	4.718	.0562	2.363	4.294	17.683	.6164

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.5153	H12.15	7634.	33.23	33.74
SDev	.0028	.08	30.	3.61	3.01
%RSD	.5511	.6748	.3944	10.86	8.921
#1	.5182	H12.20	7639.	29.61	31.29
#2	.5151	H12.19	7661.	33.25	32.83
#3	.5125	H12.06	7602.	36.83	37.10

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Method: NAKFIT Sample Name: 216874 Operator: TJN
Run Time: 08/08/95 18:30:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	197.3	31.34	58.64	193.3	1.375	.0088	.2561
SDev	1.4	7.51	2.95	4.4	.009	.0001	.0026
%RSD	.7324	23.96	5.026	2.288	.6538	1.589	1.004
#1	198.8	22.84	62.03	196.3	1.384	.0090	.2591
#2	197.2	37.07	57.26	195.5	1.375	.0088	.2548
#3	195.9	34.12	56.64	188.2	1.366	.0087	.2545

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1436	141.1	9.934	.2357	H41.22	399.3	2517.
SDev	.0015	.7	.052	.0020	.46	2.6	23.
%RSD	1.017	.4848	.5215	.8405	1.112	.6419	.9213
#1	.1451	141.4	9.966	.2371	H41.71	401.4	2539.
#2	.1434	141.6	9.962	.2366	H41.14	400.1	2519.
#3	.1422	140.3	9.874	.2334	H40.81	396.5	2492.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	2494.	103.3	5.249	.0897	8.192	27.81	8.338
SDev	21.	1.1	.031	.0025	.061	.38	6.941
%RSD	.8529	1.103	.5962	2.775	.7453	1.360	83.25
#1	2479.	104.5	5.273	.0922	8.250	28.21	16.28
#2	2518.	103.2	5.261	.0898	8.197	27.75	3.433
#3	2484.	102.3	5.214	.0872	8.128	27.46	5.301

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	38.57	16.59	.0210	1.931	1.712	14.814	.5965
SDev	3.72	.09	.0009	.164	.015	2.238	.0033
%RSD	9.655	.5589	4.143	8.485	.8869	15.110	.5573
#1	34.38	16.68	.0220	2.117	1.727	14.619	.5996
#2	41.50	16.58	.0209	1.864	1.713	17.144	.5970
#3	39.84	16.50	.0202	1.811	1.697	12.680	.5930

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4179	7.512	2502.	28.51	49.55
SDev	.0020	.063	16.	.27	.86
%RSD	.4748	.8374	.6367	.9596	1.731
#1	.4197	7.567	2499.	28.35	48.98
#2	.4181	7.526	2519.	28.82	50.54
#3	.4158	7.444	2487.	28.34	49.14

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Method: NAKFIT Sample Name: 216875 Operator: TJN
Run Time: 08/08/95 18:35:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	435.6	-32.48	10.31	132.6	2.886	.0135	.1337
SDev	2.9	8.69	7.07	4.6	.027	.0001	.0014
%RSD	.6750	26.75	68.56	3.449	.9218	.7028	1.010
#1	438.9	-42.50	18.42	137.2	2.914	.0137	.1350
#2	434.8	-27.68	5.424	128.1	2.885	.0135	.1337
#3	433.1	-27.25	7.094	132.5	2.860	.0135	.1323

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1481	43.51	.8784	.1729	2.160	H601.5	330.8
SDev	.0014	.16	.0016	.0016	.028	1.2	6.4
%RSD	.9711	.3687	.1811	.9349	1.280	.1944	1.923
#1	.1497	43.39	.8794	.1746	2.190	H602.5	338.0
#2	.1469	43.44	.8765	.1714	2.155	H600.2	325.9
#3	.1478	43.69	.8791	.1726	2.136	H601.7	328.5

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	361.1	87.66	5.160	.0269	3.067	64.48	12.69
SDev	8.5	.50	.008	.0017	.008	1.15	11.07
%RSD	2.352	.5665	.1519	6.224	.2708	1.784	87.26
#1	351.3	88.24	5.166	.0287	3.076	65.72	24.81
#2	366.9	87.38	5.151	.0265	3.060	64.29	10.15
#3	365.0	87.38	5.162	.0255	3.066	63.44	3.107

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	49.72	4.697	.0020	2.640	.0850	33.013	.8907
SDev	7.74	.035	.0003	.116	.0048	2.916	.0039
%RSD	15.57	.7448	15.42	4.390	5.671	8.8318	.4352
#1	40.96	4.737	.0023	2.764	.0901	36.107	.8947
#2	52.58	4.682	.0017	2.535	.0805	30.316	.8904
#3	55.63	4.672	.0019	2.621	.0843	32.616	.8870

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.7278	2.546	351.0	37.39	-3.936
SDev	.0020	.008	3.6	1.58	1.897
%RSD	.2758	.3252	1.015	4.213	48.21
#1	.7302	2.554	346.9	35.58	-1.868
#2	.7268	2.537	353.2	38.45	-5.598
#3	.7265	2.545	352.8	38.14	-4.341

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Method: NAKFIT Sample Name: 216876 Operator: TJN
Run Time: 08/08/95 18:40:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	273.7	-10.24	14.07	130.8	1.288	.0093	.1311
SDev	3.2	5.04	2.07	2.9	.018	.0001	.0007
%RSD	1.171	49.22	14.71	2.237	1.375	.6860	.5111
#1	277.0	-14.05	16.37	133.4	1.306	.0094	.1309
#2	273.3	-12.15	12.35	131.3	1.285	.0093	.1318
#3	270.6	-4.525	13.48	127.6	1.271	.0092	.1305

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1006	124.2	2.346	.2013	H26.60	396.3	1732.
SDev	.0014	.3	.010	.0013	.39	2.2	18.
%RSD	1.404	.2569	.4226	.6502	1.464	.5485	1.036
#1	.1020	124.4	2.355	.2025	H27.03	398.4	1753.
#2	.1006	124.3	2.348	.2013	H26.52	396.3	1724.
#3	.0992	123.8	2.336	.1999	H26.27	394.0	1719.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1717.	102.6	9.703	.1222	2.340	33.27	3.604
SDev	12.	1.0	.054	.0027	.016	.66	4.599
%RSD	.7265	.9320	.5600	2.213	.6761	1.995	127.6
#1	1728.	103.7	9.752	.1253	2.355	33.94	4.112
#2	1720.	102.5	9.711	.1205	2.342	33.25	-1.228
#3	1703.	101.8	9.645	.1207	2.323	32.61	7.928

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	31.94	8.497	.0110	1.991	1.063	25.055	.4582
SDev	.97	.032	.0001	.163	.005	5.114	.0041
%RSD	3.040	.3783	.6914	8.204	.4265	20.412	.8976
#1	30.93	8.534	.0109	2.179	1.066	22.215	.4623
#2	32.01	8.473	.0111	1.913	1.064	30.959	.4583
#3	32.86	8.485	.0109	1.882	1.058	21.990	.4541

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4084	6.942	1722.	22.50	5.972
SDev	.0028	.034	14.	1.86	1.662
%RSD	.6934	.4890	.7918	8.265	27.83
#1	.4110	6.973	1736.	22.00	6.238
#2	.4089	6.948	1722.	20.94	4.193
#3	.4054	6.906	1709.	24.56	7.486

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Method: NAKFIT Sample Name: 216877 Operator: TJN
Run Time: 08/08/95 18:45:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	384.1	-21.43	16.21	229.0	2.845	.0185	.1255
SDev	4.9	4.24	6.21	7.5	.033	.0003	.0018
%RSD	1.275	19.77	38.34	3.255	1.166	1.867	1.453
#1	388.9	-25.70	21.56	235.1	2.879	.0188	.1262
#2	384.4	-21.38	9.392	231.2	2.843	.0186	.1268
#3	379.1	-17.22	17.68	220.7	2.812	.0181	.1234

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.3218	45.07	1.783	.2952	11.09	H546.8	987.7
SDev	.0047	.47	.019	.0034	.17	6.5	16.9
%RSD	1.462	1.053	1.080	1.147	1.527	1.185	1.706
#1	.3253	45.28	1.793	.2980	11.26	H551.1	1003.
#2	.3236	45.41	1.794	.2961	11.08	H549.9	990.6
#3	.3164	44.53	1.760	.2914	10.93	H539.4	969.6

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1009.	87.96	9.674	.0269	3.368	62.56	10.09
SDev	9.	1.27	.111	.0004	.046	1.27	2.87
%RSD	.9058	1.441	1.148	1.369	1.377	2.027	28.39
#1	1008.	89.02	9.745	.0274	3.400	63.96	13.36
#2	1019.	88.29	9.731	.0267	3.389	62.23	8.920
#3	1001.	86.56	9.546	.0268	3.315	61.49	8.003

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	44.13	2.846	.0090	3.004	.6549	29.653	.6379
SDev	6.97	.043	.0004	.144	.0086	3.233	.0062
%RSD	15.79	1.525	4.715	4.788	1.314	10.903	.9660
#1	36.16	2.887	.0093	3.164	.6627	33.353	.6432
#2	47.14	2.852	.0092	2.962	.6563	28.231	.6394
#3	49.08	2.801	.0085	2.886	.6457	27.375	.6311

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.6351	4.242	1002.	32.79	3.676
SDev	.0059	.056	10.	3.69	3.924
%RSD	.9315	1.318	1.025	11.26	106.8
#1	.6387	4.281	1006.	28.57	5.823
#2	.6384	4.266	1009.	34.41	-.8531
#3	.6283	4.178	990.3	35.40	6.058

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Method: NAKFIT Sample Name: 216878 Operator: TJN
Run Time: 08/08/95 18:49:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	256.5	-4.878	25.83	145.9	1.099	.0087	.1300
SDev	2.3	6.009	4.60	4.7	.011	.0002	.0024
%RSD	.8944	123.2	17.81	3.204	.9686	2.044	1.830
#1	258.9	-11.41	30.91	151.3	1.111	.0089	.1313
#2	256.2	-3.631	24.62	144.1	1.097	.0088	.1314
#3	254.3	.4107	21.95	142.5	1.090	.0085	.1272

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1186	204.7	2.353	.2158	H32.74	363.8	2024.
SDev	.0012	.8	.010	.0006	.44	2.1	17.
%RSD	1.022	.3952	.4429	.2982	1.349	.5714	.8233
#1	.1196	204.5	2.358	.2162	H33.21	365.1	2039.
#2	.1189	205.5	2.361	.2163	H32.67	364.9	2026.
#3	.1173	203.9	2.341	.2151	H32.34	361.4	2006.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1995.	85.78	7.521	.1331	3.284	27.49	-3.801
SDev	19.	.90	.037	.0010	.023	.40	5.591
%RSD	.9626	1.055	.4985	.7503	.6941	1.459	147.1
#1	1975.	86.65	7.542	.1342	3.302	27.94	1.841
#2	2013.	85.84	7.544	.1325	3.290	27.35	-9.340
#3	1998.	84.84	7.478	.1325	3.258	27.17	-3.906

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	36.11	12.20	.0116	2.126	1.379	21.184	.6313
SDev	5.32	.08	.0004	.114	.013	2.774	.0037
%RSD	14.72	.6581	3.264	5.368	.9475	13.093	.5876
#1	30.85	12.27	.0120	2.253	1.391	24.349	.6347
#2	36.01	12.21	.0113	2.091	1.381	19.178	.6318
#3	41.48	12.11	.0115	2.033	1.365	20.025	.6273

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.3699	7.867	2005.	22.82	15.60
SDev	.0018	.040	11.	3.08	1.07
%RSD	.4792	.5091	.5631	13.47	6.876
#1	.3716	7.890	1996.	21.19	16.81
#2	.3699	7.890	2018.	20.91	15.21
#3	.3681	7.821	2000.	26.37	14.78

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Method: NAKFIT Sample Name: 216879 Operator: TJN
Run Time: 08/08/95 18:54:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	299.8	-12.13	15.99	275.4	2.787	.0161	.1000
SDev	2.1	9.80	2.17	3.5	.022	.0003	.0015
%RSD	.7126	80.75	13.57	1.260	.7955	1.868	1.460
#1	302.1	-23.39	18.47	278.5	2.810	.0163	.1006
#2	299.5	-5.563	15.07	276.1	2.783	.0161	.1010
#3	297.9	-7.440	14.43	271.6	2.766	.0157	.0983

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.3023	H770.0	1.149	.2220	H22.86	432.8	1482.
SDev	.0023	5.6	.008	.0018	.24	3.6	23.
%RSD	.7538	.7314	.6694	.8118	1.068	.8218	1.532
#1	.3037	H771.7	1.152	.2232	H23.09	434.6	1507.
#2	.3035	H774.5	1.154	.2229	H22.87	435.2	1473.
#3	.2996	H763.7	1.140	.2199	H22.61	428.7	1464.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1471.	105.8	7.886	.0127	1.801	46.63	.8716
SDev	15.	1.2	.056	.0018	.015	.56	3.986
%RSD	1.025	1.093	.7135	14.21	.8205	1.193	457.3
#1	1456.	106.6	7.913	.0147	1.810	47.20	5.364
#2	1487.	106.3	7.924	.0115	1.809	46.08	-.5088
#3	1471.	104.5	7.822	.0117	1.784	46.61	-2.241

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	26.92	12.35	.0092	2.746	.6505	21.945	.9884
SDev	2.51	.08	.0006	.262	.0084	1.087	.0054
%RSD	9.307	.6848	7.097	9.531	1.294	4.9510	.5434
#1	25.32	12.38	.0099	3.037	.6592	22.567	.9932
#2	29.81	12.42	.0090	2.670	.6499	20.691	.9896
#3	25.64	12.26	.0087	2.531	.6424	22.578	.9826

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4798	4.681	1475.	18.25	6.627
SDev	.0039	.034	7.	1.72	1.890
%RSD	.8180	.7315	.4638	9.420	28.52
#1	.4817	4.694	1473.	18.67	4.530
#2	.4825	4.706	1482.	19.71	8.200
#3	.4753	4.642	1469.	16.36	7.150

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Method: NAKFIT Sample Name: 217871L Operator: TJN
Run Time: 08/08/95 18:59:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	55.88	2.217	7.005	107.6	.3393	.0020	.0180
SDev	.30	1.342	1.372	2.7	.0016	.0000	.0003
%RSD	.5285	60.52	19.58	2.532	.4677	.8141	1.569
#1	56.18	1.806	6.796	109.3	.3407	.0020	.0181
#2	55.87	1.129	8.470	104.5	.3396	.0021	.0177
#3	55.59	3.716	5.750	109.1	.3375	.0020	.0183

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0987	134.4	.3153	.0423	13.03	75.13	823.6
SDev	.0007	1.0	.0021	.0003	.06	.46	4.4
%RSD	.7012	.7108	.6605	.7904	.4252	.6170	.5328
#1	.0993	135.3	.3176	.0425	13.08	75.58	828.3
#2	.0988	134.4	.3149	.0425	13.03	75.14	822.9
#3	.0979	133.4	.3135	.0419	12.97	74.65	819.7

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	823.1	20.09	1.263	.0084	.4445	6.892	3.301
SDev	7.4	.12	.008	.0008	.0031	.031	.994
%RSD	.8956	.5897	.6639	9.413	.6938	.4485	30.11
#1	816.0	20.22	1.271	.0080	.4473	6.927	3.843
#2	830.7	20.08	1.263	.0093	.4451	6.870	2.154
#3	822.6	19.98	1.254	.0079	.4412	6.878	3.906

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	8.407	2.423	.0045	.7091	.4379	4.2610	.1593
SDev	2.038	.018	.0002	.0731	.0070	2.7159	.0009
%RSD	24.24	.7544	3.964	10.31	1.592	63.738	.5458
#1	8.378	2.439	.0046	.7925	.4455	3.2638	.1602
#2	6.384	2.427	.0043	.6790	.4363	2.1846	.1590
#3	10.46	2.403	.0046	.6560	.4318	7.3344	.1586

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0813	2.229	823.3	6.707	5.411
SDev	.0006	.014	4.3	1.657	.533
%RSD	.7995	.6306	.5164	24.70	9.850
#1	.0819	2.244	820.1	6.868	5.135
#2	.0813	2.228	828.1	4.975	6.026
#3	.0806	2.216	821.6	8.277	5.073

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Method: NAKFIT Sample Name: CCV1 Operator: TJN
Run Time: 08/08/95 19:04:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.157	486.0	485.0	479.9	5.281	.1205	2.393
SDev	.029	3.5	3.6	2.9	.027	.0006	.006
%RSD	.5705	.7171	.7375	.6074	.5076	.4759	.2463
#1	5.183	482.0	489.0	482.9	5.304	.1210	2.398
#2	5.162	488.5	483.5	479.8	5.289	.1207	2.395
#3	5.125	487.5	482.3	477.0	5.252	.1199	2.386

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2317	12.02	.4792	1.182	.6458	2.477	486.5
SDev	.0014	.07	.0029	.006	.0032	.028	1.4
%RSD	.6007	.5833	.6038	.5204	.5038	1.129	.2978
#1	.2326	12.06	.4805	1.187	.6489	2.503	488.1
#2	.2324	12.06	.4813	1.183	.6460	2.481	486.0
#3	.2301	11.94	.4759	1.175	.6424	2.447	485.3

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	484.7	12.37	1.217	2.354	1.181	12.71	505.4
SDev	3.0	.06	.007	.010	.005	.07	2.8
%RSD	.6197	.4551	.5359	.4361	.4432	.5885	.5616
#1	481.6	12.42	1.221	2.361	1.185	12.80	508.3
#2	487.6	12.38	1.221	2.359	1.184	12.69	505.3
#3	484.9	12.31	1.210	2.342	1.175	12.65	502.6

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	496.6	2.537	.6051	12.26	2.332	482.76	2.497
SDev	1.9	.020	.0023	.04	.006	2.34	.013
%RSD	.3866	.7906	.3819	.3175	.2389	.48573	.5153
#1	497.0	2.553	.6063	12.25	2.335	480.06	2.507
#2	498.3	2.543	.6066	12.31	2.335	484.32	2.502
#3	494.5	2.514	.6025	12.24	2.325	483.90	2.482

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.225	1.201	485.3	499.5	485.3
SDev	.007	.007	1.7	2.0	1.3
%RSD	.5533	.5474	.3440	.4030	.2740
#1	1.230	1.207	483.8	500.8	486.7
#2	1.228	1.203	487.1	500.7	485.2
#3	1.217	1.194	485.0	497.2	484.0

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 19:09:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	-.0260	.0058	.9404	-.6431	.0015	-.0002	.0085
SDev	.0055	.7941	2.081	.7126	.0001	.0001	.0028
%RSD	21.14	13730.	221.3	110.8	9.907	35.21	32.58
#1	-.0211	.5497	2.760	-.4920	.0017	-.0002	.0115
#2	-.0248	-.9054	-1.328	-.0181	.0015	-.0003	.0080
#3	-.0319	.3731	1.390	-1.419	.0014	-.0003	.0061

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.0000	.0345	-.0002	.0004	.0037	.0130	.4140
SDev	.0001	.0059	.0003	.0003	.0004	.0034	1.557
%RSD	728.4	17.10	125.1	83.55	11.34	26.18	376.0
#1	.0001	.0407	.0001	.0005	.0042	.0169	-.0854
#2	.0000	.0337	-.0003	.0000	.0035	.0109	2.159
#3	-.0002	.0290	-.0003	.0006	.0035	.0111	-.8317

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	2.479	.0056	.0003	.0030	-.0005	.0913	.6023
SDev	1.109	.0005	.0001	.0017	.0003	.0050	1.059
%RSD	44.71	9.494	21.23	55.91	51.80	5.440	175.8
#1	3.121	.0061	.0004	.0050	-.0008	.0970	1.504
#2	3.117	.0056	.0003	.0021	-.0003	.0876	.8654
#3	1.199	.0051	.0003	.0020	-.0005	.0894	-.5631

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-1.648	.0260	.0001	.3427	.0054	1.6105	.0017
SDev	1.149	.0040	.0001	.0668	.0015	1.4181	.0010
%RSD	69.72	15.30	64.58	19.48	27.20	88.055	57.70
#1	-2.540	.0302	.0002	.3975	.0071	-.01801	.0017
#2	-2.053	.0255	.0002	.3622	.0046	2.5732	.0027
#3	-.3515	.0223	.0000	.2683	.0045	2.2761	.0007

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0005	.0008	1.792	-.8984	.6294
SDev	.0003	.0003	1.160	.4167	1.647
%RSD	50.94	33.38	64.74	46.38	261.6
#1	.0002	.0010	2.054	-1.193	2.024
#2	.0007	.0009	2.798	-1.081	-1.187
#3	.0007	.0005	.5231	-.4217	1.051

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Method: NAKFIT Sample Name: 216880 Operator: TJN
Run Time: 08/08/95 19:14:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	376.1	-11.80	22.77	280.0	3.253	.0148	.1009
SDev	2.6	9.08	4.86	2.6	.022	.0001	.0011
%RSD	.6916	76.99	21.33	.9288	.6856	.8007	1.047
#1	378.7	-21.35	26.03	282.9	3.275	.0149	.1021
#2	376.2	-10.78	25.10	277.9	3.252	.0148	.1005
#3	373.5	-3.265	17.19	279.1	3.231	.0147	.1002

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2099	76.78	1.467	.2486	H45.97	431.2	3326.
SDev	.0023	.14	.002	.0019	.58	1.4	33.
%RSD	1.103	.1882	.1431	.7474	1.265	.3262	1.003
#1	.2117	76.62	1.467	.2504	H46.56	432.5	3360.
#2	.2106	76.82	1.469	.2486	H45.97	431.4	3325.
#3	.2073	76.90	1.465	.2467	H45.39	429.7	3293.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	3294.	74.08	13.64	.1202	2.782	40.96	86.25
SDev	9.	.83	.02	.0009	.011	.42	9.50
%RSD	.2590	1.116	.1291	.7866	.4039	1.017	11.01
#1	3284.	74.89	13.66	.1210	2.793	41.41	97.05
#2	3299.	74.13	13.65	.1203	2.783	40.87	79.23
#3	3299.	73.23	13.62	.1192	2.771	40.60	82.45

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	116.3	4.842	.0196	2.212	1.768	35.227	.8088
SDev	4.9	.058	.0003	.209	.005	4.490	.0042
%RSD	4.226	1.189	1.343	9.454	.3101	12.747	.5140
#1	115.2	4.896	.0199	2.451	1.774	40.393	.8114
#2	112.0	4.849	.0195	2.125	1.769	32.261	.8110
#3	121.7	4.781	.0195	2.061	1.763	33.028	.8040

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4924	8.911	3305.	106.3	11.26
SDev	.0012	.026	7.	4.5	1.64
%RSD	.2397	.2881	.1980	4.222	14.56
#1	.4933	8.936	3309.	109.1	10.25
#2	.4928	8.911	3307.	101.1	13.15
#3	.4911	8.885	3297.	108.6	10.38

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Method: NAKFIT Sample Name: 216881 Operator: TJN
Run Time: 08/08/95 19:19:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	245.5	-11.40	16.80	113.3	1.709	.0100	.2055
SDev	2.6	7.94	5.78	3.3	.018	.0001	.0024
%RSD	1.063	69.69	34.38	2.893	1.031	1.241	1.183
#1	248.3	-20.13	23.31	116.9	1.728	.0101	.2081
#2	245.2	-4.611	14.83	112.6	1.707	.0100	.2052
#3	243.1	-9.445	12.27	110.4	1.693	.0099	.2033

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1727	128.5	4.512	.1839	16.90	382.4	1210.
SDev	.0014	.5	.023	.0016	.24	2.5	14.
%RSD	.8341	.4122	.5067	.8828	1.428	.6634	1.116
#1	.1744	129.0	4.538	.1857	17.15	385.3	1224.
#2	.1718	128.0	4.495	.1825	16.88	381.1	1209.
#3	.1719	128.4	4.502	.1836	16.67	380.7	1197.

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1211.	99.48	7.548	.0471	3.135	46.24	3.416
SDev	9.	1.17	.045	.0007	.024	.78	5.499
%RSD	.7192	1.178	.5928	1.529	.7807	1.679	161.0
#1	1207.	100.8	7.600	.0474	3.163	47.02	7.492
#2	1221.	99.16	7.522	.0463	3.125	46.21	5.595
#3	1205.	98.50	7.523	.0476	3.117	45.47	-2.839

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	34.43	4.715	.0176	2.362	.6523	18.403	.8394
SDev	.64	.056	.0003	.124	.0068	3.058	.0063
%RSD	1.849	1.188	1.614	5.242	1.038	16.618	.7447
#1	34.96	4.777	.0179	2.493	.6599	16.567	.8463
#2	34.61	4.703	.0175	2.345	.6470	21.933	.8376
#3	33.72	4.667	.0173	2.248	.6500	16.708	.8342

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4441	4.892	1211.	24.10	7.413
SDev	.0032	.034	8.	2.25	2.069
%RSD	.7249	.6930	.6291	9.351	27.91
#1	.4478	4.931	1213.	25.81	8.843
#2	.4424	4.874	1217.	24.95	8.354
#3	.4421	4.872	1202.	21.55	5.041

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Method: NAKFIT Sample Name: 216883 Operator: TJN
Run Time: 08/08/95 19:24:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0446	-.4015	.2232	-.3958	.0006	-.0003	.0015
SDev	.0164	.3288	.3948	2.1898	.0001	.0000	.0001
%RSD	36.80	81.89	176.8	553.3	17.67	10.20	9.835
#1	.0264	-.0229	.4557	-2.265	.0005	-.0003	.0015
#2	.0583	-.6148	.4466	2.014	.0007	-.0003	.0016
#3	.0490	-.5668	-.2325	-.9368	.0006	-.0003	.0013

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0394	.0009	-.0003	.0086	.1300	-2.643
SDev	.0000	.0095	.0003	.0004	.0013	.0084	2.018
%RSD	35.01	24.16	36.76	155.5	14.68	6.434	76.34
#1	.0001	.0287	.0005	-.0006	.0073	.1261	-4.792
#2	.0000	.0469	.0011	-.0004	.0098	.1397	-2.350
#3	.0000	.0427	.0010	.0002	.0089	.1243	-.7880

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.842	.0300	.0025	-.0001	-.0000	.1111	.7221
SDev	.748	.0069	.0006	.0003	.0002	.0008	1.654
%RSD	40.62	23.05	21.75	402.8	911.7	.6849	229.1
#1	2.175	.0220	.0019	.0002	-.0001	.1114	.9825
#2	.9851	.0341	.0030	-.0003	.0002	.1116	-1.047
#3	2.366	.0340	.0027	-.0001	-.0001	.1102	2.231

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-1.470	.0220	-.0003	.3894	.0016	-2.1014	.0003
SDev	.888	.0035	.0003	.0560	.0018	2.7852	.0001
%RSD	60.43	15.70	75.98	14.38	113.0	132.54	27.13
#1	-2.482	.0257	-.0004	.4524	-.0005	-1.7604	.0003
#2	-1.114	.0215	-.0006	.3455	.0028	-5.0414	.0002
#3	-.8157	.0188	-.0001	.3701	.0025	.49764	.0002

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0003	.0028	.3486	-.7400	.0155
SDev	.0001	.0004	.8377	.8218	.3271
%RSD	48.83	12.92	240.3	111.1	2114.
#1	.0004	.0024	-.1449	-1.328	.2966
#2	.0002	.0031	-.1252	-1.091	.0934
#3	.0002	.0029	1.316	.1991	-.3436

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Method: NAKFIT Sample Name: ICSAB Operator: TJN
Run Time: 08/08/95 19:29:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	455.9	960.9	975.8	917.2	.5645	.4449	.0033
SDev	2.0	16.7	7.6	3.3	.0027	.0024	.0003
%RSD	.4473	1.735	.7821	.3634	.4755	.5378	10.01
#1	455.6	942.3	982.7	916.0	.5644	.4452	.0034
#2	458.1	965.7	977.1	920.9	.5673	.4471	.0029
#3	454.1	974.6	967.6	914.6	.5620	.4424	.0035

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.8591	412.9	.4493	.4451	.5836	172.1	884.7
SDev	.0049	1.9	.0018	.0035	.0030	.9	4.4
%RSD	.5721	.4606	.3915	.7800	.5102	.5199	.4988
#1	.8608	413.6	.4502	.4463	.5838	172.2	889.4
#2	.8629	414.3	.4504	.4478	.5865	172.9	884.0
#3	.8535	410.7	.4472	.4412	.5806	171.2	880.7

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	929.3	470.9	.4649	.9146	.8720	.0918	933.3
SDev	10.0	2.3	.0023	.0080	.0049	.0124	4.6
%RSD	1.079	.4951	.4880	.8699	.5597	13.49	.4969
#1	917.9	471.5	.4653	.9135	.8739	.1056	937.7
#2	936.9	472.9	.4670	.9230	.8757	.0882	933.8
#3	933.0	468.4	.4625	.9072	.8665	.0817	928.5

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	944.6	.0641	1.039	.5097	.9537	927.92	.0021
SDev	2.0	.0038	.004	.1501	.0068	12.81	.0001
%RSD	.2103	5.945	.3833	29.45	.7161	1.3807	5.057
#1	942.7	.0678	1.039	.6825	.9582	930.77	.0020
#2	944.4	.0643	1.043	.4116	.9570	939.06	.0022
#3	946.7	.0602	1.035	.4351	.9458	913.92	.0020

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.4774	.9459	914.4	940.9	970.8
SDev	.0027	.0046	5.5	.2	2.2
%RSD	.5761	.4835	.6037	.0233	.2230
#1	.4776	.9456	908.4	941.1	969.2
#2	.4801	.9506	919.3	940.9	973.3
#3	.4746	.9414	915.6	940.6	969.9

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Method: NAKFIT Sample Name: CCV1 Operator: TJN
Run Time: 08/08/95 19:34:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	5.195	479.0	474.3	463.5	5.305	.1172	2.346
SDev	.015	.4	3.8	3.3	.017	.0002	.007
%RSD	.2906	.0790	.7931	.7144	.3279	.1836	.2788
#1	5.210	479.2	477.1	466.3	5.323	.1174	2.342
#2	5.195	478.6	475.7	464.3	5.305	.1173	2.343
#3	5.180	479.3	470.0	459.9	5.288	.1170	2.353

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.2252	11.73	.4689	1.152	.6400	2.440	478.3
SDev	.0004	.02	.0005	.002	.0015	.006	4.3
%RSD	.1586	.1838	.1005	.2016	.2403	.2572	.9028
#1	.2251	11.73	.4691	1.154	.6417	2.442	482.5
#2	.2256	11.76	.4692	1.152	.6393	2.445	478.6
#3	Q.2249	11.72	.4683	1.149	.6389	2.433	473.9

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	475.4	12.24	1.191	2.295	1.152	12.57	493.0
SDev	1.4	.02	.003	.003	.003	.06	5.5
%RSD	.3024	.1892	.2220	.1447	.2377	.4996	1.114
#1	474.2	12.26	1.192	2.299	1.155	12.64	496.1
#2	477.0	12.23	1.193	2.295	1.152	12.55	496.2
#3	474.9	12.22	1.188	2.293	1.149	12.53	486.6

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	484.7	2.461	.5952	12.13	2.284	475.32	2.478
SDev	1.5	.005	.0018	.06	.006	3.62	.007
%RSD	.3110	.2039	.2950	.4927	.2712	.76119	.2725
#1	484.3	2.466	.5972	12.19	2.289	478.46	2.483
#2	486.4	2.459	.5944	12.13	2.277	476.15	2.479
#3	483.5	2.457	.5940	12.07	2.286	471.36	2.470

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	1.208	1.163	476.3	487.5	475.9
SDev	.002	.002	1.6	2.6	2.5
%RSD	.1968	.1849	.3290	.5436	.5157
#1	1.210	1.165	477.0	488.2	477.8
#2	1.208	1.164	477.5	489.7	476.7
#3	1.205	1.161	474.6	484.5	473.1

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Method: NAKFIT Sample Name: CCB Operator: TJN
Run Time: 08/08/95 19:38:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppb	ppm	ppm	ppm
Avge	.0304	.8488	.7821	.3542	.0015	-.0002	.0087
SDev	.0038	1.250	.7058	1.742	.0002	.0001	.0024
%RSD	12.53	147.3	90.25	491.8	11.32	31.52	27.30
#1	.0320	2.226	.8375	-.4792	.0017	-.0001	.0111
#2	.0331	.5354	1.459	2.356	.0016	-.0002	.0086
#3	.0260	-.2151	.0502	-.8143	.0013	-.0002	.0064

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001	.0534	-.0002	.0001	.0024	.0148	-.2180
SDev	.0001	.0050	.0001	.0003	.0001	.0023	.8855
%RSD	113.4	9.270	68.85	434.6	4.740	15.33	406.3
#1	.0002	.0582	-.0002	-.0001	.0025	.0124	-.9935
#2	.0000	.0536	-.0001	.0004	.0023	.0152	.7469
#3	.0001	.0484	-.0003	-.0001	.0025	.0168	-.4073

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.569	.0504	.0025	.0028	-.0004	.0926	3.580
SDev	1.674	.0046	.0001	.0020	.0003	.0056	.458
%RSD	106.7	9.157	1.841	70.10	80.60	6.063	12.79
#1	1.195	.0551	.0024	.0049	-.0001	.0947	3.186
#2	3.398	.0504	.0025	.0026	-.0007	.0968	4.082
#3	.1125	.0458	.0024	.0010	-.0003	.0862	3.472

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppb	ppm
Avge	-.1876	.0191	-.0000	.3580	.0038	.12534	.0013
SDev	1.8554	.0022	.0002	.0082	.0023	1.6238	.0005
%RSD	989.3	11.34	2418.	2.302	61.64	1295.5	38.40
#1	-.0389	.0174	-.0002	.3559	.0051	1.9678	.0018
#2	1.589	.0216	.0002	.3511	.0052	-.49463	.0011
#3	-2.113	.0184	.0000	.3671	.0011	-1.0971	.0009

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppb	ppb	ppb
Avge	.0005	-.0001	.9740	1.067	.8046
SDev	.0000	.0002	1.361	1.336	.7334
%RSD	1.011	214.0	139.7	125.2	91.15
#1	.0004	-.0003	.4666	1.035	1.300
#2	.0005	-.0002	2.516	2.419	1.151
#3	.0005	.0001	-.0603	-.2528	-.0379

Raw data w/ B 2109

MERCURY Chronicle: Manual/Automated

Date 8/9/95 Batch(es) 2109, 2111, 2108, ~~2109~~ NS 8/10/95 Matrix Solids, Waters

Analyst [illegible] Review [illegible]

Standards Concentration ppm	Peak Height mm (Manual)	Standard Lot No.'s
0.0	NA	Standards: MSC - 117 - 2
0.2		ICV, LCS : MSC - 117 - 4
0.5		
1.0		
5.0		
10.0		

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
1	ICV				NS 8/10/95 ~~4.06~~ CRS 8/10/95 ~~0.0041~~ 4.06
2	ICB				NS 8/10/95 ~~<0.2~~ NS 8/10/95 ~~<0.0005~~ <0.5
	CCV				NS 8/10/95 ~~0.0051~~ 5.13
	CCB				NS 8/10/95 ~~<0.0005~~ <0.5
3	CRA				NS 8/10/95 ~~0.000~~ 0.222
4	PBS 2109				<0.5
5	PBSD				<0.5
6	LCSS				4.01
7	LCSSD				4.03
8	217030				157
9	217031				13.8
10	217031D				13.8
11	217031S				15.9
12	217032				<0.5
	CCV				5.15
	CCB				<0.5
13	PBS 2111				<0.5
14	PBSD				<0.5
15	LCSS				4.09
16	LCSSD				4.07
17	216666				6.38
18	216868				<0.5

MERCURY Chronicle: Manaual/Automated

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
19	216869				1.85
20	216870				<0.5
21	216871				<0.5
22	216871D				<0.5
8/8/05 23	CCV				5.38
8/8/05 24	CCB				<0.5
8/8/05 ~~25~~ 23	216871S				2.60
8/8/05 ~~26~~ 24	216871SD				2.57
25	210315D				16.5
26	216872				0.539
27	216873				0.533
28	216874				1.87
29	216875				<0.5
30	216876				<0.5
31	216877				<0.5
32	216878				<0.5
	CCV				5.39
	CCB				<0.5
33	216879				<0.5
34	216880				<0.5
35	216881				<0.5
36	216883				<0.5
37	PBW 2108				<0.5
38	PBW Diss				<0.5
39	LCSW				4.17
40	LCSW Diss				4.15
41	217008				<0.5
42	217116 TOT				<0.5

MERCURY Chronicle: Manaual/Automated

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
8/8/95	CCV				5.47
	CCB				<0.5
43	217117 TOT				<0.5
44	217118 TOT				<0.5
1	217119 TOT				<0.5
2	217119D TOT				<0.5
3	2171195 TOT				2.33
4	217120 TOT				<0.5
5	217122 TOT				<0.5
6	217123 TOT				<0.5
7	217124 TOT				<0.5
8	217116 Diss				<0.5
8/8/95	CCV				5.44
8/8/95	CCB				<0.5
9	217116D Diss				<0.5
10	2171165 Diss				2.26
11	217117 Diss				<0.5
12	217118 Diss				<0.5
13	217119 Diss				<0.5
14	217120 Diss				<0.5
15	217122 Diss				<0.5

SECONDARY DILUTIONS

ICM Sample ID	Preparation Initial Final	2 Volume Aliquoted	Final Volume	DF	Final Conc. ppb

MERCURY Chronicle: Manual/Automated

Date _____ Batch(es) _____ Matrix _____

Analyst _____ Review _____ :

Standards Concentration ppm	Peak Height mm (Manual)	Standard Lot No.'s	
0.0		Standards:	- -
0.2			
0.5		ICV, LCS :	- -
1.0			
5.0			
10.0			

NS 8/8/95

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
16	217123 Diss				<0.5
17	217124 Diss				<0.5
18	PBW 2112	CCV			5.43
	CCV	CCB			<0.5
	CCB				
19	217231				
20	217231 D				
21	2172315				
22	217293				
23	217296				
24	217310		See	next	
25	217313			analysis run	
26	PBW Diss			RS 8/10/95	
27	LCSW Diss				
28	LCSW TOT				
	CCV				
	CCB				
29	217343 TOT				
30	217344 TOT				
31	217344D TOT				
32	217344S TOT				
33	217345 TOT				

*** Standard: 1 Rep: 1 Seq: 20 13:37:54 08 Aug 1995 HG

Hg .000 ppb -465
Ave. Int. = -465 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 21 13:40:16 08 Aug 1995 HG

Hg .200 ppb 1398
Ave. Int. = 1398 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 22 13:42:37 08 Aug 1995 HG

Hg .500 ppb 4918

Ave. Int. = 4716 S. D. = 0

Folder: 08-09-95 Page

13:44:58 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Standard: 4 Rep: 1 Seq: 23 13:44:58 08 Aug 1995 HG

Hg 1.00 ppb 10736

Ave. Int. = 10736 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 24 13:47:20 08 Aug 1995 HG

Hg 5.00 ppb 61834
Ave. Int. = 61834 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 25 13:49:45 08 Aug 1995 HG

Hg 10.0 ppb 123744
Ave. Int. = 123744 S. D. = 0

X
d

Protocol: WATERS ICM IARS

Rev: 3.001 Time: 13:49:53 08 Aug 1995

Folder: 08-09-95 Seq: 26 Print: On

User: Batch: Id: Standard Cup: 1 of 6 Vol: 0.30 ml

State: Idle Macro CAL245 F1: F3 Print Wait: Off Autosampler: On

CALIBRATION: Line Calibration

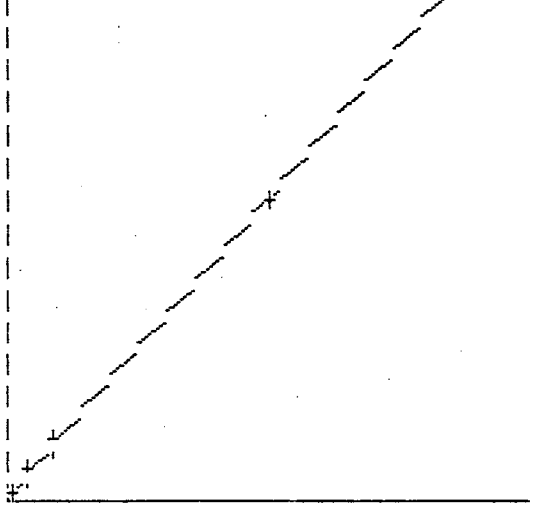
Not Accepted

	Conc.	Calc.	Dev.	Linear
S1	.000	.050	.050	Quadratic
S2	.200	.199	-.001	WtdLinear
S3	.500	.481	-.019	
S4	1.00	.946	-.054	Accept
S5	5.00	5.03	.035	
S6	10.0	9.99	-.012	StdAdd

A .0000000 r .999956

m 0.00000[illegible] c 0.[illegible]

b 0.000[illegible] u 0.[illegible]



Relative Absorbance

	Mean	%RSD	
S1	-465	0	-465
S2	1598	0	1598
S3	4040	0	4040
S4	10736	0	10736
S5	61834	0	61834
S6	123744	0	123744

Folder: 08-09-95 Page

13:52:34 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: ICV Seq: 26 13:52:34 08 Aug 1995 HG

Hg 4.06 ppb .000 4.06

*** Sample ID: ICB Seq: 27 13:55:00 08 Aug 1995 HG

*** Check Standard: 2 Ck2 Seq: 28 13:57:18 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	5.13	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 29 13:59:47 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.016	.200	ppb	.000

*** Sample ID: CRA Seq: 30 14:02:04 08 Aug 1995 HG

Hg .222 ppb .000 .222

*** Sample ID: PBS 2109 Seq: 31 14:04:20 08 Aug 1995 HG

Hg .053 ppb .000 .053

*** Sample ID: PBSD Seq: 32 14:06:36 08 Aug 1995 HG

Hg .052 ppb .000 .052

*** Sample ID: LCSS Seq: 33 14:08:52 08 Aug 1995 HG

Hg 4.01 ppb .000 4.01

*** Sample ID: LCSD Seq: 34 14:11:19 08 Aug 1995 HG

Hg 4.03 ppb .000 4.03

*** Sample ID: 217030 Seq: 35 14:13:41 08 Aug 1995 HG

Hg 157. ppb .000 157.

*** Sample ID: 217031 Seq: 36 14:17:19 08 Aug 1995 HG

Hg 13.8 ppb .000 13.8

*** Sample ID: 217031D Seq: 37 14:19:46 08 Aug 1995 HG

Hg 13.8 ppb .000 13.8.

Folder: 08-09-95 Page
14:22:13 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 217031S Seq: 38 14:22:13 08 Aug 1995 HG

Hg 15.9 ppb .000 15.9

*** Sample ID: 217032 Seq: 39 14:24:43 08 Aug 1995 HG

Hg .643 ppb .000 .643

*** Check Standard: 2 Ck2 Seq: 40 14:27:01 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	5.15	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 41 14:29:23 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.000	.200	ppb	.000

*** Sample ID: PBS 2111 Seq: 42 14:31:39 08 Aug 1995 HG

Hg .056 ppb .000 .056

*** Sample ID: PBSD Seq: 43 14:33:54 08 Aug 1995 HG

Hg .015 ppb .000 .015

*** Sample ID: LCSS Seq: 44 14:36:09 08 Aug 1995 HG

Hg 4.09 ppb .000 4.09

*** Sample ID: LCSD Seq: 45 14:38:36 08 Aug 1995 HG

Hg 4.07 ppb .000 4.07

*** Sample ID: 216666 Seq: 46 14:40:54 08 Aug 1995 HG

Hg 6.38 ppb .000 6.38

*** Sample ID: 216868 Seq: 47 14:43:12 08 Aug 1995 HG

Hg .348 ppb .000 .348

*** Sample ID: 216869 Seq: 48 14:45:27 08 Aug 1995 HG

Hg 1.85 ppb .000 1.85

*** Sample ID: 216870 Seq: 49 14:47:41 08 Aug 1995 HG

Hg .432 ppb .000 .432

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14:49:55 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 216871 Seq: 50 14:49:55 08 Aug 1995 HG

Hg .428 ppb .000 .428

*** Sample ID: 216871D Seq: 51 14:52:10 08 Aug 1995 HG

Hg .436 ppb .000 .436

*** Check Standard: 2 Ck2 Seq: 52 14:54:28 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		108.	5.38	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 53 14:56:49 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.014	.200	ppb	.000

*** Sample ID: 216871S Seq: 54 14:59:05 08 Aug 1995 HG

Hg 2.60 ppb .000 2.60

*** Sample ID: 216871SD Seq: 55 15:01:18 08 Aug 1995 HG

Hg 2.57 ppb .000 2.57

*** Sample ID: 216031SD Seq: 56 15:03:31 08 Aug 1995 HG

Hg 16.5 ppb .000 16.5

*** Sample ID: 216872 Seq: 57 15:05:54 08 Aug 1995 HG

Hg .539 ppb .000 .539

*** Sample ID: 216873 Seq: 58 15:08:07 08 Aug 1995 HG

Hg .533 ppb .000 .533

*** Sample ID: 216874 Seq: 59 15:10:20 08 Aug 1995 HG

Hg 1.87 ppb .000 1.87

*** Sample ID: 216875 Seq: 60 15:12:33 08 Aug 1995 HG

Hg .154 ppb .000 .154

*** Sample ID: 216876 Seq: 61 15:14:46 08 Aug 1995 HG

Hg .258 ppb .000 .258

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15:17:00 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 216877 Seq: 62 15:17:00 08 Aug 1995 HG

Hg .239 ppb .000 .239

*** Sample ID: 216878 Seq: 63 15:19:14 08 Aug 1995 HG

*** Check Standard: 2 Ck2 Seq: 64 15:21:31 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		108.	5.39	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 65 15:23:52 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.023	.200	ppb	.000

*** Sample ID: 216879 Seq: 66 15:26:09 08 Aug 1995 HG

Hg .245 ppb .000 .245

*** Sample ID: 216880 Seq: 67 15:28:22 08 Aug 1995 HG

Hg .333 ppb .000 .333

*** Sample ID: 216881 Seq: 68 15:30:34 08 Aug 1995 HG

Hg .219 ppb .000 .219

*** Sample ID: 216883 Seq: 69 15:32:46 08 Aug 1995 HG

Hg .094 ppb .000 .094

*** Sample ID: PBW 2108 Seq: 70 15:34:59 08 Aug 1995 HG

Hg .059 ppb .000 .059

*** Sample ID: PBW Diss Seq: 71 15:37:12 08 Aug 1995 HG

Hg .067 ppb .000 .067

*** Sample ID: LCSW Seq: 72 15:39:25 08 Aug 1995 HG

Hg 4.17 ppb .000 4.17

*** Sample ID: LCSW Diss Seq: 73 15:41:43 08 Aug 1995 HG

Hg 4.15 ppb .000 4.15

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15:44:02 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 217008 Seq: 74 15:44:02 08 Aug 1995 HG

Hg .067 ppb .000 .067

*** Sample ID: 217116 Tot Seq: 75 15:46:16 08 Aug 1995 HG

*** Check Standard: 2 Ck2 Seq: 76 15:48:32 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.	5.47	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 77 15:50:56 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.036	.200	ppb	.000

*** Sample ID: 217117 Tot Seq: 78 15:53:12 08 Aug 1995 HG

Hg .218 ppb .000 .218

*** Sample ID: 217118 Tot Seq: 79 15:55:25 08 Aug 1995 HG

Hg .127 ppb .000 .127

*** Sample ID: 217119 Tot Seq: 80 15:57:39 08 Aug 1995 HG

Hg .117 ppb .000 .117

*** Sample ID: 217119D To Seq: 81 15:59:53 08 Aug 1995 HG

Hg .123 ppb .000 .123

*** Sample ID: 217119S To Seq: 82 16:02:07 08 Aug 1995 HG

Hg 2.33 ppb .000 2.33

*** Sample ID: 217120 Tot Seq: 83 16:04:21 08 Aug 1995 HG

Hg .093 ppb .000 .093

*** Sample ID: 217122 Tot Seq: 84 16:06:35 08 Aug 1995 HG

Hg .108 ppb .000 .108

*** Sample ID: 217123 Tot Seq: 85 16:08:49 08 Aug 1995 HG

Hg .103 ppb .000 .103

Folder: 08-09-95 Page
16:11:03 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 217124 Tot Seq: 86 16:11:03 08 Aug 1995 HG

Hg .111 ppb .000 .111

*** Sample ID: 217116 Dis Seq: 87 16:13:17 08 Aug 1995 HG

Hg .094 ppb .000 .094

*** Check Standard: 2 Ck2 Seq: 88 16:15:34 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.	5.44	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 89 16:17:55 08 Aug 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.039	.200	ppb	.000

*** Sample ID: 217116D Di Seq: 90 16:20:11 08 Aug 1995 HG

Hg .098 ppb .000 .098

*** Sample ID: 217116S Di Seq: 91 16:22:25 08 Aug 1995 HG

Hg 2.26 ppb .000 2.26

*** Sample ID: 217117 Dis Seq: 92 16:24:39 08 Aug 1995 HG

Hg .107 ppb .000 .107

*** Sample ID: 217118 Dis Seq: 93 16:26:54 08 Aug 1995 HG

Hg .113 ppb .000 .113

*** Sample ID: 217119 Dis Seq: 94 16:31:11 08 Aug 1995 HG

Hg .113 ppb .000 .113

*** Sample ID: 217120 Dis Seq: 95 16:33:27 08 Aug 1995 HG

Hg .098 ppb .000 .098

*** Sample ID: 217122 Dis Seq: 96 16:35:44 08 Aug 1995 HG

Hg .121 ppb .000 .121

*** Sample ID: 217123 Dis Seq: 97 16:38:00 08 Aug 1995 HG

Hg .116 ppb .000 .116

Folder: 08-09-95 Page

16:40:16 08 Aug 1995 Protocol: WATERS ICM LABS

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

*** Sample ID: 217124 Dis Seq: 98 16:40:16 08 Aug 1995 HG

Hg .091 ppb .000 .091

*** Check Standard: 2 Ck2 Seq: 99 16:42:34 08 Aug 1995 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD

ICP Standard Preparation Log

Units: mg/L

8/8/95

Analyst [signature]

ber ____ ISF - 153 -1
d Name __ Std1/Blank/ICB/CCB
Volume __ 500mL __
vatives __ 25mL HCl
__ 5.0mL HNO

TRACE

STD 2

STD 3

ber ____ ISF - 153 -2
d Name __ Std2
Volume __ ~~100mL~~ 200 mL
vatives __ ~~5.0mL~~ HCl 10.0
__ ~~1.0mL~~ HNO 2.0

[signature] 8/8/95

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R-17 -4
CLPP-CAL-2	~~1.5~~ 3	Sb 1000	B-R-17 -5
CLPP-CAL-3	~~1.5~~ 3	Multi	B-R-17 -6
ICM-CLP-4	1.0	Multi	B-R-17 -3

[signature] 8/8/95

ber ____ ISF - 153 -3
d Name __ CCV
Volume __ ~~200mL~~ 400 mL
vatives __ ~~10.0mL~~ HCl 20.0
__ ~~2.0mL~~ HNO 4.0

[signature] 8/8/95

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R-17 -4
CLPP-CAL-2	~~1.5~~ 3	Sb 1000	B-R-17 -5
CLPP-CAL-3	~~1.5~~ 3	Multi	B-R-17 -6
ICM-CLP-4	1.0	Multi	B-R-17 -3

[signature] 8/8/95

ber ____ ISF - 153 -4
Name __ ICV
Volume __ ~~100mL~~ 200
vatives __ ~~5.0mL~~ HCl 10.0
__ ~~1.0mL~~ HNO 2.0

[signature] 8/8/95

Stock Added	mL	Conc.	Lot Number
ICM-CLP-3	0.2	Multi	B-R-17 -7
Antimony	0.1	1000	B-R-14 -12
Silver	0.25	100	ISF-422 - 1
ICM-ICV-4	0.2	Multi	B-R-14 - 1
Thallium	0.1	1000	B-R-16 -12

ber ____ ISF - 153 -5
Name __ ICSAB
Volume __ 100mL __
vatives __ 5.0mL HCl
__ 1.0mL HNO

[signature] 8/8/95

Stck Added	mL	Conc.	Lot Number
CLPP-ICS-A	10.0	Multi	B-R-17 -11
CLPP-ICS-B	1.0	Multi	B-R-17 -12
ICSAB Int Stock	2.0	multi	ISF- 421 - 1

Mercury Standard Preparation Log

Date 8/9/95

Analyst Chi

Lot Number MS C-117 1
Std Name Hg Standards A
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Mercury	1.0	1000 mg/L	B-R-

Lot Number MS C-117 2
Std Name Hg Standards B
Final Volume 200 mL
Preservative 10.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Hg Standards B	2.0	10 mg/L	MS - -1

Working Standards Preparation

Blank = 0.0 mL Hg Standards B + 100 mL DI Water
0.0002 mg/L = 0.2 mL Hg Standards B + 100 mL DI Water
0.0005 mg/L = 0.5 mL Hg Standards B + 100 mL DI Water
0.0010 mg/L = 1.0 mL Hg Standards B + 99 mL DI Water
0.0020 mg/L = 2.0 mL Hg Standards B + 98 mL DI Water
0.0050 mg/L = 5.0 mL Hg Standards B + 95 mL DI Water (Also CCV)
0.0100 mg/L = 10.0 mL Hg Standards B + 90 mL DI Water

Initial Calibration Verifier (ICV)

Lot Number MS C-117 3
Std Name Hg ICV A
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Mercury	1.0	1000 mg/L	B-R-

Lot Number MS C-117 4
Std Name Hg ICV B
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Hg ICV A	1.0	10 mg/L	MS - -3

Working ICV Standard

0.0040 mg/L = 4.0 mL Hg ICV B + 96 mL DI Water

811 117

Page _____

08/09/95

ICM STANDARD RECEIPT

ICM Lot # - B-R-14-1
Standard - CLPR-ICS-B
Conc. - MULTI
Manufacturer - Inorganic Ventures
Mfr. Lot # - I-MEB0B134
Date Rec.- 3-18-94
Exp. Date - 4-1-95

ICM Lot # - B-R-14-2
Standard - Cobalt
Conc. - 1000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - F4127N198
Date Rec.- 3-24-94
Exp. Date - 6-30-95

ICM Lot # - B-R-14-3
Standard - Potassium
Conc. - 10,000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - N3N194IOP
Date Rec.- 3-24-94
Exp. Date - 6-30-95

ICM Lot # - B-R-14-4
Standard - Boron
Conc. - 1000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - F4105WIP48
Date Rec.- 3-24-94
Exp. Date - 6-30-95

ICM Lot # - B-R-14-5
Standard - Titanium
Conc. - 1000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - M4122LIP2
Date Rec.- 3-24-94
Exp. Date - 9-30-95
03/24/95

ICM Lot # - B-R-14-6
Standard - cadmium
Conc. - 1000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - N4148NIP25
Date Rec.- 3-24-94
Exp. Date - 9-30-95

ICM Lot # - B-R-14-7
Standard - Zinc
Conc. - 1000 ug/L
Manufacturer - Plasmachem
Mfr. Lot # - F4130N155
Date Rec.- 3-24-94
Exp. Date - 6-30-95

ICM Lot # - B-R-14-8
Standard - ICM CLP-3
Conc.- Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - J-MEB132031
Date Rec. - 5-12-94
Exp. Date - 6-1-95

ICM Lot # - B-R-14-9
Standard - ICM-ICV-4
Conc.- Multi
Manufacturer - J-MEB32029
Mfr. Lot # - Inorganic Venture
Date Rec. - 5-12-94
Exp. Date - 6-1-95

ICM Lot # - B-R-14-10
Standard - ICM-CLP-4
Conc.- MULTI
Manufacturer - Inorganic Venture
Mfr. Lot # - I-MEB032030
Date Rec. - 5-12-94
Exp. Date - 6-1-95

ICM Lot # - B-R-14-11
Standard - CLPP-CAL-1
Conc.- Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - I-MEB08147
Date Rec. - 5-12-94
Exp. Date - 6-1-95

ICM Lot # - B-R-14-12
Standard - Antimony
Conc.- 1000 ug/mL
Manufacturer - PlasmaChem
Mfr. Lot # - A4J51L0121
Date Rec. - 06/07/94
Exp. Date - 09/30/95

ok - still in use 07/07/95

ICM Lot # - B-R-14-13
Standard - Antimony
Conc.- 1000 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-BB01100
Date Rec. - 06/07/94
Exp. Date - 07/01/95

ICM Lot # - B-R-14-14
Standard - CLPR CICV-3
Conc.- multi
Manufacturer - I-MEB25014
Mfr. Lot # - Inorganic Ventures
Date Rec. - 6/28/94
Exp. Date - 7-1/95

ICM STANDARD RECEIPT

ICM Lot # - ~~B-R-15-1~~ ok
Standard - ~~CLPP CAL-2~~
Conc. - ~~Multi~~
Manufacturer - ~~Inorganic Venture~~
Mfr. Lot # - ~~J-SRO1095~~
Date Rec. - ~~6/15/94~~
Exp. Date - ~~7/1/95~~

ICM Lot # - ~~B-R-15-2~~ ok
Standard - ~~CLPP-CAL 2~~
Conc. - ~~Multi~~
Manufacturer - ~~Inorganic Venture~~
Mfr. Lot # - ~~I-MEB25009~~
Date Rec. - ~~6/15/94~~
Exp. Date - ~~7/1/95~~

ICM Lot # - B-R-15-2A ok
Standard - Mercury
Conc. - 1000 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-HG01010
Date Rec. - 07/21/94
Exp. Date - ~~08/8~~ 08/01/95
07/21/94

ICM Lot # - B-R-15-3 ok
Standard - Mercury
Conc. - 1000 ug/mL
Manufacturer - PlasmaChem
Mfr. Lot # - A4J80N129
Date Rec. - 07/21/94
Exp. Date - 09/30/95

ICM Lot # - B-R-15-4
Standard - Silver
Conc. - 1000 ug/mL
Manufacturer - PlasmaChem
Mfr. Lot # - G4J47N12
Date Rec. - 08/94
Exp. Date - 12/30/95

ICM Lot # - B-R-15-5 ok
Standard - Calcium
Conc. - 10 019 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-CA01116
Date Rec. - 9/13/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-6 ok
Standard - Aluminum
Conc. - Inorganic Ventures
Manufacturer - 10 014 ug/mL
Mfr. Lot # - J-AL02110
Date Rec. - 9/13/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-7 ok
Standard - Magnesium
Conc. - 10 056 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-MG01115
Date Rec. - 9/13/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-8
Standard - Iron
Conc. - 10 008
Manufacturer - InOrganic Ventures
Mfr. Lot # - J-FE02031
Date Rec. - 9/13/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-9
Standard - ICSA
Conc. - Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - J-MEB25057
Date Rec. - 9/16/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-10
Standard - ICSAB
Conc. - Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - J-MEB25062
Date Rec. - 9/16/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-11 ok
Standard - Molybdenum
Conc. - 1006 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - I-MO01071
Date Rec. - 9/23/94
Exp. Date - 10/1/95

ICM Lot # - B-R-15-12
Standard - Barium
Conc. - 994 ug/mL
Manufacturer - InOrganic Ventures
Mfr. Lot # - I-BA01069
Date Rec. - 9/23/94
Exp. Date - ~~10/1/94~~ 95 DK 9/23

ICM Lot # - B-R-15-13 ok
Standard - Manganese
Conc. - 998 ug/mL
Manufacturer - J-MN01112
Mfr. Lot # - Inorganic Ventures
Date Rec. - 9/23/94
Exp. Date - 10/1/95

ICM STANDARD RECEIPT

ICM Lot # - B-R-16-1
Standard - Barium
Conc. - 10 077 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-BA01086
Date Rec. - 9/23/94
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-2
Standard - Zirconium
Conc. - 1001 ug/mL
Manufacturer - J-ZR01030R
Mfr. Lot # - Inorganic Ventures
Date Rec. - 9/23/94
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-3
Standard - Copper
Conc. - 999 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-CU01101
Date Rec. - 9/23/94
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-4
Standard - Beryllium
Conc. - 1002 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - I-BE01044
Date Rec. - 9/23/94
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-5
Standard - Tin
Conc. - 1001 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - I-SN01048
Date Rec. - 9/23/94
Exp. Date - 10/1/95

ICM Lot # - B-R-16-6
Standard - Vanadium
Conc. - 1004 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-V01094
Date Rec. - 9/23/94
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-7
Standard - Silicon
Conc. - 999 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - I-SI01087
Date Rec. - 9/23/93
Exp. Date - 10/1/~~94~~ 95

ICM Lot # - B-R-16-8
Standard - Zirconium Second Source
Conc. - 1000 ug/mL
Manufacturer - PlasmaChem
Mfr. Lot # - A4J40N129
Date Rec. - 9/27/94
Exp. Date - 9/30/95

ICM Lot # - B-R-16-9
Standard - Arsenic
Conc. - 1002 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-AS01097
Date Rec. - 12/7/94
Exp. Date - 12/1/95

ICM Lot # - B-R-16-10
Standard - Lead
Conc. - ~~1000.5~~ 1005 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-PB02037
Date Rec. - 12/7/94
Exp. Date - 12/1/95

ICM Lot # - B-R-16-11
Standard - Selenium
Conc. - 1001 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-SE01062
Date Rec. - 12/7/94
Exp. Date - 12/1/95

ICM Lot # - B-R-16-12
Standard - Thallium
Conc. - 1002 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-TL01047
Date Rec. - 12/7/94
Exp. Date - 12/1/95

ICM Lot # - B-R-16-13
Standard - Nickel
Conc. - 1000 ppm
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-NI01082
Date Rec. - 30th Dec. 1994
Exp. Date - 2/1/96

ICM Lot # - B-R-16-14
Standard - Silver
Conc. - 1000 ppm
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-AG01088
Date Rec. - 30th Dec 1994
Exp. Date - 2/1/96

ICM STANDARD RECEIPT

ICM Lot # - B-R-17-1
Standard - chromium
Conc. - 1000ppm
Manufacturer - ~~inorganic~~ plasma chem
Mfr. Lot # - 04J24N17
Date Rec.- 30th Dec. 1994
Exp. Date - Jun 30th 1996

ICM Lot # - B-R-17-2
Standard - Sodium
Conc. - 1000ug/L
Manufacturer - plasmachem
Mfr. Lot # - 04J11N109
Date Rec.- 30th Dec. 1994
Exp. Date - Jun 30 1996

ICM Lot # - B-R-17-3
Standard - ICM CLP-4
Conc. - multi CR MO SI (SHITT)
Manufacturer -
Mfr. Lot # - ~~10th~~ K-MEB39117
Date Rec.- 10th Jan. 1995
Exp. Date - 2/1/96

ICM Lot # - B-R-17-4
Standard - CLPP CAL-1
Conc. - multi
Manufacturer - inorganic Venture
Mfr. Lot # - I-SB02002 JMEB
Date Rec.- 2/15/95 2/15/95 25092 2/16
Exp. Date - 3/1/96

ICM Lot # - B-R-17-5
Standard - CLPP-Cal-2
Conc. - multi (Sb)
Manufacturer - inorganic venture
Mfr. Lot # - I-SB02002
Date Rec.- 2/15/95 2/15/95 2/16
Exp. Date - 3/1/96

ICM Lot # - B-R-17-6
Standard - CLPP-CAL 3
Conc. - multi
Manufacturer - JMEB25055
Mfr. Lot # - inorganic venture
Date Rec.- 2/15/95 2/15
Exp. Date - 3/1/96

ICM Lot # - B-R-17-7
Standard ICM CLP-3
Conc. - multi
Manufacturer - inorganic venture
Mfr. Lot # - K-MEB40131
Date Rec.- 24th Feb 95 124
Exp. Date - 03/01/96

ICM Lot # - B-R-17-8
Standard - scandium
Conc.- 100 ug/ml
Manufacturer - plasmachem
Mfr. Lot # - N4J52100H
Date Rec. - 24th Feb 1995
Exp. Date - 30 march 1996

ICM Lot # - B-R-17-9
Standard - Yttrium
Conc.- 1000ug/mL
Manufacturer - J/PlasmaChem
Mfr. Lot # - 04J39N15
Date Rec. - 03/08/95
Exp. Date - 09/30/96

ICM Lot # - Lithium
Standard - 10,000ug/ml
Conc.-
Manufacturer
Mfr. Lot # -
Date Rec. -
Exp. Date -
03/28/95

ICM Lot # - B-R-17-10
Standard - Lithium
Conc.- 10,000ug/ml
Manufacturer - Inorganic Ventures
Mfr. Lot # - 9102T
Date Rec. - 03/28/95
Exp. Date - 04/01/96

ICM Lot # - CLPP-ICS-A
Standard - B-R-17-11
Conc.- multi
Manufacturer - inorganic
Mfr. Lot # - K-MEB25078
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM Lot # - B-R-17-12
Standard - CLPP-ICS-B
Conc.- multi
Manufacturer - inorganic venture
Mfr. Lot # - JMEB25062
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM Lot # - B-R-17-13
Standard - Yttrium
Conc.- 10000
Manufacturer - inorganic
Mfr. Lot # - R-409049
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM STANDARD RECEIPT

ICM Lot # - B-R-18-1
Standard - Lithium
Conc. - 10000
Manufacturer - Inorganic
Mfr. Lot # - K-LI10194R
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM Lot # - B-R-18-2
Standard - Sodium
Conc. - 10000
Manufacturer - Plasmchem
Mfr. Lot # - 04321N108
Date Rec. - 4/4/95
Exp. Date - 30 sep 1996

ICM Lot # - B-R-18-3
Standard - ICMCLP-3T-1
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42051
Date Rec. - 4/23/95
Exp. Date -

ICM Lot # - B-R-18-4
Standard - Solid LCSS
Conc. - Multi
Manufacturer - Env. Resource Ass.
Mfr. Lot # - 207
Date Rec. - ~~5/9~~ 4/95
Exp. Date - None

ICM Lot # - B-R-18-5
Standard - ICMCLP3T-2
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42052
Date Rec. - 5/95
Exp. Date - 6/96

ICM Lot # - B-R-18-6
Standard - ICM-CLP3T-1A
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42146
Date Rec. - 5/95
Exp. Date - 6/96

ICM Lot # - B-R-18-7
Standard - Arsenic
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - 04J33H10B
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-8
Standard - Thallium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J81H10B
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-9
Standard - Lead
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J8201H4
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-10
Standard - Selenium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J34H10B
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - Palladium - Matrix Mat
Standard - B-R-18-11
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - ~~L5J~~ L5J46H104 07/07/95
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-12
Standard - Cobalt
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S4J27N18
Date Rec. - 07/07/95
Exp. Date - 09/30/96

ICM Lot # - B-R-18-13
Standard - Zinc
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - M5J30N12
Date Rec. - 07/07/95
Exp. Date - 09/30/1996

ICM Lot # - B-R-18-14
Standard - Potassium
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - A5J19N13
Date Rec. - 07/07/95
Exp. Date - 09/30/96

ICM STANDARD RECEIPT

ICM Lot # - ICM ICV-4
Standard - B-R-19-9 ek 7/10
Conc. - multi
Manufacturer - Inorganic Venture
Mfr. Lot # - K-MEB44144
Date Rec.- 7/10/95
Exp. Date - 7/10/97

ICM Lot # - B-R-19-2
Standard - CLPP-CICV-3
Conc. - Multi
Manufacturer - Environmental Inorganic venture
Mfr. Lot # - KMEB25096 7/10/95
Date Rec.- 7/10/97
Exp. Date -

ICM Lot # - B-R-19-3
Standard - Lithium.
Conc. - 10000
Manufacturer - plasmachem
Mfr. Lot # - Y5J03104
Date Rec.- 6/20/95
Exp. Date - 30-sept 1996

ICM Lot # - B-R-19-4
Standard - Boron
Conc. - 1007 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-B01105
Date Rec.- 07/13/95 07/14/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-5
Standard - Copper
Conc. - J-CU02004
Manufacturer - Inorganic Ventures
Mfr. Lot # - 1007 ug/mL
Date Rec.- 07/18/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-6
Standard - Antimony
Conc. - 1004 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SB02026
Date Rec.- 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-7
Standard - Lithium
Conc. - 10,022 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-LI01094R
Date Rec.- 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-8
Standard - Mercury
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - G5J80N14
Date Rec. - 08/09/95
Exp. Date - 03/30/97

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

SAMPLING TRIP REPORT

Site Name: Haller Testing Labs

TDD No.: 02-9507-13

Sampling Dates: July 27, 1995

1. Sample Location: 336 Leland Avenue Plainfield City, New Jersey

2. Sample Descriptions: See Table 1

3. Laboratories Receiving Samples:

Sample Types	Name and Address of Laboratories
TAL Metals	Industrial Corrosion Management Inc. 1152 Route 10 Randolph, New Jersey 07869

4. Sampling Event and Shipment:

The objective for this sampling event was to confirm the presence of mercury contamination in the soil at the Haller Testing Laboratory site, in Plainfield City, Union County, New Jersey. One composite soil sample was collected at a depth of 0-1 foot from an area of exposed soil located behind the main building. This sample was analyzed for Target Analyte List (TAL) metals using EPA method SW-846 6010/7000, and delivered to Industrial Corrosion Management Inc., Randolph, New Jersey.

Air monitoring using a photo-ionization detector (PID) and a Jerome Mercury Vapor Meter were performed on site. Table 2 presents readings obtained on-site using the Jerome mercury vapor meter.

NUMBER OF SAMPLES	CONCENTRATION	MATRIX	FEDERAL EXPRESS AIR BILL #	DELIVERY DATE
1	Low	Soil	Hand Delivered	7/27/95

5. **Sampling personnel:**

Name	Affiliation	Function
Joe Filosa	Weston TAT-II	Sampling/ Sampling Point Surveying/Project Management
Andy Dziedzic	Weston TAT-II	Sampling
Greg DeAngelis	EPA-OSC	Project Direction and Coordination

6. **Additional Comments:**

Weather conditions were extremely Hot and Humid. Temperatures were in the 90° F range with a heat index of 105°.

7. **Report Prepared by: Joe Filosa** JF **Date: July 27, 1995.**
Region II TAT

8. **Report Approved by: Joe Price, ATATL** **Date: July 28, 1995.**
Region II TAT JP

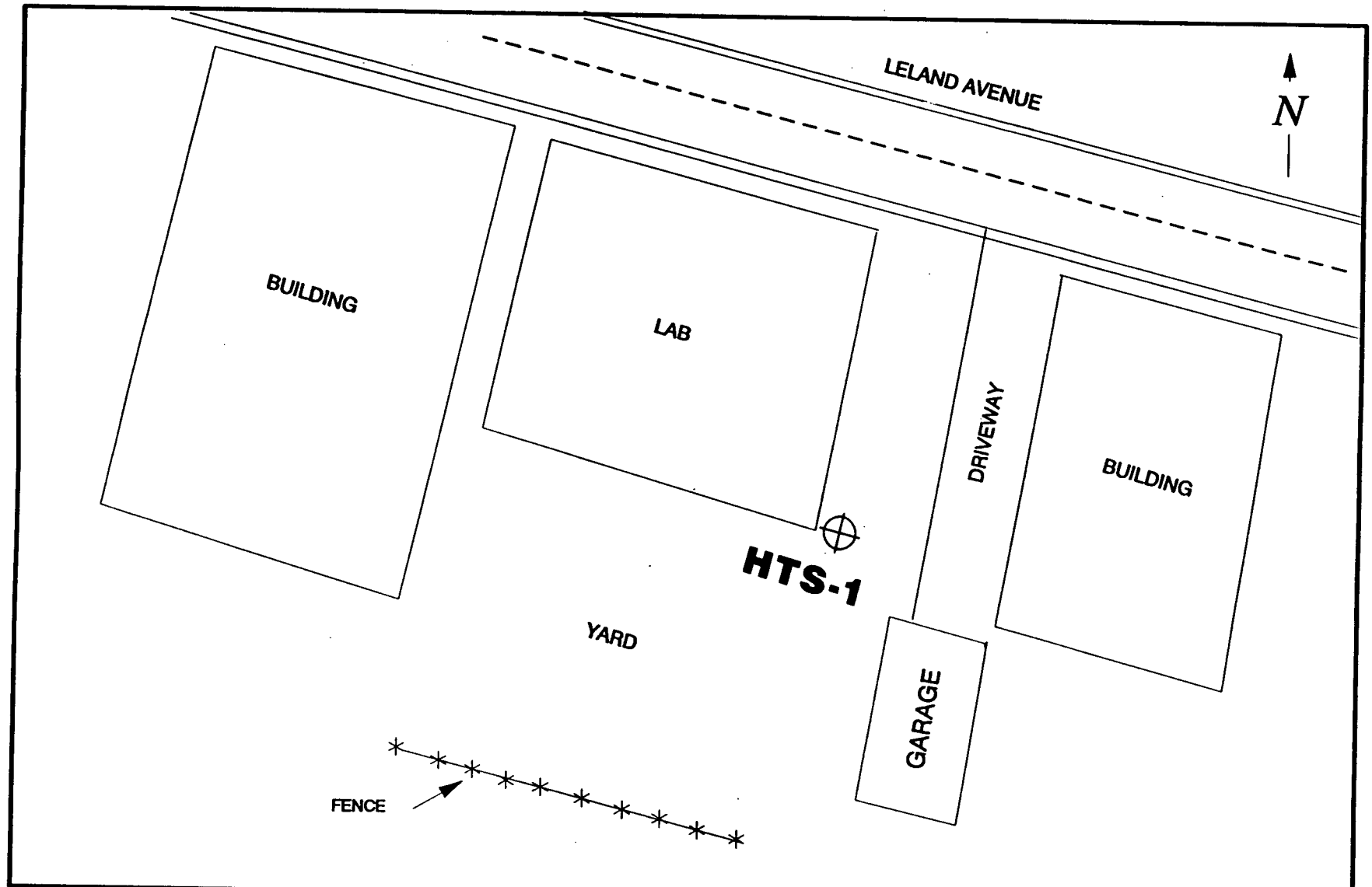
TABLE 1
HALLER TESTING LABORATORY SITE
SAMPLING DATE
July 27, 1995

Sample #	Depth	Parameter	Volume	Matrix	Comments
7/27/95					
HTS-1	0-12"	TAL Metals	8 oz.	Soil	Composite Soil Sample

TABLE 2
HALLER TESTING LABORATORY SITE
JEROME MERCURY VAPOR METER RESULTS
July 27, 1995

Location	Reading (mm/m^3 Hg)	Time
SE Corner of the Building	0.11	0920
SE Corner of the Building at Foundation	0.06	0922
Sample Location HTS-1 4" Depth	0.04	0925
East Wall of the Building	0.03	0930
Sample Location HTS-1 1' Depth	0.00	0935
Soil Spoils	0.03	0940
Head Space in Sample HTS-1	0.00	0942

FIGURES



WESTON Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION	EPA PM G. DeAngelis	**Figure** 1 Sample Location Map
IN ASSOCIATION WITH FOSTER WHEELER USA CORPORATION, C.C. JOHNSON & MALHOTRA, P.C., RESOURCE APPLICATIONS, INC., R.E. SARRIERA ASSOCIATES, AND GRB ENVIRONMENTAL SERVICES, INC.	TAT PM J. Filosa	NOT TO SCALE

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

Address verbal and written results
to the attention of Smita Sumbaly,
Analytical Coordinator.

RFP #: 0473

PO #: 16-3943

Name of Unit and Address:

WESTON MANAGERS DESIGNERS/CONSULTANTS

Suite 201
1090 King Georges Post Road, Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

Sample Number	Number of Containers	Description of Samples
HTS-1	1	1x 8oz. glass Jar for Target Analyte List (TAL) metals EPA-method SW-846 6010/7000

Sample Date: 7/27/95
0940 Am

Person Assuming Responsibility for Sample:	Time	Date
	1000	7/27/95

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All		Nutan Chale	1050	7/27/95	
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Foster Wheeler USA Corporation, Resource Applications, Inc., C.C. Johnson & Malhotra, P.C., R.E. Sarriera Associates, and GRB Environmental Services, Inc.

Page No.

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: August 31, 1995

TO: Greg Deangelis OSC,
USEPA Region II

FROM: Smita Sumbaly
TAT Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Volatiles	II B/N/A	III Pesticide	IV Metals
Acceptable as Submitted				X
Acceptable with Comments				
Unacceptable, Action Pending				
Unacceptable				

Data Reviewed by: Smita Sumbaly Date: 08/31/95

Review Authorized By: _____ Date: _____

Signature: _____

Area Code/Phone No.: (908) 225-6116

NARRATIVE

CASE No. 0473

SITE NAME: **Haller Testing Site**

Plainfield, New Jersey

Laboratory Name: Industrial Corrosion Management, Inc.

INTRODUCTION:

The laboratory's portion of this Case consisted of 01 samples collected on 07/27/95.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Metals compounds.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the forms followed.

IV. Inorganic: _____

_Y_ Data Summary/Tablulated Results
_Y_ Initial and Continuing Calibration
_Y_ Blanks
_Y_ ICP Interference Check
_N_ Spike Sample Recovery
_N_ Duplicates
_Y_ Detection Limits
_N_ Standard Addition Results
_N_ ICP Serial Dilutions
_Y_ Holding Times
_N_ ICP Interelement Correction Factors
_N_ ICP Linear Ranges
_Y_ Chain of Custody
_Y_ Raw Data
_Y_ Quantitation, Conversions, Dilutions, etc.

Comments:

1. Refer to Data Assessment Narrative.

Case #:RFP # 0473	**Site: Haller Testing**	
SDG#: HTS-1	**Lab: Industrial Corrosion Mgmt.**	**Matrix Soile: 01**
Contractor: WESTON-TAT	**Reviewer: Smita Sumbaly**	**Water: N/A**

A.2.1 Validation Flags- The following flags have been applied in red by the data validator and must be considered by the data user.

J- This flag indicates the result qualified as estimated.

Red- Line- A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data- The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers- The legend of contractual qualifiers applied by the laboratory on Form I's is found on page B-20 of SOW ILM01.0.

A.2.2 The data assessment is given below and on the attached sheets.

On July 27, 1995 USEPA Region II Technical Assistance Team (TAT) Sampling Personnel collected one (01) soil, sample for Target Analyte List inorganic parameters (TAL) analyses from the Haller Testing Site. On July 27, 1995 sample was hand delivered to Industrial Corrosion Management, Randolph, New Jersey. The laboratory verified that sample was received intact and properly preserved.

The data package was complete and the copies were of good quality. All data appear to be correctly calculated and transcribed. The results presented in this data package are acceptable as reported.

Title: Evaluation of Inorganic Data for the Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: Jan. 1992
Number: HW-2
Revision: 11

A.2.2 (continuation):

MMB/ESAT Reviewer: _____ _____
Signature Date:

Contractor Reviewer: Smita Sumbaly _____ _____
Signature Date:

Verified by: _____ _____
Signature Date:

ANALYTICAL RESULTS - METALS

Project: Haller Testing
Sampling Date: July 27, 1995

TAT PM: Joe Filosa

Sample #/Concentration (mg/kg)

Total Metals	Method Detection Limit	Soil HTS-1 (mg/kg)					
Percent Solids		90.83					
Aluminum	5.5	5500					
Antimony	1.65	U					
Arsenic	0.220	3.85					
Barium	0.550	122					
Beryllium	0.275	0.330					
Cadmium	0.275	2.09					
Calcium	11.0	27200					
Chromium	0.550	30.6					
Cobalt	0.550	3.74					
Copper	1.38	51.7					
Iron	2.75	13800					
Lead	2.75	298					
Magnesium	5.50	3290					
Manganese	0.826	193					
Mercury	0.110	1.41					
Nickel	1.38	14.9					
Potassim	110.0	1010					
Selenium	0.220	0.550					
Silver	0.550	U					
Sodium	55.0	158					
Thallium	0.440	0.606					
Vanadium	1.38	20.7					
Zinc	1.10	143					
Cyanide	NA						

N/A - Not Applicable
U - non-detected compound
J - estimated value
R - rejected value

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

AUGUST 15, 1995
17:00:43

CLIENT: ROY F. WESTON, INC.
SOURCE: Site Reference 0473

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	HTS-1
ICM Sample Number	216666
Sampling Date	07/27/95
Units	MG/KG
INORGANIC PARAMETERS (METALS)	
Aluminum	5500
Antimony	1.65 U
Arsenic	3.85
Barium	122
Beryllium	0.330
Cadmium	2.09
Calcium	27200
Chromium	30.6
Cobalt	3.74
Copper	51.7
Iron	13800
Lead	298
Magnesium	3290
Manganese	193
Mercury	1.41
Nickel	14.9
Potassium	1010
Selenium	0.550
Silver	0.550 U
Sodium	158
Thallium	0.606
Vanadium	20.7
Zinc	143

1A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 216666
Client: ROY F. WESTON, INC.
Sample source: Site Reference 0473
Sample ID: HTS-1
Sample date: 07/27/95
Sampled by: Customer
At lab date: 07/27/95
Matrix: SOIL

Percent Moisture: 9.17 %

ICP/FURNACE Initial weight: 2 g
Mercury Initial weight: 0.500g

ICP/FURNACE Final volume: 100ml
Mercury Final volume: 100 ml

Results in mg/kg dry weight basis.

Parameter	Dilution Factor	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Aluminum	1	5500	U	5.50	08/08/95
Antimony	1	U	U	1.65	08/08/95
Arsenic	1	3.85	U	0.220	08/08/95
Barium	1	122	U	0.550	08/08/95
Beryllium	1	0.330	U	0.275	08/08/95
Cadmium	1	2.09	U	0.275	08/08/95
Calcium	1	27200	U	11.0	08/08/95
Chromium	1	30.6	U	0.550	08/08/95
Cobalt	1	3.74	U	0.550	08/08/95
Copper	1	51.7	U	1.38	08/08/95
Iron	1	13800	U	2.75	08/08/95
Lead	1	298	U	2.75	08/08/95
Magnesium	1	3290	U	5.50	08/08/95
Manganese	1	193	U	0.826	08/08/95
Mercury	1	1.41	U	0.110	08/09/95
Nickel	1	14.9	U	1.38	08/08/95
Potassium	1	1010	U	110	08/08/95
Selenium	1	0.550	U	0.220	08/08/95
Silver	1	U	U	0.550	08/08/95
Sodium	1	158	U	55.0	08/08/95
Thallium	1	0.606	U	0.440	08/08/95
Vanadium	1	20.7	U	1.38	08/08/95
Zinc	1	143	U	1.10	08/08/95

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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LYNN

CHAIN OF CUSTODY RECORD

Address verbal and written results to the attention of Smita Sumbaly, Analytical Coordinator.

RFP #: 0473

PO #: 16-3943

Name of Unit and Address:

WESTON MANAGERS DESIGNERS/CONSULTANTS

Suite 201
1090 King Georges Post Road, Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

Sample Number	Number of Containers	Description of Samples
HTS-1 Lab # 216666	1	1x 8oz. glass Jar for Target Analyte List (TAL) metals EPA-method SW-846 6010/7000 Sample Date: 7/27/95 0940 Am 3.2°C Reduced Deliverables 6/7

Person Assuming Responsibility for Sample: [signature] Time: 1000 Date: 7/27/95

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All	[signature]	Nutan Chale	1050	7/27/95	RECEIPT AT LAB
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody