Roy F. Weston, Inc.
Suite 700
5599 San Felipe
Houston, Texas 77056-2721
713-621-1620 • Fax 713-621-6959

TRANSMITTAL LETTER

TO: EPA Houston Lab
10625 Fallstone Dr.
Houston, TX 77099

CLIENT/PROJECT: EPA/ARCS
WORK ORDER NUMBER: 04606-056-026-0600
RE: Wilcox Oil ESI, Bristow, Oklahoma

ATTN: Myra Perez

DATE: 4 February 1997

WESTON TRANSMITS THE FOLLOWING:

- ☐ Letter
- ☐ Report
- ☐ Calculations
- ☐ Per Your Request
- ☐ Memo
- ☐ Drawings/Specifications
- ☐ RFW Literature
- ☐ Product Literature
- ☑ Other

ITEM NO.	NO. COPIES	DESCRIPTION	ACTION
1	1	Hard Copy of analytical data for Wilcox Oil ESI (EPA CERCLIS ID #OKD001010917), Bristow, OK. (High Concentration samples)	For data validation by ESAT

REMARKS: Myra, I spoke with Christy Macdowell this afternoon about data validation by ESAT for this site. Lon Biasco has requested that ESAT validate the analytical results for: Wilcox Oil Company, Bristow, Creek County, Oklahoma (CERCLIS ID: OKD001010917). The spill ID would be ZZ. The data is for 8 samples that were analyzed for the following paramaters:

- **Total Petroleum Hydrocarbons (EPA Method 418.1, after extraction by 9071A),**
- **TCL Cyanide and metals (USEPA CLP SOW ILM03.0)**
- **TAL Volatiles and Semivolatiles (USEPA CLP Protocol OLM01.8)**

The WESTON contact for resubmissions is Chuck Maw, Weston Environmental Metrics, Inc. (708) 534-5200. Please feel free to contact me if you have any questions. Thank you!

COPIES TO: Project File (2.1)
Robert Beck
Steve Mitchell

SIGNED: Diane G. Williams
Diane G. Williams
Associate Geoscientist

9417637

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
708-534-5200 • Fax 708-534-5211

MANAGERS DESIGNERS/CONSULTANTS

January 17, 1997

Ms. Diane Williams
Roy F. Weston, Inc.
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Work Order No. 04606-056-026-0600

RE: USEPA-Wilcox Oil
RFW Lot 9611G675

Dear Ms. Williams:

Enclosed is the Analytical Report for the Project and RFW Lot Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

Weston Environmental Metrics, Inc.

Charles R. Maw
Project Manager

sj

Enclosures

Approved By:

Michael J. Healy
Vice President/Laboratory Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

WET CHEMISTRY DATA PACKAGE
USEPA - WILCOX OIL
RFW#9611G675

Laboratory Chronicle 01

Chain of Custody.....03

Data Summary 08

Case Narrative 21

Data Reporting Forms .....N/A

Raw Data 24

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
WS-01							
PETROLEUM HYDROCARBO	001	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-02							
PETROLEUM HYDROCARBO	002	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-03							
PETROLEUM HYDROCARBO	003	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-04							
PETROLEUM HYDROCARBO	004	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-05							
PETROLEUM HYDROCARBO	005	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-06							
PETROLEUM HYDROCARBO	006	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
WS-07							
PETROLEUM HYDROCARBO	007	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
PETROLEUM HYDROCARBO	007 REP	S	96GIR122	11/20/96	11/21/96	12/16/96	12/17/96
PETROLEUM HYDROCARBO	007 MS	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
WS-08							
PETROLEUM HYDROCARBO	008	S	96GIR118	11/20/96	11/21/96	12/09/96	12/12/96
LAB QC:							
PETROLEUM HYDROCARBO	LCS BS	W	96GIR118	N/A	N/A	12/09/96	12/12/96
PETROLEUM HYDROCARBO	LCS BSD	W	96GIR118	N/A	N/A	12/09/96	12/12/96
PETROLEUM HYDROCARBO	MB1	W	96GIR118	N/A	N/A	12/09/96	12/12/96
PETROLEUM HYDROCARBO	LCS BS	W	96GIR122	N/A	N/A	12/16/96	12/17/96
PETROLEUM HYDROCARBO	LCS BSD	W	96GIR122	N/A	N/A	12/16/96	12/17/96
PETROLEUM HYDROCARBO	MB1	W	96GIR122	N/A	N/A	12/16/96	12/17/96

NY CERTIFICATION # 11006

WESTON
MANAGERS DESIGNERS/CONSULTANTS

CHAIN OF CUSTODY

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9611G675

Client: USEPA-Wilcox Oil
Work Order: 04606-056-026-0600-04
Date Rec'd.: 11-21-96 Date Due: 12-12-96
RFW Contact: Chuck Maw
Client Contact/Phone: Diane Williams

Refrigerator#				5	8	8						
#/Type Container				1 1G	1 1G	1 1G						
Volume				2oz	4oz	8oz						
Preservative												
ANALYSES REQUESTED				624H	HSL Metals CN	IPHC 625H 8Sol						
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected									
001	WS-01	S	11-20-96	X	X	X						
002	WS-02											
003	WS-03											
004	WS-04											
005	WS-05											
006	WS-06											
007	WS-07											
008	WS-08											

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions:

QC + Del CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
		Sherri Scott	11-21-96	1407					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES: Fed-X

2 Ambient or Chilled
NOTES: 4.8°C + 2.9°C

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES: Date + Signature

SS 11-21-96

COC Record Was:
1 Present Upon Receipt of Samples Y N

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

RFW 21-21-001/A-12/88

7-115

4

Weston Environmental Metrics, Inc.
Internal Sample Custody Transfer Record

RFW Lot#: 9611G675 Client: USEPA-Wilcox Oil

Sample No.	Analysis	Relinquished by:	Received by:	Date	Time	Comments
1-8	624H	KNS	[illegible]	11/21/96	1450	
1-8	metals	P. Bulwt	Paul Holmgren	11-25-96	15:10	
1-8	metals	Paul Holmgren	P. Bulwt	11/26/96	15:12	
1-8	ORG. EXT	K Merkle	[illegible]	11/27/96	11:00	
1-8	ORG EXT	[illegible]	P. Bulwt	11/27/96	13:15	
1-8	CN	KNS	Bill D. W	11-30-96	9:05	
1-8	CN	Bill D W	KNS	11-30-96	13:04	
1-8	metals	P. Bulwt	Paul Holmgren	12/3/96	13:45	
1-8	metals	Paul Holmgren	KN	12/3/96	16:12	
1-8	% Sol	P. Bulwt	[illegible]	12-4-96	10.45	
1-8	% Sol	[illegible]	KNS	12-4-96	17.45	
1-8	IPHC	KN	J. Kress	12-6-96	9:05	
1-8	IPHC	J Kress	[illegible]	12-6-96	1430	sample 007 was re-extracted on 12/16 but forgot to sign out + in again. KM 1/17/97
1-8	Metal	R. Henn	[illegible]	12-6-96	18:52	
1-8	Metals	[illegible]	K Merkle	12/9/96	8:40	

RFW No. 21-2[illegible]0801/A-1/96

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: Wilcox Oil

SAMPLERS: (Signature) Eric Tate (Eric Tate)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNAs	Total Metals	TPH			REMARKS
WS-01	11/20/96	1430		X	Pond 1	3	X	X	X	X			
WS-02	11/20/96	1450		X	Pond 1	3	X	X	X	X			
WS-03	11/20/96	1310		X	Lee Residence	3	X	X	X	X			
WS-04	11/20/96	1040		X	Pond 2	3	X	X	X	X			
WS-05	11/20/96	1000		X	Pit	3	X	X	X	X			
WS-06	11/20/96	1010		X	Pit	3	X	X	X	X			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eric Tate	11/20/96 1730	FedEx - Tulsa OK			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Sherri Scott	11-21-96 1400		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

4°C

6-07435

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: Wilcox Oil

SAMPLERS: (Signature) Eric Tate (Eric Tate)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNAs	Total Metals	TPH			REMARKS
WS-07	11/20/96	1115		X	Tank Drainage Path	3	X	X	X	X			
WS-08	11/20/96	1400		X	Tank Bottom	3	X	X	X	X			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eric Tate	11/20/96 1730	FedEx - Tulsa, OK			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Sherri Scott	11-21-96 1351		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

2.9°C

6-07434

DATA SUMMARY

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-01
Project # 04606-056-026-0600
Lab ID: 9611G675-001
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	427000	mg/kg	33800

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-02
Project # 04606-056-026-0600
Lab ID: 9611G675-002
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	494000	mg/kg	29000

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-03
Project # 04606-056-026-0600
Lab ID: 9611G675-003
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	293000	mg/kg	22100

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-04
Project # 04606-056-026-0600
Lab ID: 9611G675-004
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	1370	mg/kg	406

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-05
Project # 04606-056-026-0600
Lab ID: 9611G675-005
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	875000	mg/kg	33300

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-06
Project # 04606-056-026-0600
Lab ID: 9611G675-006
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	378000	mg/kg	32700

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-07
Project # 04606-056-026-0600
Lab ID: 9611G675-007
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	85700	mg/kg	5120

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

RE: WS-08
Project # 04606-056-026-0600
Lab ID: 9611G675-008
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Petroleum Hydrocarbon	23200	mg/kg	914

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

Project # 04606-056-026-0600
Lab Batch: 9611G675

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	96GIR118-MB1	Petroleum Hydrocarbon	2.5	u	mg/L	2.5
Blank 1	96GIR122-MB1	Petroleum Hydrocarbon	2.5	u	mg/L	2.5

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

Project # 04606-056-026-0600
Lab Batch: 9611G675

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-007REP	WS-07	Petroleum Hydrocarbons	85700	82900	3.3

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

Project # 04606-056-026-0600
Lab Batch: 9611G675

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-007	WS-07	Petroleum Hydrocarbon	128000	85700	1120	NA

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Friday January 17th, 1997

Project # 04606-056-026-0600
Lab Batch: 9611G675

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
96GIR118-LCS	Petroleum Hydrocarbons	52.5	mg/L	135	120	12.0
96GIR122-LCS	Petroleum Hydrocarbons	52.5	mg/L	123	126	3.0

CASE NARRATIVE

ROY F. WESTON, INC.
ENVIRONMENTAL METRICS, INC.
WET CHEMISTRY CASE NARRATIVE

Client: USEPA - Wilcox Oil
RFW #: 9610L941

W.O. #: 04606-056-026-0600
Date Rec'd: 11/21/96

1. This narrative covers the analysis of eight samples by the following method.

   EPA Method 418.1 after extraction by 9071A

2. The EPA has not established a holding time for this method and matrix. Please refer to the laboratory chronicle page of the report for a summary of the dates of analysis.

3. Initial and continuing calibration criteria were met.

4. The method blank was below the detection limit.

5. All LCS recoveries were within statistical control limits of 85-137% recovery.

6. The matrix duplicates resulted in an RPD of 58.8%. The duplicate was repeated and an RPD of 3.3 was attained. Only the repeat duplicate is reported due to computer limitations, but the raw data contains both duplicate results. The matrix spike concentration was insignificant compared with the sample concentration.

Diane L. Harper
Wet Chemistry Section Manager

1/17/97
Date

INORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B Result is less than the CRDL, but greater than or equal to the instrument detection limit
E Result is estimated due to interference
M Analyte concentrations are greater than the CRDL, and the RSD of duplicate injections was greater than 20%
N Matrix spike recovery was outside the control limits
S Result was determined by the Method of Standard Additions (MSA)
T Analyte was found in the TCLP extraction blank and sample
U Analyte was not detected at or above the reporting limit
W Post-digestion spike was outside 85-115% control limits, sample absorbence is less than 50% of spike absorbence
+ MSA correlation coefficient is less than 0.995
* Duplicate analysis was outside the control limits

Abbreviations

A	Analyzed by flame A.A. direct aspiration
Batch	Identifies a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
C	Cyanide analyte flag on CLP form
CCB	Continuing calibration blank
CCV	Continuing calibration verification
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
CV	Analyzed by the cold vapor generation method for Mercury
Contract	Contract laboratory identification code
DF	Dilution factor
F	Analyzed by graphite furnace atomic absorption spectroscopy
ICB	Initial calibration blank
ICV	Initial calibration verification
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Weston laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
P	Analyzed by inductively coupled argon plasma
REP	Replicate analysis
RFW#	The full 12 character WESTON laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate analyses
WO#	Work order no. WESTON code used to define a specific client, job, phase and task
X	Result obtained indirectly through calculation based on results from other analyses

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilution and sample moisture content if analyzed on a dry weight basis.

RFW 21-21G-1305/A-4/96

RAW DATA

WESTON Environmental Metrics, Inc.

Date of Prep: 12/09/96
Date of Analysis: 12/12/96
Filename: GIR118
Test: IPHC
Directory: INORGANICS

Prep Batch: 96GIR118
Method: JK/KD
Analyst: E 418.1
Instrument: SPEC-IR

CALIB DATA
SLOPE: 0.971
INTERCEPT: 0.901
CORRELATION COEFF.: 0.9997

CALIB. DATA	CONC.	READING	%STD
	100.20	97.300	99.1%
	2.50	2.800	78.2%
	5.01	5.400	92.5%
	10.02	11.000	103.8%
	25.05	25.900	102.8%
	50.10	51.000	103.0%
	0.00	0.200	

RFW SAMPLE ID	TEST	INST. ABS	INITIAL RESULT	DILUTION FACTOR	C/D	RESULT	DETECTION LIMIT 2.50	UNITS	REPLICATE ORIG SAMPLE RESULT	REP % DIFF	SPIKE/LCS SPIKE 52.52 LCS 52.52	SAMPLE SPIKE AMOUNT	% RECOV	SOILS PREP PREP BATCH	INITIAL SAMPLE WT.	FINAL VOL.	% SOLIDS
96GIR118-MB1	IPHC	3.100	2.265	1	1.0000	2.265 u	2.500	MG/L						96GIR118	100	100	
96GIR118-LCS	IPHC-S	69.900	71.057	1	1.0000	71.057	2.500	MG/L	0.000		52.52	52.52	135.3	96GIR118	100	100	
96GIR118-LCS	IPHC-T	62.100	63.024	1	1.0000	63.024	2.500	MG/L	0.000	12.0	52.52	52.52	120.0	96GIR118	100	100	
9611G675-002	IPHC	42.200	42.531	100	116.0955	493763.844	29023.869	MG/KG						96GIR118	1.11	100	77.6
9611G675-003	IPHC	33.100	33.159	100	88.2768	292721.228	22069.209	MG/KG						96GIR118	1.18	100	96.0
9611G675-004	IPHC	9.100	8.444	1	162.2323	1369.846	405.581	MG/KG						96GIR118	1.15	100	53.6
9611G675-005	IPHC	64.800	65.805	100	133.0141	875296.935	33253.525	MG/KG						96GIR118	1.05	100	71.6
9611G675-006	IPHC	29.000	28.937	500	26.1413	378228.321	32676.663	MG/KG						96GIR118	5.04	100	75.9
9611G675-007	IPHC	41.500	41.810	100	20.4972	85698.640	5124.295	MG/KG						96GIR118	5.28	100	92.4
9611G675-007	IPHC-R	22.000	21.728	100	21.5159	46750.739	5378.982	MG/KG	85698.640	58.8				96GIR118	5.03	100	92.4
9611G675-007	IPHC-S	24.200	23.994	250	21.3884	128298.317	13367.726	MG/KG	85698.640		52.52	1123.31	3792.3	96GIR118	5.06	100	92.4
9611G675-008	IPHC	62.500	63.436	10	36.5754	23202.040	914.384	MG/KG						96GIR118	5.12	100	53.4
9611G675-001	IPHC	31.500	31.512	100	135.3510	426514.512	33837.741	MG/KG				4X		96GIR118	1.06	100	69.7

SS Khona Selg. 12/13/96
Diane L Harper 12/13/96

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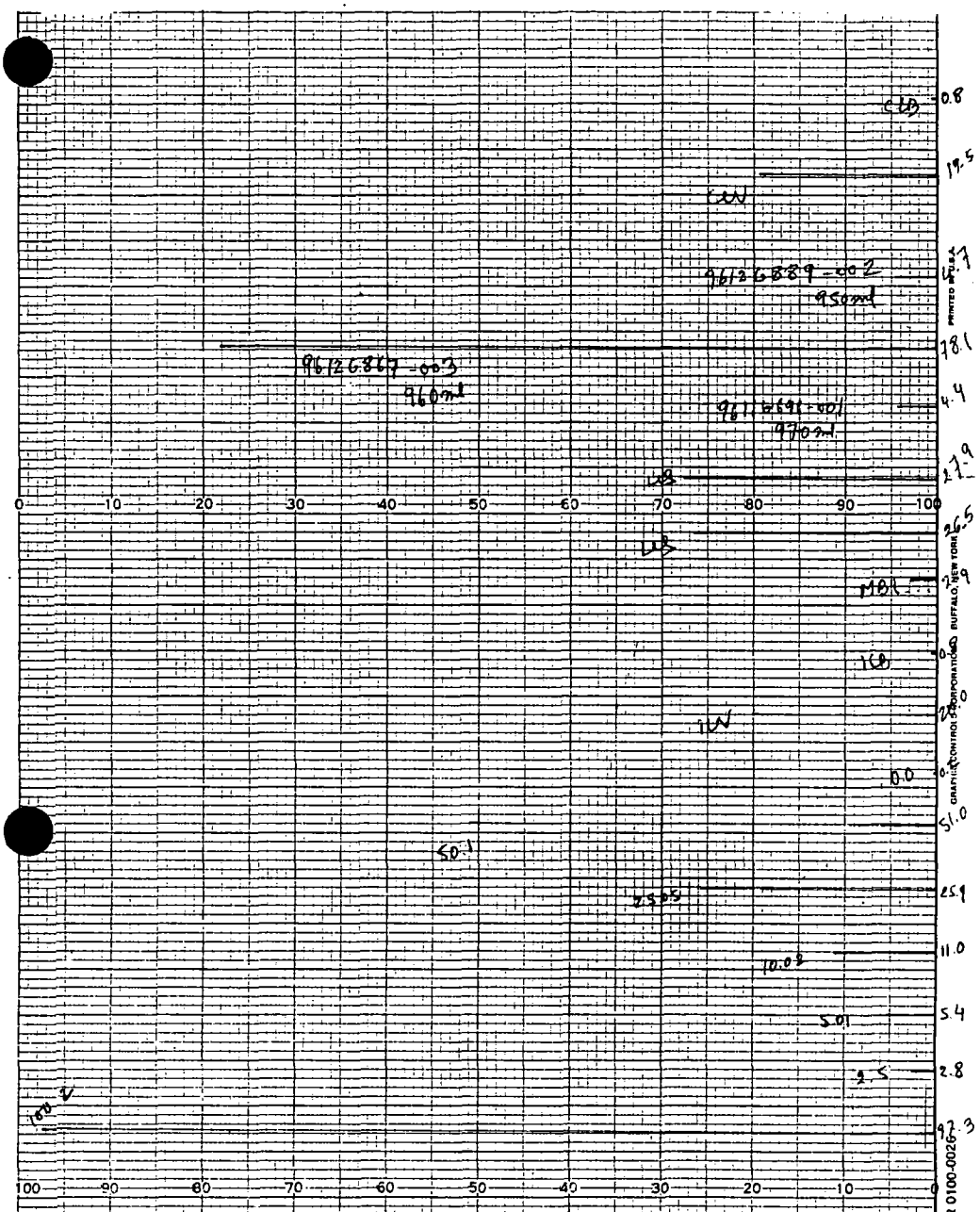


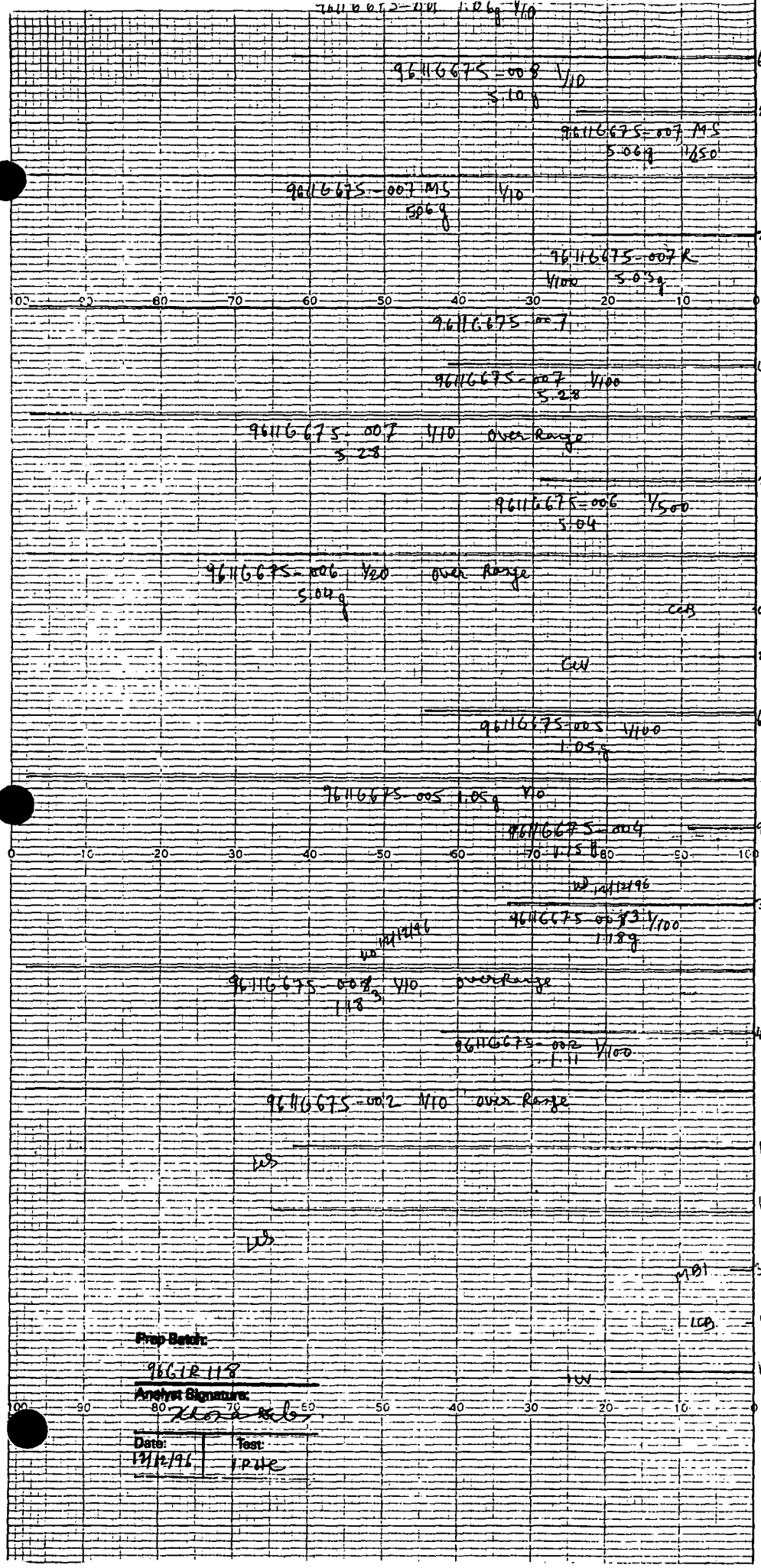
Prep Batch:
9661R117

Analyst Signature:
[signature]

Date: 12/12/96

Test: IPHC

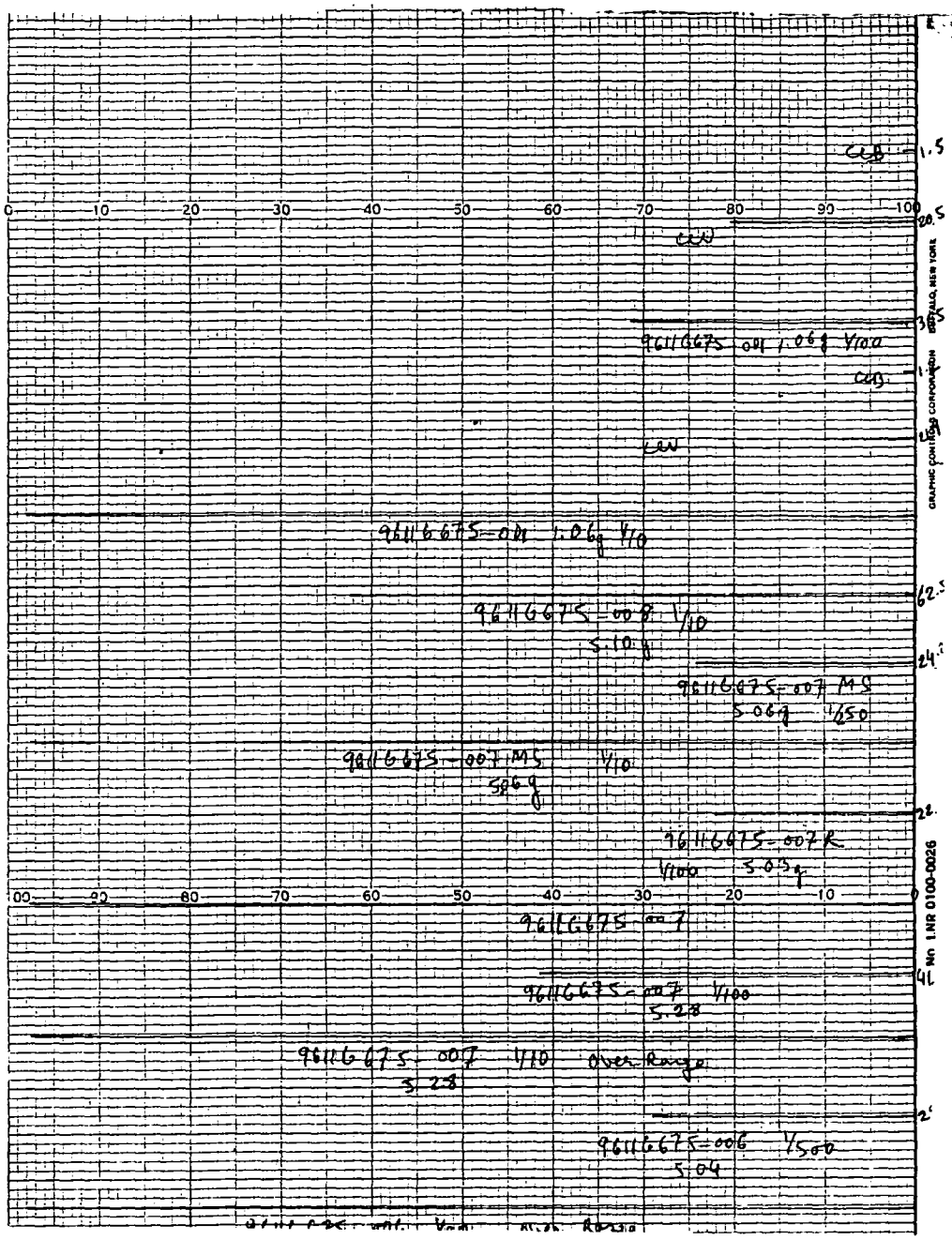
No. LNR 0100-0026
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
PRINTED IN U.S.A.



Prep Batch:
96G1R118

Analyst Signature:
Khona Sales

Date:	Test:
12/12/96	1PHC


0 10 20 30 40 50 60 70 80 90 100
9611G675 001 1.06g 1/100
9611G675-001 1.06g 1/10
9611G675-008 1/10
5.10g
9611G675-007 MS
5.06g 1/50
9611G675-007 MS 1/10
5.06g
9611G675-007R
1/100 5.03g
100 90 80 70 60 50 40 30 20 10 0
9611G675-007
9611G675-007 1/100
5.28
9611G675-007 1/10 Over Range
5.28
9611G675-006 1/500
5.04
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
No. 1.NR 0100-0026

OP No. 21-21G-1570

Method: a. Waters - E 418.1
b. Soils - S 9071/E 418.1
c. SM 5520F

WESTON Environmental Metrics, Inc.
Petroleum Hydrocarbon by IR

Page #: 78
Book #: 2080
LIMS Batch ID: 9661R118
Filename: 61R118
Instrument: Miran 1FF IR
Cell Path Length: 5.0

Standard (mg/L)	Pk. Ht. (cm)

For curve Please See Page 76

c.c. =
m =
y-int =

Calculations:
mg/L = mg/L (Curve) x Final Vol. / Initial Vol.(mls) x Dil.
mg/kg = mg/L (Curve) x Final Vol. / Initial Wt.(g) x Dil.
mg/kg "d" = mg/kg / % Solids (as decimal)

	RFW #	Acidity Check	Extraction Init.	Extraction Final	Dil.	Peak Height cm	Curve Result mg/L	% Solids	Result	Units	% Rec RPD
ICV (2.014 mg/L)						19.1	18.742				93.18
ICB (<2.5 mg/L)						1.0	0.102				<2.5
1	9661R118 - MB1		100ml	100ml	1	3.1	2.265		2.265	mg/L	<2.5
2	- LCS				1	71.057	71.057		71.057		135.38
3	- LCS					63.024	63.024		63.024		120.08
4	96116675-002					Over Range					
5	-002		1.119		1/100	42.531	42.531	77.6	493763.844	mg/kg	
6	-003					Over Range					
7	-003		1.18		1/100	33.159	33.159	96.0	292721.228		
8	-004		1.15		1	8.444	8.444	53.6	1369.846		
9	-005					Over Range					
10	-005		1.05		1/100	65.805	65.805	71.6	875296.935		
CCV (20.14 mg/L)						20.0	19.669				97.78
CCB (<2.5 mg/L)						0.5	-0.413				<2.5
11	96116675-006			100ml		Over Range					
12	-006		5.04		1/500	28.937	28.937	75.9	378228.321	mg/kg	
13	-007					Over Range					
14	-007		5.28		1/100	41.810	41.810	92.4	85698.640		
15	-007					Over Range					
16	-007R		5.03		1/100	21.728	21.728	92.4	46750.739		
17	-007					Over Range					
18	-007MS		5.06		1/250	23.994	23.994	92.4	128298.317		
19	-008		5.12		1/10	63.436	63.436	53.4	23202.040		
20	-001					Over Range					
CCV (20.14 mg/L)						21.9	21.625				107.44
CCB (<2.5 mg/L)						1.2	0.308				<2.5

Standards Traceability:
Standard Soln. I ID # (Standard Curve): 1292-116-3 Stock Soln. II ID # (LCS/MS): 1292-119-7
Standard Soln. III ID # (ICV/CCV): 1292-119-3

Spiking Levels (mg/L): LCS (Soil) = 52.52 LCS (Water) = NA MS (Soil) = 52.52 MS (Water) = NA
Statistical Limits (%): LCS = 104-148% RPD = NA MS = 104-148%

Preparation Signature: (JES) Jennifer Press Date: 12/9/96
Analyst Signature: Rhona Seby Date: 12/12/96
Reviewer Signature: Dennis L Hay Date: 12/13/96

Continued

OP No. 21-21G-1570

Method: a. Waters - E 418.1
(b.) Soils - S 9071/E 418.1
c. SM 5520F

WESTON Environmental Metrics, Inc.
Petroleum Hydrocarbon by IR

Page #: 79
Book #: 2080
LIMS Batch ID: 96G1R118
Filename: G1R118
Instrument: Miran 1FF IR
Cell Path Length: 5.0 cm

Standard (mg/L)	Pk. Ht. (cm)

c.c. = _____
m = _____
y-int = _____

Calculations:
mg/L = mg/L (Curve) x Final Vol. / Initial Vol.(mls) x Dil.
mg/kg = mg/L (Curve) x Final Vol. / Initial Wt.(g) x Dil.
mg/kg "d" = mg/kg / % Solids (as decimal)

Continued from Page 78

	RFW #	Acidity Check	Extraction Init.	Extraction Final	Dil.	Peak Height cm	Curve Result mg/L	% Solids	Result	Units	% Rec RPD
ICV (____ mg/L)											
ICB (<____ mg/L)											
1	96116675-001		1.06g	100ml	1/100	~~31.512~~ 31.5 KD 12/13/96	31.512	69.7	426519.512	Mg/kg	
2											
3											
4											
5											
6											
7											
8											
9											
10											
CCV (20.14 mg/L)						20.5					
CCB (<2.5 mg/L)						1.5					
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
CCV (____ mg/L)											
CCB (<____ mg/L)											

Standards Traceability:
Standard Soln. I ID # (Standard Curve): _____ Stock Soln. II ID # (LCS/MS): _____
Standard Soln. III ID # (ICV/CCV): _____

Spiking Levels (mg/L): LCS (Soil) = _____ LCS (Water) = _____ MS (Soil) = _____ MS (Water) = _____
Statistical Limits (%): LCS = _____ RPD = _____ MS = _____

Preparation Signature: JK Jennifer L Kress Date: 12/9/96
Analyst Signature: [signature] Date: 12/12/96
Reviewer Signature: Diane L Harp Date: 12/13/96

WESTON Environmental Metrics, Inc.

Date of Prep: 12/16/96
Date of Analysis: 12/17/96
Filename: GIR122
Test: IPHC
Directory: INORGANICS

Prep Batch: 96GIR122
Method: E 418.1
Analyst: JK/KD
Instrument: SPEC-IR

CALIB DATA
SLOPE: 0.975
INTERCEPT: 1.166
CORRELATION COEFF.: 0.9992

CALIB. DATA	CONC.	READING	%STD
	100.20	97.300	98.4%
	0.00	0.100	
	2.50	2.700	62.9%
	5.01	5.800	94.9%
	10.02	10.800	98.6%
	25.05	27.000	105.8%
	50.10	52.500	105.1%

RFW SAMPLE ID	TEST	INST. ABS	INITIAL RESULT	DILUTION FACTOR	C/D	RESULT	DETECTION LIMIT 2.50	UNITS	REPLICATE ORIG SAMPLE RESULT	REP % DIFF	SPIKE/LCS SPIKE 52.52 LCS 52.52	SAMPLE SPIKE AMOUNT	% RECOV	SOILS PREP PREP BATCH	INITIAL SAMPLE WT.	FINAL VOL.	% SOLIDS
96GIR122-MB1	IPHC	3.000	1.881	1	1.0000	1.881 u	2.500	MG/L						96GIR122	100	100	
96GIR122-LCS	IPHC-S	64.000	64.452	1	1.0000	64.452	2.500	MG/L	0.000		52.52	52.52	122.7	96GIR122	100	100	
96GIR122-LCS	IPHC-T	65.900	66.401	1	1.0000	66.401	2.500	MG/L	0.000	3.0	52.52	52.52	126.4	96GIR122	100	100	
9612G054-001	IPHC	13.700	12.857	1	11.6398	149.649	29.099	MG/KG						96GIR122	10.06	100	85.4
9612G054-001	IPHC-R	14.200	13.370	1	11.5252	154.088	28.813	MG/KG	149.649	2.9				96GIR122	10.16	100	85.4
9612G054-001	IPHC-S	65.300	65.785	1	11.6513	766.489	29.128	MG/KG	149.649		52.52	611.93	100.8	96GIR122	10.05	100	85.4
9612G048-001	IPHC	18.000	17.267	1	11.3555	196.080	28.389	MG/KG						96GIR122	10.03	100	87.8
9612G048-002	IPHC	57.900	58.195	2	11.0762	1289.161	55.381	MG/KG						96GIR122	10.19	100	88.6
9612G048-003	IPHC	30.100	29.679	25	10.8705	8065.671	679.408	MG/KG						96GIR122	10.01	100	91.9
9612G048-004	IPHC	25.200	24.653	1	12.1754	300.159	30.439	MG/KG						96GIR122	10.09	100	81.4
9612G048-005	IPHC	14.100	13.267	10	11.2559	1493.330	281.398	MG/KG						96GIR122	10.05	100	88.4
9612G048-006	IPHC	36.900	36.654	10	11.7265	4298.257	293.163	MG/KG						96GIR122	10.08	100	84.6
9612G048-007	IPHC	23.800	23.217	5	11.6365	1350.813	145.456	MG/KG						96GIR122	10.17	100	84.5
9612G048-008	IPHC	6.000	4.958	1	11.9181	59.095	29.795	MG/KG						96GIR122	10.22	100	82.1
9612G048-009	IPHC	5.900	4.856	1	11.8625	57.603	29.656	MG/KG						96GIR122	10.12	100	83.3
9612G048-010	IPHC	7.100	6.087	1	12.1216	73.781	30.304	MG/KG						96GIR122	10.11	100	81.6
9612G048-011	IPHC	6.800	5.779	1	12.2268	70.659	30.567	MG/KG						96GIR122	10.06	100	81.3
9612G048-012	IPHC	6.100	5.061	1	11.4867	58.135	28.717	MG/KG						96GIR122	10.23	100	85.1
9612G048-013	IPHC	18.900	18.191	1	13.5759	246.954	33.940	MG/KG						96GIR122	10.16	100	72.5
9612G048-014	IPHC	26.900	26.397	1	13.9101	367.181	34.775	MG/KG						96GIR122	10.27	100	70.0
9612G048-015	IPHC	9.000	8.036	1	12.6826	101.914	31.707	MG/KG						96GIR122	10.24	100	77.0
9612G675-007	IPHC-R	51.500	51.630	150	10.7048	82903.195	4014.284	MG/KG	85698.640	3.3				96GIR122	10.11	100	92.4

AL 12/20/96

SS [illegible] 12/20/96

David L Hayes 12/20/96

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OP No. 21-21G-1570

Method: a. Waters - E 418.1
(b.) Soils - S 9071/E 418.1
c. SM 5520F

WESTON Environmental Metrics, Inc.
Petroleum Hydrocarbon by IR

Page #: 81
Book #: 280
LIMS Batch ID: 9661R120
Filename: 61R120
Instrument: Miran 1FF IR
Cell Path Length: 5.0 cm

Standard (mg/L)	Pk. Ht. (cm)
100.2	97.3
0.0	0.1
2.5	2.7
5.01	5.8
10.02	10.8
25.05	27.0
50.1	52.5

c.c. = 0.9992
m = 1.166
y-int = 0.975

Calculations:
mg/L = mg/L (Curve) x Final Vol. / Initial Vol.(mls) x Dil.
mg/kg = mg/L (Curve) x Final Vol. / Initial Wt.(g) x Dil.
mg/kg "d" = mg/kg / % Solids (as decimal)

	RFW #	Acidity Check	Extraction Init.	Extraction Final	Dil.	Peak Height cm	Curve Result mg/L	% Solids	Result	Units	% Rec RPD
ICV	(20.14 mg/L)					19.9	19.216				95.42
ICB	(< 2.5 mg/L)					0.9	-0.273				<2.5
1	9661R120- MB1		100ml	100ml		3.0	1.881		1.881	mg/kg	<2.5
2	-LCS					65.3	65.785		65.785		125.32
3	-LCS					64.8	65.273		65.273		124.32
4	96126965-002		5.21g			8.4	7.420	42.8	332.765	mg/kg	
5	-003		5.17			24.4	23.832	25.1	1836.544		
6	-004		5.26			8.2	7.215	7.8	1758.583		
7	-006		5.09			9.3	8.343	7.1	2308.708		
8	12/12/96 -007		5.12			76.5	77.274	39.3	3840.345		
9	-008		5.20			8.6	7.625	34.7	422.601		
10	-009		5.26			8.2	7.215	9.7	1414.118		
CCV	(20.14 mg/L)					20.1	19.422				96.42
CCB	(< 2.5 mg/L)					0.9	-0.273				<2.5
11	96126965-010		5.24g	100ml		9.2	8.241	6.7	2347.290	mg/kg	
12	-011		5.31			31.5	31.115	49.3	1188.584		
13	-012		5.05			6.8	5.779	63.6	179.932		
14	-013		5.63			5.9	4.856	75.9	113.637		
15	-014		5.14			4.6	3.522	57.4	119.389		
16	-015		10.11			6.6	5.574	~~86.4~~ 86.4	63.811		
17	-016		10.03			5.8	4.753	85.6	55.363		
18	-017		5.15			6.0	4.958	54.4	176.987		
19	-018		10.13			5.8	4.753	98.6	47.589		
20	-018R		10.09			6.2	5.164	98.6	51.902		8.7
CCV	(20.14 mg/L)					20.1	19.422				96.42
CCB	(< 2.5 mg/L)					1.1	0.0678				<2.5

Standards Traceability:
Standard Soln. I ID # (Standard Curve): 1292-116-3 Stock Soln. II ID # (LCS/MS): 1292-119-7
Standard Soln. III ID # (ICV/CCV): 1292-119-3

Spiking Levels (mg/L): LCS (Soil) = 52.52 LCS (Water) = NA MS (Soil) = 52.52 MS (Water) = NA
Statistical Limits (%): LCS = 104-148% RPD = NA MS = 104-148%

Preparation Signature: (JK) Jennifer L Kress Date: 12/13/96
Analyst Signature: Khosla Seb Date: 12/17/96
Reviewer Signature: Carrie D Williamson Date: 12/23/96

continued

OP No. 21-21G-1570

Method: a. Waters - E 418.1
b. Soils - S 9071/E 418.1
c. SW 5520F

WESTON Environmental Metrics, Inc.
Petroleum Hydrocarbon by IR

Page #: 88
Book #: 2080
LIMS Batch ID: 96GIR122
Filename: GIR122
Instrument: Miran 1FF IR
Cell Path Length: 5.0 cm

Standard (mg/L)	Pk. Ht. (cm)

Curve with 96GIR120

c.c. =
m =
y-int =

Calculations:
mg/L = mg/L (Curve) x Final Vol. / Initial Vol.(mls) x Dil.
mg/kg = mg/L (Curve) x Final Vol. / Initial Wt.(g) x Dil.
mg/kg "d" = mg/kg / % Solids (as decimal)

	RFW #	Acidity Check	Extraction Init.	Extraction Final	Dil.	Peak Height cm	Curve Result mg/L	% Solids	Result	Units	% Rec / RPD
ICV (____ mg/L)						20.8	20.139			12/16/96 KD	100.0%
ICB (<____ mg/L)						1.2	0.034			<2.5	~~0.034~~
1	96GIR122-MB1		100ml	100ml		3.0	1.881		1.881	mg/L	
2	-LCS					64.0	64.452		64.452		122.78
3	-LCS					65.9	66.401		66.401		126.48
4	96126054-001		10.06g			13.7	12.857	85.4	149.649	mg/kg	
5	-001		10.16			14.2	13.370	85.4	154.088		
6	-001		10.05			65.3	65.785	85.4	766.489		100.82
7	96126048-001		10.03			18.0	17.267	87.8	196.080		
8	-002		10.19		1/2	57.9	58.195	88.6	1289.161		
9	-003					Over	Range				
10	-003		10.01		1/25	30.1	29.679	91.9	8065.671		
CCV (20.14 mg/L)						21.0					
CCB (<2.5 mg/L)						1.0					
11	96126048-004		10.09g	100ml		25.2	24.653	81.8	300.159	mg/kg	
12	-005					Over	Range				
13	-005		10.05		1/10	14.1	13.267	~~83.6~~ 88.4	1493.330		
14	-006					Over	Range				
15	-006		10.08		1/10	36.9	36.654	84.6	4298.257		
16	-007					Over	Range				
17	-007		10.17		1/5	23.8	23.217	84.5	1350.813		
18	-008		10.22			6.0	4.958	82.1	59.095		
19	-009		10.12			5.9	4.856	83.3	57.603		
20	-010		10.11			7.1	6.087	81.6	73.781		
CCV (____ mg/L)						19.9	19.216				95.4%
CCB (<____ mg/L)						1.5	0.343				<2.5

Standards Traceability:
Standard Soln. I ID # (Standard Curve): 1292-116-3 Stock Soln. II ID # (LCS/MS): 1292-119-7
Standard Soln. III ID # (ICV/CCV): 1292-119-3

Spiking Levels (mg/L): LCS (Soil) = 52.52 LCS (Water) = NA MS (Soil) = 52.52 MS (Water) = NA
Statistical Limits (%): LCS = 104-148% RPD = NA MS = 104-148%

Preparation Signature: (JK) Jennifer L Kress Date: 12/16/96
Analyst Signature: [signature] Date: 12/17/96
Reviewer Signature: [signature] Date: 12/20/96

Continued

OP No. 21-21G-1570

Method: a. Waters - E 418.1
(b) Soils - S 9071/E 418.1
c. SM 5520F

WESTON Environmental Metrics, Inc.
Petroleum Hydrocarbon by IR

Page #: 89
Book #: 2080
LIMS Batch ID: 9661R122
Filename: 61R122
Instrument: Miran 1FF IR
Cell Path Length: 5.0 cm

Standard (mg/L)	Pk. Ht. (cm)

c.c. = ____
m = ____
y-int = ____

Calculations:
mg/L = mg/L (Curve) x Final Vol. / Initial Vol.(mls) x Dil.
mg/kg = mg/L (Curve) x Final Vol. / Initial Wt.(g) x Dil.
mg/kg "d" = mg/kg / % Solids (as decimal)

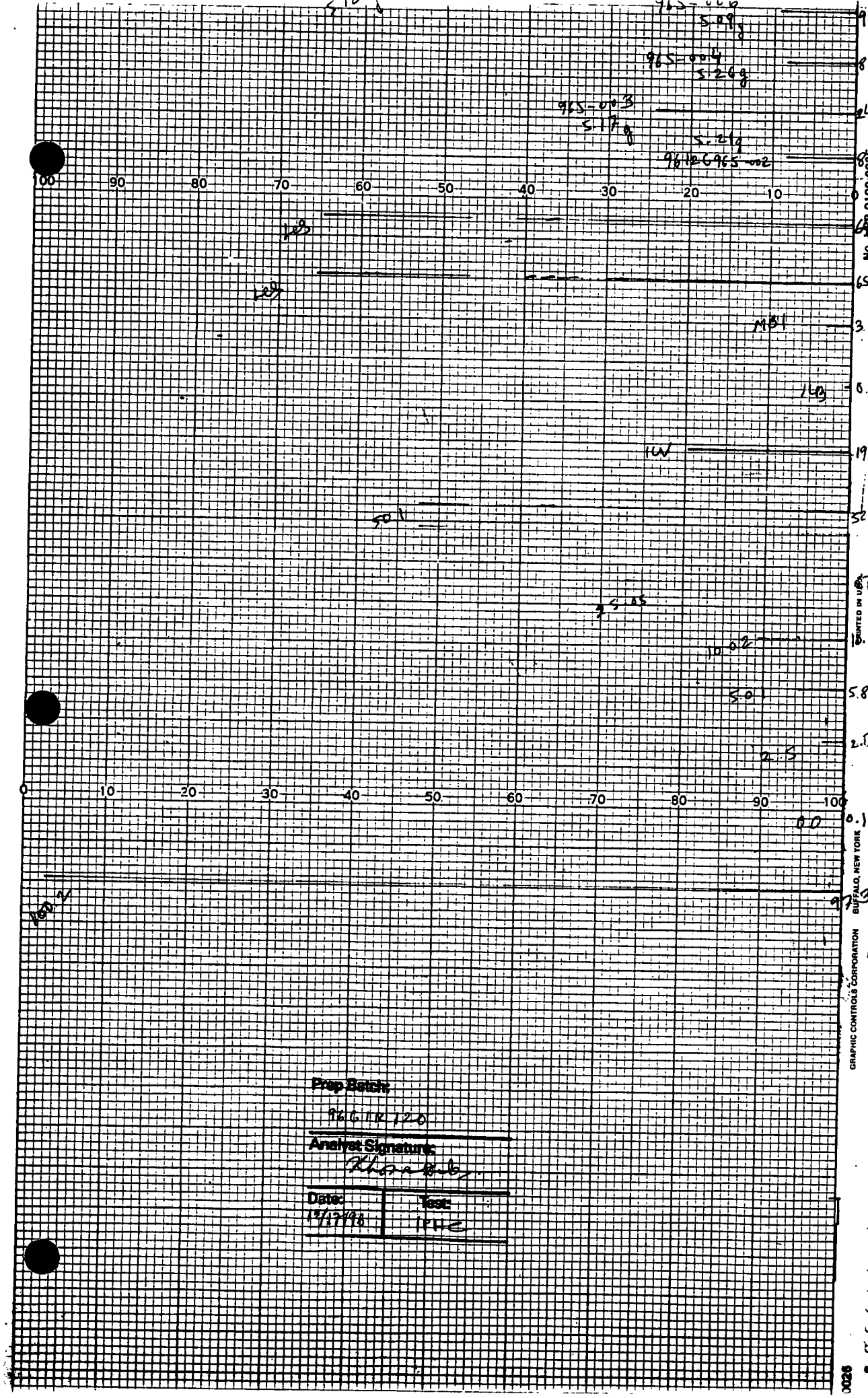
Continued from Page 88

	RFW #	Acidity Check	Extraction Init.	Extraction Final	Dil.	Peak Height cm	Curve Result mg/L	% Solids	Result	Units	% Rec RPD
ICV (____ mg/L)											
ICB (<____ mg/L)											
1	9612648-011		10.06 g			6.8	5.779	81.3	70.659	mg/kg	
2	-012		10.23			6.1	5.061	85.1	58.135		
3	-013		10.16			18.9	18.191	72.5	246.954		
4	-014		10.27			26.9	26.397	70.0	367.181		
5	-015		10.24			9.0	8.036	77.0	101.914		
6	9612667S-007R					over range					
7	-007R		10.11	1/150		51.5	51.630	92.4	82903.195		3.3
8											
9											
10											
CCV (20.14 mg/L)						21.0	20.344				101.06
CCB (<2.5 mg/L)						1.5	0.343				<2.5
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
CCV (____ mg/L)											
CCB (<____ mg/L)											

Standards Traceability:
Standard Soln. I ID # (Standard Curve): ____ Stock Soln. II ID # (LCS/MS): ____
Standard Soln. III ID # (ICV/CCV): ____

Spiking Levels (mg/L): LCS (Soil) = ____ LCS (Water) = ____ MS (Soil) = ____ MS (Water) = ____
Statistical Limits (%): LCS = ____ RPD = ____ MS = ____

Preparation Signature: Jennifer L Kraus Date: 12/16/96
Analyst Signature: Melissa Sales Date: 12/17/96
Reviewer Signature: [illegible] Date: 12/20/96



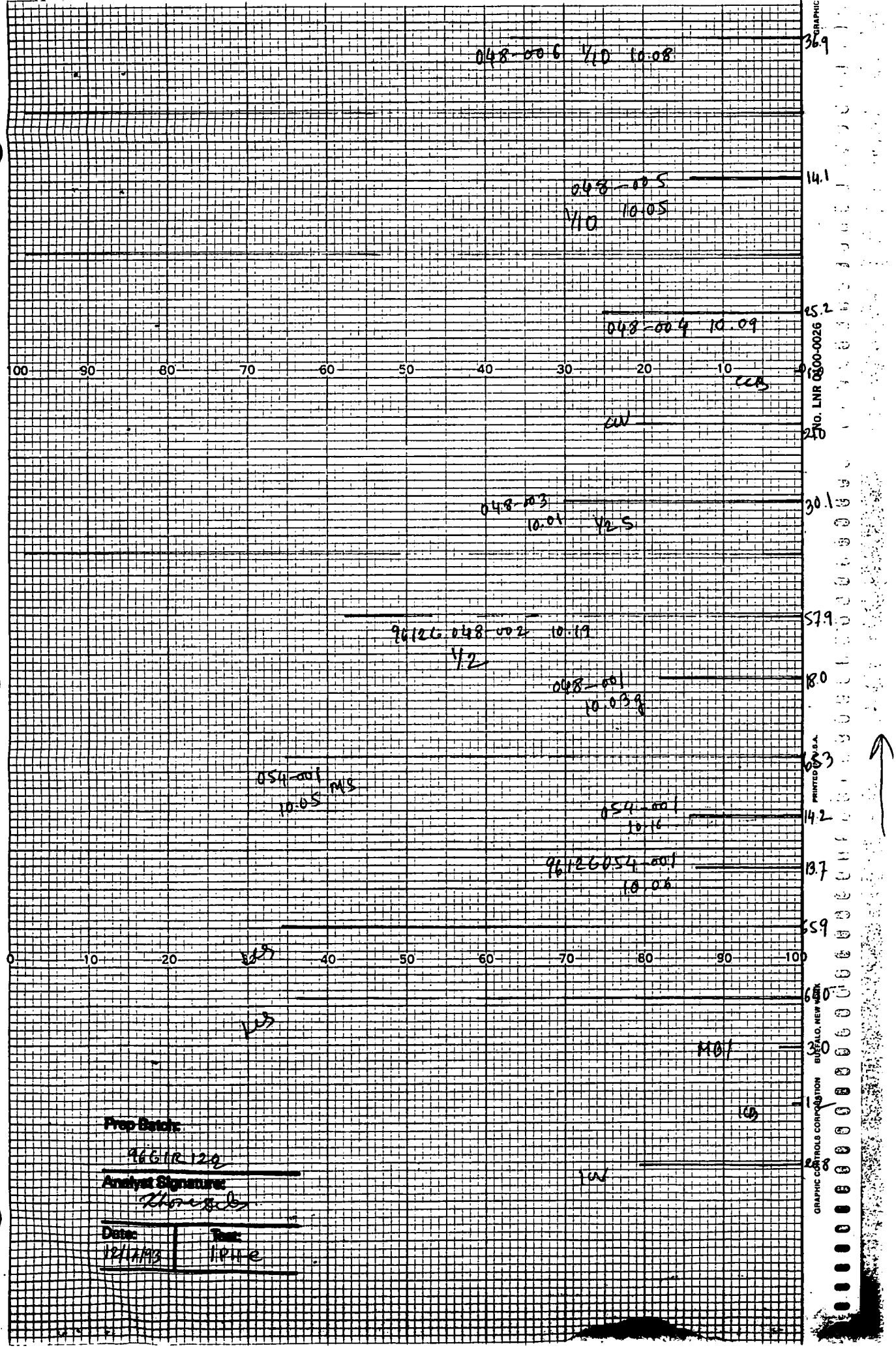
Prep Batch:

96GIR120

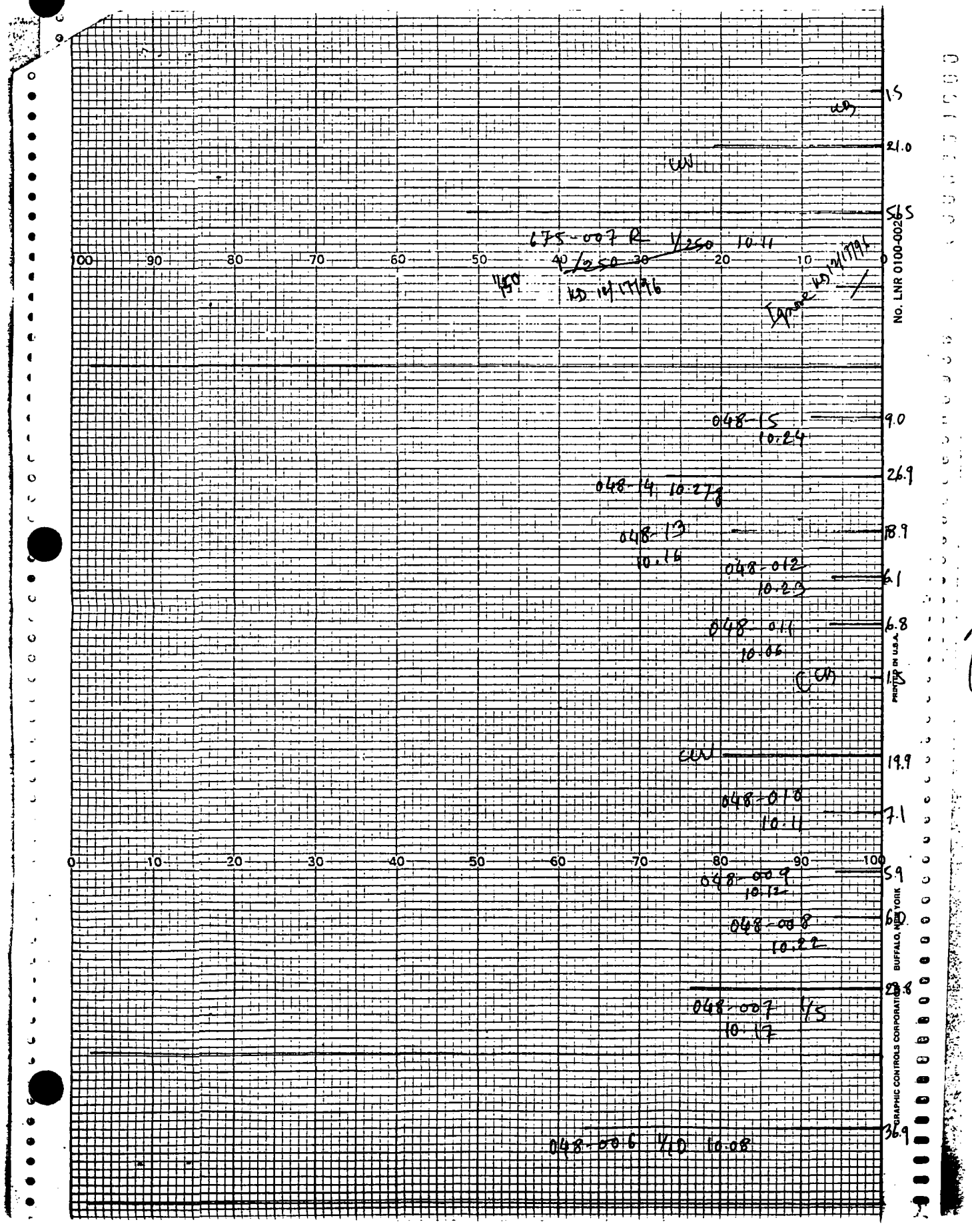
Analyst Signature:

Khonabuby

Date:	Test:
12/17/98	IPHC



GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK PRINTED IN U.S.A. No. LNR 0100-0026



1.5
21.0
56.5
675-007 R 1/250 10.11
1/250
1/50
KD 12/17/96
Ignore KD 12/17/96
9.0
048-15
10.24
26.9
048-14 10.27g
18.9
048-13
10.16
6.1
048-012
10.23
6.8
048-011
10.06
1.5
19.9
048-010
10.11
7.1
5.9
048-009
10.12
6.0
048-008
10.22
23.8
048-007 1/5
10.17
36.9
048-006 1/10 10.08
NO. LNR 0100-0026
PRINTED IN U.S.A.
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK

Weston Environmental Metrics, Inc.
% Sol. / % Ash / % Vol. / % Mst.

Method: Solids 2540 G, Std. Methods 17Ed.	Detection Limit: 0.10%	LIMS Batch: 96GTS652

Codes:

TARE	= B
WET	= C
DRY	= A
MUFFLE	= D

Calculations:

% Solids = (A - B) / (C - B) X 100
% Ash "A" = (D - B) / (C - B) X 100
% Ash "D" = (D - B) / (A - B) X 100
% Volatiles = (A - D) / (A - B) X 100
% Moisture = 100 - % Solids

INSTRUMENT CHECKS

Control Limits: 10 +/-0.0005 g | 103-105°C | 550 +/-50°C

Balance #	Gram Wt.	Reading	Oven #	Pre Temp\Post Temp	Furnace #	Furnace Temp
106	10.0	10.0001	225	105.0°C 103.0°C		

I have verified that the weights obtained by the balance interface software match the readings from the analytical balance listed above.

Analyst Signature: Della Stys Date: 12-5-96

Reviewer Signature: Lynn M. Biedelman Date: 12/5/96

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
96GTS652-MB1	23	I%SOL	0.0		TARE:	1.2546			
					WET:	11.6820	12/04/96	17:13:32	DJT
					DRY:	1.2569	12/05/96	10:45:07	DJT
9611G675-001	24	I%SOL	69.7		TARE:	1.2491			
					WET:	10.3126	12/04/96	17:15:56	DJT
					DRY:	7.5659	12/05/96	10:44:14	DJT
9611G675-002	25	I%SOL	77.6		TARE:	1.2526			
					WET:	11.6087	12/04/96	17:16:43	DJT
					DRY:	9.2864	12/05/96	10:43:41	DJT
9611G675-003	26	I%SOL	96.0		TARE:	1.2642			
					WET:	10.9664	12/04/96	17:18:03	DJT
					DRY:	10.5771	12/05/96	10:44:25	DJT
9611G675-004	27	I%SOL	53.6		TARE:	1.2640			
					WET:	12.0169	12/04/96	17:20:29	DJT
					DRY:	7.0269	12/05/96	10:44:48	DJT

Weston Environmental Metrics, Inc.
% Sol. / % Ash / % Vol. / % Mst.

LIMS Batch: 96GTS652

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
9611G675-005	28	I%SOL	71.6		TARE:	1.2622			
					WET:	10.6971	12/04/96	17:21:44	DJT
					DRY:	8.0161	12/05/96	10:43:23	DJT
9611G675-006	29	I%SOL	75.9		TARE:	1.2650			
					WET:	11.6024	12/04/96	17:22:36	DJT
					DRY:	9.1078	12/05/96	10:42:34	DJT
9611G675-007	30	I%SOL	92.4		TARE:	1.2629			
					WET:	10.5920	12/04/96	17:23:24	DJT
					DRY:	9.8786	12/05/96	10:42:24	DJT
9611G675-008	31	I%SOL	53.4		TARE:	1.2538			
					WET:	11.6039	12/04/96	17:24:31	DJT
					DRY:	6.7855	12/05/96	10:44:37	DJT
1G770-001	32	I%SOL	84.0		TARE:	1.2564			
					WET:	11.7927	12/04/96	17:25:35	DJT
					DRY:	10.1076	12/05/96	10:44:02	DJT
9611G789-001	33	I%SOL	55.6		TARE:	1.2560			
					WET:	10.7057	12/04/96	17:26:19	DJT
					DRY:	6.5086	12/05/96	10:43:52	DJT
9612G832-001	34	I%SOL	54.3		TARE:	1.2532			
					WET:	12.1494	12/04/96	17:27:13	DJT
					DRY:	7.1705	12/05/96	10:42:45	DJT
9612G833-001	35	I%SOL	55.9		TARE:	1.2549			
					WET:	11.5018	12/04/96	17:28:27	DJT
					DRY:	6.9827	12/05/96	10:42:57	DJT
9612G833-001R	36	I%SOLR	56.3	0.7	TARE:	1.2660			
					WET:	11.1208	12/04/96	17:29:24	DJT
					DRY:	6.8114	12/05/96	10:43:09	DJT

*** End of % Solids Report ***

WESTON
MANAGERS DESIGNERS/CONSULTANTS

METALS DATA PACKAGE
USEPA - WILCOX OIL
RFW# 9611G675

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ICP Raw Data 139

Flame AA Raw Data .....NA

Furnace AA Raw Data.....280

Mercury Raw Data 453

Cyanide Raw Data 464

Digestion Information 470

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
WS-01							
TOTAL CYANIDE	001	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
TOTAL CYANIDE	001 REP	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
TOTAL CYANIDE	001 MS	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SILVER, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SILVER, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SILVER, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, SERIAL DIL	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	001	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
ARSENIC, TOTAL	001 REP	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
ARSENIC, TOTAL	001 MS	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BARIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BARIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BARIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, SERIAL DI	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, SERIAL DILU	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, SERIAL DILU	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, SERIAL DIL	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
CHROMIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, SERIAL DILUTIO	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	001	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
MERCURY, TOTAL	001 REP	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
MERCURY, TOTAL	001 MS	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, SERIAL DI	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
POTASSIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
POTASSIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
POTASSIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, SERIAL DI	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, SERIAL DI	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, SERIAL DILUT	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	001	S	96GF345	11/20/96	11/21/96	12/08/96	12/18/96
LEAD, TOTAL	001 REP	S	96GF345	11/20/96	11/21/96	12/08/96	12/18/96
LEAD, TOTAL	001 MS	S	96GF345	11/20/96	11/21/96	12/08/96	12/18/96
ANTIMONY, SERIAL DIL	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
ANTIMONY, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	001	S	96GF345	11/20/96	11/21/96	12/08/96	12/21/96
SELENIUM, TOTAL	001 REP	S	96GF345	11/20/96	11/21/96	12/08/96	12/21/96
SELENIUM, TOTAL	001 MS	S	96GF345	11/20/96	11/21/96	12/08/96	12/21/96
THALLIUM, TOTAL	001	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
THALLIUM, TOTAL	001 REP	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
THALLIUM, TOTAL	001 MS	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, SERIAL DIL	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, SERIAL DILUTIO	001 L	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	001	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	001 REP	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	001 MS	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-02							
TOTAL CYANIDE	002	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	002	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	002	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	002	S	96GF345	11/20/96	11/21/96	12/08/96	12/18/96
ANTIMONY, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
SELENIUM, TOTAL	002	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	002	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	002	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-03							
TOTAL CYANIDE	003	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	003	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	003	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	003	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	003	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	003	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-04							
TOTAL CYANIDE	004	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
ALUMINUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	004	S	96GF345	11/20/96	11/21/96	12/08/96	12/30/96
BARIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	004	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/17/96
ANTIMONY, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	004	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
THALLIUM, TOTAL	004	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	004	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-05							
TOTAL CYANIDE	005	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	005	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	005	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
POTASSIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	005	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	005	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	005	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-06							
TOTAL CYANIDE	006	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	006	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	006	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	006	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	006	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	006	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
WS-07							
TOTAL CYANIDE	007	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	007	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96
BARIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	007	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	007	S	96GF345	11/20/96	11/21/96	12/08/96	12/18/96
ANTIMONY, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	007	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	007	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	007	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
WS-08							
TOTAL CYANIDE	008	S	96GCN309	11/20/96	11/21/96	11/30/96	11/30/96
SILVER, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ALUMINUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ARSENIC, TOTAL	008	S	96GF345	11/20/96	11/21/96	12/08/96	12/26/96

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
USEPA-Wilcox Oil

RFW LOT # :9611G675

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
BARIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
BERYLLIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CALCIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CADMIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COBALT, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
CHROMIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
COPPER, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
IRON, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MERCURY, TOTAL	008	S	96HG022	11/20/96	11/21/96	12/03/96	12/03/96
POTASSIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MAGNESIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
MANGANESE, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SODIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
NICKEL, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
LEAD, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ANTIMONY, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
SELENIUM, TOTAL	008	S	96GF345	11/20/96	11/21/96	12/08/96	12/23/96
THALLIUM, TOTAL	008	S	96GF345	11/20/96	11/21/96	12/08/96	12/14/96
VANADIUM, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96
ZINC, TOTAL	008	S	96GI665	11/20/96	11/21/96	12/08/96	12/14/96

WESTON
MANAGERS DESIGNERS/CONSULTANTS

CHAIN OF CUSTODY

Custody Transfer Record/Lab Work Request

WESTON

10

WESTON Analytics Use Only
96116675

Client: USEPA-Wilcox Oil
Work Order: 04606-056-026-0600-04
Date Rec'd.: 11-2-96 Date Due: 12-12-96
RFW Contact: Chuck Maw
Client Contact/Phone: Diane Williams

Refrigerator#			5	8	8						
#/Type Container			1G	1G	1G						
Volume			2oz	4oz	8oz						
Preservative											
ANALYSES REQUESTED			624H	HSL Metals CN	TPHC 624H 8021						
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected								
001	WS-01	S	11-20-96	X	X	X					
002	WS-02	↓	↓	↓	↓	↓					
003	WS-03										
004	WS-04										
005	WS-05										
006	WS-06										
007	WS-07										
008	WS-08	↓	↓	↓	↓	↓					

Matrix:
S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: QC + Del CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
		Sherm Scott	11-21-96	1407					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered (Shipped) NOTES: Fed-X
2 Ambient or Chilled (Chilled) NOTES: 4.8°C + 2.9°C
3 Received Broken/Leaking (Improperly Sealed) Y (N) NOTES:
4 Properly Preserved (Y) N NOTES:
5 Received Within Holding Times (Y) N NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample (Y) N
4 Unbroken on Sample (Y) N
NOTES: Date + Signature

SS 11-21-96

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

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

RFW 21-21-001/A-12/88

7-115

Weston Environmental Metrics, Inc.
Internal Sample Custody Transfer Record

RFW Lot#: 9611G675 Client: USEPA-Wilcox Oil

Sample No.	Analysis	Relinquished by:	Received by:	Date	Time	Comments
1-8	624H	KNS	[illegible]	11/21/96	1450	
1-8	metals	P. Buhrt	Paul Holmgren	11-25-96	15:10	
1-8	metals	Paul Holmgren	P. Buhrt	11/26/96	15:12	
1-8	ORG. EXT	K Merkle	[illegible]	11/27/96	11:00	
1-8	ORG EXT	[illegible]	P. Buhrt	11/27/96	13:15	
1-8	CN	KNS	Bi D. W	11-30-96	9:05	
1-8	CN	Bi D W	KNS	11-30-96	13:04	
1-8	metals	P. Buhrt	Paul Holmgren	12/3/96	13:45	
1-8	metals	Paul Holmgren	KN	12/3/96	16:12	
1-8	% Sol	P. Buhrt	[illegible]	12-4-96	10.45	
1-8	% Sol	[illegible]	KNS	12-4-96	17.45	
1-8	IPHC	KN	J. Kress	12-6-96	9:05	
1-8	IPHC	J Kress	[illegible]	12-6-96	1430	
1-8	Metal	R. Henn	[illegible]	12-6-96	18:52	
1-8	Metals	[illegible]	K Merkle	12/9/96	8:40	

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: Wilcox Oil

SAMPLERS: (Signature) Eric Tate (Eric Tate)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNAs	Total Metals	TPH			REMARKS
WS-01	11/20/96	1430		X	Pond 1	3	X	X	X	X			
WS-02	11/20/96	1450		X	Pond 1	3	X	X	X	X			
WS-03	11/20/96	1310		X	Lee Residence	3	X	X	X	X			
WS-04	11/20/96	1040		X	Pond 2	3	X	X	X	X			
WS-05	11/20/96	1000		X	Pit	3	X	X	X	X			
WS-06	11/20/96	1010		X	Pit	3	X	X	X	X			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eric Tate	11/20/96 1730	FedEx - Tulsa OK			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Sherri Scott	11-21-96 1400		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

4 [illegible]c

6-07[illegible]5

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: Wilcox Oil

SAMPLERS: (Signature) Eric Tate (Eric Tate)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNAs	Total Metals	TPH			REMARKS
WS-07	11/20/96	1115		X	Tank Drainage Path	3	X	X	X	X			
WS-08	11/20/96	1400		X	Tank Bottom	3	X	X	X	X			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eric Tate	11/20/96 1730	FedEx - Tulsa, OK			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Sherri Scott	11-21-96 1351		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

29°C

6-07434

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SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 12/08/96 Digestion Batch No: 96GI665 Analyst: BM Client: USEPA-WILCOX

Completion Date: 12/08/96 Type of Prep.: ICP Method: 3050 CLP Matrix: SOIL

Parameters: AL,SB,BA,BE,CD,CA,CR,CO,CU,FE,MN,MG,NI,K-,AG,NA,V-,ZN
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH (2)	% Solids	C/D FACTOR	Parameters	Color Before	Color After	Clarity Before	Clarity After	Texture	Art	Comments
9611G675														
001	1.14	200		<	69.70	0.25171		BLACK	YELLOW			MEDIUM		
001 R	1.18	200		<	69.70	0.24317		BLACK	YELLOW			MEDIUM		
001 S	1.13	200	1	<	69.70	0.25393		BLACK	YELLOW			MEDIUM		
002	1.5	200		<	77.60	0.17182		BLACK	YELLOW			MEDIUM		
003	1.19	200		<	96.00	0.17507		BLACK	YELLOW			MEDIUM		
004	1.31	200		<	53.60	0.28484		BLACK	ORANGE			MEDIUM		
005	1.12	200		<	71.60	0.24940		BLACK	YELLOW			MEDIUM		
006	1.18	200		<	75.90	0.22331		BLACK	YELLOW			MEDIUM		
007	1.15	200		<	92.40	0.18822		BLACK	YELLOW			MEDIUM		
008	1.27	200		<	53.40	0.29491		BLACK	YELLOW			MEDIUM		
96GI665-MB1	1	200		<	100.00	0.20000								
96GI665-LC1 L	1	200	1	<	100.00	0.20000								

OK
12/10/96

Updated
12/11/96

DIGESTION CUSTODY SHEET

Extracts Transferred	Reliquished By	Date Time	Received By	Reliquished By	Date	Time	Received By
all	[illegible]	12/9/96 830	[illegible]				
	[illegible]	12/23/96 11:20	K Markle				

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 12/08/96 Digestion Batch No: 96GF345 Analyst: BM Client: USEPA-WILCOX

Completion Date: 12/08/96 Type of Prep.: AA Method: 3050 CLP Matrix: SOIL

Parameters: AS,SE,PB,TL
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH <2>	% Solids	C/D FACTOR	Parameters	Color Before	Color After	Clarity Before	Clarity After	Texture	Art	Comments
96116675														
001	1.18	200		<	69.70	0.24317								
001 R	1.05	200		<	69.70	0.27328								
001 S	1.17	200	1	<	69.70	0.24525								
002	1.31	200		<	77.60	0.19674								
003	1.3	200		<	96.00	0.16026								
004	1.3	200		<	53.60	0.28703								
005	1.28	200		<	71.60	0.21823								
006	1.3	200		<	75.90	0.20270								
007	1.28	200		<	92.40	0.16910								
008	1.44	200		<	53.40	0.26009								
96GF345-MB1	1	200		<	100.00	0.20000								
96GF345-LC1 L	1	200	1	<	100.00	0.20000								

ok
ED 12/9/96

Updated
SB 12/9/96

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Relinquished By	Date	Time	Received By
All	J. Novak	12/9 8:30	[illegible]				
All	E Dunk	1/3/97 1200	K Merkle				

DATA SUMMARY

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phone: (708) 534-5200 Fax: (708) 534-5211

To: USEPA-Wilcox Oil
Roy F. Weston, Incorporated
5599 San Felipe, Suite 700
Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-01
Project # 04606-056-026-0600
Lab ID: 9611G675-001
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.61	u	mg/kg	0.61
Silver, Total	0.45	u	mg/kg	0.45
Aluminum, Total	1750		mg/kg	4.2
Arsenic, Total	1.4		mg/kg	0.39
Barium, Total	22.2		mg/kg	0.35
Beryllium, Total	0.10		mg/kg	0.10
Calcium, Total	1020		mg/kg	2.1
Cadmium, Total	0.53	u	mg/kg	0.53
Cobalt, Total	1.9		mg/kg	0.70
Chromium, Total	2.7		mg/kg	0.43
Copper, Total	5.5		mg/kg	0.38
Iron, Total	2330		mg/kg	0.93
Mercury, Total	0.05	u	mg/kg	0.05
Potassium, Total	437		mg/kg	132
Magnesium, Total	278		mg/kg	4.9
Manganese, Total	68.4		mg/kg	0.20

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RE: WS-01
Project # 04606-056-026-0600
Lab ID: 9611G675-001
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	144		mg/kg	7.2
Nickel, Total	7.8		mg/kg	1.7
Lead, Total	25.8		mg/kg	1.1
Antimony, Total	4.0	u	mg/kg	4.0
Selenium, Total	0.44	u	mg/kg	0.44
Thallium, Total	0.39	u	mg/kg	0.39
Vanadium, Total	13.2		mg/kg	0.43
Zinc, Total	33.6		mg/kg	0.25

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-02
Project # 04606-056-026-0600
Lab ID: 9611G675-002
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.56	u	mg/kg	0.56
Silver, Total	0.31	u	mg/kg	0.31
Aluminum, Total	86.0		mg/kg	2.9
Arsenic, Total	1.1		mg/kg	0.31
Barium, Total	2.2		mg/kg	0.24
Beryllium, Total	0.07	u	mg/kg	0.07
Calcium, Total	161		mg/kg	1.4
Cadmium, Total	0.36	u	mg/kg	0.36
Cobalt, Total	0.48	u	mg/kg	0.48
Chromium, Total	0.30		mg/kg	0.29
Copper, Total	2.5		mg/kg	0.26
Iron, Total	548		mg/kg	0.64
Mercury, Total	0.06	u	mg/kg	0.06
Potassium, Total	90.4	u	mg/kg	90.4
Magnesium, Total	32.4		mg/kg	3.3
Manganese, Total	10.4		mg/kg	0.14

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-02
Project # 04606-056-026-0600
Lab ID: 9611G675-002
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	124		mg/kg	4.9
Nickel, Total	1.2	u	mg/kg	1.2
Lead, Total	8.7		mg/kg	0.89
Antimony, Total	2.7	u	mg/kg	2.7
Selenium, Total	0.35	u	mg/kg	0.35
Thallium, Total	0.31	u	mg/kg	0.31
Vanadium, Total	2.9		mg/kg	0.29
Zinc, Total	7.6		mg/kg	0.17

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-03
Project # 04606-056-026-0600
Lab ID: 9611G675-003
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.43	u	mg/kg	0.43
Silver, Total	0.32	u	mg/kg	0.32
Aluminum, Total	641		mg/kg	2.9
Arsenic, Total	1.2		mg/kg	0.26
Barium, Total	24.0		mg/kg	0.25
Beryllium, Total	0.07	u	mg/kg	0.07
Calcium, Total	2060		mg/kg	1.5
Cadmium, Total	0.37	u	mg/kg	0.37
Cobalt, Total	1.5		mg/kg	0.49
Chromium, Total	2.0		mg/kg	0.30
Copper, Total	5.7		mg/kg	0.26
Iron, Total	2940		mg/kg	0.65
Mercury, Total	0.04	u	mg/kg	0.04
Potassium, Total	348		mg/kg	92.1
Magnesium, Total	263		mg/kg	3.4
Manganese, Total	249		mg/kg	0.14

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-03
Project # 04606-056-026-0600
Lab ID: 9611G675-003
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	108		mg/kg	5.0
Nickel, Total	4.1		mg/kg	1.2
Lead, Total	37.8		mg/kg	3.7
Antimony, Total	2.8	u	mg/kg	2.8
Selenium, Total	0.29	u	mg/kg	0.29
Thallium, Total	0.26	u	mg/kg	0.26
Vanadium, Total	7.6		mg/kg	0.30
Zinc, Total	27.2		mg/kg	0.18

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-04
Project # 04606-056-026-0600
Lab ID: 9611G675-004
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	2.0		mg/kg	0.74
Silver, Total	2.0		mg/kg	0.51
Aluminum, Total	22100		mg/kg	4.8
Arsenic, Total	6.5		mg/kg	0.46
Barium, Total	191		mg/kg	0.40
Beryllium, Total	1.2		mg/kg	0.11
Calcium, Total	9460		mg/kg	2.4
Cadmium, Total	0.60	u	mg/kg	0.60
Cobalt, Total	10.3		mg/kg	0.80
Chromium, Total	24.3		mg/kg	0.48
Copper, Total	42.5		mg/kg	0.43
Iron, Total	19800		mg/kg	1.1
Mercury, Total	0.07	u	mg/kg	0.07
Potassium, Total	3300		mg/kg	150
Magnesium, Total	5080		mg/kg	5.5
Manganese, Total	701		mg/kg	0.23

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-04
Project # 04606-056-026-0600
Lab ID: 9611G675-004
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	289		mg/kg	8.2
Nickel, Total	20.9		mg/kg	1.9
Lead, Total	47000		mg/kg	152
Antimony, Total	7.7		mg/kg	4.6
Selenium, Total	1.0	u	mg/kg	1.0
Thallium, Total	0.46	u	mg/kg	0.46
Vanadium, Total	38.1		mg/kg	0.48
Zinc, Total	127		mg/kg	0.28

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-05
Project # 04606-056-026-0600
Lab ID: 9611G675-005
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.70	u	mg/kg	0.70
Silver, Total	0.67		mg/kg	0.45
Aluminum, Total	1070		mg/kg	4.2
Arsenic, Total	8.7		mg/kg	0.35
Barium, Total	44.2		mg/kg	0.35
Beryllium, Total	0.11		mg/kg	0.1
Calcium, Total	4420		mg/kg	2.1
Cadmium, Total	0.52	u	mg/kg	0.52
Cobalt, Total	2.8		mg/kg	0.70
Chromium, Total	4.7		mg/kg	0.42
Copper, Total	100		mg/kg	0.37
Iron, Total	8930		mg/kg	0.92
Mercury, Total	0.11		mg/kg	0.05
Potassium, Total	293		mg/kg	131
Magnesium, Total	598		mg/kg	4.8
Manganese, Total	86.4		mg/kg	0.20

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-05
Project # 04606-056-026-0600
Lab ID: 9611G675-005
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	1510		mg/kg	7.2
Nickel, Total	11.6		mg/kg	1.7
Lead, Total	3660		mg/kg	5.3
Antimony, Total	4.0	u	mg/kg	4.0
Selenium, Total	0.84		mg/kg	0.39
Thallium, Total	0.35	u	mg/kg	0.35
Vanadium, Total	10.9		mg/kg	0.42
Zinc, Total	66.4		mg/kg	0.25

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Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-06
Project # 04606-056-026-0600
Lab ID: 9611G675-006
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.44	u	mg/kg	0.44
Silver, Total	0.92		mg/kg	0.40
Aluminum, Total	957		mg/kg	3.7
Arsenic, Total	2.6		mg/kg	0.32
Barium, Total	47.4		mg/kg	0.31
Beryllium, Total	0.1		mg/kg	0.09
Calcium, Total	1510		mg/kg	1.9
Cadmium, Total	0.47	u	mg/kg	0.47
Cobalt, Total	2.8		mg/kg	0.63
Chromium, Total	3.1		mg/kg	0.38
Copper, Total	74.3		mg/kg	0.33
Iron, Total	8370		mg/kg	0.83
Mercury, Total	0.05	u	mg/kg	0.05
Potassium, Total	314		mg/kg	117
Magnesium, Total	290		mg/kg	4.3
Manganese, Total	36.7		mg/kg	0.18

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Houston, TX 77056-2721

Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-06
Project # 04606-056-026-0600
Lab ID: 9611G675-006
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	1450		mg/kg	6.4
Nickel, Total	8.8		mg/kg	1.5
Lead, Total	2260		mg/kg	4.8
Antimony, Total	3.6	u	mg/kg	3.6
Selenium, Total	0.44		mg/kg	0.36
Thallium, Total	0.32	u	mg/kg	0.32
Vanadium, Total	9.7		mg/kg	0.38
Zinc, Total	51.7		mg/kg	0.22

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-07
Project # 04606-056-026-0600
Lab ID: 9611G675-007
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.35	u	mg/kg	0.35
Silver, Total	0.46		mg/kg	0.34
Aluminum, Total	1840		mg/kg	3.1
Arsenic, Total	3.2		mg/kg	0.27
Barium, Total	24.7		mg/kg	0.26
Beryllium, Total	0.15		mg/kg	0.08
Calcium, Total	432		mg/kg	1.6
Cadmium, Total	0.40	u	mg/kg	0.40
Cobalt, Total	1.7		mg/kg	0.53
Chromium, Total	3.4		mg/kg	0.32
Copper, Total	11.0		mg/kg	0.28
Iron, Total	6180		mg/kg	0.70
Mercury, Total	0.04	u	mg/kg	0.04
Potassium, Total	238		mg/kg	99.0
Magnesium, Total	157		mg/kg	3.6
Manganese, Total	43.6		mg/kg	0.15

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-07
Project # 04606-056-026-0600
Lab ID: 9611G675-007
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	84.0		mg/kg	5.4
Nickel, Total	4.7		mg/kg	1.3
Lead, Total	14.0		mg/kg	0.76
Antimony, Total	3.0	u	mg/kg	3.0
Selenium, Total	0.30	u	mg/kg	0.30
Thallium, Total	0.27	u	mg/kg	0.27
Vanadium, Total	11.0		mg/kg	0.32
Zinc, Total	41.8		mg/kg	0.19

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-08
Project # 04606-056-026-0600
Lab ID: 9611G675-008
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Cyanide, Total	0.95		mg/kg	0.62
Silver, Total	0.90		mg/kg	0.53
Aluminum, Total	9720		mg/kg	4.9
Arsenic, Total	2.8		mg/kg	0.42
Barium, Total	129		mg/kg	0.41
Beryllium, Total	0.58		mg/kg	0.12
Calcium, Total	3110		mg/kg	2.4
Cadmium, Total	0.70		mg/kg	0.62
Cobalt, Total	5.9		mg/kg	0.83
Chromium, Total	13.4		mg/kg	0.50
Copper, Total	13.9		mg/kg	0.44
Iron, Total	10800		mg/kg	1.1
Mercury, Total	0.06	u	mg/kg	0.06
Potassium, Total	1350		mg/kg	155
Magnesium, Total	999		mg/kg	5.7
Manganese, Total	938		mg/kg	0.24

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Attn: Ms. Diane Williams

Date: Tuesday January 14th, 1997

RE: WS-08
Project # 04606-056-026-0600
Lab ID: 9611G675-008
Sample Date: 11/20/96
Date Received: 11/21/96

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Sodium, Total	115		mg/kg	8.5
Nickel, Total	17.4		mg/kg	2.0
Lead, Total	77.8		mg/kg	6.3
Antimony, Total	4.7	u	mg/kg	4.7
Selenium, Total	0.47		mg/kg	0.47
Thallium, Total	0.42	u	mg/kg	0.42
Vanadium, Total	26.3		mg/kg	0.50
Zinc, Total	160		mg/kg	0.29

WESTON
MANAGERS DESIGNERS/CONSULTANTS

CASE NARRATIVE

Weston Environmental Metrics, Inc.
INORGANICS CASE NARRATIVE

Client: USEPA-Wilcox Oil
RFW#: 9611G675
SDG#: WS-01

WO#: 04606-056-026-0600
Date Rec'd: 11/21/96

1. This narrative covers the analysis of 8 soil samples for Cyanide and the following metals:

   ICP ..... Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni, Sb,V,Zn
   ICP ..... Pb (samples 003-006,008)
   GFAA ..... Pb (samples 001,002,007)
   GFAA ..... As,Se,Tl
   CVAA ..... Hg

   Method Ref: USEPA CLP SOW ILM03.0

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits except for:

   ICP Run 2 CCB 5 Cd 8.44 ug/L
   CCB 6 Cd 7.14

   None of the samples from this delivery group was bracketed by the above CCB's.

5. All Preparation/Method Blanks were below reporting limits.

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. All Laboratory Control Samples (LCS) were within the 80-120% control limits.
   Please note: A solid matrix LCS was analyzed with Cyanide soil digestion batch. The Certified value was 302.0 mg/Kg. The % recovery was within 34.8 - 172.1% (control limits established by the vendor). Additionally the Mid range distilled standard was also within control limits. The results of this mid range distilled standard appear only in the raw data.

8. All Serial dilution analysis were within control limits except for:

   9611G675-001 Zn 10.3%

Inorganics case narrtaive
9611G675

9. All Matrix Spike recoveries were within the 75-125% control limits (exception allowed when the sample concentration exceeds the spike added concentration by a factor of 4 or more) except for:

9611G675-001	Al	272.0%
	Sb	74.0

Post matrix spike analysis was performed as following:

9611G675-001	Sb	90.2%

10. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits for sample results greater than 5X the reporting limits or +\- the reporting limit for sample concentration less than 5X the reporting limits except for:

9611G675-001	Al	44.1%	Pb	37.3% (ICP)
	Fe	27.3		

11. All Analytical spike recovery analyses were within control limits except for:

Se	007
Tl	004,008

12. Method of Standard Additions (MSA) analysis was performed as following:

9611G675-004	As,Se

Mani S. Iyer

Mani S.Iyer
Metals Section Manager

1/13/97
Date

INORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B Result is less than the CRDL, but greater than or equal to the instrument detection limit
E Result is estimated due to interference
M Analyte concentrations are greater than the CRDL, and the RSD of duplicate injections was greater than 20%
N Matrix spike recovery was outside the control limits
S Result was determined by the Method of Standard Additions (MSA)
T Analyte was found in the TCLP extraction blank and sample
U Analyte was not detected at or above the reporting limit
W Post-digestion spike was outside 85-115% control limits, sample absorbence is less than 50% of spike absorbence
+ MSA correlation coefficient is less than 0.995
* Duplicate analysis was outside the control limits

Abbreviations

A	Analyzed by flame A.A. direct aspiration
Batch	Identifies a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
C	Cyanide analyte flag on CLP form
CCB	Continuing calibration blank
CCV	Continuing calibration verification
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
CV	Analyzed by the cold vapor generation method for Mercury
Contract	Contract laboratory identification code
DF	Dilution factor
F	Analyzed by graphite furnace atomic absorption spectroscopy
ICB	Initial calibration blank
ICV	Initial calibration verification
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Weston laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
P	Analyzed by inductively coupled argon plasma
REP	Replicate analysis
RFW#	The full 12 character WESTON laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate analyses
WO#	Work order no. WESTON code used to define a specific client, job, phase and task
X	Result obtained indirectly through calculation based on results from other analyses

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilution and sample moisture content if analyzed on a dry weight basis.

RFW 21-21G-1305/A-4/96

DATA REPORTING FORMS

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
WS-01	9611G675-001
WS-02	9611G675-002
WS-03	9611G675-003
WS-04	9611G675-004
WS-05	9611G675-005
WS-06	9611G675-006
WS-07	9611G675-007
WS-08	9611G675-008
WS-01_S	9611G675-001S
WS-01_D	9611G675-001D

Were ICP interelement corrections applied ? Yes/No YES

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

Comments:

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

Signature: Mani S. Iyer Name: MANI S. IYER

Date: 1/13/97 Title: Metals Section Manager

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-01_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-001

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _69.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1750		N*	P
7440-36-0	Antimony_	4.0	U	N	P
7440-38-2	Arsenic__	1.4	B		F
7440-39-3	Barium___	22.2	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium__	0.53	U		P
7440-70-2	Calcium__	1020	B		P
7440-47-3	Chromium_	2.7			P
7440-48-4	Cobalt___	1.9	B		P
7440-50-8	Copper___	5.5	B		P
7439-89-6	Iron____	2330		*	P
7439-92-1	Lead____	25.8			F
7439-95-4	Magnesium	278	B		P
7439-96-5	Manganese	68.4			P
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	7.8	B		P
7440-09-7	Potassium	437	B		P
7782-49-2	Selenium_	0.44	U		F
7440-22-4	Silver___	0.45	U		P
7440-23-5	Sodium___	144	B		P
7440-28-0	Thallium_	0.39	U		F
7440-62-2	Vanadium_	13.2			P
7440-66-6	Zinc____	33.6		E	P
	Cyanide__	0.61	U		C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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1.
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-02_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-002

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _77.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	86.0		N*	P
7440-36-0	Antimony_	2.7	U	N	P
7440-38-2	Arsenic__	1.1	B		F
7440-39-3	Barium___	2.2	B		P
7440-41-7	Beryllium	0.07	U		P
7440-43-9	Cadmium__	0.36	U		P
7440-70-2	Calcium__	161	B		P
7440-47-3	Chromium_	0.30	B		P
7440-48-4	Cobalt___	0.48	U		P
7440-50-8	Copper___	2.5	B		P
7439-89-6	Iron____	548		*	P
7439-92-1	Lead____	8.7			F
7439-95-4	Magnesium	32.4	B		P
7439-96-5	Manganese	10.4			P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	1.2	U		P
7440-09-7	Potassium	90.4	U		P
7782-49-2	Selenium_	0.35	U		F
7440-22-4	Silver___	0.31	U		P
7440-23-5	Sodium___	124	B		P
7440-28-0	Thallium_	0.31	U		F
7440-62-2	Vanadium_	2.9	B		P
7440-66-6	Zinc____	7.6		E	P
	Cyanide__	0.56	U		C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-03_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-003

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	641		N*	P_
7440-36-0	Antimony_	2.8	U	N	P_
7440-38-2	Arsenic__	1.2	B		F_
7440-39-3	Barium___	24.0	B		P_
7440-41-7	Beryllium	0.07	U		P_
7440-43-9	Cadmium__	0.37	U		P_
7440-70-2	Calcium__	2060			P_
7440-47-3	Chromium_	2.0			P_
7440-48-4	Cobalt___	1.5	B		P_
7440-50-8	Copper___	5.7			P_
7439-89-6	Iron____	2940		*	P_
7439-92-1	Lead____	37.8		*	P_
7439-95-4	Magnesium	263	B		P_
7439-96-5	Manganese	249			P_
7439-97-6	Mercury__	0.04	U		CV
7440-02-0	Nickel___	4.1	B		P_
7440-09-7	Potassium	348	B		P_
7782-49-2	Selenium_	0.29	U		F_
7440-22-4	Silver___	0.32	U		P_
7440-23-5	Sodium___	108	B		P_
7440-28-0	Thallium_	0.26	U		F_
7440-62-2	Vanadium_	7.6	B		P_
7440-66-6	Zinc____	27.2		E	P_
	Cyanide__	0.43	U		C_

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-04_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-004

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _53.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	22100		N*	P
7440-36-0	Antimony_	7.7	B	N	P
7440-38-2	Arsenic__	6.5		S	F
7440-39-3	Barium___	191			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium__	0.60	U		P
7440-70-2	Calcium__	9460			P
7440-47-3	Chromium_	24.3			P
7440-48-4	Cobalt___	10.3	B		P
7440-50-8	Copper___	42.5			P
7439-89-6	Iron____	19800		*	P
7439-92-1	Lead____	47000		*	P
7439-95-4	Magnesium	5080			P
7439-96-5	Manganese	701			P
7439-97-6	Mercury__	0.07	U		CV
7440-02-0	Nickel___	20.9			P
7440-09-7	Potassium	3300			P
7782-49-2	Selenium_	1.0	U		F
7440-22-4	Silver___	2.0	B		P
7440-23-5	Sodium___	289	B		P
7440-28-0	Thallium_	0.46	U	W	F
7440-62-2	Vanadium_	38.1			P
7440-66-6	Zinc____	127		E	P
	Cyanide__	2.0			C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: ORANGE___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-05_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-005

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _71.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1070		N*	P
7440-36-0	Antimony_	4.0	U	N	P
7440-38-2	Arsenic__	8.7			F
7440-39-3	Barium___	44.2	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium__	0.52	U		P
7440-70-2	Calcium__	4420			P
7440-47-3	Chromium_	4.7			P
7440-48-4	Cobalt___	2.8	B		P
7440-50-8	Copper___	100			P
7439-89-6	Iron_____	8930		*	P
7439-92-1	Lead_____	3660		*	P
7439-95-4	Magnesium	598	B		P
7439-96-5	Manganese	86.4			P
7439-97-6	Mercury__	0.11			CV
7440-02-0	Nickel___	11.6			P
7440-09-7	Potassium	293	B		P
7782-49-2	Selenium_	0.84	B		F
7440-22-4	Silver___	0.67	B		P
7440-23-5	Sodium___	1510			P
7440-28-0	Thallium_	0.35	U		F
7440-62-2	Vanadium_	10.9	B		P
7440-66-6	Zinc_____	66.4		E	P
_____	Cyanide__	0.70	U		C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-06_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-006

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _75.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	957		N*	P_
7440-36-0	Antimony_	3.6	U	N	P_
7440-38-2	Arsenic__	2.6			F_
7440-39-3	Barium___	47.4			P_
7440-41-7	Beryllium	0.10	B		P_
7440-43-9	Cadmium__	0.47	U		P_
7440-70-2	Calcium__	1510			P_
7440-47-3	Chromium_	3.1			P_
7440-48-4	Cobalt___	2.8	B		P_
7440-50-8	Copper___	74.3			P_
7439-89-6	Iron____	8370		*	P_
7439-92-1	Lead____	2260		*	P_
7439-95-4	Magnesium	290	B		P_
7439-96-5	Manganese	36.7			P_
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	8.8	B		P_
7440-09-7	Potassium	314	B		P_
7782-49-2	Selenium_	0.44	B		F_
7440-22-4	Silver___	0.92	B		P_
7440-23-5	Sodium___	1450			P_
7440-28-0	Thallium_	0.32	U		F_
7440-62-2	Vanadium_	9.7	B		P_
7440-66-6	Zinc____	51.7		E	P_
	Cyanide__	0.44	U		C_

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-07_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-007

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _92.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1840		N*	P
7440-36-0	Antimony_	3.0	U	N	P
7440-38-2	Arsenic__	3.2			F
7440-39-3	Barium___	24.7	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium__	0.40	U		P
7440-70-2	Calcium__	432	B		P
7440-47-3	Chromium_	3.4			P
7440-48-4	Cobalt___	1.7	B		P
7440-50-8	Copper___	11.0			P
7439-89-6	Iron_____	6180		*	P
7439-92-1	Lead_____	14.0			F
7439-95-4	Magnesium	157	B		P
7439-96-5	Manganese	43.6			P
7439-97-6	Mercury__	0.04	U		CV
7440-02-0	Nickel___	4.7	B		P
7440-09-7	Potassium	238	B		P
7782-49-2	Selenium_	0.30	U	W	F
7440-22-4	Silver___	0.46	B		P
7440-23-5	Sodium___	84.0	B		P
7440-28-0	Thallium_	0.27	U		F
7440-62-2	Vanadium_	11.0			P
7440-66-6	Zinc_____	41.8		E	P
	Cyanide__	0.35	U		C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS-08_

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Lab Sample ID: 9611G675-008

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: _53.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9720		N*	P
7440-36-0	Antimony_	4.7	U	N	P
7440-38-2	Arsenic__	2.8			F
7440-39-3	Barium___	129			P
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium__	0.70	B		P
7440-70-2	Calcium__	3110			P
7440-47-3	Chromium_	13.4			P
7440-48-4	Cobalt___	5.9	B		P
7440-50-8	Copper___	13.9			P
7439-89-6	Iron_____	10800		*	P
7439-92-1	Lead_____	77.8		*	P
7439-95-4	Magnesium	999	B		P
7439-96-5	Manganese	938			P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	17.4			P
7440-09-7	Potassium	1350	B		P
7782-49-2	Selenium_	0.47	B		F
7440-22-4	Silver___	0.90	B		P
7440-23-5	Sodium___	115	B		P
7440-28-0	Thallium_	0.42	U	W	F
7440-62-2	Vanadium_	26.3			P
7440-66-6	Zinc_____	160		E	P
	Cyanide__	0.95			C

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	40000.0	39777.69	99.4	50000.0	50732.74	101.5	49867.31	99.7	P
Antimony	800.0	815.01	101.9	1000.0	1020.06	102.0	1023.13	102.3	P
Arsenic	25.0	26.67	106.7	35.0	35.58	101.7	36.42	104.1	F
Barium	8000.0	8203.35	102.5	10000.0	10279.45	102.8	10183.58	101.8	P
Beryllium	2000.0	2014.54	100.7	2500.0	2506.37	100.3	2497.82	99.9	P
Cadmium	2000.0	2001.87	100.1	2500.0	2485.56	99.4	2512.30	100.5	P
Calcium	40000.0	40076.47	100.2	50000.0	50138.36	100.3	49018.44	98.0	P
Chromium	4000.0	4075.07	101.9	5000.0	5049.74	101.0	4992.74	99.9	P
Cobalt	4000.0	4052.05	101.3	5000.0	5030.34	100.6	5043.24	100.9	P
Copper	4000.0	3966.06	99.2	5000.0	5006.13	100.1	4916.38	98.3	P
Iron	20000.0	20234.79	101.2	25000.0	25164.10	100.7	25214.36	100.9	P
Lead	4000.0	4079.37	102.0	5000.0	5038.41	100.8	5070.52	101.4	P
Magnesium	40000.0	39661.05	99.2	50000.0	49595.94	99.2	49115.11	98.2	P
Manganese	4000.0	4041.64	101.0	5000.0	4996.81	99.9	4962.69	99.3	P
Mercury	2.0	2.08	104.0	1.0	0.98	98.0	1.02	102.0	CV
Nickel	4000.0	4087.31	102.2	5000.0	5061.50	101.2	5084.77	101.7	P
Potassium	40000.0	39853.87	99.6	50000.0	50122.09	100.2	50181.76	100.4	P
Selenium	35.0	35.76	102.2	25.0	26.36	105.4	25.95	103.8	F
Silver	800.0	800.18	100.0	1000.0	999.61	100.0	995.50	99.6	P
Sodium	40000.0	40129.54	100.3	50000.0	51696.10	103.4	52415.32	104.8	P
Thallium	25.0	25.67	102.7	35.0	34.70	99.1	34.26	97.9	F
Vanadium	4000.0	4048.29	101.2	5000.0	5054.66	101.1	5042.75	100.9	P
Zinc	4000.0	4073.36	101.8	5000.0	5076.66	101.5	5044.75	100.9	P
Cyanide	100.0	104.34	104.3	200.0	206.52	103.3	205.47	102.7	C

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

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				50000.0	49730.88	99.5	49661.81	99.3	P
Antimony				1000.0	1035.73	103.6	1037.26	103.7	P
Arsenic				35.0	38.23	109.2	36.10	103.1	F
Barium				10000.0	10178.24	101.8	10202.02	102.0	P
Beryllium				2500.0	2507.96	100.3	2511.21	100.4	P
Cadmium				2500.0	2512.85	100.5	2516.93	100.7	P
Calcium				50000.0	49342.81	98.7	49256.60	98.5	P
Chromium				5000.0	4982.19	99.6	4985.46	99.7	P
Cobalt				5000.0	5058.65	101.2	5059.39	101.2	P
Copper				5000.0	4869.04	97.4	4846.47	96.9	P
Iron				25000.0	25282.44	101.1	25312.49	101.2	P
Lead				5000.0	5088.36	101.8	5091.62	101.8	P
Magnesium				50000.0	49092.72	98.2	48957.00	97.9	P
Manganese				5000.0	4970.29	99.4	4962.61	99.3	P
Mercury									NR
Nickel				5000.0	5097.06	101.9	5107.81	102.2	P
Potassium				50000.0	50112.08	100.2	50026.86	100.1	P
Selenium				25.0	25.33	101.3	25.03	100.1	F
Silver				1000.0	993.29	99.3	991.94	99.2	P
Sodium				50000.0	50738.14	101.5	50672.73	101.3	P
Thallium				35.0	35.41	101.2	33.99	97.1	F
Vanadium				5000.0	5051.00	101.0	5041.80	100.8	P
Zinc				5000.0	5125.56	102.5	5140.82	102.8	P
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				50000.0	50612.32	101.2	50575.03	101.2	P
Antimony				1000.0	1048.63	104.9	1004.70	100.5	P
Arsenic	25.0	27.46	109.8	35.0	37.44	107.0	37.32	106.6	F
Barium				10000.0	10308.17	103.1	10177.67	101.8	P
Beryllium				2500.0	2511.71	100.5	2488.22	99.5	P
Cadmium				2500.0	2510.57	100.4	2480.94	99.2	P
Calcium				50000.0	48394.21	96.8	49648.01	99.3	P
Chromium				5000.0	4967.59	99.4	5017.69	100.4	P
Cobalt				5000.0	5033.01	100.7	4986.08	99.7	P
Copper				5000.0	4884.54	97.7	5045.41	100.9	P
Iron				25000.0	25361.84	101.4	24931.19	99.7	P
Lead				5000.0	5037.30	100.7	5004.07	100.1	P
Magnesium				50000.0	49129.93	98.3	49823.70	99.6	P
Manganese				5000.0	4938.75	98.8	4993.22	99.9	P
Mercury									NR
Nickel				5000.0	5075.17	101.5	5033.10	100.7	P
Potassium				50000.0	50457.82	100.9	51037.80	102.1	P
Selenium				25.0	24.82	99.3	24.57	98.3	F
Silver				1000.0	988.21	98.8	1000.58	100.1	P
Sodium				50000.0	51591.60	103.2	51242.72	102.5	P
Thallium				35.0	34.79	99.4	34.26	97.9	F
Vanadium				5000.0	5036.48	100.7	5048.90	101.0	P
Zinc				5000.0	5124.01	102.5	5015.94	100.3	P
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				50000.0	50495.86	101.0	50256.91	100.5	P
Antimony				1000.0	1020.14	102.0	1022.02	102.2	P
Arsenic				35.0	37.50	107.1			F
Barium				10000.0	10208.59	102.1	10101.75	101.0	P
Beryllium				2500.0	2485.35	99.4	2475.23	99.0	P
Cadmium				2500.0	2493.90	99.8	2515.41	100.6	P
Calcium				50000.0	49973.54	99.9	50657.89	101.3	P
Chromium				5000.0	5020.11	100.4	5055.70	101.1	P
Cobalt				5000.0	4989.41	99.8	5022.50	100.4	P
Copper				5000.0	5069.85	101.4	5025.84	100.5	P
Iron				25000.0	24999.35	100.0	25125.18	100.5	P
Lead				5000.0	4977.27	99.5	5053.12	101.1	P
Magnesium				50000.0	49750.86	99.5	49670.04	99.3	P
Manganese				5000.0	4957.60	99.2	4953.96	99.1	P
Mercury									NR
Nickel				5000.0	5009.21	100.2	5046.39	100.9	P
Potassium				50000.0	49853.64	99.7	50192.71	100.4	P
Selenium				25.0	25.38	101.5	25.45	101.8	F
Silver				1000.0	998.71	99.9	1001.63	100.2	P
Sodium				50000.0	48637.90	97.3	50611.48	101.2	P
Thallium				35.0	35.83	102.4	36.32	103.8	F
Vanadium				5000.0	5051.57	101.0	5060.31	101.2	P
Zinc				5000.0	5034.20	100.7	5023.42	100.5	P
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				50000.0	50194.51	100.4	50356.78	100.7	P
Antimony				1000.0	1038.87	103.9	1036.99	103.7	P
Arsenic									NR
Barium				10000.0	10080.77	100.8	10141.17	101.4	P
Beryllium				2500.0	2493.39	99.7	2493.35	99.7	P
Cadmium				2500.0	2505.39	100.2	2508.29	100.3	P
Calcium				50000.0	49927.52	99.9	50797.94	101.6	P
Chromium				5000.0	5063.51	101.3	5055.82	101.1	P
Cobalt				5000.0	5035.77	100.7	5036.71	100.7	P
Copper				5000.0	5019.18	100.4	5012.59	100.3	P
Iron				25000.0	25183.80	100.7	25166.17	100.7	P
Lead				5000.0	5079.88	101.6	5099.40	102.0	P
Magnesium				50000.0	49730.74	99.5	49816.15	99.6	P
Manganese				5000.0	4952.47	99.0	4955.30	99.1	P
Mercury									NR
Nickel				5000.0	5054.64	101.1	5045.20	100.9	P
Potassium				50000.0	50121.00	100.2	50236.88	100.5	P
Selenium				25.0	26.04	104.2	25.66	102.6	F
Silver				1000.0	997.81	99.8	997.13	99.7	P
Sodium				50000.0	50416.73	100.8	49971.08	99.9	P
Thallium				35.0	35.63	101.8	35.07	100.2	F
Vanadium				5000.0	5064.50	101.3	5063.92	101.3	P
Zinc				5000.0	5217.08	104.3	5209.52	104.2	P
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				50000.0	50905.84	101.8			P
Antimony				1000.0	1032.81	103.3			P
Arsenic									NR
Barium				10000.0	10231.58	102.3			P
Beryllium				2500.0	2477.90	99.1			P
Cadmium				2500.0	2482.90	99.3			P
Calcium				50000.0	49054.14	98.1			P
Chromium				5000.0	5004.10	100.1			P
Cobalt				5000.0	4963.85	99.3			P
Copper				5000.0	5064.73	101.3			P
Iron				25000.0	24909.21	99.6			P
Lead				5000.0	4996.96	99.9			P
Magnesium				50000.0	49508.88	99.0			P
Manganese				5000.0	4895.04	97.9			P
Mercury									NR
Nickel				5000.0	4967.24	99.3			P
Potassium				50000.0	50830.32	101.7			P
Selenium				25.0	26.12	104.5	26.26	105.0	F
Silver				1000.0	996.90	99.7			P
Sodium				50000.0	51441.21	102.9			P
Thallium				35.0	36.75	105.0	35.46	101.3	F
Vanadium				5000.0	5033.71	100.7			P
Zinc				5000.0	5165.78	103.3			P
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	2000.0	1993.68	99.7	2500.0	2513.22	100.5	2518.13	100.7	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	4000.0	4034.93	100.9	5000.0	5068.84	101.4	5064.29	101.3	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	25.70	102.8			F
Silver									NR
Sodium									NR
Thallium				35.0	35.64	101.8	37.17	106.2	F
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				2500.0	2516.75	100.7	2512.28	100.5	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				5000.0	5078.02	101.6	5042.67	100.9	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	35.0	35.16	100.5	25.0	24.97	99.9	24.30	97.2	F
Silver									NR
Sodium									NR
Thallium				35.0	36.19	103.4	35.59	101.7	F
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				2500.0	2438.60	97.5	2491.13	99.6	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				5000.0	4855.98	97.1	4980.09	99.6	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	22.90	91.6	25.72	102.9	F
Silver									NR
Sodium									NR
Thallium				35.0	34.95	99.9	36.28	103.7	F
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				2500.0	2548.51	101.9	2568.32	102.7	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				5000.0	5066.14	101.3	5100.22	102.0	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	25.19	100.8	26.19	104.8	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	25.0	26.00	104.0	35.0	34.85	99.6	35.01	100.0	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	26.72	106.9	25.34	101.4	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	35.84	102.4	36.62	104.6	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	35.0	35.88	102.5	25.0	25.10	100.4	26.06	104.2	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	36.44	104.1	36.35	103.9	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.79	99.2			F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	33.71	96.3	33.22	94.9	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	34.08	97.4	34.60	98.9	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	34.84	99.5	35.97	102.8	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				35.0	36.15	103.3	36.98	105.7	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				400.0	400.61	100.2	383.65	95.9
Antimony				120.0	116.69	97.2	107.18	89.3
Arsenic	10.0	9.93	99.3					
Barium				400.0	421.98	105.5	418.05	104.5
Beryllium				10.0	10.78	107.8	10.31	103.1
Cadmium				10.0	10.35	103.5	9.39	93.9
Calcium				2000.0	2081.73	104.1	2038.29	101.9
Chromium				20.0	20.89	104.4	20.86	104.3
Cobalt				100.0	105.28	105.3	105.08	105.1
Copper				50.0	51.89	103.8	50.68	101.4
Iron				200.0	209.22	104.6	206.51	103.3
Lead	3.0	3.48	116.0	100.0	104.19	104.2	103.31	103.3
Magnesium				2000.0	1968.72	98.4	1960.86	98.0
Manganese				30.0	31.45	104.8	29.99	100.0
Mercury	0.2	0.18	90.0					
Nickel				80.0	84.56	105.7	77.38	96.7
Potassium				2000.0	1907.49	95.4	2151.04	107.6
Selenium	5.0	6.00	120.0					
Silver				20.0	19.63	98.2	19.32	96.6
Sodium				2000.0	1994.55	99.7	1990.21	99.5
Thallium	10.0	9.73	97.3					
Vanadium				100.0	104.88	104.9	102.19	102.2
Zinc				40.0	46.50	116.2	46.15	115.4

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic	10.0	10.65	106.5					
Barium								
Beryllium								
Cadmium				10.0	9.92	99.2	12.69	126.9
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				100.0	104.69	104.7	105.06	105.1
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	5.37	107.4					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	4.43	88.6					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	16.7	U	50.5	B	27.6	B	29.0	B	3.340	U	P
Antimony	16.0	U	16.0	U	16.0	U	16.0	U	3.200	U	P
Arsenic	1.6	U	1.6	U	1.6	U	1.6	U	0.320	U	F
Barium	3.4	B	3.2	B	3.6	B	5.1	B	0.280	U	P
Beryllium	0.8	B	0.9	B	0.9	B	1.3	B	0.080	U	P
Cadmium	2.1	U	2.1	U	2.1	U	2.1	U	-0.430	B	P
Calcium	10.2	B	62.1	B	32.9	B	46.0	B	1.660	U	P
Chromium	1.7	U	1.7	U	2.3	B	1.7	U	0.340	U	P
Cobalt	2.8	U	2.8	U	2.8	U	2.8	U	0.560	U	P
Copper	1.6	B	2.6	B	2.5	B	2.4	B	0.300	U	P
Iron	3.7	U	20.6	B	8.3	B	11.4	B	0.740	U	P
Lead	21.4	U	21.4	U	21.4	U	21.4	U	4.280	U	P
Magnesium	19.3	U	60.3	B	35.1	B	34.6	B	3.860	U	P
Manganese	1.0	B	0.8	U	0.8	U	1.3	B	0.160	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.050	U	CV
Nickel	6.7	U	6.7	U	6.7	U	6.7	U	1.340	U	P
Potassium	526.0	U	526.0	U	526.0	U	526.0	U	105.200	U	P
Selenium	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	F
Silver	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Sodium	-49.0	B	-83.0	B	-131.2	B	-105.0	B	5.740	U	P
Thallium	1.6	U	1.6	U	1.6	U	1.6	U	0.320	U	F
Vanadium	1.7	U	1.7	U	1.7	B	2.9	B	0.340	U	P
Zinc	1.6	B	1.6	B	1.8	B	2.6	B	0.308	B	P
Cyanide	10.0	U	10.0	U	10.0	U			0.455	U	C

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3
BLANKS

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			16.7	U	139.6	B	70.7	B			P
Antimony			16.0	U	16.0	U	16.0	U			P
Arsenic			1.6	U							F
Barium			3.6	B	3.8	B	10.0	B			P
Beryllium			1.0	B	1.0	B	2.6	B			P
Cadmium			2.1	U	2.1	U	2.8	B			P
Calcium			26.8	B	154.1	B	70.5	B			P
Chromium			1.7	U	1.7	U	4.7	B			P
Cobalt			2.8	U	2.8	U	6.4	B			P
Copper			2.6	B	2.5	B	5.0	B			P
Iron			3.7	U	60.5	B	26.7	B			P
Lead			21.4	U	21.4	U	21.4	U			P
Magnesium			20.7	B	162.6	B	71.9	B			P
Manganese			0.8	U	0.8	U	3.8	B			P
Mercury											NR
Nickel			6.7	U	-7.3	B	6.7	U			P
Potassium			526.0	U	526.0	U	526.0	U			P
Selenium			1.8	U	1.8	U	1.8	U			F
Silver			1.8	U	1.8	U	1.9	B			P
Sodium			-109.9	B	-193.7	B	33.8	B			P
Thallium			1.6	U	1.6	U	1.6	U			F
Vanadium			2.0	B	2.3	B	5.0	B			P
Zinc			2.3	B	2.8	B	5.6	B			P
Cyanide											NR

U.S. EPA - CLP

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			16.7	U	16.7	U	16.7	U			P
Antimony			16.0	U	16.0	U	16.0	U			P
Arsenic	1.6	U	1.6	U	1.6	U	1.6	U			F
Barium			2.3	B	3.0	B	2.6	B			P
Beryllium			0.8	B	0.6	B	0.7	B			P
Cadmium			2.1	U	2.1	U	2.1	U			P
Calcium			8.3	U	8.3	U	8.3	U			P
Chromium			1.7	B	1.7	U	1.7	U			P
Cobalt			4.7	B	2.8	U	2.8	U			P
Copper			2.5	B	1.5	U	1.5	U			P
Iron			-7.6	B	-8.7	B	-8.6	B			P
Lead			21.4	U	21.4	U	21.4	U			P
Magnesium			19.3	U	19.3	U	19.3	U			P
Manganese			0.8	U	0.8	U	0.8	U			P
Mercury											NR
Nickel			6.7	U	6.7	U	-10.0	B			P
Potassium			526.0	U	526.0	U	526.0	U			P
Selenium			1.8	U	1.8	U	1.8	U			F
Silver			1.8	U	1.8	U	1.8	U			P
Sodium			28.7	U	-57.9	B	-93.0	B			P
Thallium			1.6	U	1.6	U	1.6	U			F
Vanadium			1.7	U	1.7	U	1.7	U			P
Zinc			1.6	B	1.3	B	1.3	B			P
Cyanide											NR

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			16.7	U	16.7	U					P
Antimony			16.0	U	16.0	U					P
Arsenic											NR
Barium			2.5	B	2.0	B					P
Beryllium			0.6	B	0.6	B					P
Cadmium			2.1	U	2.1	U					P
Calcium			8.3	U	12.9	B					P
Chromium			2.4	B	2.8	B					P
Cobalt			3.3	B	2.8	U					P
Copper			2.6	B	1.5	U					P
Iron			3.7	U	3.7	U					P
Lead			21.4	U	21.4	U					P
Magnesium			19.3	U	19.4	B					P
Manganese			0.8	U	0.8	U					P
Mercury											NR
Nickel			6.7	U	6.7	U					P
Potassium			526.0	U	526.0	U					P
Selenium			1.8	U	1.8	U	1.8	U			F
Silver			1.8	U	1.8	U					P
Sodium			-46.9	B	-41.7	B					P
Thallium			1.6	U	1.6	U	1.6	U			F
Vanadium			1.7	U	1.7	U					P
Zinc			1.5	B	1.2	B					P
Cyanide											NR

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3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	3.1	B	2.1	U	2.1	U	2.1	U			P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	21.4	U	21.4	U	21.4	U	21.4	U			P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			1.8	U							F
Silver											NR
Sodium											NR
Thallium			1.6	U	1.6	U	1.6	U			F
Vanadium											NR
Zinc											NR
Cyanide											NR

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium			2.1	U	8.4		7.1				P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			21.4	U	21.4	U	21.4	U			P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	1.8	U	1.8	U	1.8	U	1.8	U			F
Silver											NR
Sodium											NR
Thallium			1.6	U	1.6	U	1.6	U			F
Vanadium											NR
Zinc											NR
Cyanide											NR

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium			4.0	B	4.1	B					P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			21.4	U	21.4	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			1.8	U	1.8	U	1.8	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	0.9	U	0.9	U	0.9	U	0.9	U	0.268	B	F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			1.8	U	1.8	U					F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			0.9	U	0.9	U	0.9	U			F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	1.8	U	1.8	U	1.8	U	1.8	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			0.9	U	0.9	U	0.9	U			F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			0.9	U	1.0	B	0.9	U			F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			0.9	U	1.2	B					F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ ICS Source: INORGAN VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	50000	500000	560979	566137.1	113.2	563449	568866.6	113.8
Antimony	0	0	34	41.1		37	41.0	
Arsenic								
Barium	0	500	2	530.9	106.2	2	527.0	105.4
Beryllium	0	500	0	516.8	103.4	0	510.0	102.0
Cadmium	0	1000	2	1075.3	107.5	-1	1054.9	105.5
Calcium	500000	500000	504203	513866.5	102.8	499060	505580.7	101.1
Chromium	0	500	5	515.6	103.1	6	510.8	102.2
Cobalt	0	500	-6	504.2	100.8	-5	496.9	99.4
Copper	0	500	9	546.2	109.2	12	553.9	110.8
Iron	20000	200000	197492	199256.0	99.6	197224	196888.2	98.4
Lead	0	1000	43	1062.3	106.2	33	1048.0	104.8
Magnesium	500000	500000	538620	540692.9	108.1	542874	541089.7	108.2
Manganese	0	500	3	510.9	102.2	10	504.4	100.9
Mercury								
Nickel	0	1000	11	1024.7	102.5	6	995.7	99.6
Potassium	0	0	-527	-663.5		-244	-176.8	
Selenium								
Silver	0	1000	-1	1100.9	110.1	9	1120.2	112.0
Sodium	0	0	-146	-138.1		-194	-140.0	
Thallium								
Vanadium	0	500	3	515.1	103.0	14	521.4	104.3
Zinc	0	1000	10	1091.0	109.1	9	1093.6	109.4

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No: _____ SDG No.: WS-01_

ICP ID Number: ICP2 ICS Source: INORGAN VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	1000	6	1084.3	108.4	7	1113.2	111.3
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0	1000	88	1105.8	110.6	106	1131.5	113.2
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS-01_S

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _69.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	3131.4305		1749.8326		507.87	272.0	N	P
Antimony	75-125	93.9602		4.0273	U	126.97	74.0	N	P
Arsenic	75-125	10.8450		1.4128	B	9.81	96.1		F
Barium	75-125	525.1000		22.1601	B	507.87	99.0		P
Beryllium	75-125	11.9780		0.1032	B	12.70	93.5		P
Cadmium	75-125	9.6469		0.5286	U	12.70	76.0		P
Calcium									NR
Chromium	75-125	51.3782		2.6731		50.79	95.9		P
Cobalt	75-125	121.8293		1.8576	B	126.97	94.5		P
Copper	75-125	65.1871		5.5174	B	63.48	94.0		P
Iron									NR
Lead	75-125	137.8550		23.5193		126.97	90.0		P
Magnesium									NR
Manganese	75-125	189.1088		68.4211		126.97	95.1		P
Mercury	75-125	0.5458		0.0531	U	0.62	88.0		CV
Nickel	75-125	128.3783		7.8482	B	126.97	94.9		P
Potassium									NR
Selenium	75-125	2.2882		0.4377	U	2.45	93.4		F
Silver	75-125	10.2614		0.4531	U	12.70	80.8		P
Sodium									NR
Thallium	75-125	13.4152		0.3891	U	12.26	109.4		F
Vanadium	75-125	133.7388		13.2321		126.97	94.9		P
Zinc	75-125	152.2784		33.5624		126.97	93.5		P
Cyanide	75-125	31.3968		0.6079	U	30.66	102.4		C

Comments:

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS-01_S

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _69.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead		28.0568		25.7885		4.91	46.2		F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WS-01_A

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		108.24		16.00	U	120.0	90.2		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

WS-01_D

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _69.7 % Solids for Duplicate: __69.7

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1749.8326		1117.9316		44.1	*	P
Antimony		4.0273	U	3.8908	U			P
Arsenic		1.4128	B	1.2079	B	15.6		F
Barium		22.1601	B	16.7084	B	28.1		P
Beryllium		0.1032	B	0.0973	U	200.0		P
Cadmium		0.5286	U	0.5107	U			P
Calcium		1019.6758	B	938.0468	B	8.3		P
Chromium	2.5	2.6731		1.7970	B	39.2		P
Cobalt		1.8576	B	1.6317	B	12.9		P
Copper		5.5174	B	4.6276	B	17.5		P
Iron		2328.6088		1769.7590		27.3	*	P
Lead		23.5193		16.1321		37.3	*	P
Magnesium		277.7593	B	208.8150	B	28.3		P
Manganese		68.4211		57.9457		16.6		P
Mercury		0.0531	U	0.0683	U			CV
Nickel		7.8482	B	5.9504	B	27.5		P
Potassium		437.3380	B	293.6678	B	39.3		P
Selenium		0.4377	U	0.4919	U			F
Silver		0.4531	U	0.4377	U			P
Sodium		143.9704	B	135.1336	B	6.3		P
Thallium		0.3891	U	0.4372	U			F
Vanadium	12.6	13.2321		10.8431	B	19.8		P
Zinc		33.5624		29.5820		12.6		P
Cyanide		0.6079	U	0.6293	U			C

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DUPLICATES

EPA SAMPLE NO.

WS-01_D

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _69.7 % Solids for Duplicate: __69.7

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		25.7885		23.5157		9.2		F
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Solid LCS Source: INORGAN VENT

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				400.0	362.9		320.0	480.0	90.7
Antimony				100.0	89.2		80.0	120.0	89.2
Arsenic									
Barium				400.0	390.2		320.0	480.0	97.6
Beryllium				10.0	9.0		8.0	12.0	90.0
Cadmium				10.0	10.0		8.0	12.0	100.0
Calcium				2000.0	1817.1		1600.0	2400.0	90.9
Chromium				40.0	37.6		32.0	48.0	94.0
Cobalt				100.0	93.3		80.0	120.0	93.3
Copper				50.0	46.2		40.0	60.0	92.4
Iron				200.0	185.1		160.0	240.0	92.6
Lead				100.0	91.2		80.0	120.0	91.2
Magnesium				2000.0	1774.8		1600.0	2400.0	88.7
Manganese				100.0	91.4		80.0	120.0	91.4
Mercury									
Nickel				100.0	92.2		80.0	120.0	92.2
Potassium				2000.0	1872.0		1600.0	2400.0	93.6
Selenium									
Silver				10.0	8.1		8.0	12.0	81.0
Sodium				2000.0	1826.2		1600.0	2400.0	91.3
Thallium									
Vanadium				100.0	93.9		80.0	120.0	93.9
Zinc				100.0	93.1		80.0	120.0	93.1
Cyanide									

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Solid LCS Source: INORGAN VENT

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				8.0	8.3		6.4	9.6	103.8
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				4.0	4.6		3.2	120.0	115.0
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				2.0	1.7		1.6	2.4	85.0
Silver									
Sodium									
Thallium				10.0	10.8		8.0	12.0	108.0
Vanadium									
Zinc									
Cyanide									

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Solid LCS Source: _____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				1.0	1.0		0.7	1.4	100.0
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Solid LCS Source: _____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide				302.0	252.0		115.1	569.9	83.4

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8
STANDARD ADDITION RESULTS

Lab Name: WESTON_EMI_____ Contract:_____

Lab Code: WESEMI Case No.: _____ SAS No.:_____ SDG No.:WS-01_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
WS-04_ _	AS	0.097	10.00	0.129	20.00	0.172	30.00	0.219	22.8	0.9966	
WS-04_ _	SE	0.025	5.00	0.032	10.00	0.039	15.00	0.059	10.1	0.9612	+
WS-04_ _	SE	0.007	5.00	0.021	10.00	0.045	15.00	0.064	1.2	0.9955	

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ICP SERIAL DILUTION

EPA SAMPLE NO.

WS-01_L

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6951.91		7173.30		3.2		P
Antimony	16.00	U	80.00	U			P
Arsenic							NR
Barium	88.04	B	87.35	B	0.8		P
Beryllium	0.41	B	2.00	U	100.0		P
Cadmium	2.10	U	10.50	U			P
Calcium	4051.07	B	4291.85	B	5.9		P
Chromium	10.62		14.05	B	32.3		P
Cobalt	7.38	B	14.05	B	90.4		P
Copper	21.92	B	23.20	B	5.8		P
Iron	9251.33		9605.85		3.8		P
Lead	93.44		140.25		50.1		P
Magnesium	1103.51	B	1169.90	B	6.0		P
Manganese	271.83		277.85		2.2		P
Mercury							NR
Nickel	31.18	B	33.50	U	100.0		P
Potassium	1737.50	B	2630.00	U	100.0		P
Selenium							NR
Silver	1.80	U	13.35	B			P
Sodium	571.98	B	527.45	B	7.8		P
Thallium							NR
Vanadium	52.57		47.25	B	10.1		P
Zinc	133.34		147.05		10.3	E	P

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:WS-01_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/08/96	1.00	200
PBS	12/08/96	1.00	200
WS-01	12/08/96	1.14	200
WS-01_D	12/08/96	1.18	200
WS-01_S	12/08/96	1.13	200
WS-02	12/08/96	1.50	200
WS-03	12/08/96	1.19	200
WS-04	12/08/96	1.31	200
WS-05	12/08/96	1.12	200
WS-06	12/08/96	1.18	200
WS-07	12/08/96	1.15	200
WS-08	12/08/96	1.27	200

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:WS-01_

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/08/96	1.00	200
PBS	12/08/96	1.00	200
WS-01_	12/08/96	1.18	200
WS-01_D	12/08/96	1.05	200
WS-01_S	12/08/96	1.17	200
WS-02_	12/08/96	1.31	200
WS-03_	12/08/96	1.30	200
WS-04_	12/08/96	1.30	200
WS-05_	12/08/96	1.28	200
WS-06_	12/08/96	1.30	200
WS-07_	12/08/96	1.28	200
WS-08_	12/08/96	1.44	200

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:WS-01_

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/03/96	0.20	100
PBS	12/03/96	0.20	100
WS-01	12/03/96	0.27	100
WS-01_D	12/03/96	0.21	100
WS-01_S	12/03/96	0.23	100
WS-02	12/03/96	0.22	100
WS-03	12/03/96	0.29	100
WS-04	12/03/96	0.27	100
WS-05	12/03/96	0.30	100
WS-06	12/03/96	0.27	100
WS-07	12/03/96	0.27	100
WS-08	12/03/96	0.30	100

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:WS-01_

Method: C_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/30/96	1.03	50
PBS	11/30/96	1.10	50
WS-01	11/30/96	1.18	50
WS-01_D	11/30/96	1.14	50
WS-01_S	11/30/96	1.17	50
WS-02	11/30/96	1.16	50
WS-03	11/30/96	1.22	50
WS-04	11/30/96	1.26	50
WS-05	11/30/96	1.00	50
WS-06	11/30/96	1.51	50
WS-07	11/30/96	1.53	50
WS-08	11/30/96	1.50	50

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/14/96 End Date: 12/14/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1659		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S1	1.00	1702		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S2	1.00	1706		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S3	1.00	1709		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1718																									
ICV	1.00	1722		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICB	1.00	1725		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CRI	1.00	1729		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSA	1.00	1733		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSAB	1.00	1737		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCV	1.00	1740		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1744		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1748																									
ZZZZZZ	1.00	1751																									
ZZZZZZ	1.00	1755																									
ZZZZZZ	1.00	1759																									
ZZZZZZ	1.00	1803																									
ZZZZZZ	1.00	1806																									
ZZZZZZ	5.00	1810																									
ZZZZZZ	1.00	1814																									
ZZZZZZ	1.00	1817																									
ZZZZZZ	1.00	1821																									
CCV	1.00	1825		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1829		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1832																									
ZZZZZZ	1.00	1836																									
ZZZZZZ	1.00	1840																									
ZZZZZZ	1.00	1844																									
ZZZZZZ	1.00	1847																									
ZZZZZZ	1.00	1851																									
ZZZZZZ	1.00	1855																									
ZZZZZZ	1.00	1858																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/14/96 End Date: 12/14/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1902																									
ZZZZZZ	1.00	1906																									
CCV	1.00	1910		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1913		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1917																									
CCV	1.00	1921		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1925		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CRI	1.00	1928																									
ICSA	1.00	1932																									
ICSAB	1.00	1936																									
[illegible]	1.00	1939		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1943		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S0	1.00	1947		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S1	1.00	1951		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S2	1.00	1954		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
S3	1.00	1958		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCV	1.00	2006		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	2010		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	2014																									
ZZZZZZ	1.00	2017																									
ZZZZZZ	1.00	2021																									
ZZZZZZ	1.00	2025																									
ZZZZZZ	1.00	2029																									
ZZZZZZ	1.00	2032																									
ZZZZZZ	5.00	2036																									
ZZZZZZ	1.00	2040																									
ZZZZZZ	1.00	2043																									
ZZZZZZ	1.00	2047																									
CCV	1.00	2051		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	2055		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	5.00	2058																									
ZZZZZZ	1.00	2102																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/14/96 End Date: 12/14/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	2106																									
ZZZZZZ	1.00	2110																									
ZZZZZZ	1.00	2113																									
ZZZZZZ	1.00	2117																									
ZZZZZZ	5.00	2121																									
ZZZZZZ	1.00	2124																									
ZZZZZZ	1.00	2128																									
ZZZZZZ	1.00	2132																									
CCV	1.00	2136		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	2139		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	2143																									
ZZZZZZ	5.00	2147																									
ZZZZZZ	1.00	2151																									
ZZZZZZ	1.00	2154																									
ZZZZZZ	1.00	2159																									
ZZZZZZ	1.00	2203																									
ZZZZZZ	1.00	2207																									
ZZZZZZ	1.00	2211																									
ZZZZZZ	1.00	2214																									
ZZZZZZ	5.00	2218																									
CCV	1.00	2222		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	2226		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
PBS	1.00	2231		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
LCSS	1.00	2234		X	X		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-01	1.00	2238		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-01_D	1.00	2242		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-01_S	1.00	2246		X	X		X	X	X		X	X	X		X		X		X			X			X	X	
WS-01_L	5.00	2249		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-01_A	1.00	2253			X																						
WS-02	1.00	2257		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
WS-03	1.00	2300		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-04	1.00	2304		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/14/96 End Date: 12/14/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	2308		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	2312		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-05	1.00	2315		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-06	1.00	2319		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
WS-07	1.00	2323		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
WS-08	1.00	2327		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CRI	1.00	2330		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSA	1.00	2334		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSAB	1.00	2338		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
CCV	1.00	2341		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
[illegible]	1.00	2345		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/17/96 End Date: 12/17/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1529							X						X												
S1	1.00	1533							X						X												
S2	1.00	1536							X						X												
S3	1.00	1539							X						X												
ICV	1.00	1547							X						X												
ICB	1.00	1551							X						X												
CRI	1.00	1554							X						X												
ICSA	1.00	1558							X						X												
ICSAB	1.00	1601							X						X												
CCV	1.00	1605							X						X												
[illegible]	1.00	1608							X						X												
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1615																									
ZZZZZZ	1.00	1619																									
ZZZZZZ	1.00	1622																									
ZZZZZZ	1.00	1626																									
ZZZZZZ	1.00	1629																									
ZZZZZZ	1.00	1633																									
ZZZZZZ	1.00	1637																									
WS-04	25.00	1640													X												
ZZZZZZ	1.00	1644																									
CCV	1.00	1647							X						X												
CCB	1.00	1651							X						X												
ZZZZZZ	1.00	1654																									
ZZZZZZ	1.00	1657																									
LCSS	1.00	1701							X																		
CCV	1.00	1704							X						X												
CCB	1.00	1708							X						X												
ZZZZZZ	1.00	1712																									
ZZZZZZ	1.00	1716																									
ZZZZZZ	1.00	1719																									
ZZZZZZ	1.00	1723																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2 Method: P_

Start Date: 12/17/96 End Date: 12/17/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1726																									
ZZZZZZ	1.00	1730																									
ZZZZZZ	1.00	1733																									
ZZZZZZ	1.00	1737																									
ZZZZZZ	5.00	1740																									
ZZZZZZ	1.00	1744																									
CCV	1.00	1747							X						X												
CCB	1.00	1750							X						X												
ZZZZZZ	1.00	1754																									
ZZZZZZ	1.00	1757																									
ZZZZZZ	1.00	1801																									
ZZZZZZ	5.00	1804																									
ZZZZZZ	1.00	1808																									
ZZZZZZ	1.00	1811																									
ZZZZZZ	1.00	1815																									
ZZZZZZ	1.00	1818																									
ZZZZZZ	1.00	1822																									
ZZZZZZ	1.00	1825																									
CCV	1.00	1828							X						X												
CCB	1.00	1832							X						X												
ZZZZZZ	1.00	1835																									
ZZZZZZ	1.00	1839																									
ZZZZZZ	1.00	1842																									
ZZZZZZ	1.00	1846																									
ZZZZZZ	1.00	1849																									
ZZZZZZ	1.00	1853																									
ZZZZZZ	5.00	1856																									
ZZZZZZ	1.00	1859																									
CCV	1.00	1903							X						X												
CCB	1.00	1906							X						X												
ZZZZZZ	1.00	1910																									
ZZZZZZ	1.00	1913																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: ICP2_____ Method: P_

Start Date: 12/17/96 End Date: 12/17/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1917																									
ZZZZZZ	1.00	1920																									
ZZZZZZ	1.00	1924																									
ZZZZZZ	1.00	1927																									
ZZZZZZ	1.00	1931																									
ZZZZZZ	5.00	1934																									
ZZZZZZ	1.00	1937																									
ZZZZZZ	1.00	1941																									
CCV	1.00	1944							X						X												
CCB	1.00	1948							X						X												
ZZZZZZ	1.00	1951																									
ZZZZZZ	1.00	1955																									
ZZZZZZ	1.00	1958																									
ZZZZZZ	1.00	2002																									
CRI	1.00	2005							X						X												
ICSA	1.00	2009							X						X												
ICSAB	1.00	2012							X						X												
CCV	1.00	2015							X						X												
CCB	1.00	2019							X						X												

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA4 Method: F_

Start Date: 12/26/96 End Date: 12/26/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.0	1.00	0934				X																					
S2.0	1.00	0940				X																					
S10.0	1.00	0946				X																					
S30.0	1.00	0952				X																					
S50.0	1.00	0958				X																					
S70.0	1.00	1004				X																					
ICV	1.00	1010				X																					
ICB	1.00	1016				X																					
CRA	1.00	1022				X																					
CCV	1.00	1028				X																					
[illegible]	1.00	1034				X																					
PBS	1.00	1040				X																					
PBSA	1.00	1045	105.5			X																					
LCSS	1.00	1051				X																					
LCSSA	1.00	1057	91.9			X																					
WS-01	1.00	1103				X																					
WS-01_A_	1.00	1109	99.0			X																					
WS-01_D_	1.00	1115				X																					
WS-01_DA	1.00	1121	99.5			X																					
CCV	1.00	1126				X																					
CCB	1.00	1132				X																					
WS-01_S_	1.00	1138				X																					
WS-01_SA	1.00	1144	87.8			X																					
WS-02	1.00	1150				X																					
WS-02_A_	1.00	1156	103.0			X																					
WS-03	1.00	1202				X																					
WS-03_A_	1.00	1208	99.5			X																					
WS-04	1.00	1213																									
WS-04_A_	1.00	1219	67.7																								
CCV	1.00	1225				X																					
CCB	1.00	1231				X																					
WS-05	1.00	1237				X																					

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA4_____ Method: F_

Start Date: 12/26/96 End Date: 12/26/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
WS-05_A_	1.00	1243	96.0			X																					
WS-06___	1.00	1249				X																					
WS-06_A_	1.00	1255	100.7			X																					
WS-07___	1.00	1301				X																					
WS-07_A_	1.00	1306	99.6			X																					
WS-08___	1.00	1312				X																					
WS-08_A_	1.00	1318	94.5			X																					
CCV_____	1.00	1324				X																					
CCB_____	1.00	1330				X																					

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA4_____ Method: F_

Start Date: 12/30/96 End Date: 12/30/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.0	1.00	0916				X																					
S2.0	1.00	0922				X																					
S10.0	1.00	0928				X																					
S30.0	1.00	0934				X																					
S50.0	1.00	0940				X																					
S70.0	1.00	0946				X																					
ICV	1.00	0952																									
ICV	1.00	0958				X																					
ICB	1.00	1004				X																					
CRA	1.00	1010				X																					
[illegible]	1.00	1016				X																					
CCB	1.00	1022				X																					
CCV	1.00	1031				X																					
CCB	1.00	1034				X																					
WS-04_0_	1.00	1037				X																					
WS-04_1_	1.00	1040				X																					
WS-04_2_	1.00	1043				X																					
WS-04_3_	1.00	1046				X																					
CCV	1.00	1049				X																					
CCB	1.00	1052				X																					

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3 Method: F_

Start Date: 12/18/96 End Date: 12/18/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.0	1.00	1044													X												
S2.0	1.00	1049													X												
S3.0	1.00	1055													X												
S20.0	1.00	1100													X												
S50.0	1.00	1105													X												
S70.0	1.00	1110													X												
ICV	1.00	1115													X												
ICB	1.00	1120													X												
CRA	1.00	1125																									
CRA	1.00	1131													X												
[illegible]	1.00	1136													X												
CCB	1.00	1141													X												
ZZZZZZ	5.00	1146																									
ZZZZZZ	5.00	1151																									
ZZZZZZ	5.00	1156																									
ZZZZZZ	5.00	1201																									
ZZZZZZ	5.00	1206																									
ZZZZZZ	5.00	1211																									
CCV	1.00	1216													X												
CCB	1.00	1221													X												
ZZZZZZ	5.00	1227																									
ZZZZZZ	5.00	1231																									
ZZZZZZ	1.00	1237																									
ZZZZZZA	1.00	1242	115.2																								
ZZZZZZ	1.00	1247																									
ZZZZZZA	1.00	1252	114.3																								
ZZZZZZ	1.00	1257																									
ZZZZZZA	1.00	1302	111.8																								
CCV	1.00	1307													X												
CCB	1.00	1312													X												
ZZZZZZ	10.00	1317																									
ZZZZZZA	10.00	1322	108.3																								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3 Method: F_

Start Date: 12/18/96 End Date: 12/18/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	1327																									
ZZZZZZA	10.00	1332	109.5																								
ZZZZZZ	1.00	1337																									
ZZZZZZA	1.00	1342	119.0																								
ZZZZZZ	5.00	1347																									
ZZZZZZA	5.00	1352	114.6																								
CCV	1.00	1357													X												
CCB	1.00	1403													X												
ZZZZZZ	10.00	1408																									
ZZZZZZA	10.00	1413	108.7																								
ZZZZZZ	5.00	1418																									
ZZZZZZA	5.00	1423	110.1																								
ZZZZZZ	10.00	1428																									
ZZZZZZA	10.00	1433	109.2																								
ZZZZZZ	10.00	1438																									
ZZZZZZA	10.00	1443	105.9																								
CCV	1.00	1448													X												
CCB	1.00	1453													X												
ZZZZZZ	5.00	1458																									
ZZZZZZA	5.00	1503	109.1																								
ZZZZZZ	5.00	1508																									
ZZZZZZA	5.00	1513	113.0																								
ZZZZZZ	10.00	1518																									
ZZZZZZA	10.00	1523	107.1																								
ZZZZZZ	5.00	1528																									
ZZZZZZA	5.00	1533	110.6																								
CCV	1.00	1538													X												
CCB	1.00	1543													X												
ZZZZZZ	5.00	1551																									
ZZZZZZA	5.00	1555	114.2																								
ZZZZZZ	5.00	1601																									
ZZZZZZA	5.00	1606	108.7																								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3 Method: F_

Start Date: 12/18/96 End Date: 12/18/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	5.00	1611																									
ZZZZZZA	5.00	1616	109.9																								
ZZZZZZ	5.00	1621																									
ZZZZZZA	5.00	1626	115.1																								
CCV	1.00	1631													X												
CCB	1.00	1636													X												
ZZZZZZ	1.00	1641																									
ZZZZZZ	1.00	1646																									
ZZZZZZ	1.00	1650																									
CCV	1.00	1656													X												
[illegible]	1.00	1702													X												
ZZZZZZ	1.00	1707																									
ZZZZZZ	1.00	1712																									
ZZZZZZ	1.00	1717																									
ZZZZZZ	1.00	1722																									
ZZZZZZ	1.00	1727																									
ZZZZZZA	1.00	1732	95.7																								
ZZZZZZ	1.00	1737																									
ZZZZZZA	1.00	1742	97.5																								
CCV	1.00	1747													X												
CCB	1.00	1752													X												
ZZZZZZ	1.00	1757																									
ZZZZZZA	1.00	1802	91.0																								
ZZZZZZ	1.00	1807																									
ZZZZZZA	1.00	1812	95.8																								
ZZZZZZ	1.00	1817																									
ZZZZZZA	1.00	1822	96.9																								
ZZZZZZ	1.00	1827																									
ZZZZZZA	1.00	1832	91.2																								
CCV	1.00	1837													X												
CCB	1.00	1843													X												
ZZZZZZ	1.00	1848																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/18/96 End Date: 12/18/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	1853	81.5																								
ZZZZZZ	1.00	1858																									
ZZZZZZA	1.00	1902	96.2																								
ZZZZZZ	1.00	1908																									
ZZZZZZA	1.00	1913	89.2																								
ZZZZZZ	1.00	1918																									
ZZZZZZA	1.00	1923	77.5																								
CCV	1.00	1928													X												
CCB	1.00	1933													X												
ZZZZZZ	5.00	1938																									
ZZZZZZ	5.00	1943																									
ZZZZZZ	1.00	1948																									
ZZZZZZA	1.00	1953	104.1																								
PBS	1.00	1958													X												
PBSA	1.00	2003	105.5												X												
LCSS	1.00	2008													X												
LCSSA	1.00	2013	106.1												X												
CCV	1.00	2018													X												
CCB	1.00	2024													X												
WS-01	5.00	2029													X												
WS-01_A	5.00	2034	95.2												X												
WS-01_D	5.00	2039													X												
WS-01_DA	5.00	2044	100.7												X												
WS-01_S	5.00	2049													X												
WS-01_SA	5.00	2054	97.3												X												
WS-02	5.00	2059													X												
WS-02_A	5.00	2105	104.4												X												
CCV	1.00	2110													X												
CCB	1.00	2115													X												
WS-07	5.00	2120													X												
WS-07_A	5.00	2125	99.8												X												
ZZZZZZ	1.00	2130																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/18/96 End Date: 12/18/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	2135	106.2																								
ZZZZZZ	1.00	2140																									
ZZZZZZA	1.00	2145	106.5																								
ZZZZZZ	1.00	2150																									
ZZZZZZA	1.00	2155	104.4																								
CCV	1.00	2200													X												
CCB	1.00	2205													X												

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA8 Method: F_

Start Date: 12/21/96 End Date: 12/21/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1015																			X						
S2	1.00	1021																			X						
S5	1.00	1026																			X						
S20	1.00	1032																			X						
S40	1.00	1038																			X						
S50	1.00	1044																			X						
ICV	1.00	1049																			X						
ICB	1.00	1055																			X						
CRA	1.00	1101																			X						
CCV	1.00	1106																			X						
[illegible]	1.00	1112																			X						
ZZZZZZ	2.00	1118																									
ZZZZZZA	2.00	1124	106.0																								
ZZZZZZ	5.00	1130																									
ZZZZZZA	5.00	1136	97.4																								
ZZZZZZ	2.00	1141																									
ZZZZZZA	2.00	1147	100.5																								
ZZZZZZ	1.00	1153																									
ZZZZZZA	1.00	1159	118.3																								
CCV	1.00	1205																			X						
CCB	1.00	1211																			X						
ZZZZZZ	1.00	1216																									
ZZZZZZA	1.00	1222	107.8																								
ZZZZZZ	1.00	1228																									
ZZZZZZA	1.00	1234	103.7																								
ZZZZZZ	1.00	1240																									
ZZZZZZA	1.00	1246	87.0																								
ZZZZZZ	1.00	1252																									
ZZZZZZA	1.00	1258	80.5																								
CCV	1.00	1303																			X						
CCB	1.00	1309																			X						
ZZZZZZ	1.00	1315																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA8_____ Method: F_

Start Date: 12/21/96 End Date: 12/21/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	1321	68.4																								
ZZZZZZ	1.00	1327																									
ZZZZZZA	1.00	1333	82.1																								
ZZZZZZ	1.00	1338																									
ZZZZZZA	1.00	1345	52.5																								
ZZZZZZ	1.00	1350																									
ZZZZZZA	1.00	1356	120.6																								
CCV	1.00	1402																			X						
CCB	1.00	1408																			X						
ZZZZZZ	1.00	1414																									
ZZZZZA	1.00	1419	54.4																								
ZZZZZZ	1.00	1425																									
ZZZZZZA	1.00	1431	83.9																								
ZZZZZZ	1.00	1437																									
ZZZZZZA	1.00	1443	42.0																								
ZZZZZZ	1.00	1448																									
ZZZZZZA	1.00	1454	89.4																								
CCV	1.00	1500																			X						
CCB	1.00	1506																			X						
ZZZZZZ	1.00	1512																									
ZZZZZZA	1.00	1517	39.2																								
ZZZZZZ	1.00	1523																									
ZZZZZZA	1.00	1529	97.2																								
ZZZZZZ	1.00	1535																									
ZZZZZZA	1.00	1541	18.6																								
ZZZZZZ	1.00	1546																									
ZZZZZZA	1.00	1552	60.1																								
CCV	1.00	1558																			X						
CCB	1.00	1604																			X						
ZZZZZZ	1.00	1609																									
ZZZZZZA	1.00	1615	60.8																								
ZZZZZZ	1.00	1621																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA8_____ Method: F_

Start Date: 12/21/96 End Date: 12/21/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	1627	82.4																								
ZZZZZZ	1.00	1633																									
ZZZZZZA	1.00	1639	35.7																								
ZZZZZZ	1.00	1644																									
ZZZZZZA	1.00	1650	98.7																								
CCV	1.00	1656																			X						
CCB	1.00	1702																			X						
ZZZZZZ	1.00	1707																									
ZZZZZZA	1.00	1713	131.4																								
ZZZZZZ	1.00	1719																									
ZZZZZA	1.00	1725	112.6																								
ZZZZZZ	1.00	1730																									
ZZZZZZA	1.00	1736	75.6																								
ZZZZZZ	1.00	1742																									
ZZZZZZA	1.00	1748	79.4																								
CCV	1.00	1754																			X						
CCB	1.00	1759																			X						
ZZZZZZ	1.00	1805																									
ZZZZZZA	1.00	1811	84.0																								
ZZZZZZ	1.00	1817																									
ZZZZZZA	1.00	1823	84.8																								
ZZZZZZ	1.00	1828																									
ZZZZZZA	1.00	1834	84.0																								
ZZZZZZ	1.00	1840																									
ZZZZZZA	1.00	1846	108.4																								
CCV	1.00	1852																			X						
CCB	1.00	1857																			X						
ZZZZZZ	1.00	1903																									
ZZZZZZA	1.00	1909	76.8																								
ZZZZZZ	1.00	1915																									
ZZZZZZA	1.00	1921	87.8																								
ZZZZZZ	1.00	1926																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA8_____ Method: F_

Start Date: 12/21/96 End Date: 12/21/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA_	1.00	1932	43.1																								
ZZZZZZ__	1.00	1938																									
ZZZZZZA_	1.00	1944	34.2																								
CCV_____	1.00	1950																			X						
CCB_____	1.00	1956																			X						
ZZZZZZ__	1.00	2001																									
ZZZZZZA_	1.00	2007	77.7																								
ZZZZZZ__	1.00	2013																									
ZZZZZZA_	1.00	2019	109.5																								
ZZZZZZ__	1.00	2025																									
[illegible]ZZZA_	1.00	2031	71.0																								
ZZZZZZ__	1.00	2037																									
ZZZZZZA_	1.00	2043	62.7																								
CCV_____	1.00	2048																			X						
CCB_____	1.00	2054																			X						
ZZZZZZ__	1.00	2100																									
ZZZZZZA_	1.00	2106	79.9																								
ZZZZZZ__	1.00	2112																									
ZZZZZZA_	1.00	2118	62.1																								
ZZZZZZ__	1.00	2123																									
ZZZZZZA_	1.00	2130	129.1																								
PBS_____	1.00	2135																			X						
PBSA____	1.00	2141	108.1																		X						
CCV_____	1.00	2147																			X						
CCB_____	1.00	2153																			X						
LCSS____	1.00	2159																			X						
LCSSA___	1.00	2205	126.7																		X						
WS-01___	1.00	2210																			X						
WS-01_A_	1.00	2216	105.1																		X						
WS-01_D_	1.00	2222																			X						
WS-01_DA	1.00	2228	109.4																		X						
WS-01_S_	1.00	2234																			X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA8_____ Method: F_

Start Date: 12/21/96 End Date: 12/21/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
WS-01_SA	1.00	2240	110.9																		X						
CCV	1.00	2246																			X						
CCB	1.00	2251																			X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/23/96 End Date: 12/23/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.00	1.00	1227																			X						
S2.00	1.00	1233																			X						
S5.00	1.00	1239																			X						
S20.00	1.00	1245																			X						
S40.00	1.00	1251																			X						
S50.00	1.00	1257																			X						
ICV	1.00	1303																			X						
ICB	1.00	1309																			X						
CRA	1.00	1315																			X						
CCV	1.00	1321																			X						
[illegible]	1.00	1327																			X						
ZZZZZZ	5.00	1333																									
ZZZZZZA	5.00	1339	95.1																								
ZZZZZZ	5.00	1345																									
ZZZZZZA	5.00	1351	106.8																								
ZZZZZZ	5.00	1357																									
ZZZZZZA	5.00	1403	93.8																								
ZZZZZZ	5.00	1409																									
ZZZZZZA	5.00	1415	82.8																								
CCV	1.00	1421																			X						
CCB	1.00	1427																			X						
ZZZZZZ	5.00	1433																									
ZZZZZZA	5.00	1439	82.2																								
ZZZZZZ	1.00	1445																									
ZZZZZZA	1.00	1451	48.4																								
ZZZZZZ	1.00	1456																									
ZZZZZZA	1.00	1502	37.3																								
ZZZZZZ	1.00	1508																									
ZZZZZZA	1.00	1514	62.1																								
CCV	1.00	1520																			X						
CCB	1.00	1526																			X						
ZZZZZZ	1.00	1535																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/23/96 End Date: 12/23/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA_	1.00	1540	99.2																								
ZZZZZZ__	2.00	1546																									
ZZZZZZA_	2.00	1552	70.9																								
ZZZZZZ__	1.00	1558																									
ZZZZZZA_	1.00	1604	40.1																								
ZZZZZZ__	5.00	1610																									
ZZZZZZA_	5.00	1616	101.6																								
CCV_____	1.00	1622																			X						
CCB_____	1.00	1628																			X						
ZZZZZZ__	5.00	1634																									
ZZZZZA_	5.00	1640	87.2																								
ZZZZZZ__	5.00	1646																									
ZZZZZZA_	5.00	1652	93.2																								
ZZZZZZ__	2.00	1658																									
ZZZZZZA_	2.00	1704	93.7																								
ZZZZZZ__	2.00	1710																									
ZZZZZZ__	2.00	1716																									
ZZZZZZA_	2.00	1722	89.3																								
CCV_____	1.00	1728																			X						
CCB_____	1.00	1734																			X						
ZZZZZZ__	5.00	1739																									
ZZZZZZA_	5.00	1746	105.3																								
ZZZZZZ__	2.00	1751																									
ZZZZZZA_	2.00	1757	90.2																								
ZZZZZZ__	2.00	1803																									
ZZZZZZA_	2.00	1809	92.4																								
ZZZZZZ__	1.00	1815																									
ZZZZZZA_	1.00	1821	78.2																								
CCV_____	1.00	1827																			X						
CCB_____	1.00	1833																			X						
WS-02___	1.00	1839																			X						
WS-02_A_	1.00	1845	109.4																		X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/23/96 End Date: 12/23/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
WS-03	1.00	1851																			X						
WS-03_A_	1.00	1857	111.6																		X						
WS-04	1.00	1903																									
WS-04_A_	1.00	1909	71.4																								
WS-05	1.00	1915																			X						
WS-05_A_	1.00	1920	99.6																		X						
CCV	1.00	1926																			X						
CCB	1.00	1933																			X						
WS-06	1.00	1939																			X						
WS-06_A_	1.00	1944	112.0																		X						
WS-07	1.00	1951																			X						
WS-07_A_	1.00	1956	119.9																		X						
WS-08	1.00	2003																			X						
WS-08_A_	1.00	2008	101.1																		X						
ZZZZZZ	5.00	2015																									
ZZZZZZA_	5.00	2020	97.4																								
CCV	1.00	2026																			X						
CCB	1.00	2032																			X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA3_____ Method: F_

Start Date: 12/26/96 End Date: 12/26/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.00	1.00	1103																			X						
S2.00	1.00	1109																			X						
S5.00	1.00	1115																			X						
S20.00	1.00	1121																			X						
S40.00	1.00	1128																			X						
S50.00	1.00	1134																			X						
ICV	1.00	1140																			X						
ICB	1.00	1146																			X						
CRA	1.00	1152																			X						
CCV	1.00	1158																			X						
[illegible]	1.00	1204																			X						
CCV	1.00	1208																			X						
CCB	1.00	1211																			X						
WS-04_0_	1.00	1214																									
WS-04_1_	1.00	1217																									
WS-04_2_	1.00	1220																									
WS-04_3_	1.00	1223																									
WS-04_0_	2.00	1228																			X						
WS-04_1_	2.00	1231																			X						
WS-04_2_	2.00	1234																			X						
WS-04_3_	2.00	1237																			X						
CCV	1.00	1240																			X						
CCB	1.00	1243																			X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1303																						X			
S2	1.00	1308																						X			
S10	1.00	1314																						X			
S30	1.00	1320																						X			
S50	1.00	1325																						X			
S70	1.00	1331																						X			
ICV	1.00	1337																						X			
ICB	1.00	1343																						X			
CRA	1.00	1348																						X			
CCV	1.00	1354																						X			
[illegible]	1.00	1400																						X			
ZZZZZZ	1.00	1406																									
ZZZZZZA	1.00	1411	115.6																								
ZZZZZZ	2.00	1417																									
ZZZZZZA	2.00	1423	93.0																								
CCV	1.00	1433																						X			
CCB	1.00	1439																						X			
ZZZZZZ	1.00	1445																									
ZZZZZZA	1.00	1450	101.3																								
ZZZZZZ	1.00	1456																									
ZZZZZZA	1.00	1502	106.2																								
ZZZZZZ	1.00	1508																									
ZZZZZZA	1.00	1513	99.5																								
CCV	1.00	1519																						X			
CCB	1.00	1525																						X			
ZZZZZZ	2.00	1530																									
ZZZZZZA	2.00	1536	107.4																								
ZZZZZZ	500.00	1542																									
ZZZZZZA	500.00	1547	85.9																								
ZZZZZZ	5.00	1553																									
ZZZZZZA	5.00	1559	96.0																								
ZZZZZZ	5.00	1604																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA_	5.00	1610	100.9																								
CCV_____	1.00	1616																						X			
CCB_____	1.00	1621																						X			
ZZZZZZ__	5.00	1627																									
ZZZZZZA_	5.00	1633	89.9																								
ZZZZZZ__	5.00	1638																									
ZZZZZZA_	5.00	1644	98.6																								
ZZZZZZ__	1.00	1650																									
ZZZZZZA_	1.00	1655	103.8																								
ZZZZZZ__	2.00	1701																									
ZZZZZA_	2.00	1706	100.2																								
CCV_____	1.00	1712																						X			
CCB_____	1.00	1718																						X			
ZZZZZZ__	2.00	1723																									
ZZZZZZA_	2.00	1729	90.5																								
ZZZZZZ__	1.00	1735																									
ZZZZZZA_	1.00	1740	105.4																								
ZZZZZZ__	1.00	1746																									
ZZZZZZA_	1.00	1751	102.0																								
ZZZZZZ__	2.00	1757																									
ZZZZZZA_	2.00	1802	92.0																								
CCV_____	1.00	1808																						X			
CCB_____	1.00	1814																						X			
ZZZZZZ__	2.00	1819																									
ZZZZZZA_	2.00	1825	93.6																								
ZZZZZZ__	1.00	1830																									
ZZZZZZA_	1.00	1836	101.3																								
ZZZZZZ__	1.00	1841																									
ZZZZZZA_	1.00	1847	109.9																								
ZZZZZZ__	1.00	1853																									
ZZZZZZA_	1.00	1858	104.7																								
CCV_____	1.00	1904																						X			

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14
ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1909																						X			
ZZZZZZ	1.00	1915																									
ZZZZZZA	1.00	1921	102.7																								
ZZZZZZ	1.00	1926																									
ZZZZZZA	1.00	1932	106.4																								
ZZZZZZ	1.00	1937																									
ZZZZZZA	1.00	1943	101.7																								
ZZZZZZ	1.00	1949																									
ZZZZZZA	1.00	1954	99.8																								
CCV	1.00	2000																						X			
[illegible]	1.00	2006																						X			
ZZZZZZ	1.00	2011																									
ZZZZZZA	1.00	2017	110.8																								
ZZZZZZ	1.00	2023																									
ZZZZZZA	1.00	2028	101.4																								
ZZZZZZ	2.00	2034																									
ZZZZZZA	2.00	2039	103.1																								
ZZZZZZ	2.00	2045																									
ZZZZZZA	2.00	2051	105.5																								
CCV	1.00	2056																						X			
CCB	1.00	2102																						X			
ZZZZZZ	1.00	2108																									
ZZZZZZA	1.00	2113	109.9																								
ZZZZZZ	1.00	2119																									
ZZZZZZA	1.00	2125	109.4																								
ZZZZZZ	2.00	2130																									
ZZZZZZA	2.00	2136	89.2																								
ZZZZZZ	2.00	2142																									
ZZZZZZA	2.00	2147	96.9																								
CCV	1.00	2153																						X			
CCB	1.00	2159																						X			
ZZZZZZ	1.00	2205																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	2210	104.5																								
ZZZZZZ	1.00	2216																									
ZZZZZZA	1.00	2222	104.3																								
ZZZZZZ	2.00	2227																									
ZZZZZZA	2.00	2233	98.4																								
ZZZZZZ	1.00	2239																									
ZZZZZZA	1.00	2245	106.9																								
CCV	1.00	2250																						X			
CCB	1.00	2256																						X			
ZZZZZZ	1.00	2302																									
ZZZZZA	1.00	2308	104.1																								
ZZZZZZ	2.00	2313																									
ZZZZZZA	2.00	2319	109.9																								
ZZZZZZ	1.00	2325																									
ZZZZZZA	1.00	2331	105.1																								
ZZZZZZ	1.00	2336																									
ZZZZZZA	1.00	2342	110.8																								
CCV	1.00	2348																						X			
CCB	1.00	2354																						X			
ZZZZZZ	1.00	2359																									
ZZZZZZA	1.00	0005	79.2																								
ZZZZZZ	1.00	0011																									
ZZZZZZA	1.00	0016	74.4																								
ZZZZZZ	2.00	0022																									
ZZZZZZA	2.00	0028	105.5																								
ZZZZZZ	1.00	0034																									
ZZZZZZA	1.00	0039	100.2																								
CCV	1.00	0045																						X			
CCB	1.00	0051																						X			
ZZZZZZ	1.00	0056																									
ZZZZZZA	1.00	0102	83.1																								
ZZZZZZ	1.00	0108																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZA	1.00	0113	86.5																								
ZZZZZZ	2.00	0119																									
ZZZZZZA	2.00	0124	102.5																								
ZZZZZZ	1.00	0130																									
ZZZZZZA	1.00	0135	84.2																								
CCV	1.00	0141																						X			
CCB	1.00	0147																						X			
ZZZZZZ	1.00	0153																									
ZZZZZZA	1.00	0158	81.5																								
PBS	1.00	0204																						X			
[illegible]SA	1.00	0209	108.8																					X			
LCSS	2.00	0215																						X			
LCSSA	2.00	0220	110.3																					X			
WS-01	1.00	0226																						X			
WS-01_A	1.00	0231	112.8																					X			
CCV	1.00	0237																						X			
CCB	1.00	0243																						X			
WS-01_D	1.00	0249																						X			
WS-01_DA	1.00	0254	110.2																					X			
WS-01_S	2.00	0300																						X			
WS-01_SA	2.00	0305	106.7																					X			
WS-02	1.00	0311																						X			
WS-02_A	1.00	0317	113.3																					X			
WS-03	1.00	0322																						X			
WS-03_A	1.00	0328	110.2																					X			
CCV	1.00	0334																						X			
CCB	1.00	0339																						X			
WS-04	1.00	0345																						X			
WS-04_A	1.00	0351	52.3																					X			
WS-05	1.00	0357																						X			
WS-05_A	1.00	0402	93.1																					X			
WS-06	1.00	0408																						X			

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: AA6_____ Method: F_

Start Date: 12/14/96 End Date: 12/15/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
WS-06_A_	1.00	0414	92.0																					X			
WS-07___	1.00	0420																						X			
WS-07_A_	1.00	0425	109.2																					X			
CCV_____	1.00	0431																						X			
CCB_____	1.00	0437																						X			
WS-08___	1.00	0443																						X			
WS-08_A_	1.00	0448	121.4																					X			
CCV_____	1.00	0454																						X			
CCB_____	1.00	0500																						X			

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: HG3_____ Method: CV

Start Date: 12/01/96 End Date: 12/01/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.0	1.00	1825																X									
S0.2	1.00	1827																X									
S0.5	1.00	1829																X									
S1.0	1.00	1832																X									
S3.0	1.00	1834																X									
S5.0	1.00	1836																X									
ICV	1.00	1839																X									
ICB	1.00	1841																X									
CRA	1.00	1843																X									
PBS	1.00	1845																X									
SS	1.00	1848																X									
WS-01	1.00	1850																X									
WS-01_D	1.00	1852																X									
WS-01_S	1.00	1854																X									
WS-02	1.00	1857																X									
WS-03	1.00	1859																X									
WS-04	1.00	1901																X									
WS-05	1.00	1903																X									
CCV	1.00	1906																X									
CCB	1.00	1908																X									
WS-06	1.00	1910																X									
WS-07	1.00	1912																X									
WS-08	1.00	1915																X									
CCV	1.00	1917																X									
CCB	1.00	1919																X									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:WS-01_

Instrument ID Number: SPEC 1001____ Method: C_

Start Date: 11/30/96 End Date: 11/30/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1317																									X
S10	1.00	1317																									X
S20	1.00	1317																									X
S40	1.00	1318																									X
S100	1.00	1318																									X
S200	1.00	1318																									X
S400	1.00	1319																									X
ICV	1.00	1319																									X
ICB	1.00	1319																									X
PBS	1.00	1320																									X
LCS	50.00	1320																									X
ZZZZZZ	1.00	1320																									
ZZZZZZ	1.00	1321																									
ZZZZZZ	1.00	1321																									
ZZZZZZ	1.00	1321																									
ZZZZZZ	1.00	1322																									
ZZZZZZ	2.00	1322																									
WS-01	1.00	1322																									X
WS-01_D_	1.00	1323																									X
CCV	1.00	1323																									X
CCB	1.00	1323																									X
WS-01_S_	2.00	1324																									X
WS-02	1.00	1324																									X
WS-03	1.00	1324																									X
WS-04	1.00	1325																									X
WS-05	1.00	1325																									X
WS-06	1.00	1325																									X
WS-07	1.00	1326																									X
WS-08	1.00	1326																									X
CCV	1.00	1326																									X
CCB	1.00	1326																									X

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10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 10/15/96

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	16.7	P
Antimony	206.83		60	16.0	P
Arsenic			10		NR
Barium	493.41		200	1.4	P
Beryllium	313.03		5	0.4	P
Cadmium	228.80		5	2.1	P
Calcium	315.89		5000	8.3	P
Chromium	267.72		10	1.7	P
Cobalt	228.62		50	2.8	P
Copper	324.75		25	1.5	P
Iron	259.94		100	3.7	P
Lead	220.35		3	21.4	P
Magnesium	279.08		5000	19.3	P
Manganese	257.61		15	0.8	P
Mercury			0.2		NR
Nickel	231.60		40	6.7	P
Potassium	766.49		5000	526.0	P
Selenium			5		NR
Silver	328.07		10	1.8	P
Sodium	589.59		5000	28.7	P
Thallium			10		NR
Vanadium	292.40		50	1.7	P
Zinc	213.86		20	1.0	P

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: _____ Date: 10/15/96

Flame AA ID Number : _____

Furnace AA ID Number : AA3_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BZ	3	0.9	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BZ	5	1.8	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: _____ Date: 10/15/96

Flame AA ID Number : _____

Furnace AA ID Number : AA4_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	193.70	BZ	10	1.6	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: _____ Date: 10/15/96

Flame AA ID Number : _____

Furnace AA ID Number : AA6_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BZ	10	1.6	F
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: _____ Date: 10/15/96

Flame AA ID Number : _____

Furnace AA ID Number : AA8_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BZ	5	1.4	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: _____ Date: 10/15/96

Flame AA ID Number : HG3_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 12/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AS_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000470	0.0000000	0.0000000
Arsenic	193.60	-0.0018780	0.0000000	0.0002650	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	-0.0001101	0.0000000	0.0123510
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0000090	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000640	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0001030	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0001490	0.0000000
Lead	220.35	0.0011810	0.0000000	0.0002040	0.0000620	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0002790	0.0000000	0.0000000
Manganese	257.61	0.0000220	0.0000000	-0.0002020	0.0000190	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	-0.0000350	-0.0000270	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	-0.0027490	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0002850	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	377.57	0.0000000	0.0000000	0.0025590	0.0003360	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0001210	0.0000000	0.0000000
Zinc	213.86	-0.0000060	0.0000000	0.0000720	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 12/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : BA_	BE_	CD_	CO_	CR_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	-0.0168160	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0028530	0.0105710
Arsenic	193.60	0.0000000	0.0000000	0.0000000	-0.0026980	0.0012680
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0037230	0.0000000	-0.0042880	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000530	0.0000000	0.0000000
Cobalt	228.62	0.0007240	0.0000000	-0.0004710	0.0000000	0.0003600
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0005400	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0337000	-0.0010780
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0020000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000990	-0.0005450	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	-0.0020220	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	377.57	0.0000000	0.0000000	0.0000000	0.0022930	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0002430
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 12/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU_	MN_	MO_	NI_	SB_
Aluminum	308.22	0.0000000	0.0000000	0.0103170	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0043090	-0.0065730	0.0000000
Arsenic	193.60	0.0000000	0.0000000	0.0017060	0.0010540	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000490	-0.0030570	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0022860	0.0000000	0.0002540
Cobalt	228.62	0.0000000	0.0000000	0.0001840	0.0005360	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0004790	0.0000000	0.0000000
Iron	259.94	0.0000000	-0.0097920	0.0004030	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.0008250	0.0013600	-0.0008290
Magnesium	279.08	0.0000000	-0.0049720	-0.0074620	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0003460	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	-0.0051870	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0001400	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	377.57	0.0000000	-0.0059220	0.0013730	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.0001270	-0.0111100	0.0000000	0.0000000
Zinc	213.86	0.0029890	0.0000000	0.0000000	0.0031750	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 12/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : SN_	TI_	V__	___	___
Aluminum	308.22	0.0000000	0.0000000	0.0037210		
Antimony	206.83	0.0012600	0.0015800	-0.0053310		
Arsenic	193.60	0.0000000	0.0000000	0.0161430		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.03	0.0000000	-0.0027830	0.0058000		
Cadmium	228.80	0.0000000	0.0000000	0.0000830		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000930	0.0005210		
Cobalt	228.62	0.0000000	0.0016450	0.0000000		
Copper	324.75	0.0000000	0.0001560	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0007020		
Lead	220.35	0.0000000	0.0004630	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.00	-0.0015950	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0030430	-0.0016350		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	377.57	0.0000000	-0.0563900	-0.0146840		
Vanadium	292.40	0.0000000	0.0005810	0.0000000		
Zinc	213.86	0.0000000	0.0000000	-0.0037850		

Comments:

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: WS-01_

ICP ID Number: ICP2_____ Date: 10/15/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	5.00	600000.0	P
Antimony	5.00	20000.0	P
Arsenic	5.00	50000.0	P
Barium	5.00	200000.0	P
Beryllium	5.00	50000.0	P
Cadmium	5.00	50000.0	P
Calcium	5.00	1000000.0	P
Chromium	5.00	50000.0	P
Cobalt	5.00	50000.0	P
Copper	5.00	50000.0	P
Iron	5.00	500000.0	P
Lead	5.00	50000.0	P
Magnesium	5.00	600000.0	P
Manganese	5.00	50000.0	P
Mercury			NR
Nickel	5.00	50000.0	P
Potassium	5.00	600000.0	P
Selenium	5.00	50000.0	P
Silver	5.00	5000.0	P
Sodium	5.00	600000.0	P
Thallium	5.00	50000.0	P
Vanadium	5.00	50000.0	P
Zinc	5.00	50000.0	P

Comments:

WESTON.
MANAGERS DESIGNERS/CONSULTANTS

ICP RAW DATA

Brad Hanenek

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	S0	P21214A	A	12/14/96	16:59		X	IR
2	S1	P21214A	A	12/14/96	17:02		X	IR
3	S2	P21214A	A	12/14/96	17:06		X	IR
4	S3	P21214A	A	12/14/96	17:09		X	IR
5	S3	P21214A	A	12/14/96	17:18	bh	Q	CONC
6	ICV	P21214A	A	12/14/96	17:22	bh	Q	CONC
7	ICB	P21214A	A	12/14/96	17:25	bh	Q	CONC
8	CRI	P21214A	A	12/14/96	17:29	bh	Q	CONC
9	ISA	P21214A	A	12/14/96	17:33	bh	Q	CONC
10	ISB	P21214A	A	12/14/96	17:37	bh	Q	CONC
11	CCV 1	P21214A	A	12/14/96	17:40	bh	Q	CONC
12	CCB	P21214A	A	12/14/96	17:44	bh	Q	CONC
13	96GI657-MB1	P21214A	A	12/14/96	17:48	bh	S	CONC
14	96GI657-LC1	P21214A	A	12/14/96	17:51	bh	S	CONC
15	96GI657-LC2	P21214A	A	12/14/96	17:55	bh	S	CONC
16	9611G722-001	P21214A	A	12/14/96	17:59	bh	S	CONC
17	9611G722-001R	P21214A	A	12/14/96	18:03	bh	S	CONC
18	9611G722-001S	P21214A	A	12/14/96	18:06	bh	S	CONC
19	9611G722-001L	P21214A	A	12/14/96	18:10	bh	S	CONC
20	9611G722-002	P21214A	A	12/14/96	18:14	bh	S	CONC
21	9611G722-003	P21214A	A	12/14/96	18:17	bh	S	CONC
22	9611G722-004	P21214A	A	12/14/96	18:21	bh	S	CONC
23	CCV 2	P21214A	A	12/14/96	18:25	bh	Q	CONC
24	CCB	P21214A	A	12/14/96	18:29	bh	Q	CONC
25	9611G722-006	P21214A	A	12/14/96	18:32	bh	S	CONC
26	9611G722-007	P21214A	A	12/14/96	18:36	bh	S	CONC
27	9611G722-008	P21214A	A	12/14/96	18:40	bh	S	CONC
28	9611G722-009	P21214A	A	12/14/96	18:44	bh	S	CONC
29	9611G722-010	P21214A	A	12/14/96	18:47	bh	S	CONC
30	9611G722-011	P21214A	A	12/14/96	18:51	bh	S	CONC
31	9611G722-012	P21214A	A	12/14/96	18:55	bh	S	CONC
32	9611G722-013	P21214A	A	12/14/96	18:58	bh	S	CONC
33	9611G722-014	P21214A	A	12/14/96	19:02	bh	S	CONC
34	9611G722-015	P21214A	A	12/14/96	19:06	bh	S	CONC
35	CCV 3	P21214A	A	12/14/96	19:10	bh	Q	CONC
36	CCB	P21214A	A	12/14/96	19:13	bh	Q	CONC
37	9611G722-016	P21214A	A	12/14/96	19:17	bh	S	CONC
38	CCV 4	P21214A	A	12/14/96	19:21	bh	Q	CONC
39	CCB	P21214A	A	12/14/96	19:25	bh	Q	CONC
40	CRI	P21214A	A	12/14/96	19:28	bh	Q	CONC
41	ISA	P21214A	A	12/14/96	19:32	bh	Q	CONC
42	ISB	P21214A	A	12/14/96	19:36	bh	Q	CONC
43	CCV 5	P21214A	A	12/14/96	19:39	bh	Q	CONC
44	CCB	P21214A	A	12/14/96	19:43	bh	Q	CONC
45	S0	P21214A	A	12/14/96	19:47		X	IR
46	S1	P21214A	A	12/14/96	19:51		X	IR
47	S2	P21214A	A	12/14/96	19:54		X	IR
48	S3	P21214A	A	12/14/96	19:58		X	IR
49	CCV 6	P21214A	A	12/14/96	20:06	bh	Q	CONC
50	CCB	P21214A	A	12/14/96	20:10	bh	Q	CONC
51	96GI658-MB1	P21214A	A	12/14/96	20:14	bh	S	CONC
52	96GI658-LC1 No Cd	P21214A	A	12/14/96	20:17	bh	S	CONC
53	96GI658-LC2 No Cd	P21214A	A	12/14/96	20:21	bh	S	CONC

Run 1

gr 1/13/97

Brian L Hamerde

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	9611G708-001	P21214A	A	12/14/96	20:25	bh	S	CONC
55	9611G708-001R	P21214A	A	12/14/96	20:29	bh	S	CONC
56	9611G708-001S	P21214A	A	12/14/96	20:32	bh	S	CONC
57	9611G708-001L	P21214A	A	12/14/96	20:36	bh	S	CONC
58	9611G708-002	P21214A	A	12/14/96	20:40	bh	S	CONC
59	9611G708-002R	P21214A	A	12/14/96	20:43	bh	S	CONC
60	9611G708-002S	P21214A	A	12/14/96	20:47	bh	S	CONC
61	CCV	P21214A	A	12/14/96	20:51	bh	Q	CONC
62	CCB	P21214A	A	12/14/96	20:55	bh	Q	CONC
63	9611G708-002L	P21214A	A	12/14/96	20:58	bh	S	CONC
64	9611G708-003	P21214A	A	12/14/96	21:02	bh	S	CONC
65	9611G708-004	P21214A	A	12/14/96	21:06	bh	S	CONC
66	9611G769-001	P21214A	A	12/14/96	21:10	bh	S	CONC
67	9611G769-001R	P21214A	A	12/14/96	21:13	bh	S	CONC
68	9611G769-001S	P21214A	A	12/14/96	21:17	bh	S	CONC
69	9611G769-001L	P21214A	A	12/14/96	21:21	bh	S	CONC
70	9611G769-002	P21214A	A	12/14/96	21:24	bh	S	CONC
71	9611G771-001	P21214A	A	12/14/96	21:28	bh	S	CONC
72	9611G771-001R	P21214A	A	12/14/96	21:32	bh	S	CONC
73	CCV	P21214A	A	12/14/96	21:36	bh	Q	CONC
74	CCB	P21214A	A	12/14/96	21:39	bh	Q	CONC
75	9611G771-001S	P21214A	A	12/14/96	21:43	bh	S	CONC
76	9611G771-001L	P21214A	A	12/14/96	21:47	bh	S	CONC
77	9611G771-002	P21214A	A	12/14/96	21:51	bh	S	CONC
78	9611G771-004	P21214A	A	12/14/96	21:54	bh	S	CONC
79	96GI664-MB1	P21214A	A	12/14/96	21:59	bh	S	CONC
80	~~96GI664-LC1~~	~~P21214A~~	~~A~~	~~12/14/96~~	~~22:03~~	~~bh~~	~~S~~	~~CONC~~
81	9611G612-002	P21214A	A	12/14/96	22:07	bh	S	CONC
82	9611G612-002R	P21214A	A	12/14/96	22:11	bh	S	CONC
83	9611G612-002S	P21214A	A	12/14/96	22:14	bh	S	CONC
84	9611G612-002L	P21214A	A	12/14/96	22:18	bh	S	CONC
85	CCV	P21214A	A	12/14/96	22:22	bh	Q	CONC
86	CCB	P21214A	A	12/14/96	22:26	bh	Q	CONC
87	96GI665-MB1 Pb ICP	P21214A	A	12/14/96	22:31	bh	S	CONC
88	96GI665-LC1 ↓ No CA	P21214A	A	12/14/96	22:34	bh	S	CONC
89	9611G675-001	P21214A	A	12/14/96	22:38	bh	S	CONC
90	9611G675-001R	P21214A	A	12/14/96	22:42	bh	S	CONC
91	9611G675-001S	P21214A	A	12/14/96	22:46	bh	S	CONC
92	9611G675-001L	P21214A	A	12/14/96	22:49	bh	S	CONC
93	9611G675-001A	P21214A	A	12/14/96	22:53	bh	S	CONC
94	9611G675-002	P21214A	A	12/14/96	22:57	bh	S	CONC
95	9611G675-003 Pb ICP	P21214A	A	12/14/96	23:00	bh	S	CONC
96	9611G675-004	P21214A	A	12/14/96	23:04	bh	S	CONC
97	CCV	P21214A	A	12/14/96	23:08	bh	Q	CONC
98	CCB	P21214A	A	12/14/96	23:12	bh	Q	CONC
99	9611G675-005 Pb ICP	P21214A	A	12/14/96	23:15	bh	S	CONC
100	9611G675-006 Pb ICP	P21214A	A	12/14/96	23:19	bh	S	CONC
101	9611G675-007	P21214A	A	12/14/96	23:23	bh	S	CONC
102	9611G675-008 Pb ICP	P21214A	A	12/14/96	23:27	bh	S	CONC
103	CRI	P21214A	A	12/14/96	23:30	bh	Q	CONC
104	ISA	P21214A	A	12/14/96	23:34	bh	Q	CONC
105	ISB	P21214A	A	12/14/96	23:38	bh	Q	CONC
106	CCV	P21214A	A	12/14/96	23:41	bh	Q	CONC
107	CCB	P21214A	A	12/14/96	23:45	bh	Q	CONC

LB 1/10/97

gw 12/16/96

gw 1/13/97

Weston Environmental Metrics, Inc.
IC2 - ICAP 61
CLP Cover Sheet

Raw Run/Filename: P21214A

Analysis Date: 12/14/96

Standard Traceability:

Calibration Standard Source(s) ID:

Source ID		
973	974	975
976	977	978

	Book # -	Page -	Line
ICV Solution #:	2100 -	20 -	7
CCV Solution #:	2100 -	51 -	6
ICSA Solution #:	2100 -	41 -	3
ICSAB Solution #:	2100 -	32 -	2
CRI Solution #:	2100 -	17 -	4

RFW's to Copy:

9611G708
9611G769
9611G771
9611G612
9611G722
9611G675

Analyst Signature: [signature] Date: 12/16/96

Reviewer Signature: [signature] Date: 12/17/96

RFW 21-21G-1579/B-9/95

P21214A

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Method: A Standard: S0

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	-.00027	.00002	.00001	.00001	.00001	.00070	.00018
SDev	.00004	.00003	.00000	.00000	.00001	.00003	.00001
%RSD	15.287	158.42	24.729	.23597	173.21	4.2162	4.2450
#1	-.00027	.00003	.00001	.00001	.00000	.00069	.00019
#2	-.00030	-.00002	.00001	.00001	.00002	.00069	.00018
#3	-.00022	.00005	.00001	.00001	.00000	.00074	.00018

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00009	.00002	.00003	.00020	.00002	.00005	-.00001
SDev	.00001	.00001	.00001	.00002	.00001	.00003	.00000
%RSD	14.376	43.286	46.029	9.2929	56.790	62.632	.23597
#1	.00009	.00001	.00004	.00019	.00003	.00008	-.00001
#2	.00007	.00001	.00003	.00022	.00001	.00004	-.00001
#3	.00009	.00003	.00002	.00020	.00003	.00002	-.00001

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.00000	-.00019	.00000	-.00008	-.00550	.00001	.00006
SDev	.00001	.00007	.00003	.00001	.00005	.00001	.00004
%RSD	173.21	35.722	954.07	12.553	.91139	86.603	63.658
#1	.00000	-.00016	.00003	-.00009	-.00545	.00000	.00009
#2	.00001	-.00027	-.00001	-.00007	-.00551	.00001	.00002
#3	.00000	-.00015	-.00002	-.00009	-.00554	.00001	.00009

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.00001	-.00002	.00002	.00007	.00091	-.00021	.00001
SDev	.00004	.00000	.00001	.00001	.00006	.00002	.00001
%RSD	433.77	24.527	21.664	6.6798	7.1739	11.290	100.09
#1	.00005	-.00002	.00003	.00008	.00092	-.00019	.00002
#2	-.00002	-.00003	.00003	.00008	.00097	-.00021	.00000
#3	-.00001	-.00002	.00002	.00007	.00084	-.00023	.00001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232687	--	--	--	--	--	--
SDev	548.9529	--	--	--	--	--	--
%RSD	.2359194	--	--	--	--	--	--
#1	232120	--	--	--	--	--	--
#2	233216	--	--	--	--	--	--
#3	232724	--	--	--	--	--	--

Method: A Standard: S1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.29456	.00171	.04373	.03132	.01479	.03066	.26905
SDev	.00023	.00005	.00006	.00002	.00004	.00028	.00051
%RSD	.07764	2.7462	.13147	.07462	.25332	.90438	.19021

#1	.29482	.00170	.04379	.03132	.01482	.03039	.26857
#2	.29440	.00177	.04368	.03130	.01475	.03064	.26900
#3	.29446	.00168	.04371	.03135	.01479	.03094	.26959

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.09974	.03313	.03666	.17426	.00552	.07961	.02006
SDev	.00012	.00005	.00011	.00024	.00001	.00007	.00002
%RSD	.11892	.15101	.28818	.13642	.15054	.08402	.08650
#1	.09977	.03311	.03677	.17413	.00553	.07968	.02006
#2	.09961	.03309	.03656	.17411	.00553	.07956	.02004
#3	.09984	.03318	.03666	.17453	.00552	.07957	.02008

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.01652	.05943	.00187	.00391	.07245	.01120	.01135
SDev	.00006	.00013	.00002	.00000	.00034	.00002	.00006
%RSD	.38952	.22261	.99608	.06768	.47195	.18572	.57429
#1	.01646	.05931	.00186	.00391	.07243	.01122	.01129
#2	.01651	.05957	.00185	.00391	.07212	.01118	.01142
#3	.01659	.05941	.00186	.00391	.07280	.01119	.01135

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.02619	.04202	.03349	.03814	.02216	.00978	.02145
SDev	.00017	.00003	.00005	.00006	.00014	.00009	.00006
%RSD	.63433	.06282	.13923	.15186	.64930	.86452	.29142
#1	.02601	.04205	.03344	.03817	.02228	.00983	.02149
#2	.02622	.04200	.03348	.03807	.02219	.00968	.02137
#3	.02634	.04201	.03354	.03817	.02200	.00982	.02147

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	235371	--	--	--	--	--	--
SDev	439.8015	--	--	--	--	--	--
%RSD	.1868543	--	--	--	--	--	--
#1	234876	--	--	--	--	--	--
#2	235522	--	--	--	--	--	--
#3	235716	--	--	--	--	--	--

Method: A Standard: S2

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.74425	.00413	.10932	.07841	.03689	.07525	.66810
SDev	.00040	.00005	.00029	.00007	.00007	.00010	.00269
%RSD	.05358	1.2193	.26185	.09142	.18287	.13347	.40288
#1	.74462	.00419	.10964	.07834	.03696	.07534	.67121
#2	.74383	.00412	.10921	.07848	.03682	.07527	.66653
#3	.74431	.00410	.10910	.07842	.03689	.07514	.66657

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.24543	.08168	.09167	.42932	.01370	.20090	.04940
SDev	.00031	.00010	.00025	.00033	.00005	.00019	.00002
%RSD	.12519	.12009	.27131	.07600	.35617	.09259	.04397
#1	.24543	.08168	.09181	.42934	.01369	.20111	.04940
#2	.24573	.08178	.09182	.42963	.01366	.20083	.04942
#3	.24512	.08158	.09139	.42898	.01375	.20076	.04938

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.04100	.14605	.00471	.00987	.19160	.02803	.02808
SDev	.00012	.00022	.00003	.00000	.00060	.00004	.00014
%RSD	.28776	.14975	.54622	.03456	.31104	.13538	.49790
#1	.04086	.14599	.00473	.00987	.19149	.02807	.02819
#2	.04108	.14629	.00472	.00988	.19107	.02803	.02814
#3	.04105	.14587	.00468	.00987	.19225	.02799	.02793

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.06506	.10458	.08360	.09522	.05361	.02494	.05416
SDev	.00003	.00003	.00003	.00007	.00023	.00007	.00022
%RSD	.04617	.02481	.03230	.07890	.42376	.27537	.40715
#1	.06503	.10461	.08361	.09528	.05382	.02500	.05441
#2	.06507	.10457	.08357	.09513	.05337	.02486	.05399
#3	.06508	.10456	.08362	.09524	.05364	.02494	.05408

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232985	--	--	--	--	--	--
SDev	553.1884	--	--	--	--	--	--
%RSD	.2374348	--	--	--	--	--	--
#1	232352	--	--	--	--	--	--
#2	233230	--	--	--	--	--	--
#3	233374	--	--	--	--	--	--

Method: A Standard: S3

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	1.5292	.00840	.22024	.15753	.07502	.15155	1.3377
SDev	.0025	.00012	.00042	.00008	.00011	.00018	.0024
%RSD	.16068	1.4306	.18936	.05353	.14870	.11598	.17925
#1	1.5300	.00839	.22062	.15747	.07490	.15148	1.3397
#2	1.5265	.00828	.21980	.15749	.07505	.15175	1.3384
#3	1.5312	.00852	.22031	.15763	.07511	.15142	1.3350

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.48724	.16228	.18742	.85399	.02736	.40958	.09838
SDev	.00035	.00015	.00033	.00075	.00006	.00048	.00008
%RSD	.07145	.09469	.17847	.08804	.20411	.11787	.08264
#1	.48727	.16238	.18763	.85408	.02742	.40998	.09846

#2	.48756	.16236	.18703	.85469	.02736	.40904	.09838
#3	.48687	.16210	.18760	.85320	.02731	.40971	.09829
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.08178	.29009	.00973	.02007	.39862	.05652	.05555
SDev	.00008	.00072	.00002	.00000	.00298	.00011	.00039
%RSD	.09566	.24943	.18410	.01739	.74842	.20010	.70188
#1	.08181	.28987	.00975	.02006	.39807	.05656	.05526
#2	.08184	.29089	.00971	.02007	.39594	.05639	.05540
#3	.08169	.28949	.00974	.02006	.40183	.05660	.05599
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.13021	.21080	.16809	.19370	.10754	.05064	.11151
SDev	.00049	.00030	.00013	.00025	.00028	.00007	.00060
%RSD	.37983	.14472	.07646	.12687	.25861	.13023	.53407
#1	.12998	.21111	.16824	.19399	.10785	.05065	.11157
#2	.13078	.21080	.16801	.19353	.10734	.05070	.11089
#3	.12987	.21050	.16803	.19360	.10741	.05057	.11208
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225961	--	--	--	--	--	--
SDev	1068.331	--	--	--	--	--	--
%RSD	.4727936	--	--	--	--	--	--
#1	224789	--	--	--	--	--	--
#2	226215	--	--	--	--	--	--
#3	226880	--	--	--	--	--	--

Method: A Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	66.7521	.020503	12/14/96 05:09:56
Sb2068	206.838	Multiple	Standards	243.260	-.005266	12/14/96 05:09:56
Ba4934	493.409	Multiple	Standards	91.2614	-.000816	12/14/96 05:09:56
Be3130	313.042	Multiple	Standards	32.0363	-.000253	12/14/96 05:09:56
B-2496	249.678	Multiple	Standards	134.699	-.000675	12/14/96 05:09:56
Cd2288	228.802	Multiple	Standards	33.7824	-.023792	12/14/96 05:09:56
Ca3179	317.933	Multiple	Standards	74.6707	-.014307	12/14/96 05:09:56
Cr2677	267.716	Multiple	Standards	20.2917	-.001964	12/14/96 05:09:56
Co2286	228.616	Multiple	Standards	61.3449	-.001225	12/14/96 05:09:56
Cu3247	324.754	Multiple	Standards	54.1420	-.001398	12/14/96 05:09:56
Fe2599	259.940	Multiple	Standards	58.0071	-.012619	12/14/96 05:09:56
Pb2203	220.353	Multiple	Standards	357.516	-.008765	12/14/96 05:09:56
Mg2790	279.079	Multiple	Standards	247.791	-.009181	12/14/96 05:09:56
Mn2576	257.610	Multiple	Standards	100.735	.000694	12/14/96 05:09:56
Mo2020	202.030	Multiple	Standards	121.887	-.000433	12/14/96 05:09:56
Ni2316	231.604	Multiple	Standards	34.0259	.006398	12/14/96 05:09:56
K-7664	766.491	Multiple	Standards	10536.1	-.027479	12/14/96 05:09:56
Ag3280	328.068	Multiple	Standards	97.3889	.007826	12/14/96 05:09:56

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Na5889	588.995	Multiple	Standards	252.493	1.39165	12/14/96 05:09:56
Sr4215	421.552	Multiple	Standards	178.008	-.000951	12/14/96 05:09:56
Tl1908	190.864	Multiple	Standards	346.222	-.022593	12/14/96 05:09:56
Sn1899	189.989	Multiple	Standards	76.7025	-.000716	12/14/96 05:09:56
V-2924	292.402	Multiple	Standards	47.1483	.000953	12/14/96 05:09:56
Zn2138	213.856	Multiple	Standards	59.8562	-.001345	12/14/96 05:09:56
Ti3349	334.941	Multiple	Standards	52.2409	-.003777	12/14/96 05:09:56
As1936	193.696	Multiple	Standards	94.2599	-.085536	12/14/96 05:09:56
Se1960	196.026	Multiple	Standards	193.116	.040249	12/14/96 05:09:56
Li6707	670.784	Multiple	Standards	91.7385	-.000499	12/14/96 05:09:56

Method: A

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	.002719	-.002719
		S1	20.0000	19.6831	.316889
		S2	50.0000	49.7010	.298950
		S3	100.000	102.099	-2.09901

CorCoef: 0.99989

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	S0	.000000	-.000029	.000029
		S1	.400000	.411585	-.011585
		S2	1.00000	1.00057	-.000571
		S3	2.00000	2.03693	-.036933

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	S0	.000000	.000100	-.000100
		S1	4.00000	3.99000	.009997
		S2	10.0000	9.97554	.024456
		S3	20.0000	20.0989	-.098900

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	S0	.000000	.000022	-.000022
		S1	1.00000	1.00319	-.003192
		S2	2.50000	2.51184	-.011841
		S3	5.00000	5.04637	-.046368

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B-2496	249.678	S0	.000000	.000095	-.000095
		S1	2.00000	1.99087	.009127
		S2	5.00000	4.96848	.031522
		S3	10.0000	10.1044	-.104419

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2288	228.802	S0	.000000	.000018	-.000018
		S1	1.00000	1.01190	-.011897
		S2	2.50000	2.51837	-.018367
		S3	5.00000	5.09607	-.096067

CorCoef: 0.99998

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	S0	.000000	-.000507	.000507
		S1	20.0000	20.0760	-.076021
		S2	50.0000	49.8734	.126640
		S3	100.000	99.8732	.126816

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	S0	.000000	-.000191	.000191
		S1	2.00000	2.02191	-.021909
		S2	5.00000	4.97818	.021815
		S3	10.0000	9.88489	.115108

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	S0	.000000	-.000170	.000170
		S1	2.00000	2.03099	-.030994
		S2	5.00000	5.00945	-.009452
		S3	10.0000	9.95385	.046153

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.754	S0	.000000	.000154	-.000154
		S1	2.00000	1.98352	.016480
		S2	5.00000	4.96195	.038054
		S3	10.0000	10.1459	-.145912

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2599	259.940	S0	.000000	-.000821	.000821
		S1	10.0000	10.0956	-.095569
		S2	25.0000	24.8908	.109241
		S3	50.0000	49.5247	.475273

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	S0	.000000	-.000052	.000052
		S1	2.00000	1.96637	.033628
		S2	5.00000	4.88935	.110651
		S3	10.0000	9.77457	.225434

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.079	S0	.000000	.002187	-.002187
		S1	20.0000	19.7169	.283092
		S2	50.0000	49.7718	.228249
		S3	100.000	101.481	-1.48079

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	-.000171	.000171
		S1	2.00000	2.02135	-.021347
		S2	5.00000	4.97709	.022911
		S3	10.0000	9.91070	.089296

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000085	.000085
		S1	2.00000	2.01313	-.013129
		S2	5.00000	4.99687	.003127
		S3	10.0000	9.96743	.032569

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000229	.000229
		S1	2.00000	2.02863	-.028633
		S2	5.00000	4.97590	.024096
		S3	10.0000	9.87681	.123191

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K-7664	766.491	S0	.000000	.003081	-.003081
		S1	20.0000	19.6536	.346363
		S2	50.0000	49.6119	.388062
		S3	100.000	102.508	-2.50794

CorCoef: 0.99984

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	.000012	-.000012
		S1	.400000	.388492	.011508
		S2	1.00000	.969515	.030485
		S3	2.00000	1.96197	.038029

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	.002709	-.002709
		S1	20.0000	19.6844	.315636
		S2	50.0000	49.7695	.230469
		S3	100.000	102.039	-2.03912

CorCoef: 0.99991

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	.000068	-.000068
		S1	2.00000	1.99262	.007379
		S2	5.00000	4.98869	.011315
		S3	10.0000	10.0595	-.059525

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	S0	.000000	-.000256	.000256
		S1	4.00000	3.90779	.092210
		S2	10.0000	9.70052	.299481
		S3	20.0000	19.2099	.790060

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	-.000052	.000052
		S1	2.00000	2.00809	-.008093
		S2	5.00000	4.98954	.010464
		S3	10.0000	9.98679	.013213

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V-2924	292.402	S0	.000000	.000007	-.000007
		S1	2.00000	1.98206	.017936
		S2	5.00000	4.93173	.068267
		S3	10.0000	9.93993	.060075

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	.000027	-.000027
		S1	2.00000	2.00309	-.003088
		S2	5.00000	5.00240	-.002402
		S3	10.0000	10.0601	-.060128

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	.000114	-.000114
		S1	2.00000	1.98868	.011324
		S2	5.00000	4.97048	.029518
		S3	10.0000	10.1155	-.115535

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1936	193.696	S0	.000000	.000004	-.000004
		S1	2.00000	2.00281	-.002814
		S2	5.00000	4.96783	.032173
		S3	10.0000	10.0508	-.050816

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	S0	.000000	.000138	-.000138
		S1	2.00000	1.92817	.071832
		S2	5.00000	4.85563	.144372
		S3	10.0000	9.82023	.179768

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li6707	670.784	S0	.000000	.000290	-.000290
		S1	2.00000	1.96689	.033114
		S2	5.00000	4.96803	.031971
		S3	10.0000	10.2295	-.229514

CorCoef: 0.99987

Method: A Sample Name: S3 Operator: bh
Run Time: 12/14/96 17:18:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	103.30	2.0120	20.571	5.0247	10.143	5.0482	98.922
SDev	1.34	.0172	.218	.0137	.039	.0133	1.106
%RSD	1.2943	.85262	1.0606	.27175	.38453	.26302	1.1184
#1	104.67	1.9923	20.786	5.0149	10.188	5.0419	97.995
#2	103.21	2.0199	20.578	5.0189	10.124	5.0392	98.623
#3	102.00	2.0238	20.350	5.0403	10.118	5.0634	100.15

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	100.00	2.0000	20.000	5.0000	10.000	5.0000	100.00
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8912	9.9205	10.231	49.660	9.9878	102.28	9.9119
SDev	.0578	.0565	.169	.208	.0748	.61	.0435
%RSD	.58487	.56970	1.6524	.41860	.74863	.60093	.43911
#1	9.8478	9.8816	10.406	49.501	9.9268	102.97	9.8839
#2	9.8690	9.8946	10.220	49.583	9.9655	102.10	9.8897
#3	9.9569	9.9853	10.068	49.895	10.071	101.79	9.9620
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	10.000	10.000	50.000	10.000	100.00	10.000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Mo2020	Ni2316	K-7664 NR	Ag3280	Na5889 NR	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9917	9.8920	Q108.99	2.0225	Q109.00	10.163	20.073
SDev	.0557	.0354	6.40	.0081	6.37	.077	.132
%RSD	.55773	.35773	5.8756	.40125	5.8454	.75961	.65979
#1	9.9411	9.8579	Q115.84	2.0318	Q115.39	10.243	20.171
#2	9.9827	9.8895	Q107.98	2.0172	Q108.95	10.156	20.125
#3	10.051	9.9286	103.15	2.0184	102.65	10.089	19.922
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass
Value	10.000	10.000	100.00	2.0000	100.00	10.000	20.000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9925	10.037	10.127	10.168	10.095	10.154	Q10.951
SDev	.0916	.014	.011	.028	.009	.059	.754
%RSD	.91632	.14129	.10474	.27518	.09104	.58243	6.8879
#1	9.9242	10.038	10.138	10.200	10.104	10.196	Q11.737
#2	9.9567	10.023	10.117	10.149	10.086	10.180	Q10.884
#3	10.097	10.052	10.125	10.156	10.094	10.086	10.233
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225957	--	--	--	--	--	--
SDev	987.2300	--	--	--	--	--	--
%RSD	.4369105	--	--	--	--	--	--
#1	225515	--	--	--	--	--	--

#2	227088	--	--	--	--	--	--
#3	225268	--	--	--	--	--	--

Method: A Sample Name: ICV Operator: bh
Run Time: 12/14/96 17:22:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.778	.81501	8.2034	2.0145	4.0221	2.0019	40.076
SDev	.033	.00755	.0089	.0016	.0339	.0028	.030
%RSD	.08304	.92646	.10896	.08118	.84333	.13998	.07477
#1	39.800	.82124	8.2072	2.0164	4.0611	2.0041	40.097
#2	39.793	.81718	8.1931	2.0139	3.9994	1.9987	40.090
#3	39.740	.80661	8.2097	2.0133	4.0058	2.0028	40.042
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	.80000	8.0000	2.0000	4.0000	2.0000	40.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0751	4.0521	3.9661	20.235	4.0794	39.661	4.0416
SDev	.0041	.0087	.0015	.026	.0155	.055	.0083
%RSD	.10083	.21454	.03668	.12671	.38103	.13942	.20539
#1	4.0795	4.0621	3.9650	20.259	4.0906	39.723	4.0510
#2	4.0743	4.0475	3.9655	20.208	4.0616	39.642	4.0388
#3	4.0714	4.0466	3.9677	20.237	4.0859	39.618	4.0351
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	20.000	4.0000	40.000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1310	4.0873	39.854	.80019	40.130	4.0357	8.2456
SDev	.0054	.0170	.528	.00281	.069	.0035	.0451
%RSD	.13169	.41473	1.3241	.35138	.17070	.08650	.54723
#1	4.1350	4.0947	39.599	.80272	40.127	4.0394	8.2907
#2	4.1248	4.0679	39.502	.80067	40.062	4.0325	8.2456
#3	4.1332	4.0993	40.461	.79716	40.199	4.0350	8.2005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	40.000	.80000	40.000	4.0000	8.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2508	4.0483	4.0734	4.1234	4.0133	4.0914	4.0863
SDev	.0084	.0032	.0096	.0034	.0144	.0080	.0135
%RSD	.19661	.07846	.23632	.08277	.36004	.19548	.32923

#1	4.2554	4.0519	4.0829	4.1196	4.0297	4.0984	4.0746
#2	4.2412	4.0461	4.0736	4.1245	4.0023	4.0827	4.0833
#3	4.2559	4.0468	4.0637	4.1262	4.0080	4.0932	4.1010
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228783	--	--	--	--	--	--
SDev	796.0924	--	--	--	--	--	--
%RSD	.3479683	--	--	--	--	--	--
#1	227864	--	--	--	--	--	--
#2	229224	--	--	--	--	--	--
#3	229261	--	--	--	--	--	--

Method: A Sample Name: ICB Operator: bh
Run Time: 12/14/96 17:25:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01031	.00716	.00346	.00078	.00761	.00132	.01018
SDev	.00340	.00268	.00093	.00016	.00118	.00200	.00499
%RSD	32.977	37.402	26.828	20.236	15.516	151.13	49.048
#1	.00640	.00964	.00399	.00087	.00642	.00220	.00798
#2	.01255	.00432	.00239	.00060	.00878	-.00096	.00666
#3	.01199	.00754	.00400	.00087	.00761	.00273	.01590
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00021	.00057	.00161	-.00183	-.00299	.00210	.00099
SDev	.00067	.00125	.00073	.00276	.00332	.01059	.00051
%RSD	321.35	219.81	45.329	150.92	111.10	504.25	51.648
#1	-.00045	-.00015	.00145	-.00065	-.00405	-.00698	.00070
#2	.00018	-.00015	.00097	-.00498	-.00564	-.00045	.00069
#3	.00089	.00201	.00241	.00014	.00073	.01373	.00158
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00313	-.00466	-.49014	-.00129	-.04902	.00035	.02274

SDev	.00061	.00269	.24469	.00215	.02486	.00120	.02013
%RSD	19.620	57.745	49.921	166.73	50.720	338.71	88.511
#1	.00278	-.00734	-.76751	-.00328	-.06479	.00061	.00500
#2	.00384	-.00196	-.30486	-.00157	-.06191	-.00095	.01861
#3	.00278	-.00467	-.39805	.00099	-.02036	.00140	.04461
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00676	.00140	.00165	.00295	-.00055	.00407	.00084
SDev	.00294	.00109	.00032	.00027	.00677	.01441	.00168
%RSD	43.453	77.700	19.101	9.1113	1236.7	353.78	198.80
#1	-.00474	.00181	.00183	.00310	.00631	-.01061	.00031
#2	-.01014	.00017	.00129	.00264	-.00073	.00464	-.00050
#3	-.00542	.00223	.00183	.00311	-.00722	.01818	.00273
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	227720	--	--	--	--	--	--
SDev	233.3438	--	--	--	--	--	--
%RSD	.1024698	--	--	--	--	--	--
#1	227799	--	--	--	--	--	--
#2	227903	--	--	--	--	--	--
#3	227457	--	--	--	--	--	--

Method: A Sample Name: CRI Operator: bh
Run Time: 12/14/96 17:29:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40061	.11670	.42198	.01078	.21452	.01036	2.0817
SDev	.00675	.01197	.00124	.00028	.00193	.00050	.0070
%RSD	1.6858	10.259	.29420	2.5506	.89746	4.8686	.33714
#1	.39283	.11451	.42070	.01047	.21673	.01057	2.0749
#2	.40491	.12961	.42208	.01098	.21354	.01072	2.0889
#3	.40410	.10597	.42317	.01090	.21328	.00978	2.0814
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02089	.10528	.05189	.20922	.10419	1.9687	.03145
SDev	.00083	.00038	.00112	.00260	.00580	.0129	.00038
%RSD	3.9667	.36582	2.1589	1.2419	5.5645	.65570	1.2135
#1	.02053	.10547	.05107	.20635	.11087	1.9732	.03103
#2	.02184	.10554	.05317	.20991	.10122	1.9788	.03177
#3	.02030	.10484	.05143	.21141	.10048	1.9542	.03156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20971	.08456	1.9075	.01963	1.9946	.20636	.43419
SDev	.00377	.00458	.5190	.00092	.0152	.00050	.01919
%RSD	1.7973	5.4205	27.209	4.6690	.76334	.24211	4.4193
#1	.20570	.08305	1.5102	.01857	2.0051	.20612	.44928
#2	.21319	.08971	2.4947	.02020	2.0015	.20603	.41259
#3	.21023	.08093	1.7175	.02012	1.9771	.20693	.44069
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21570	.10489	.04651	.20632	.19900	.21016	.20404
SDev	.00365	.00083	.00038	.00028	.00829	.01088	.00218
%RSD	1.6924	.78990	.81777	.13582	4.1675	5.1754	1.0708
#1	.21874	.10529	.04641	.20617	.19569	.22005	.20270
#2	.21165	.10394	.04618	.20665	.20844	.21193	.20656
#3	.21670	.10545	.04693	.20615	.19288	.19851	.20286
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000	.20000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	234124	--	--	--	--	--	--
SDev	1267.568	--	--	--	--	--	--
%RSD	.5414089	--	--	--	--	--	--
#1	232964	--	--	--	--	--	--
#2	233931	--	--	--	--	--	--
#3	235477	--	--	--	--	--	--

Method: A Sample Name: ISA Operator: bh
Run Time: 12/14/96 17:33:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	560.98	.03406	.00150	.00014	-.02691	.00243	504.20
SDev	1.34	.00780	.00050	.00017	.00309	.00285	1.50
%RSD	.23837	22.897	33.443	118.86	11.495	117.21	.29795
#1	559.44	.03096	.00181	.00034	-.02431	.00387	505.57
#2	561.66	.04294	.00178	.00004	-.02610	-.00085	504.44
#3	561.84	.02829	.00092	.00004	-.03033	.00427	502.60
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00497	-.00570	.00914	197.49	.04329	538.62	.00330
SDev	.00097	.00116	.00088	.41	.02615	.85	.00055
%RSD	19.503	20.405	9.5778	.20562	60.410	.15776	16.781
#1	.00586	-.00685	.01015	197.91	.07237	539.59	.00266
#2	.00394	-.00572	.00865	197.10	.03580	538.02	.00363
#3	.00513	-.00453	.00862	197.47	.02170	538.25	.00361
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00612	.01115	-.52731	-.00088	-.14595	.00809	-.11798
SDev	.00224	.01000	.45737	.00113	.00565	.00093	.10170
%RSD	36.598	89.714	86.736	129.54	3.8715	11.446	86.199
#1	.00837	.02153	-.02748	.00038	-.14089	.00758	-.01512
#2	.00389	.00157	-.92491	-.00182	-.15204	.00916	-.21847
#3	.00611	.01034	-.62953	-.00119	-.14491	.00753	-.12036
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05136	.00349	.00961	.00283	-.00038	-.12269	.00067
SDev	.01398	.00194	.00073	.00054	.02230	.01931	.00101
%RSD	27.220	55.513	7.5721	18.915	5907.6	15.742	151.54
#1	-.06121	.00571	.01007	.00345	-.00534	-.10742	.00126
#2	-.03536	.00217	.00877	.00246	.02399	-.11624	.00124
#3	-.05752	.00258	.00999	.00259	-.01978	-.14440	-.00050
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Value							
Range							
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	209970	--	--	--	--	--	--
SDev	1372.835	--	--	--	--	--	--
%RSD	.6538242	--	--	--	--	--	--
#1	208580	--	--	--	--	--	--
#2	211325	--	--	--	--	--	--
#3	210005	--	--	--	--	--	--

Method: A Sample Name: ISB Operator: bh
Run Time: 12/14/96 17:37:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	566.14	.04109	.53090	.51679	-.02157	1.0753	513.87
SDev	2.62	.01162	.00207	.00087	.00518	.0032	1.69
%RSD	.46305	28.289	.39047	.16866	23.995	.29429	.32795
#1	563.21	.04539	.52870	.51629	-.02087	1.0741	515.67
#2	568.28	.04995	.53282	.51779	-.01678	1.0730	513.59
#3	566.92	.02793	.53118	.51628	-.02706	1.0789	512.34
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	20.000		20.000	20.000		20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51561	.50417	.54620	199.26	1.0623	540.69	.51094
SDev	.00228	.00094	.00024	.25	.0272	.67	.00136
%RSD	.44196	.18581	.04456	.12357	2.5638	.12331	.26658
#1	.51798	.50495	.54623	199.15	1.0931	540.48	.51127
#2	.51542	.50443	.54595	199.54	1.0524	541.44	.51211
#3	.51343	.50313	.54643	199.08	1.0413	540.16	.50945
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00319	1.0247	-.66346	1.1009	-.13807	.00754	-.18476
SDev	.00643	.0067	.57083	.0026	.00833	.00002	.06554
%RSD	201.35	.65164	86.038	.23856	6.0366	.19969	35.471
#1	.01011	1.0255	-.02748	1.1020	-.13128	.00756	-.10974
#2	-.00258	1.0176	-.83150	1.1027	-.14737	.00754	-.21364

#3	.00204	1.0309	-1.1314	1.0979	-.13554	.00753	-.23090
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		20.000		20.000			
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04031	.51513	1.0911	.00241	5.3481	5.1810	.00067
SDev	.01150	.00012	.0042	.00153	.0211	.0415	.00134
%RSD	28.536	.02397	.38506	63.378	.39510	.80030	200.15
#1	-.04117	.51505	1.0942	.00396	5.3506	5.1967	.00213
#2	-.05135	.51527	1.0927	.00238	5.3679	5.2123	.00038
#3	-.02840	.51507	1.0863	.00090	5.3259	5.1340	-.00050
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value		.50000	1.0000		5.0000	5.0000	
Range		20.000	20.000		20.000	20.000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	209624	--	--	--	--	--	--
SDev	371.6105	--	--	--	--	--	--
%RSD	.1772745	--	--	--	--	--	--
#1	209232	--	--	--	--	--	--
#2	209670	--	--	--	--	--	--
#3	209971	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 17:40:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.733	1.0201	10.279	2.5064	5.0626	2.4856	50.138
SDev	.223	.0063	.009	.0015	.0204	.0033	.192
%RSD	.43944	.61464	.09054	.06099	.40323	.13384	.38385
#1	50.519	1.0133	10.287	2.5054	5.0406	2.4817	49.926
#2	50.964	1.0257	10.282	2.5081	5.0664	2.4878	50.301
#3	50.715	1.0211	10.269	2.5055	5.0809	2.4871	50.188
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0497	5.0303	5.0061	25.164	5.0384	49.596	4.9968
SDev	.0042	.0041	.0044	.102	.0269	.210	.0068
%RSD	.08325	.08210	.08726	.40480	.53293	.42329	.13532

#1	5.0451	5.0259	5.0013	25.089	5.0081	49.438	4.9891
#2	5.0507	5.0341	5.0098	25.280	5.0480	49.834	4.9998
#3	5.0534	5.0310	5.0072	25.123	5.0592	49.515	5.0016
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1277	5.0615	50.122	.99962	51.696	5.0620	10.220
SDev	.0136	.0230	.116	.00186	.565	.0061	.091
%RSD	.26536	.45359	.23142	.18593	1.0931	.12061	.89450
#1	5.1121	5.0801	50.239	.99812	51.081	5.0612	10.226
#2	5.1344	5.0685	50.120	1.0017	51.816	5.0684	10.126
#3	5.1368	5.0359	50.007	.99903	52.191	5.0563	10.309
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2635	5.0547	5.0767	5.1698	5.0448	5.0565	5.2002
SDev	.0151	.0026	.0119	.0039	.0286	.0091	.0358
%RSD	.28609	.05075	.23384	.07623	.56732	.18048	.68855
#1	5.2613	5.0532	5.0703	5.1671	5.0646	5.0611	5.1591
#2	5.2795	5.0576	5.0904	5.1681	5.0579	5.0625	5.2170
#3	5.2496	5.0532	5.0694	5.1744	5.0120	5.0460	5.2245
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228582	--	--	--	--	--	--
SDev	574.5575	--	--	--	--	--	--
%RSD	.2513569	--	--	--	--	--	--
#1	229098	--	--	--	--	--	--
#2	227963	--	--	--	--	--	--
#3	228686	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 17:44:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05048	.00182	.00320	.00088	.00664	.00169	.06209
SDev	.04187	.00250	.00213	.00049	.00207	.00129	.05612
%RSD	82.943	137.41	66.451	56.051	31.190	76.006	90.385
#1	.02899	.00328	.00240	.00059	.00645	.00198	.03635
#2	.02372	.00325	.00159	.00060	.00880	.00029	.02345
#3	.09873	-.00107	.00562	.00145	.00467	.00282	Q.12646
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.00165	.00265	.02058	-.00877	.06032	.00070
SDev	.00045	.00173	.00110	.02345	.00001	.05803	.00000
%RSD	147.32	105.18	41.290	113.94	.14855	96.204	.41225
#1	-.00017	.00039	.00170	.01038	-.00878	.02906	.00070
#2	.00036	.00093	.00241	.00396	-.00875	.02462	.00070
#3	.00073	.00363	.00385	Q.04741	-.00876	.12727	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00350	-.00518	-.15093	.00070	-.08304	.00114	.00218
SDev	.00063	.00242	.41804	.00100	.01949	.00091	.01117
%RSD	17.842	46.755	276.98	142.97	23.474	79.520	512.17
#1	.00386	-.00379	-.12031	.00012	-.10555	.00062	.00047
#2	.00278	-.00378	-.58344	.00013	-.07169	.00061	.01410
#3	.00387	-.00798	.25096	.00184	-.07189	.00219	-.00803
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00469	.00119	.00165	.00328	-.00918	.00295	.00179
SDev	.00981	.00075	.00153	.00071	.00659	.01070	.00153
%RSD	209.23	63.155	92.247	21.556	71.812	362.43	85.508
#1	-.00544	.00203	.00078	.00313	-.01493	-.00054	.00071
#2	.00536	.00057	.00077	.00266	-.00198	-.00557	.00111
#3	.01415	.00098	.00342	.00404	-.01064	.01496	.00354
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	227150	--	--	--	--	--	--
SDev	231.7463	--	--	--	--	--	--
%RSD	.1020236	--	--	--	--	--	--
#1	226994	--	--	--	--	--	--
#2	227416	--	--	--	--	--	--
#3	227039	--	--	--	--	--	--

Method: A Sample Name: 96GI657-MB1 Operator: bh
Run Time: 12/14/96 17:48:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00916	-.00100	.00012	.00008	.01313	-.00048	.04623
SDev	.00420	.01191	.00023	.00009	.00149	.00210	.00340
%RSD	45.832	1185.2	195.86	106.68	11.376	437.58	7.3603
#1	.01227	.01184	.00039	.00003	.01297	.00183	.05013
#2	.00438	-.01168	-.00002	.00003	.01172	-.00099	.04390
#3	.01081	-.00317	-.00001	.00018	.01469	-.00229	.04465
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.10000	.05000	.00500	.05000	.00500	.10000
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.00500	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00045	-.00033	.00106	.01691	-.00983	.01440	-.00048
SDev	.00050	.00113	.00015	.00262	.00958	.00713	.00026
%RSD	111.19	344.58	13.681	15.515	97.447	49.498	53.416
#1	-.00098	.00094	.00123	.01955	-.01188	.02137	-.00063
#2	-.00000	-.00123	.00097	.01430	-.01821	.01470	-.00018
#3	-.00036	-.00069	.00098	.01689	.00061	.00713	-.00063
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.02000	.02000	.03000	.05000	.20000	.01000
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00189	-.00446	-.13560	.00071	.01292	-.00095	-.00430
SDev	.00030	.00260	.17504	.00099	.01770	.00000	.01678
%RSD	16.043	58.359	129.08	139.63	137.02	.00000	390.46
#1	.00172	-.00678	-.21303	.00012	.01983	-.00095	.01251
#2	.00224	-.00165	.06480	.00016	.02613	-.00095	-.02106
#3	.00171	-.00494	-.25856	.00185	-.00720	-.00095	-.00435
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	219819	--	--	--	--	--	--
SDev	1464.047	--	--	--	--	--	--
%RSD	.6660228	--	--	--	--	--	--
#1	218136	--	--	--	--	--	--
#2	220526	--	--	--	--	--	--
#3	220796	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 18:25:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba493[illegible]	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.867	1.0231	10.184	2.4978	5.0656	2.5123	49.018
SDev	.125	.0115	.030	.0029	.0040	.0138	.243
%RSD	.24968	1.1255	.29203	.11463	.07888	.54758	.49570
#1	49.732	1.0193	10.150	2.4984	5.0612	2.5282	49.292
#2	49.976	1.0140	10.206	2.4947	5.0690	2.5052	48.936
#3	49.894	1.0361	10.195	2.5003	5.0665	2.5035	48.828
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9927	5.0432	4.9164	25.214	5.0705	49.115	4.9627
SDev	.0146	.0194	.0098	.062	.0446	.098	.0100
%RSD	.29258	.38411	.19996	.24549	.87886	.20033	.20086
#1	5.0092	5.0656	4.9072	25.286	5.1214	49.212	4.9742
#2	4.9876	5.0316	4.9268	25.174	5.0386	49.118	4.9578
#3	4.9814	5.0326	4.9152	25.184	5.0515	49.015	4.9561
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1510	5.0848	50.182	.99550	52.415	4.9930	10.450
SDev	.0023	.0141	.294	.00459	.570	.0123	.096
%RSD	.04459	.27786	.58619	.46082	1.0883	.24590	.91916
#1	5.1531	5.1006	50.416	1.0008	51.864	4.9798	10.342
#2	5.1485	5.0733	50.278	.99279	53.004	5.0041	10.525
#3	5.1514	5.0805	49.852	.99292	52.378	4.9951	10.482

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3307	5.0428	5.0448	5.1926	4.9277	5.0920	5.1520
SDev	.0275	.0091	.0071	.0106	.0141	.0122	.0398
%RSD	.51577	.17992	.13990	.20439	.28567	.23902	.77274
#1	5.3435	5.0529	5.0526	5.1908	4.9151	5.0779	5.1164
#2	5.2992	5.0401	5.0427	5.1830	4.9252	5.0983	5.1950
#3	5.3495	5.0353	5.0390	5.2040	4.9429	5.0997	5.1447
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	229644	--	--	--	--	--	--
SDev	1371.348	--	--	--	--	--	--
%RSD	.5971615	--	--	--	--	--	--
#1	228086	--	--	--	--	--	--
#2	230180	--	--	--	--	--	--
#3	230667	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 18:29:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02762	.00614	.00360	.00088	.00683	.00113	.03288
SDev	.00701	.01217	.00069	.00001	.00069	.00110	.00552
%RSD	25.376	198.26	19.247	.54284	10.093	97.740	16.786
#1	.03546	.00970	.00280	.00087	.00763	-.00007	.03302
#2	.02548	-.00741	.00399	.00088	.00642	.00135	.02730
#3	.02194	.01613	.00401	.00088	.00645	.00210	.03833
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00226	.00029	.00249	.00830	.00327	.03514	.00040
SDev	.00127	.00056	.00037	.00092	.01048	.01064	.00051
%RSD	56.098	190.45	14.899	11.092	320.92	30.283	127.35
#1	.00339	-.00016	.00241	.00781	-.00880	.02791	.00070

#2	.00089	.00092	.00216	.00773	.01005	.04736	-.00019
#3	.00251	.00012	.00289	.00936	.00855	.03014	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00207	.00006	-.04302	.00127	-.13118	-.00069	.00684
SDev	.00062	.00030	.14897	.00023	.00319	.00045	.01781
%RSD	30.155	474.41	346.28	18.468	2.4292	65.695	260.51
#1	.00171	.00041	-.21297	.00141	-.12859	-.00095	-.00559
#2	.00171	-.00017	.06497	.00100	-.13474	-.00095	-.00114
#3	.00279	-.00005	.01894	.00141	-.13021	-.00017	.02724
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00126	.00173	.00181	.00373	-.00870	.00943	.00058
SDev	.00800	.00122	.00052	.00028	.01162	.00469	.00123
%RSD	634.84	70.215	28.583	7.4534	133.50	49.715	213.50
#1	-.00744	.00263	.00129	.00358	-.01873	.00458	.00192
#2	-.00411	.00035	.00233	.00356	.00403	.00978	-.00050
#3	.00777	.00223	.00182	.00405	-.01141	.01393	.00031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	227374	--	--	--	--	--	--
SDev	511.0522	--	--	--	--	--	--
%RSD	.2247631	--	--	--	--	--	--
#1	227208	--	--	--	--	--	--
#2	227947	--	--	--	--	--	--
#3	226966	--	--	--	--	--	--

Method: A Sample Name: 9611G722-006 Operator: bh
Run Time: 12/14/96 18:32:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.448	.01517	.15678	.00116	.08617	.00179	176.38
SDev	.018	.00446	.00029	.00016	.00243	.00071	.56

#1	-.00127	-.00020	.00096	.06193	-.00601	5.6696	.00942
#2	.00067	-.00021	.00234	.06486	.00941	5.6820	.00932
#3	-.00242	-.00021	-.00001	.06074	.00322	5.6538	.00974
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03765	-.00416	8.4292	-.00171	25.098	4.0866	-.00383
SDev	.00215	.00252	.4693	.00070	.244	.0165	.01597
%RSD	5.7102	60.522	5.5675	40.868	.97345	.40340	417.32
#1	.03795	-.00208	8.6796	-.00235	25.317	4.1056	.01268
#2	.03963	-.00345	8.7203	-.00182	25.141	4.0757	-.00496
#3	.03536	-.00696	7.8878	-.00097	24.834	4.0786	-.01920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00311	.01111	.00372	.00191	.00898	.00032	.00560
SDev	.00436	.00123	.00027	.00058	.00913	.00279	.00042
%RSD	140.23	11.083	7.2803	30.336	101.72	860.30	7.4900
#1	-.00736	.01147	.00341	.00203	.01936	.00098	.00512
#2	-.00333	.00974	.00387	.00242	.00539	-.00273	.00585
#3	.00136	.01212	.00389	.00128	.00219	.00272	.00584
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	230523	--	--	--	--	--	--
SDev	1586.411	--	--	--	--	--	--
%RSD	.6881791	--	--	--	--	--	--
#1	228703	--	--	--	--	--	--
#2	231253	--	--	--	--	--	--
#3	231613	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 19:10:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

155

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.731	1.0357	10.178	2.5080	5.0340	2.5129	49.343
SDev	.048	.0215	.013	.0015	.0141	.0035	.015
%RSD	.09702	2.0791	.13192	.05848	.28066	.13924	.03050
#1	49.681	1.0605	10.163	2.5096	5.0359	2.5169	49.357
#2	49.778	1.0213	10.188	2.5067	5.0471	2.5113	49.327
#3	49.734	1.0255	10.184	2.5076	5.0190	2.5104	49.344
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9822	5.0587	4.8690	25.282	5.0884	49.093	4.9703
SDev	.0017	.0056	.0043	.013	.0114	.016	.0024
%RSD	.03372	.11147	.08852	.05301	.22473	.03288	.04821
#1	4.9840	5.0630	4.8646	25.268	5.1005	49.109	4.9728
#2	4.9820	5.0523	4.8694	25.285	5.0778	49.091	4.9680
#3	4.9806	5.0606	4.8732	25.294	5.0868	49.077	4.9701
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1657	5.0971	50.112	.99330	50.738	4.9723	10.522
SDev	.0117	.0102	.091	.00120	.358	.0020	.036
%RSD	.22570	.20051	.18099	.12125	.70472	.04120	.34211
#1	5.1523	5.0990	50.190	.99271	50.358	4.9702	10.486
#2	5.1712	5.1062	50.013	.99468	50.789	4.9725	10.521
#3	5.1736	5.0860	50.133	.99250	51.068	4.9743	10.558
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4088	5.0510	5.1256	5.2149	4.9566	5.1114	5.1167
SDev	.0069	.0020	.0040	.0067	.0483	.0227	.0328
%RSD	.12750	.04012	.07812	.12839	.97450	.44382	.64039
#1	5.4150	5.0533	5.1295	5.2203	5.0018	5.1032	5.0819
#2	5.4099	5.0505	5.1215	5.2074	4.9624	5.0939	5.1470
#3	5.4014	5.0493	5.1257	5.2170	4.9057	5.1370	5.1212
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232762	--	--	--	--	--	--
SDev	647.5341	--	--	--	--	--	--
%RSD	.2781962	--	--	--	--	--	--
#1	232468	--	--	--	--	--	--
#2	233504	--	--	--	--	--	--
#3	232313	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 19:13:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02903	.00211	.00512	.00127	.00732	-.00057	.04596
SDev	.01324	.00588	.00141	.00024	.00093	.00095	.00530
%RSD	45.622	277.82	27.580	18.725	12.673	165.61	11.537
#1	.01669	.00740	.00396	.00114	.00814	-.00143	.04500
#2	.04302	-.00421	.00670	.00155	.00750	.00045	.05168
#3	.02739	.00316	.00471	.00113	.00632	-.00075	.04121
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00151	.00196	.00244	.01138	-.00874	.03460	.00128
SDev	.00137	.00072	.00129	.00237	.00463	.00561	.00101
%RSD	90.939	36.556	53.055	20.871	52.954	16.211	78.795
#1	.00168	.00251	.00238	.01067	-.01337	.03629	.00070
#2	.00280	.00221	.00376	.01403	-.00411	.03918	.00244
#3	.00006	.00115	.00117	.00944	-.00876	.02834	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00556	.00023	-.34655	-.00089	-.10499	.00239	-.00104
SDev	.00063	.00606	.47524	.00127	.01836	.00117	.01055
%RSD	11.303	2616.8	137.13	142.73	17.489	48.918	1018.5
#1	.00595	-.00622	-.11944	.00020	-.10908	.00138	-.00038
#2	.00590	.00581	-.02748	-.00228	-.08492	.00368	.00917
#3	.00484	.00110	-.89274	-.00058	-.12096	.00213	-.01190
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00280	.00292	.00264	.00424	-.00823	.01156	.00202
SDev	.00965	.00025	.00058	.00073	.01339	.00706	.00062
%RSD	345.13	8.5096	21.809	17.187	162.78	61.040	30.662
#1	.00566	.00307	.00234	.00489	-.00946	.01421	.00270
#2	-.00074	.00306	.00330	.00437	.00574	.01691	.00149
#3	-.01331	.00263	.00228	.00345	-.02096	.00356	.00188
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	230454	--	--	--	--	--	--
SDev	1154.914	--	--	--	--	--	--
%RSD	.5011478	--	--	--	--	--	--
#1	229153	--	--	--	--	--	--
#2	230849	--	--	--	--	--	--
#3	231359	--	--	--	--	--	--

Method: A Sample Name: 9611G722-016 Operator: bh
Run Time: 12/14/96 19:17:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5282	.01253	.34057	.00028	.24338	.00315	470.33
SDev	.0072	.00911	.00015	.00017	.00310	.00217	1.31
%RSD	.28455	72.685	.04517	60.994	1.2723	68.902	.27905
#1	2.5225	.00278	.34073	.00019	.23982	.00188	468.81
#2	2.5259	.02082	.34056	.00017	.24551	.00191	471.06
#3	2.5363	.01400	.34043	.00047	.24480	.00565	471.10
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00588	.00638	.01558	21.286	.02029	202.98	2.1943
SDev	.00024	.00086	.00026	.027	.01359	.24	.0072
%RSD	4.0578	13.502	1.6711	.12594	66.960	.11889	.32783
#1	.00584	.00626	.01551	21.256	.00506	202.88	2.1866
#2	.00567	.00730	.01586	21.293	.02465	202.81	2.1956
#3	.00614	.00559	.01535	21.309	.03116	203.26	2.2008

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00705	.01287	5.1080	-.00125	466.05	8.1351	.00106
SDev	.00112	.00395	.2138	.00107	2.72	.0115	.05980
%RSD	15.820	30.676	4.1858	85.672	.58326	.14165	5625.2
#1	.00594	.00831	5.2104	-.00030	469.07	8.1479	-.05891
#2	.00704	.01515	4.8623	-.00240	463.80	8.1256	.00142
#3	.00817	.01516	5.2515	-.00104	465.27	8.1316	.06068
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00256	.00927	.09130	.06405	.01808	-.02198	.04706
SDev	.00911	.00061	.00108	.00017	.01303	.00313	.00069
%RSD	355.97	6.5813	1.1820	.27176	72.047	14.249	1.4751
#1	.00402	.00861	.09254	.06425	.01421	-.02521	.04769
#2	-.01296	.00982	.09069	.06397	.03260	-.02178	.04719
#3	.00127	.00939	.09066	.06393	.00742	-.01895	.04632
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	214751	--	--	--	--	--	--
SDev	1322.768	--	--	--	--	--	--
%RSD	.6159551	--	--	--	--	--	--
#1	213224	--	--	--	--	--	--
#2	215473	--	--	--	--	--	--
#3	215555	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 19:21:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.662	1.0373	10.202	2.5112	5.0560	2.5169	49.257
SDev	.102	.0156	.026	.0016	.0148	.0035	.117
%RSD	.20596	1.4995	.25786	.06549	.29320	.13744	.23719

#1	49.559	1.0419	10.200	2.5093	5.0726	2.5137	49.323
#2	49.663	1.0199	10.177	2.5122	5.0440	2.5166	49.325
#3	49.763	1.0500	10.229	2.5121	5.0515	2.5206	49.122
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9855	5.0594	4.8465	25.312	5.0916	48.957	4.9626
SDev	.0042	.0068	.0069	.011	.0224	.035	.0092
%RSD	.08355	.13411	.14163	.04403	.43898	.07171	.18631
#1	4.9867	5.0571	4.8447	25.309	5.0757	48.933	4.9572
#2	4.9889	5.0670	4.8406	25.325	5.0820	48.997	4.9733
#3	4.9808	5.0540	4.8540	25.303	5.1172	48.941	4.9574
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1718	5.1078	50.027	.99194	50.673	5.0162	10.546
SDev	.0078	.0190	.180	.00274	.159	.0195	.094
%RSD	.15175	.37147	.35893	.27602	.31300	.38867	.88837
#1	5.1668	5.1252	49.838	.99074	50.495	5.0097	10.442
#2	5.1677	5.0876	50.195	.99001	50.724	5.0008	10.625
#3	5.1808	5.1107	50.048	.99507	50.799	5.0381	10.570
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4198	5.0418	5.1408	5.2274	4.9492	5.1420	5.1121
SDev	.0117	.0045	.0086	.0108	.0034	.0095	.0342
%RSD	.21607	.09009	.16744	.20735	.06867	.18534	.66872
#1	5.4064	5.0366	5.1309	5.2208	4.9502	5.1398	5.0903
#2	5.4279	5.0442	5.1451	5.2216	4.9454	5.1337	5.0946
#3	5.4251	5.0447	5.1465	5.2399	4.9520	5.1524	5.1515
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	230419	--	--	--	--	--	--
SDev	682.6758	--	--	--	--	--	--

%RSD	.2962754	--	--	--	--	--	--
#1	229887	--	--	--	--	--	--
#2	231189	--	--	--	--	--	--
#3	230182	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 19:25:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00305	-.00250	.00363	.00099	.00705	.00007	.02680
SDev	.00450	.01223	.00046	.00015	.00088	.00096	.00603
%RSD	147.39	490.05	12.577	14.775	12.486	1320.2	22.495
#1	-.00109	-.00736	.00391	.00114	.00687	-.00012	.02883
#2	.00784	.01142	.00311	.00085	.00627	.00112	.02002
#3	.00240	-.01154	.00389	.00098	.00801	-.00078	.03156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00176	.00264	.00044	-.00871	.02071	.00070
SDev	.00112	.00110	.00055	.00190	.00532	.00494	.00000
%RSD	257.60	62.617	20.734	431.31	61.164	23.850	.07974
#1	.00172	.00299	.00327	.00263	-.00559	.02505	.00070
#2	-.00021	.00141	.00232	-.00066	-.01485	.02175	.00070
#3	-.00021	.00088	.00232	-.00066	-.00567	.01534	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00498	-.00067	-.28416	.00016	-.10994	.00033	.00970
SDev	.00109	.00564	.24924	.00104	.01005	.00044	.01686
%RSD	21.938	844.77	87.711	651.19	9.1425	136.02	173.74
#1	.00534	.00581	-.16374	.00112	-.10825	.00058	.02695
#2	.00585	-.00442	-.57074	.00030	-.12073	-.00019	-.00673
#3	.00376	-.00339	-.11800	-.00095	-.10084	.00058	.00889
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00436	.00195	.00226	.00379	-.00272	.00677	.00108

SDev	.00445	.00142	.00002	.00087	.00605	.00197	.00079
%RSD	102.04	72.537	.75298	22.851	222.18	29.104	73.039
#1	-.00075	.00060	.00224	.00478	-.00429	.00449	.00108
#2	-.00300	.00183	.00227	.00341	.00396	.00791	.00029
#3	-.00933	.00342	.00227	.00318	-.00784	.00790	.00187
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232496	--	--	--	--	--	--
SDev	454.0840	--	--	--	--	--	--
%RSD	.1953081	--	--	--	--	--	--
#1	231973	--	--	--	--	--	--
#2	232730	--	--	--	--	--	--
#3	232786	--	--	--	--	--	--

Method: A Sample Name: CRI Operator: bh
Run Time: 12/14/96 19:28:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37896	.12632	.42041	.01056	.21522	.00998	2.0248
SDev	.01393	.01772	.00134	.00015	.00145	.00074	.0014
%RSD	3.6752	14.027	.31771	1.4369	.67367	7.4508	.06942
#1	.36349	.11421	.42182	.01038	.21680	.01058	2.0234
#2	.39050	.14666	.42026	.01067	.21491	.00915	2.0262
#3	.38289	.11809	.41916	.01062	.21395	.01020	2.0250
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02068	.10538	.05067	.20717	.10410	1.9332	.03015
SDev	.00162	.00112	.00064	.00033	.00203	.0281	.00055
%RSD	7.8491	1.0675	1.2627	.16054	1.9507	1.4550	1.8245
#1	.02255	.10593	.05099	.20681	.10367	1.9635	.02987
#2	.01983	.10612	.05109	.20723	.10233	1.9281	.03078
#3	.01965	.10409	.04994	.20747	.10632	1.9079	.02979
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Cd, Sb, As, Se
Not reported as
FORM - 1
Have as initial and
final.
Not needed
JW 1/13/97

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Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21010	.08355	1.8371	.02096	1.9605	.20471	.43221
SDev	.00228	.00818	.1799	.00082	.0405	.00046	.02402
%RSD	1.0829	9.7955	9.7941	3.9063	2.0681	.22599	5.5570
#1	.20774	.07562	2.0317	.02179	1.9924	.20476	.44263
#2	.21228	.09196	1.6767	.02015	1.9741	.20514	.44926
#3	.21029	.08307	1.8030	.02093	1.9148	.20422	.40474
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22309	.10333	.04608	.20989	.18998	.21577	.20446
SDev	.00142	.00053	.00131	.00093	.01312	.00393	.00263
%RSD	.63762	.50991	2.8537	.44519	6.9080	1.8234	1.2871
#1	.22398	.10286	.04492	.21069	.17497	.21415	.20685
#2	.22384	.10390	.04751	.20886	.19572	.22025	.20489
#3	.22145	.10322	.04580	.21012	.19926	.21289	.20164
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000	.20000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	235433	--	--	--	--	--	--
SDev	529.7871	--	--	--	--	--	--
%RSD	.2250270	--	--	--	--	--	--
#1	235370	--	--	--	--	--	--
#2	234937	--	--	--	--	--	--
#3	235991	--	--	--	--	--	--

Method: A Sample Name: ISA Operator: bh
Run Time: 12/14/96 19:32:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	558.28	.03233	.00207	.00032	-.03074	-.00120	487.14
SDev	1.69	.00801	.00049	.00000	.00514	.00145	2.45
%RSD	.30276	24.786	23.832	1.2129	16.711	121.07	.50230
#1	557.69	.02464	.00178	.00032	-.02481	.00033	484.36
#2	556.97	.04063	.00264	.00031	-.03346	-.00137	488.13
#3	560.19	.03172	.00179	.00032	-.03394	-.00256	488.95
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass

Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00263	-.00537	.01050	197.76	.02552	530.81	.00777
SDev	.00115	.00068	.00115	.27	.01798	.43	.00009
%RSD	43.487	12.763	10.981	.13788	70.455	.08090	1.1464
#1	.00270	-.00458	.00970	197.45	.02979	531.02	.00772
#2	.00375	-.00579	.01182	197.95	.04097	530.31	.00787
#3	.00146	-.00574	.00997	197.88	.00579	531.09	.00772
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00548	.01023	-.49409	.00442	-.25592	.00917	-.16065
SDev	.00063	.00184	.29002	.00123	.02580	.00003	.07921
%RSD	11.468	17.978	58.697	27.929	10.083	.31293	49.307
#1	.00507	.01201	-.32693	.00375	-.26363	.00917	-.17494
#2	.00518	.00834	-.32637	.00584	-.22714	.00915	-.23175
#3	.00621	.01035	-.82897	.00366	-.27699	.00921	-.07527
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03871	.00772	.00901	.00302	-.13390	-.37506	.00066
SDev	.00978	.00082	.00074	.00054	.08518	.04388	.00050
%RSD	25.254	10.582	8.2219	17.817	63.618	11.700	75.657
#1	-.02776	.00685	.00816	.00267	-.03945	-.40396	.00037
#2	-.04182	.00847	.00951	.00364	-.15733	-.32457	.00124
#3	-.04656	.00784	.00936	.00275	-.20492	-.39667	.00037
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	210982	--	--	--	--	--	--
SDev	597.6989	--	--	--	--	--	--
%RSD	.2832938	--	--	--	--	--	--
#1	211112	--	--	--	--	--	--
#2	211504	--	--	--	--	--	--
#3	210330	--	--	--	--	--	--

Method: A Sample Name: ISB Operator: bh
Run Time: 12/14/96 19:36:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	561.61	.03121	.53040	.51763	-.03099	1.0717	496.79
SDev	1.46	.01226	.00230	.00032	.00456	.0001	1.13
%RSD	.26057	39.273	.43350	.06085	14.728	.01144	.22660
#1	560.18	.03171	.52941	.51787	-.03471	1.0718	497.57
#2	561.55	.04321	.52876	.51727	-.02590	1.0716	497.29
#3	563.10	.01871	.53303	.51774	-.03238	1.0717	495.50
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	20.000		20.000	20.000		20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50525	.50165	.53354	199.78	1.0732	533.69	.50791
SDev	.00226	.00042	.00140	.17	.0125	.43	.00082
%RSD	.44710	.08376	.26230	.08497	1.1684	.08112	.16057
#1	.50652	.50169	.53193	199.97	1.0602	533.75	.50796
#2	.50659	.50205	.53444	199.67	1.0852	534.09	.50870
#3	.50264	.50121	.53425	199.69	1.0742	533.23	.50707
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00494	1.0166	-.43112	1.0992	-.26957	.00758	-.10210
SDev	.00351	.0089	.13274	.0008	.00859	.00003	.05902
%RSD	71.082	.87511	30.790	.07731	3.1847	.38235	57.810
#1	.00897	1.0135	-.33152	1.0994	-.25990	.00761	-.13180
#2	.00321	1.0266	-.38001	1.0999	-.27629	.00756	-.03412
#3	.00262	1.0096	-.58182	1.0983	-.27252	.00756	-.14037
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		20.000		20.000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04518	.51492	1.0870	.00319	5.1224	5.0627	.00082
SDev	.01880	.00113	.0031	.00049	.0281	.0303	.00044
%RSD	41.606	.21935	.28641	15.220	.54792	.59854	54.102
#1	-.05492	.51451	1.0891	.00328	5.1477	5.0297	.00127
#2	-.05711	.51405	1.0834	.00363	5.1272	5.0689	.00082

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#3	-.02351	.51620	1.0885	.00267	5.0922	5.0893	.00038
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value		.50000	1.0000		5.0000	5.0000	
Range		20.000	20.000		20.000	20.000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	208734	--	--	--	--	--	--
SDev	707.7869	--	--	--	--	--	--
%RSD	.3390861	--	--	--	--	--	--
#1	207920	--	--	--	--	--	--
#2	209207	--	--	--	--	--	--
#3	209074	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 19:39:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.612	1.0486	10.308	2.5117	5.0864	2.5106	48.394
SDev	.155	.0134	.036	.0020	.0377	.0036	.043
%RSD	.30574	1.2817	.34561	.07805	.74188	.14464	.08792
#1	50.538	1.0553	10.332	2.5138	5.1102	2.5124	48.356
#2	50.790	1.0574	10.325	2.5100	5.1061	2.5130	48.387
#3	50.509	1.0332	10.267	2.5113	5.0429	2.5064	48.440
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9676	5.0330	4.8845	25.362	5.0373	49.130	4.9388
SDev	.0161	.0100	.0163	.056	.0120	.141	.0140
%RSD	.32462	.19919	.33442	.21954	.23825	.28717	.28334
#1	4.9837	5.0398	4.8946	25.298	5.0494	49.065	4.9522
#2	4.9676	5.0377	4.8934	25.393	5.0372	49.292	4.9397
#3	4.9515	5.0215	4.8657	25.395	5.0254	49.033	4.9243
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1685	5.0752	50.458	.98822	51.592	5.0299	10.636
SDev	.0076	.0203	.895	.00065	.819	.0148	.102
%RSD	.14732	.40058	1.7730	.06550	1.5881	.29441	.96155

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#1	5.1649	5.0519	50.896	.98863	52.066	5.0432	10.715
#2	5.1772	5.0843	51.049	.98747	52.063	5.0325	10.673
#3	5.1633	5.0893	49.429	.98856	50.646	5.0140	10.521
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3951	5.0365	5.1240	5.2365	4.9207	5.1504	5.2522
SDev	.0139	.0090	.0081	.0070	.0265	.0182	.0930
%RSD	.25744	.17869	.15725	.13436	.53753	.35425	1.7716
#1	5.3987	5.0469	5.1275	5.2441	4.9463	5.1663	5.2750
#2	5.4068	5.0317	5.1298	5.2303	4.8934	5.1543	5.3317
#3	5.3797	5.0309	5.1148	5.2351	4.9224	5.1305	5.1498
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225674	--	--	--	--	--	--
SDev	670.1928	--	--	--	--	--	--
%RSD	.2969734	--	--	--	--	--	--
#1	224901	--	--	--	--	--	--
#2	226086	--	--	--	--	--	--
#3	226036	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 19:43:41
Comment:
Mode: CONC Corr. Factor: 1

NR

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13956	-.00785	.00380	.00103	.00635	-.00035	Q.15408
SDev	.08139	.01340	.00047	.00014	.00271	.00104	.08485
%RSD	58.320	170.79	12.442	13.993	42.706	299.68	55.066
#1	.06922	-.02268	.00406	.00103	.00353	-.00092	.08010
#2	Q.22871	.00339	.00408	.00118	.00658	.00085	Q.24670
#3	.12076	-.00425	.00325	.00089	.00894	-.00097	Q.13544
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

NR

Avge	.00007	.00241	.00247	Q.06053	.00495	.16261	.00070
SDev	.00055	.00167	.00047	.03511	.00189	.07960	.00000
%RSD	766.06	69.262	19.133	58.006	38.111	48.951	.56381
#1	-.00050	.00205	.00294	Q.03101	.00713	.09014	.00070
#2	.00013	.00095	.00200	Q.09936	.00376	Q.24780	.00071
#3	.00058	.00423	.00247	Q.05121	.00397	.14988	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00574	-.00735	.09773	.00148	-.19373	.00011	-.00193
SDev	.00064	.00474	.14326	.00181	.00715	.00121	.02734
%RSD	11.141	64.521	146.59	121.87	3.6885	1131.0	1413.8
#1	.00500	-.01268	.25396	.00091	-.18879	.00143	-.03319
#2	.00612	-.00363	.06671	.00003	Q-.20192	-.00016	.01754
#3	.00609	-.00573	-.02748	.00351	-.19047	-.00095	.00985
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00201	.00227	.00277	.00414	.00801	.01252	.00196
SDev	.00495	.00042	.00030	.00046	.01272	.00642	.00082
%RSD	246.40	18.694	10.850	11.156	158.70	51.233	41.736
#1	-.00215	.00184	.00242	.00460	-.00318	.01890	.00277
#2	.00069	.00269	.00295	.00416	.02184	.01260	.00196
#3	.00749	.00227	.00294	.00367	.00538	.00607	.00114
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224245	--	--	--	--	--	--
SDev	466.3489	--	--	--	--	--	--
%RSD	.2079643	--	--	--	--	--	--
#1	224624	--	--	--	--	--	--
#2	223724	--	--	--	--	--	--
#3	224386	--	--	--	--	--	--

Method: A Standard: S0

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

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Avge	-.00032	.00003	.00001	.00001	.00003	.00066	.00034
SDev	.00018	.00001	.00000	.00000	.00003	.00002	.00018
%RSD	55.872	31.489	.36137	.36137	108.79	2.9810	52.914
#1	-.00046	.00003	.00001	.00001	.00007	.00064	.00027
#2	-.00040	.00004	.00001	.00001	.00001	.00066	.00020
#3	-.00012	.00003	.00001	.00001	.00001	.00068	.00054
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00003	-.00002	.00004	.00030	.00000	.00007	-.00001
SDev	.00005	.00002	.00001	.00011	.00005	.00007	.00000
%RSD	152.74	86.599	24.654	35.734	3370.1	100.35	.36137
#1	-.00002	-.00001	.00003	.00026	.00005	.00004	-.00001
#2	.00008	-.00004	.00004	.00023	-.00005	.00003	-.00001
#3	.00004	-.00001	.00004	.00043	.00001	.00016	-.00001
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.00001	-.00024	-.00004	-.00009	-.00625	.00000	.00001
SDev	.00001	.00010	.00005	.00001	.00012	.00000	.00001
%RSD	100.12	40.743	128.54	5.5944	1.8720	.00000	88.153
#1	.00000	-.00034	-.00001	-.00009	-.00635	.00000	.00001
#2	.00002	-.00025	-.00011	-.00010	-.00627	.00000	.00003
#3	.00001	-.00014	-.00001	-.00009	-.00612	.00000	.00000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	-.00013	-.00002	.00002	.00009	.00090	-.00017	-.00000
SDev	.00005	.00002	.00001	.00000	.00006	.00002	.00001
%RSD	41.506	100.12	34.293	2.3973	6.9521	14.236	173.21
#1	-.00014	-.00004	.00002	.00009	.00084	-.00015	-.00001
#2	-.00007	-.00002	.00002	.00009	.00088	-.00019	.00000
#3	-.00018	.00000	.00003	.00010	.00097	-.00018	.00000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	227621	--	--	--	--	--	--
SDev	822.5268	--	--	--	--	--	--
%RSD	.3613575	--	--	--	--	--	--
#1	226795	--	--	--	--	--	--
#2	227629	--	--	--	--	--	--
#3	228440	--	--	--	--	--	--

Method: A Standard: S1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.29160	.00170	.04443	.03163	.01508	.03081	.26003
SDev	.00069	.00004	.00009	.00004	.00005	.00007	.00072
%RSD	.23518	2.5631	.19557	.14044	.34889	.22904	.27604
#1	.29090	.00165	.04440	.03158	.01503	.03083	.25948

#2	.29163	.00171	.04436	.03166	.01508	.03073	.26084
#3	.29227	.00173	.04453	.03164	.01513	.03086	.25977
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.09789	.03341	.03532	.17649	.00558	.07796	.01972
SDev	.00034	.00005	.00001	.00026	.00004	.00021	.00005
%RSD	.34738	.16187	.03446	.14692	.78961	.27156	.24340
#1	.09775	.03337	.03534	.17632	.00561	.07777	.01969
#2	.09828	.03347	.03532	.17679	.00559	.07819	.01977
#3	.09764	.03338	.03531	.17636	.00553	.07792	.01970
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.01692	.06002	.00191	.00386	.07588	.01119	.01220
SDev	.00000	.00052	.00001	.00003	.00060	.00002	.00005
%RSD	.00846	.87279	.73746	.64050	.78855	.21531	.37972
#1	.01692	.06036	.00192	.00386	.07639	.01118	.01222
#2	.01692	.06029	.00192	.00388	.07522	.01117	.01215
#3	.01692	.05942	.00190	.00383	.07604	.01121	.01224
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.02734	.04172	.03435	.03934	.02149	.01009	.02193
SDev	.00014	.00003	.00004	.00004	.00010	.00008	.00015
%RSD	.52358	.06788	.12537	.09700	.44581	.83603	.67182
#1	.02736	.04169	.03430	.03932	.02138	.01004	.02191
#2	.02719	.04174	.03438	.03939	.02157	.01004	.02180
#3	.02748	.04174	.03436	.03932	.02150	.01019	.02209

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	231679	--	--	--	--	--	--
SDev	1283.871	--	--	--	--	--	--
%RSD	.5541593	--	--	--	--	--	--
#1	230357	--	--	--	--	--	--
#2	231759	--	--	--	--	--	--
#3	232921	--	--	--	--	--	--

Method: A Standard: S2

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.73665	.00427	.11092	.07901	.03781	.07580	.64764
SDev	.00125	.00005	.00034	.00006	.00007	.00031	.00253
%RSD	.16963	1.1021	.30416	.08216	.17838	.40644	.39021
#1	.73679	.00427	.11131	.07895	.03786	.07546	.64632
#2	.73782	.00422	.11072	.07908	.03784	.07605	.65055
#3	.73533	.00431	.11073	.07899	.03774	.07589	.64605
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.24006	.08211	.08839	.43370	.01380	.19657	.04867

SDev	.00069	.00025	.00022	.00077	.00006	.00023	.00011
%RSD	.28831	.30216	.24712	.17731	.39765	.11916	.22040
#1	.23930	.08183	.08860	.43284	.01378	.19639	.04855
#2	.24065	.08231	.08839	.43433	.01386	.19684	.04872
#3	.24023	.08218	.08817	.43393	.01376	.19649	.04875
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.04179	.14714	.00474	.00974	.20272	.02792	.02999
SDev	.00025	.00054	.00003	.00002	.00203	.00007	.00008
%RSD	.60583	.36673	.60286	.18087	1.0022	.24331	.27769
#1	.04150	.14651	.00472	.00972	.20456	.02798	.02996
#2	.04192	.14746	.00477	.00976	.20305	.02792	.03009
#3	.04195	.14744	.00474	.00973	.20054	.02785	.02994
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.06755	.10401	.08549	.09804	.05249	.02535	.05529
SDev	.00038	.00010	.00030	.00017	.00005	.00015	.00034
%RSD	.55903	.09485	.34463	.17072	.09362	.59079	.62441
#1	.06712	.10392	.08516	.09786	.05244	.02536	.05549
#2	.06772	.10411	.08557	.09818	.05249	.02520	.05550
#3	.06782	.10400	.08573	.09809	.05254	.02550	.05490
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	229830	--	--	--	--	--	--
SDev	316.5001	--	--	--	--	--	--
%RSD	.1377107	--	--	--	--	--	--
#1	230185	--	--	--	--	--	--
#2	229578	--	--	--	--	--	--
#3	229726	--	--	--	--	--	--

Method: A Standard: S3

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	1.5125	.00852	.22271	.15842	.07682	.15257	1.2839
SDev	.0029	.00006	.00010	.00014	.00020	.00038	.0053
%RSD	.19353	.66487	.04303	.08953	.26126	.24671	.41657
#1	1.5091	.00847	.22268	.15827	.07671	.15254	1.2875
#2	1.5142	.00858	.22282	.15856	.07706	.15221	1.2865
#3	1.5142	.00849	.22264	.15843	.07670	.15296	1.2778
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.47696	.16319	.18087	.86192	.02755	.40113	.09694
SDev	.00024	.00017	.00013	.00041	.00005	.00020	.00006
%RSD	.05140	.10367	.07194	.04725	.17916	.05020	.05831
#1	.47668	.16322	.18078	.86204	.02758	.40095	.09688
#2	.47710	.16334	.18102	.86226	.02757	.40135	.09695
#3	.47710	.16301	.18082	.86147	.02749	.40109	.09699

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.08337	.29315	.00973	.01980	.41016	.05619	.05909
SDev	.00015	.00060	.00006	.00005	.00129	.00005	.00006
%RSD	.18645	.20360	.58359	.22839	.31470	.09302	.10402
#1	.08321	.29319	.00975	.01985	.41101	.05615	.05908
#2	.08352	.29372	.00977	.01979	.41078	.05625	.05915
#3	.08338	.29253	.00966	.01976	.40867	.05618	.05903

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.13497	.20965	.17098	.19895	.10527	.05132	.11332
SDev	.00055	.00015	.00024	.00026	.00019	.00014	.00010
%RSD	.40851	.07157	.13802	.13324	.17682	.27218	.09051
#1	.13497	.20978	.17073	.19865	.10547	.05124	.11343
#2	.13552	.20969	.17119	.19914	.10523	.05148	.11330
#3	.13441	.20948	.17104	.19907	.10510	.05124	.11322

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222083	--	--	--	--	--	--
SDev	618.8129	--	--	--	--	--	--
%RSD	.2786399	--	--	--	--	--	--
#1	221370	--	--	--	--	--	--
#2	222476	--	--	--	--	--	--
#3	222404	--	--	--	--	--	--

Method: A Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	67.4470	.024497	12/14/96 07:58:15
Sb2068	206.838	Multiple	Standards	241.126	-.007734	12/14/96 07:58:15
Ba4934	493.409	Multiple	Standards	90.0069	-.000761	12/14/96 07:58:15
Be3130	313.042	Multiple	Standards	31.7933	-.000273	12/14/96 07:58:15
B-2496	249.678	Multiple	Standards	131.778	-.003722	12/14/96 07:58:15
Cd2288	228.802	Multiple	Standards	33.5440	-.022179	12/14/96 07:58:15
Ca3179	317.933	Multiple	Standards	77.3874	-.026885	12/14/96 07:58:15
Cr2677	267.716	Multiple	Standards	20.7102	-.000917	12/14/96 07:58:15
Co2286	228.616	Multiple	Standards	60.9180	.000865	12/14/96 07:58:15
Cu3247	324.754	Multiple	Standards	56.1554	-.001805	12/14/96 07:58:15
Fe2599	259.940	Multiple	Standards	57.4061	-.018426	12/14/96 07:58:15
Pb2203	220.353	Multiple	Standards	353.985	-.000637	12/14/96 07:58:15
Mg2790	279.079	Multiple	Standards	253.140	-.016305	12/14/96 07:58:15
Mn2576	257.610	Multiple	Standards	102.314	.000749	12/14/96 07:58:15
Mo2020	202.030	Multiple	Standards	119.402	-.001175	12/14/96 07:58:15
Ni2316	231.604	Multiple	Standards	33.6976	.008012	12/14/96 07:58:15
K-7664	766.491	Multiple	Standards	10302.1	.436803	12/14/96 07:58:15
Ag3280	328.068	Multiple	Standards	98.5484	.008955	12/14/96 07:58:15
Na5889	588.995	Multiple	Standards	240.960	1.50678	12/14/96 07:58:15
Sr4215	421.552	Multiple	Standards	178.609	.000025	12/14/96 07:58:15

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Tl1908	190.864	Multiple	Standards	323.090	-.004747	12/14/96 07:58:15
Sn1899	189.989	Multiple	Standards	73.5819	.009330	12/14/96 07:58:15
V-2924	292.402	Multiple	Standards	47.4331	.000857	12/14/96 07:58:15
Zn2138	213.856	Multiple	Standards	58.5776	-.001323	12/14/96 07:58:15
Ti3349	334.941	Multiple	Standards	50.7603	-.004673	12/14/96 07:58:15
As1936	193.696	Multiple	Standards	96.6157	-.086478	12/14/96 07:58:15
Se1960	196.026	Multiple	Standards	189.592	.032760	12/14/96 07:58:15
Li6707	670.784	Multiple	Standards	89.9198	.000635	12/14/96 07:58:15

Method: A

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	.002641	-.002641
		S1	20.0000	19.6920	.308002
		S2	50.0000	49.7093	.290741
		S3	100.000	102.038	-2.03815

CorCoef: 0.99990

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	S0	.000000	.000034	-.000034
		S1	.400000	.401599	-.001599
		S2	1.00000	1.02113	-.021127
		S3	2.00000	2.04575	-.045752

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	S0	.000000	.000030	-.000030
		S1	4.00000	3.99803	.001970
		S2	10.0000	9.98250	.017505
		S3	20.0000	20.0449	-.044859

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	S0	.000000	.000006	-.000006
		S1	1.00000	1.00525	-.005253
		S2	2.50000	2.51165	-.011648
		S3	5.00000	5.03645	-.036449

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B-2496	249.678	S0	.000000	.000146	-.000146
		S1	2.00000	1.98344	.016560
		S2	5.00000	4.97928	.020725
		S3	10.0000	10.1200	-.119990

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2288	228.802	S0	.000000	.000023	-.000023
		S1	1.00000	1.01116	-.011160
		S2	2.50000	2.52045	-.020450
		S3	5.00000	5.09559	-.095585

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	S0	.000000	-.000844	.000844

S1	20.0000	20.0963	-.096281
S2	50.0000	50.0923	-.092331
S3	100.000	99.3339	.666054

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	S0	.000000	-.000221	.000221
		S1	2.00000	2.02643	-.026434
		S2	5.00000	4.97080	.029199
		S3	10.0000	9.87704	.122965

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	S0	.000000	-.000205	.000205
		S1	2.00000	2.03603	-.036028
		S2	5.00000	5.00268	-.002681
		S3	10.0000	9.94222	.057779

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.754	S0	.000000	.000168	-.000168
		S1	2.00000	1.98179	.018207
		S2	5.00000	4.96161	.038391
		S3	10.0000	10.1552	-.155218

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2599	259.940	S0	.000000	-.000952	.000952
		S1	10.0000	10.1131	-.113082
		S2	25.0000	24.8787	.121305
		S3	50.0000	49.4613	.538704

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	S0	.000000	-.000102	.000102
		S1	2.00000	1.97297	.027034
		S2	5.00000	4.88490	.115099
		S3	10.0000	9.75049	.249506

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.079	S0	.000000	.002193	-.002193
		S1	20.0000	19.7188	.281248
		S2	50.0000	49.7447	.255348
		S3	100.000	101.526	-1.52576

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	-.000150	.000150
		S1	2.00000	2.01835	-.018351
		S2	5.00000	4.98044	.019555
		S3	10.0000	9.91898	.081024

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000127	.000127

S1	2.00000	2.01927	-.019269
S2	5.00000	4.98852	.011483
S3	10.0000	9.95344	.046559

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000237	.000237
		S1	2.00000	2.03064	-.030643
		S2	5.00000	4.96613	.033870
		S3	10.0000	9.88631	.113690

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K-7664	766.491	S0	.000000	-.000645	.000645
		S1	20.0000	20.1510	-.151022
		S2	50.0000	49.2964	.703587
		S3	100.000	100.652	-.652054

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	.000007	-.000007
		S1	.400000	.389236	.010764
		S2	1.00000	.968585	.031415
		S3	2.00000	1.96011	.039891

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	.001388	-.001388
		S1	20.0000	19.7912	.208792
		S2	50.0000	50.3531	-.353123
		S3	100.000	100.338	-.337723

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	.000025	-.000025
		S1	2.00000	1.99827	.001729
		S2	5.00000	4.98612	.013883
		S3	10.0000	10.0364	-.036414

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	S0	.000000	-.000487	.000487
		S1	4.00000	3.93813	.061868
		S2	10.0000	9.68625	.313752
		S3	20.0000	19.0868	.913223

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	-.000150	.000150
		S1	2.00000	2.02122	-.021223
		S2	5.00000	4.97992	.020081
		S3	10.0000	9.94037	.059631

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V-2924	292.402	S0	.000000	.000022	-.000022

	S1	2.00000	1.97997	.020029
	S2	5.00000	4.93433	.065672
	S3	10.0000	9.94520	.054803

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	-.000037	.000037
		S1	2.00000	2.01068	-.010682
		S2	5.00000	5.00620	-.006199
		S3	10.0000	10.0146	-.014563

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	.000084	-.000084
		S1	2.00000	1.99233	.007672
		S2	5.00000	4.97199	.028013
		S3	10.0000	10.0943	-.094265

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1936	193.696	S0	.000000	.000097	-.000097
		S1	2.00000	1.98945	.010555
		S2	5.00000	4.98470	.015295
		S3	10.0000	10.0839	-.083906

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	S0	.000000	.000006	-.000006
		S1	2.00000	1.94626	.053742
		S2	5.00000	4.83958	.160421
		S3	10.0000	9.76188	.238116

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li6707	670.784	S0	.000000	.000239	-.000239
		S1	2.00000	1.97291	.027086
		S2	5.00000	4.97270	.027297
		S3	10.0000	10.1900	-.190028

CorCoef: 0.99991

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 20:06:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.575	1.0047	10.178	2.4882	4.9508	2.4809	49.648
SDev	.318	.0049	.036	.0031	.0092	.0081	.201
%RSD	.62827	.48812	.35060	.12546	.18647	.32572	.40565
#1	50.211	.99946	10.137	2.4847	4.9421	2.4716	49.845
#2	50.718	1.0092	10.192	2.4892	4.9499	2.4856	49.442
#3	50.796	1.0055	10.204	2.4908	4.9605	2.4857	49.657
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0177	4.9861	5.0454	24.931	5.0041	49.824	4.9932
SDev	.0121	.0073	.0252	.030	.0107	.275	.0093
%RSD	.24205	.14618	.49993	.12101	.21438	.55102	.18683
#1	5.0049	4.9791	5.0170	24.897	4.9995	49.507	4.9826
#2	5.0192	4.9854	5.0542	24.951	5.0163	49.963	4.9998
#3	5.0290	4.9937	5.0651	24.946	4.9964	50.001	4.9973
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0605	5.0331	51.038	1.0006	51.243	5.0709	10.050
SDev	.0138	.0125	1.286	.0021	1.310	.0114	.064
%RSD	.27244	.24904	2.5189	.21457	2.5557	.22474	.63362
#1	5.0446	5.0306	49.630	.99850	49.734	5.0593	9.9767
#2	5.0677	5.0220	51.333	1.0005	51.911	5.0714	10.092
#3	5.0691	5.0467	52.150	1.0028	52.084	5.0821	10.080
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1948	5.0489	5.0159	5.0942	5.0539	5.0466	5.2577
SDev	.0069	.0078	.0112	.0049	.0100	.0135	.1489
%RSD	.13203	.15396	.22356	.09578	.19706	.26759	2.8314
#1	5.1929	5.0405	5.0037	5.0933	5.0429	5.0324	5.0869
#2	5.1891	5.0558	5.0185	5.0995	5.0623	5.0480	5.3263
#3	5.2024	5.0504	5.0257	5.0898	5.0565	5.0593	5.3598
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228897	--	--	--	--	--	--
SDev	747.8010	--	--	--	--	--	--
%RSD	.3266981	--	--	--	--	--	--
#1	228059	--	--	--	--	--	--
#2	229134	--	--	--	--	--	--
#3	229497	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 20:10:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07067	.00659	.00995	.00265	.00608	.00283	.07052
SDev	.01220	.01223	.00256	.00067	.00177	.00116	.01206
%RSD	17.257	185.53	25.685	25.302	29.087	41.165	17.106
#1	.06557	.00299	.00891	.00242	.00454	.00201	.06667
#2	.08459	-.00343	.01286	.00340	.00801	.00416	.08404
#3	.06186	.02021	.00808	.00212	.00569	.00231	.06086
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00473	.00637	.00505	.02669	.00634	.07192	.00380
SDev	.00048	.00040	.00077	.00563	.00329	.01887	.00139
%RSD	10.083	6.2720	15.316	21.101	51.851	26.245	36.559
#1	.00522	.00630	.00574	.02580	.00901	.08578	.00350
#2	.00472	.00680	.00520	Q.03272	.00735	.07955	.00531
#3	.00426	.00601	.00421	.02156	.00267	.05042	.00258
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00611	.00239	.19134	.00195	.03377	.00427	.02902
SDev	.00156	.00439	.10699	.00002	.01937	.00183	.01329
%RSD	25.516	183.53	55.916	1.0898	57.355	42.774	45.809
#1	.00791	-.00073	.06780	.00193	.03092	.00322	.01517
#2	.00520	.00742	.25336	.00197	.05442	.00639	.04167
#3	.00522	.00050	.25285	.00194	.01599	.00321	.03020
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00584	.00501	.00564	.00635	.00609	.01247	.00518
SDev	.00660	.00088	.00129	.00094	.00709	.00656	.00166
%RSD	113.00	17.572	22.787	14.731	116.41	52.610	32.019
#1	.00538	.00476	.00550	.00669	.01262	.01340	.00466
#2	-.00051	.00428	.00700	.00708	-.00146	.00549	.00704

#3	.01267	.00599	.00444	.00530	.00712	.01851	.00385
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224004	--	--	--	--	--	--
SDev	645.6952	--	--	--	--	--	--
%RSD	.2882521	--	--	--	--	--	--
#1	223349	--	--	--	--	--	--
#2	224640	--	--	--	--	--	--
#3	224022	--	--	--	--	--	--

Method: A Sample Name: 96GI658-MB1 Operator: bh
Run Time: 12/14/96 20:14:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00428	.00025	.00002	.00001	.01915	.00016	.02875
SDev	.00686	.00393	.00001	.00001	.00115	.00160	.00243
%RSD	160.19	1600.6	43.170	89.475	6.0241	990.22	8.4402
#1	-.00897	-.00142	.00003	.00000	.01944	-.00105	.03092
#2	.00359	-.00258	.00001	.00001	.02012	-.00045	.02613
#3	-.00746	.00474	.00002	.00000	.01787	.00198	.02920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.10000	.05000	.00500	.05000	.00500	.10000
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.00500	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	.00113	.00064	-.00249	.00815	-.00121	-.00073
SDev	.00043	.00146	.00086	.00066	.00766	.02065	.00052
%RSD	317.81	129.39	134.69	26.432	94.022	1700.4	70.767
#1	.00035	.00087	.00116	-.00179	.01341	.01149	-.00105
#2	-.00029	-.00018	-.00035	-.00309	-.00064	-.02504	-.00102
#3	-.00047	.00271	.00110	-.00258	.01169	.00991	-.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.02000	.02000	.03000	.05000	.20000	.01000
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00083	-.00437	.19770	.00040	.10538	.00157	.01439
SDev	.00060	.00169	.17054	.00085	.03762	.00002	.01485
%RSD	71.568	38.552	86.262	211.22	35.702	1.0866	103.18

#1	.94133	.45985	.45482	.93118	1.8837	1.7985	.48870
#2	.91634	.45549	.45187	.92674	1.8298	1.7789	.48714
#3	.92929	.45703	.44922	.92810	1.8554	1.7896	.48306
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222245	--	--	--	--	--	--
SDev	1841.778	--	--	--	--	--	--
%RSD	.8287140	--	--	--	--	--	--
#1	220165	--	--	--	--	--	--
#2	222903	--	--	--	--	--	--
#3	223668	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 20:51:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.496	1.0201	10.209	2.4854	4.9375	2.4939	49.974
SDev	.067	.0140	.015	.0047	.0106	.0031	.269
%RSD	.13333	1.3683	.14319	.19002	.21416	.12231	.53890
#1	50.428	1.0311	10.223	2.4819	4.9490	2.4916	49.818
#2	50.496	1.0044	10.208	2.4834	4.9356	2.4974	49.818
#3	50.563	1.0249	10.194	2.4907	4.9281	2.4928	50.285
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0201	4.9894	5.0699	24.999	4.9773	49.751	4.9576
SDev	.0106	.0085	.0101	.052	.0158	.044	.0068
%RSD	.21074	.17039	.19900	.20989	.31815	.08822	.13747
#1	5.0082	4.9825	5.0814	24.942	4.9601	49.729	4.9509
#2	5.0238	4.9868	5.0625	25.012	4.9804	49.722	4.9574
#3	5.0284	4.9989	5.0657	25.044	4.9913	49.801	4.9645
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0904	5.0092	49.854	.99872	48.638	5.0594	10.187

SDev	.0151	.0091	.192	.00223	.193	.0091	.036
%RSD	.29655	.18137	.38495	.22350	.39615	.18055	.35184
#1	5.0739	5.0197	49.912	.99840	48.856	5.0698	10.175
#2	5.0937	5.0037	49.639	.99666	48.489	5.0556	10.159
#3	5.1036	5.0042	50.009	1.0011	48.569	5.0528	10.228
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2128	5.0516	5.0342	5.1320	5.0253	5.0261	5.1924
SDev	.0122	.0085	.0144	.0123	.0053	.0165	.0056
%RSD	.23337	.16799	.28658	.24039	.10501	.32902	.10748
#1	5.2111	5.0437	5.0360	5.1353	5.0194	5.0442	5.1909
#2	5.2015	5.0504	5.0190	5.1422	5.0295	5.0221	5.1986
#3	5.2257	5.0606	5.0477	5.1183	5.0270	5.0119	5.1877
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228279	--	--	--	--	--	--
SDev	299.4061	--	--	--	--	--	--
%RSD	.1311580	--	--	--	--	--	--
#1	228009	--	--	--	--	--	--
#2	228227	--	--	--	--	--	--
#3	228601	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 20:55:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00425	-.00629	.00232	.00077	.00313	-.00020	.00202
SDev	.00784	.01491	.00101	.00016	.00037	.00158	.00236
%RSD	184.54	236.90	43.606	21.284	11.666	800.09	117.06
#1	-.01322	-.02277	.00244	.00087	.00271	.00069	.00408
#2	-.00081	.00626	.00125	.00058	.00335	.00073	-.00056
#3	.00128	-.00237	.00326	.00087	.00335	-.00202	.00254
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00174	.00466	.00254	-.00758	.01006	.00747	.00014
SDev	.00083	.00094	.00082	.00232	.01913	.00406	.00053
%RSD	47.677	20.109	32.169	30.568	190.12	54.439	376.67
#1	.00131	.00519	.00194	-.00669	.01213	.00849	-.00016
#2	.00270	.00522	.00347	-.01021	.02807	.01092	-.00017
#3	.00122	.00358	.00221	-.00584	-.01002	.00299	.00075
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00344	-.00021	.29897	.00177	-.00792	.00082	.01279
SDev	.00063	.00043	.25651	.00091	.00837	.00079	.02878
%RSD	18.151	205.58	85.801	51.227	105.67	96.759	225.00
#1	.00307	-.00067	.25362	.00151	-.00993	.00161	-.00455
#2	.00309	.00017	.57513	.00279	.00127	.00002	-.00309
#3	.00416	-.00013	.06815	.00102	-.01511	.00082	.04602
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00525	.00033	.00164	.00281	-.00832	.01134	.00304
SDev	.00127	.00053	.00030	.00020	.00648	.00479	.00080
%RSD	24.201	160.06	18.195	7.2438	77.802	42.296	26.417
#1	.00434	-.00016	.00180	.00300	-.01563	.00580	.00303
#2	.00670	.00089	.00129	.00282	-.00606	.01409	.00224
#3	.00471	.00027	.00182	.00259	-.00329	.01412	.00385
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223984	--	--	--	--	--	--
SDev	847.6603	--	--	--	--	--	--
%RSD	.3784468	--	--	--	--	--	--
#1	224960	--	--	--	--	--	--
#2	223432	--	--	--	--	--	--
#3	223560	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 21:36:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.257	1.0220	10.102	2.4752	4.9777	2.5154	50.658
SDev	.104	.0166	.038	.0055	.0045	.0052	.134
%RSD	.20650	1.6219	.37980	.22041	.09136	.20707	.26542
#1	50.325	1.0282	10.135	2.4728	4.9730	2.5197	50.625
#2	50.308	1.0032	10.110	2.4714	4.9821	2.5169	50.543
#3	50.137	1.0346	10.060	2.4815	4.9780	2.5096	50.806
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0557	5.0225	5.0258	25.125	5.0531	49.670	4.9540
SDev	.0025	.0084	.0164	.015	.0092	.088	.0036
%RSD	.05010	.16717	.32710	.05955	.18165	.17655	.07223
#1	5.0539	5.0203	5.0429	25.109	5.0594	49.756	4.9501
#2	5.0546	5.0154	5.0244	25.138	5.0426	49.673	4.9546
#3	5.0586	5.0318	5.0102	25.129	5.0574	49.581	4.9571
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1189	5.0464	50.193	1.0016	50.611	5.0992	10.299
SDev	.0129	.0110	.157	.0046	.225	.0185	.034
%RSD	.25149	.21751	.31329	.45823	.44470	.36188	.33452
#1	5.1063	5.0338	50.352	1.0062	50.479	5.0895	10.321
#2	5.1184	5.0515	50.188	1.0017	50.871	5.0876	10.259
#3	5.1320	5.0539	50.038	.99702	50.484	5.1205	10.317
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3063	5.0603	5.0234	5.1402	5.0152	5.0196	5.1470
SDev	.0112	.0024	.0006	.0121	.0218	.0458	.0341
%RSD	.21092	.04788	.01106	.23470	.43397	.91318	.66178
#1	5.3055	5.0620	5.0237	5.1442	5.0347	5.0532	5.1606
#2	5.2955	5.0575	5.0238	5.1266	4.9917	4.9674	5.1722

#3	5.3179	5.0614	5.0228	5.1497	5.0193	5.0383	5.1083
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	226657	--	--	--	--	--	--
SDev	1221.895	--	--	--	--	--	--
%RSD	.5390945	--	--	--	--	--	--
#1	225793	--	--	--	--	--	--
#2	226123	--	--	--	--	--	--
#3	228055	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 21:39:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00282	.00080	.00299	.00058	.00098	.00005	.00378
SDev	.01788	.00565	.00093	.00028	.00312	.00154	.00287
%RSD	633.19	706.55	30.961	48.169	317.20	3195.1	75.960
#1	.01753	.00292	.00406	.00087	.00452	-.00172	.00629
#2	-.01602	.00508	.00244	.00058	-.00021	.00102	.00065
#3	-.00998	-.00560	.00247	.00030	-.00136	.00085	.00440
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00129	.00187	.00062	-.00868	-.00263	-.00004	.00014
SDev	.00178	.00164	.00140	.00266	.01115	.00744	.00053
%RSD	138.54	88.196	223.73	30.681	424.08	19379.	381.95
#1	.00104	.00168	.00070	-.00561	-.00374	-.00043	.00075
#2	-.00036	.00032	-.00081	-.01026	-.01319	-.00727	-.00016
#3	.00318	.00360	.00198	-.01018	.00904	.00758	-.00017
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00308	-.00563	-.14445	.00016	-.05787	.00136	.03132
SDev	.00320	.00509	.58354	.00260	.01592	.00046	.01254
%RSD	103.71	90.493	403.97	1613.0	27.519	34.050	40.049

#1	.00629	-.01064	-.48319	.00016	-.07479	.00082	.01998
#2	.00307	-.00578	-.47952	-.00244	-.05562	.00161	.02918
#3	-.00011	-.00046	.52936	.00276	-.04318	.00163	.04480
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00517	.00040	.00131	.00251	.00335	.01059	.00197
SDev	.00507	.00055	.00053	.00037	.01224	.00603	.00167
%RSD	98.139	137.03	40.716	14.618	365.31	56.969	84.600
#1	.00933	.00093	.00185	.00281	.01492	.01755	.00385
#2	-.00048	-.00016	.00078	.00210	.00459	.00702	.00064
#3	.00666	.00043	.00131	.00262	-.00946	.00719	.00144
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223813	--	--	--	--	--	--
SDev	1125.787	--	--	--	--	--	--
%RSD	.5030026	--	--	--	--	--	--
#1	223961	--	--	--	--	--	--
#2	224858	--	--	--	--	--	--
#3	222621	--	--	--	--	--	--

Method: A Sample Name: 9611G771-001S Operator: bh
Run Time: 12/14/96 21:43:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8723	.46537	2.0038	.04487	1.3552	.04887	244.59
SDev	.0363	.01629	.0060	.00040	.0103	.00256	1.17
%RSD	1.9400	3.4997	.29911	.88145	.75644	5.2402	.47959
#1	1.9139	.48318	2.0055	.04532	1.3664	.04939	244.17
#2	1.8563	.45124	2.0087	.04471	1.3529	.04609	243.68
#3	1.8468	.46167	1.9971	.04457	1.3462	.05113	245.91
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

SDev	.00160	.00319	.28174	.00152	.01612	.00000	.01096
%RSD	269.74	37.306	232.92	77.564	177.56	.07435	541.59
#1	.00094	-.00822	.03057	.00037	.01188	.00159	-.01097
#2	-.00115	-.00554	.43680	.00211	.02361	.00159	.01020
#3	.00199	-.01190	-.10449	.00340	-.00826	.00159	-.00530
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00145	.00083	.00092	.00066	-.00414	.00496	.00037
SDev	.00496	.00152	.00028	.00001	.01568	.00376	.00060
%RSD	342.05	181.92	30.701	.73875	378.99	75.732	161.48
#1	-.00547	.00125	.00075	.00066	.01396	.00107	.00024
#2	-.00409	-.00085	.00124	.00065	-.01360	.00857	.00103
#3	.00297	.00209	.00076	.00066	-.01277	.00525	-.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228405	--	--	--	--	--	--
SDev	172.5572	--	--	--	--	--	--
%RSD	.0755488	--	--	--	--	--	--
#1	228241	--	--	--	--	--	--
#2	228585	--	--	--	--	--	--
#3	228389	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 22:22:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.195	1.0389	10.081	2.4934	4.9418	2.5054	49.928
SDev	.158	.0244	.029	.0019	.0128	.0024	.257
%RSD	.31563	2.3505	.28821	.07807	.25892	.09635	.51563
#1	50.115	1.0497	10.066	2.4943	4.9561	2.5049	50.208
#2	50.377	1.0109	10.114	2.4912	4.9314	2.5033	49.871
#3	50.092	1.0560	10.062	2.4947	4.9380	2.5080	49.703
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0635	5.0358	5.0192	25.184	5.0799	49.731	4.9525
SDev	.0091	.0130	.0178	.028	.0294	.068	.0070
%RSD	.17938	.25818	.35452	.11278	.57778	.13635	.14215
#1	5.0676	5.0440	5.0170	25.211	5.0990	49.797	4.9578
#2	5.0531	5.0208	5.0380	25.154	5.0461	49.733	4.9445
#3	5.0698	5.0425	5.0026	25.186	5.0946	49.662	4.9551
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1365	5.0546	50.121	.99781	50.417	5.0140	10.361
SDev	.0136	.0247	.116	.00186	.395	.0152	.063
%RSD	.26566	.48956	.23052	.18591	.78351	.30344	.60536
#1	5.1263	5.0756	50.136	.99969	50.556	5.0174	10.430
#2	5.1312	5.0273	49.999	.99776	50.723	5.0272	10.347
#3	5.1520	5.0610	50.229	.99598	49.971	4.9973	10.307
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3441	5.0645	5.2171	5.1485	5.0324	5.0648	5.1165
SDev	.0155	.0051	.0067	.0140	.0564	.0269	.0415
%RSD	.28941	.09988	.12909	.27251	1.1209	.53142	.81057
#1	5.3531	5.0699	5.2241	5.1560	4.9881	5.0754	5.1047
#2	5.3263	5.0598	5.2107	5.1572	5.0130	5.0342	5.1626
#3	5.3531	5.0638	5.2164	5.1323	5.0959	5.0848	5.0822
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224494	--	--	--	--	--	--
SDev	1616.275	--	--	--	--	--	--
%RSD	.7199649	--	--	--	--	--	--
#1	222631	--	--	--	--	--	--
#2	225324	--	--	--	--	--	--
#3	225526	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 22:26:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01107	-.00600	.00261	.00069	.00081	-.00151	-.00460
SDev	.00729	.00411	.00062	.00017	.00304	.00125	.00493
%RSD	65.904	68.462	23.740	25.412	373.95	82.394	107.17
#1	-.01860	-.00888	.00329	.00089	.00340	-.00295	-.00109
#2	-.01055	-.00783	.00247	.00059	.00159	-.00083	-.01024
#3	-.00404	-.00130	.00208	.00059	-.00254	-.00076	-.00247
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00224	.00030	-.00861	.00211	-.00905	.00044
SDev	.00176	.00171	.00082	.00155	.01136	.01033	.00053
%RSD	320.49	76.674	271.96	18.057	537.14	114.13	120.84
#1	-.00101	.00086	-.00029	-.00704	-.01014	-.00491	.00075
#2	.00020	.00168	-.00004	-.00864	.00420	-.02082	.00075
#3	.00245	.00416	.00123	-.01015	.01229	-.00144	-.00017
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00133	-.01002	-.02655	-.00020	-.09298	.00002	-.00311
SDev	.00224	.00239	.42540	.00224	.01101	.00000	.01404
%RSD	168.27	23.817	1602.0	1111.6	11.842	.00000	450.70
#1	-.00117	-.01187	-.49111	-.00258	-.10252	.00002	-.01912
#2	.00203	-.01086	.06751	.00013	-.09549	.00002	.00267
#3	.00312	-.00732	.34394	.00185	-.08093	.00002	.00711
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00509	-.00012	.00134	.00248	-.00603	.00418	.00198
SDev	.01166	.00140	.00052	.00028	.01112	.00507	.00047
%RSD	229.05	1128.2	39.056	11.483	184.35	121.10	23.453
#1	-.00728	-.00172	.00082	.00264	-.01837	-.00144	.00225
#2	.01589	.00046	.00134	.00215	-.00294	.00558	.00225
#3	.00666	.00089	.00187	.00265	.00321	.00841	.00145
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222368	--	--	--	--	--	--
SDev	702.4794	--	--	--	--	--	--
%RSD	.3159090	--	--	--	--	--	--
#1	222049	--	--	--	--	--	--
#2	223173	--	--	--	--	--	--
#3	221881	--	--	--	--	--	--

Method: A Sample Name: 96GI665-MB1 Operator: bh
Run Time: 12/14/96 22:31:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00750	.00058	-.00037	-.00009	.00026	-.00216	.00761
SDev	.00271	.00628	.00039	.00016	.00100	.00100	.00146
%RSD	36.090	1086.6	104.82	178.23	386.45	46.139	19.200
#1	-.01052	.00061	.00002	.00001	.00141	-.00119	.00929
#2	-.00529	-.00572	-.00076	-.00000	-.00033	-.00317	.00662
#3	-.00670	.00685	-.00037	-.00027	-.00030	-.00211	.00692
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.10000	.05000	.00500	.05000	.00500	.10000
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.00500	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.00061	.00062	.00014	.00451	-.00465	-.00043
SDev	.00063	.00094	.00001	.00034	.00773	.00808	.00051
%RSD	646.87	155.50	2.1212	235.33	171.32	173.82	119.81
#1	-.00055	.00139	.00063	.00045	.01168	-.01081	-.00102
#2	.00015	-.00044	.00060	-.00022	-.00368	-.00763	-.00013
#3	.00069	.00086	.00062	.00019	.00553	.00450	-.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.02000	.02000	.03000	.05000	.20000	.01000
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00054	-.00205	.19908	-.00011	.02755	-.00049	.00797
SDev	.00120	.00381	.20587	.00195	.01099	.00088	.01925
%RSD	220.12	185.58	103.41	1763.3	39.902	182.10	241.55
#1	.00193	.00043	.08010	-.00128	.03633	.00002	.00013
#2	-.00015	-.00643	.43680	-.00118	.01522	-.00151	.02990

#3	-.00014	-.00015	.08035	.00214	.03110	.00002	-.00612
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Low	-.10000	-.02000	-2.0000	-.01000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00656	-.00044	.00154	.00029	-.00843	.00702	.00077
SDev	.00509	.00096	.00029	.00026	.00856	.00392	.00125
%RSD	77.475	220.75	18.907	91.450	101.54	55.886	163.22
#1	.00169	-.00117	.00171	.00016	-.01832	.01062	-.00014
#2	.01184	.00065	.00171	.00011	-.00366	.00758	.00025
#3	.00617	-.00079	.00121	.00060	-.00332	.00284	.00219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.01000	.01000	.01000	.10000	.10000	.10000
Low	-.10000	-.01000	-.02000	-.01000	-.10000	-.10000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	231848	--	--	--	--	--	--
SDev	1239.590	--	--	--	--	--	--
%RSD	.5346569	--	--	--	--	--	--
#1	231053	--	--	--	--	--	--
#2	233276	--	--	--	--	--	--
#3	231214	--	--	--	--	--	--

Method: A Sample Name: 96GI665-LC1 Operator: bh
Run Time: 12/14/96 22:34:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8145	.44590	1.9511	.04514	.91840	L.03688	9.0853
SDev	.0139	.01547	.0033	.00014	.00872	.00127	.0462
%RSD	.76421	3.4700	.16929	.31430	.94917	3.4489	.50850
#1	1.7988	.45375	1.9479	.04525	.92395	L.03806	9.1386
#2	1.8201	.42807	1.9508	.04498	.92289	L.03553	9.0579
#3	1.8247	.45586	1.9545	.04519	.90835	L.03706	9.0594
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18805	.46638	.23095	.92570	.45612	8.8739	.45698
SDev	.00303	.00449	.00152	.00403	.01272	.0220	.00182
%RSD	1.6141	.96212	.65624	.43504	2.7893	.24823	.39766

#1	.19152	.47151	.23181	.93014	.46628	8.8967	.45905
#2	.18592	.46445	.23184	.92465	.46022	8.8722	.45628
#3	.18670	.46317	.22920	.92230	.44185	8.8528	.45563
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.24000	.60000	.30000	1.2000	.60000	12.000	.60000
Low	.16000	.40000	.20000	.80000	.40000	8.0000	.40000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95254	.46106	9.3602	.04046	9.1309	.98952	1.9392
SDev	.00123	.00634	.5819	.00115	.0669	.00116	.0048
%RSD	.12874	1.3742	6.2172	2.8439	.73278	.11763	.24681
#1	.95390	.46763	9.5351	.04122	9.0550	.98821	1.9416
#2	.95224	.45499	9.8347	.04103	9.1815	.98991	1.9336
#3	.95150	.46056	8.7109	L.03914	9.1562	.99043	1.9422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	12.000	.06000	12.000	1.2000	2.4000
Low	.80000	.40000	8.0000	.04000	8.0000	.80000	1.6000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96690	.46938	.46563	.96323	1.8100	1.8510	.48613
SDev	.00311	.00116	.00202	.00140	.0149	.0210	.00716
%RSD	.32121	.24732	.43389	.14586	.82269	1.1367	1.4726
#1	.96401	.47072	.46788	.96466	1.8102	1.8642	.47789
#2	.97018	.46874	.46507	.96317	1.7951	1.8621	.48970
#3	.96650	.46868	.46396	.96185	1.8248	1.8267	.49080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	.60000	1.2000	2.4000	2.4000	.60000
Low	.80000	.40000	.40000	.80000	1.6000	1.6000	.40000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232490	--	--	--	--	--	--
SDev	1546.054	--	--	--	--	--	--
%RSD	.6649982	--	--	--	--	--	--
#1	230992	--	--	--	--	--	--
#2	232398	--	--	--	--	--	--
#3	234080	--	--	--	--	--	--

Method: A Sample Name: 9611G675-001 Operator: bh
Run Time: 12/14/96 22:38:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.9519	-.00484	.08805	.00041	.01662	.00003	4.0511
SDev	.0119	.00536	.00075	.00016	.00035	.00053	.0458
%RSD	.17080	110.84	.85314	38.561	2.0884	2082.4	1.1316
#1	6.9410	-.01103	.08889	.00050	.01691	.00061	4.0334
#2	6.9501	-.00172	.08783	.00023	.01670	-.00043	4.0167
#3	6.9646	-.00176	.08743	.00050	.01623	-.00010	4.1031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01063	.00738	.02193	9.2513	.09344	1.1035	.27184
SDev	.00053	.00024	.00097	.0574	.00098	.0057	.00206
%RSD	5.0066	3.1923	4.4147	.62065	1.0516	.51361	.75691
#1	.01035	.00717	.02151	9.2208	.09361	1.0973	.27093
#2	.01030	.00734	.02124	9.2157	.09239	1.1047	.27039
#3	.01124	.00763	.02304	9.3176	.09433	1.1085	.27420
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.03119	1.7375	.00096	.57199	.09121	.00372
SDev	.00157	.00356	.1427	.00105	.01909	.00058	.00931
%RSD	200.89	11.419	8.2123	109.63	3.3380	.63134	250.33
#1	.00112	.03405	1.8644	-.00025	.56663	.09129	.01358
#2	-.00093	.03231	1.5830	.00157	.59319	.09174	-.00492
#3	.00215	.02720	1.7650	.00155	.55615	.09060	.00250
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00833	.05257	.13334	.08847	-.00905	-.01170	.00683
SDev	.00447	.00079	.00157	.00020	.00309	.00548	.00078
%RSD	53.726	1.5032	1.1769	.22623	34.084	46.893	11.502
#1	.00509	.05347	.13304	.08850	-.00607	-.01015	.00687
#2	.00646	.05200	.13195	.08826	-.01223	-.01779	.00602
#3	.01343	.05224	.13504	.08866	-.00885	-.00715	.00759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	232431	--	--	--	--	--	--
SDev	1396.260	--	--	--	--	--	--
%RSD	.6007211	--	--	--	--	--	--
#1	230924	--	--	--	--	--	--
#2	233681	--	--	--	--	--	--
#3	232687	--	--	--	--	--	--

Method: A Sample Name: 9611G675-001R Operator: bh
Run Time: 12/14/96 22:42:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5973	.00288	.06872	.00019	.01994	-.00175	3.8575
SDev	.0036	.00569	.00070	.00000	.00301	.00032	.0200
%RSD	.07917	197.26	1.0180	2.1002	15.086	18.317	.51823
#1	4.5988	-.00366	.06946	.00019	.02328	-.00151	3.8586
#2	4.5931	.00567	.06862	.00019	.01745	-.00211	3.8371
#3	4.5999	.00664	.06807	.00019	.01910	-.00161	3.8770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00740	.00671	.01904	7.2778	.06634	.85872	.23829
SDev	.00043	.00119	.00109	.0077	.00357	.01287	.00080
%RSD	5.7697	17.746	5.7411	.10588	5.3824	1.4985	.33498
#1	.00702	.00604	.01987	7.2754	.06312	.86828	.23890
#2	.00786	.00601	.01780	7.2716	.06573	.84409	.23739
#3	.00731	.00809	.01945	7.2864	.07018	.86377	.23859
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	.02447	1.2077	.00160	.55572	.08141	-.00247
SDev	.00030	.00248	.4036	.00108	.01986	.00013	.01570
%RSD	43.638	10.151	33.422	67.237	3.5743	.16133	635.06
#1	.00086	.02436	1.5977	.00169	.57520	.08131	.01139
#2	.00085	.02701	.79173	.00048	.53550	.08156	.00071
#3	.00034	.02205	1.2335	.00263	.55646	.08136	-.01952
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00

Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00605	.04459	.12165	.05893	-.00358	-.01480	.00451
SDev	.00278	.00030	.00073	.00021	.00303	.00856	.00076
%RSD	45.883	.68334	.59877	.35437	84.455	57.850	16.950
#1	.00441	.04441	.12211	.05910	-.00681	-.01137	.00375
#2	.00449	.04494	.12081	.05870	-.00314	-.00848	.00528
#3	.00925	.04442	.12204	.05898	-.00080	-.02454	.00450
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	231897	--	--	--	--	--	--
SDev	1055.413	--	--	--	--	--	--
%RSD	.4551210	--	--	--	--	--	--
#1	230722	--	--	--	--	--	--
#2	232206	--	--	--	--	--	--
#3	232764	--	--	--	--	--	--

Method: A Sample Name: 9611G675-001S Operator: bh
Run Time: 12/14/96 22:46:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.332	.37003	2.0679	.04718	.91566	.03800	13.787
SDev	.035	.00618	.0033	.00004	.01007	.00069	.013
%RSD	.28488	1.6690	.15922	.07653	1.0995	1.8061	.09112
#1	12.332	.37532	2.0716	.04722	.91528	.03746	13.787
#2	12.367	.36324	2.0665	.04717	.90580	.03877	13.800
#3	12.297	.37152	2.0655	.04715	.92592	.03775	13.775
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20234	.47977	.25671	10.533	.54288	10.377	.74473
SDev	.00143	.00261	.00109	.031	.00805	.056	.00322
%RSD	.70404	.54436	.42374	.29412	1.4818	.53945	.43274
#1	.20206	.47827	.25708	10.508	.54019	10.375	.74114
#2	.20388	.47826	.25757	10.568	.55193	10.434	.74738
#3	.20107	.48279	.25549	10.524	.53653	10.322	.74566

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94093	.50557	10.888	.04042	9.9731	1.1017	1.8890
SDev	.00128	.00391	.099	.00173	.0476	.0043	.0170
%RSD	.13629	.77268	.90943	4.2928	.47770	.38644	.90104
#1	.94109	.51006	10.846	.03909	9.9237	1.1047	1.9071
#2	.94213	.50294	11.001	.04238	10.019	1.1036	1.8869
#3	.93958	.50371	10.817	.03978	9.9768	1.0968	1.8732

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.90914	.52668	.59968	1.0163	1.8131	1.8500	.50712
SDev	.01551	.00110	.00176	.0017	.0051	.0111	.00594
%RSD	1.7060	.20937	.29274	.16624	.27906	.59884	1.1709
#1	.89786	.52575	.59766	1.0164	1.8144	1.8392	.51194
#2	.92683	.52790	.60084	1.0180	1.8076	1.8493	.50895
#3	.90274	.52638	.60054	1.0146	1.8174	1.8614	.50049

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	229677	--	--	--	--	--	--
SDev	914.6316	--	--	--	--	--	--
%RSD	.3982252	--	--	--	--	--	--
#1	228623	--	--	--	--	--	--
#2	230146	--	--	--	--	--	--
#3	230262	--	--	--	--	--	--

Method: A Sample Name: 9611G675-001L Operator: bh
Run Time: 12/14/96 22:49:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4347	-.01617	.01747	-.00004	.00211	-.00108	.85838
SDev	.0136	.00749	.00048	.00008	.00065	.00084	.00150
%RSD	.94720	46.339	2.7473	186.56	31.004	77.216	.17522

#1	1.4193	-.01410	.01727	-.00000	.00251	-.00013	.85670
#2	1.4396	-.02449	.01713	-.00014	.00247	-.00144	.85885
#3	1.4451	-.00994	.01802	.00001	.00135	-.00168	.85959
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00282	.00281	.00465	1.9212	.02805	.23399	.05558
SDev	.00054	.00107	.00053	.0024	.00514	.01013	.00089
%RSD	19.040	37.892	11.399	.12246	18.335	4.3280	1.6085
#1	.00235	.00388	.00524	1.9209	.02514	.22596	.05457
#2	.00340	.00175	.00421	1.9190	.03399	.23064	.05592
#3	.00270	.00282	.00449	1.9237	.02503	.24536	.05625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00150	.00233	.46671	.00268	.10550	.01863	.01764
SDev	.00059	.00322	.05180	.00088	.02071	.00008	.02662
%RSD	38.963	138.23	11.099	32.793	19.634	.41009	150.90
#1	.00117	.00339	.52653	.00266	.09446	.01869	.04770
#2	.00218	.00488	.43680	.00356	.12939	.01855	-.00296
#3	.00116	-.00129	.43680	.00181	.09264	.01866	.00819
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00104	.00946	.02942	.01845	-.00241	-.00639	.00298
SDev	.00545	.00132	.00090	.00059	.00957	.00723	.00079
%RSD	522.44	13.983	3.0734	3.2136	397.57	113.24	26.409
#1	.00167	.01045	.03019	.01853	-.00287	-.01408	.00298
#2	.00615	.00997	.02842	.01901	.00739	.00027	.00219
#3	-.00470	.00796	.02964	.01783	-.01174	-.00534	.00376
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	230373	--	--	--	--	--	--
SDev	947.8441	--	--	--	--	--	--

%RSD	.4114383	--	--	--	--	--	--
#1	229645	--	--	--	--	--	--
#2	231445	--	--	--	--	--	--
#3	230030	--	--	--	--	--	--

Method: A Sample Name: 9611G675-001A Operator: bh
Run Time: 12/14/96 22:53:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.3875	.10824	.49771	.01021	.21509	.00716	6.0760
SDev	.0238	.01677	.00108	.00009	.00301	.00197	.0143
%RSD	.32185	15.489	.21714	.90690	1.4012	27.502	.23536
#1	7.4104	.12543	.49888	.01022	.21797	.00941	6.0638
#2	7.3892	.10737	.49750	.01029	.21532	.00574	6.0918
#3	7.3629	.09193	.49675	.01011	.21196	.00634	6.0725
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03258	.10819	.07099	9.5272	.19156	2.9761	.30305
SDev	.00232	.00011	.00040	.0194	.01290	.0127	.00089
%RSD	7.1148	.09942	.56375	.20407	6.7364	.42623	.29405
#1	.03081	.10831	.07068	9.5362	.20117	2.9804	.30366
#2	.03520	.10811	.07145	9.5405	.19661	2.9860	.30345
#3	.03173	.10814	.07085	9.5049	.17689	2.9618	.30203
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20288	.10656	3.7176	.02133	2.5167	.29753	.39339
SDev	.00207	.00298	.4267	.00114	.0189	.00165	.01860
%RSD	1.0209	2.8016	11.479	5.3523	.75246	.55398	4.7280
#1	.20306	.10375	3.2478	.02256	2.5372	.29563	.40215
#2	.20486	.10969	3.8239	.02031	2.5131	.29839	.37203
#3	.20073	.10623	4.0812	.02113	2.4998	.29857	.40598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21471	.15273	.17377	.29249	.18973	.18788	.21092

120ppb Sb PMS
JW 1/13/97

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SDev	.00461	.00080	.00035	.00036	.00589	.00430	.00255
%RSD	2.1478	.52379	.20239	.12465	3.1034	2.2862	1.2082
#1	.21413	.15281	.17415	.29279	.19148	.18723	.21381
#2	.21959	.15349	.17346	.29259	.18316	.18395	.20997
#3	.21042	.15189	.17368	.29208	.19453	.19247	.20899
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224928	--	--	--	--	--	--
SDev	1299.684	--	--	--	--	--	--
%RSD	.5778220	--	--	--	--	--	--
#1	223559	--	--	--	--	--	--
#2	225080	--	--	--	--	--	--
#3	226145	--	--	--	--	--	--

Method: A Sample Name: 9611G675-002 Operator: bh
Run Time: 12/14/96 22:57:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50076	-.00281	.01280	-.00007	.00215	-.00167	.93550
SDev	.00249	.00655	.00005	.00000	.00292	.00051	.00375
%RSD	.49752	232.99	.41026	5.3161	135.56	30.259	.40091
#1	.49793	.00291	.01285	-.00006	-.00056	-.00116	.93117
#2	.50260	-.00139	.01281	-.00007	.00178	-.00168	.93752
#3	.50176	-.00996	.01275	-.00007	.00524	-.00218	.93780
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00176	.00208	.01437	3.1867	.05727	.18839	.06048
SDev	.00077	.00125	.00060	.0095	.00350	.00999	.00047
%RSD	43.843	60.057	4.1728	.29666	6.1206	5.3041	.77066
#1	.00095	.00280	.01451	3.1760	.06119	.18357	.06009
#2	.00185	.00064	.01371	3.1939	.05618	.18172	.06035
#3	.00248	.00279	.01489	3.1902	.05444	.19988	.06099
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	.00206	.25432	.00082	.72368	.02324	.00257
SDev	.00221	.00173	.48359	.00185	.01931	.00091	.01453
%RSD	203.63	83.796	190.15	226.35	2.6677	3.9265	565.60
#1	.00139	.00273	.62012	-.00068	.74574	.02386	-.00783
#2	-.00285	.00335	-.29396	.00024	.70987	.02220	-.00363
#3	-.00179	.00010	.43680	.00289	.71543	.02368	.01917
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01036	.01676	.04416	.00777	.00838	.00312	-.00056
SDev	.00310	.00037	.00017	.00026	.01037	.01367	.00105
%RSD	29.879	2.2233	.39148	3.3736	123.69	438.22	188.57
#1	.01386	.01636	.04432	.00797	-.00241	-.00798	.00064
#2	.00797	.01710	.04417	.00747	.00929	-.00105	-.00136
#3	.00925	.01683	.04398	.00787	.01827	.01839	-.00095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225635	--	--	--	--	--	--
SDev	874.1449	--	--	--	--	--	--
%RSD	.3874161	--	--	--	--	--	--
#1	224798	--	--	--	--	--	--
#2	225564	--	--	--	--	--	--
#3	226542	--	--	--	--	--	--

Method: A Sample Name: 9611G675-003 Operator: bh
Run Time: 12/14/96 23:00:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.6637	.00874	.13706	.00027	.00275	-.00041	11.789
SDev	.0149	.01394	.00033	.00016	.00090	.00070	.072
%RSD	.40675	159.44	.23969	59.535	32.522	172.29	.61245
#1	3.6466	.00675	.13733	.00018	.00296	.00019	11.737
#2	3.6702	-.00409	.13714	.00018	.00177	-.00023	11.759
#3	3.6742	.02357	.13669	.00045	.00353	-.00118	11.872
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01130	.00876	.03264	16.802	.21577	1.5044	1.4244
SDev	.00189	.00091	.00086	.020	.01458	.0123	.0015
%RSD	16.714	10.381	2.6425	.11808	6.7551	.81837	.10280
#1	.01047	.00829	.03223	16.795	.20965	1.4922	1.4236
#2	.00997	.00818	.03206	16.787	.20526	1.5041	1.4234
#3	.01347	.00981	.03363	16.825	.23241	1.5168	1.4261
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00113	.02362	1.9867	.00095	.61743	.12228	-.00932
SDev	.00184	.00346	.5668	.00183	.01517	.00073	.00326
%RSD	161.96	14.657	28.530	191.45	2.4577	.60091	35.011
#1	-.00099	.02548	1.8152	.00027	.60620	.12270	-.00751
#2	.00219	.01962	1.5254	-.00043	.61140	.12270	-.01308
#3	.00220	.02575	2.6194	.00303	.63470	.12143	-.00735
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01292	.04344	.15510	.04695	-.00330	-.03099	.00421
SDev	.01014	.00055	.00108	.00029	.01751	.01394	.00142
%RSD	78.497	1.2685	.69479	.61842	530.96	44.986	33.749
#1	.01397	.04377	.15632	.04690	-.01844	-.02080	.00304
#2	.00229	.04280	.15430	.04669	-.00732	-.04688	.00380
#3	.02249	.04374	.15467	.04726	.01587	-.02530	.00579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225972	--	--	--	--	--	--
SDev	1546.291	--	--	--	--	--	--
%RSD	.6842854	--	--	--	--	--	--
#1	224216	--	--	--	--	--	--
#2	227131	--	--	--	--	--	--
#3	226568	--	--	--	--	--	--

Method: A Sample Name: 9611G675-004 Operator: bh
Run Time: 12/14/96 23:04:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	77.414	.02720	.67056	.00408	.02068	.00149	33.221
SDev	.263	.00615	.00265	.00018	.00251	.00136	.163
%RSD	.33952	22.611	.39524	4.3813	12.129	91.307	.49154
#1	77.347	.02752	.67130	.00416	.02239	.00114	33.225
#2	77.704	.03318	.67277	.00420	.01780	.00299	33.055
#3	77.192	.02089	.66762	.00387	.02185	.00034	33.382
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08527	.03615	.14936	69.685	H155.78	17.828	2.4621
SDev	.00160	.00196	.00157	.190	.59	.021	.0072
%RSD	1.8753	5.4189	1.0484	.27235	.38054	.11580	.29318
#1	.08430	.03652	.14925	69.477	H155.31	17.806	2.4557
#2	.08440	.03403	.14785	69.730	H155.58	17.832	2.4607
#3	.08712	.03789	.15098	69.848	H156.44	17.847	2.4699
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

gw 12/10/96

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00643	.07322	11.582	.00686	1.0138	.40025	-.09463
SDev	.00270	.00472	.269	.00454	.0204	.00045	.01046
%RSD	42.051	6.4511	2.3207	66.090	2.0169	.11240	11.050
#1	.00941	.06892	11.491	.00625	1.0121	.40075	-.09966
#2	.00412	.07828	11.371	.00267	.99421	.39987	-.08260
#3	.00576	.07248	11.885	.01168	1.0350	.40013	-.10161
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06991	.13381	.44419	.24099	.00663	-.15541	.04649
SDev	.01090	.00157	.00168	.00053	.01673	.02084	.00127
%RSD	15.593	1.1728	.37793	.22111	252.42	13.410	2.7346
#1	-.07310	.13562	.44228	.24105	.00724	-.13872	.04529
#2	-.07886	.13297	.44482	.24043	-.01040	-.17877	.04635

#3	-.05777	.13283	.44546	.24149	.02304	-.14875	.04782
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225515	--	--	--	--	--	--
SDev	1267.089	--	--	--	--	--	--
%RSD	.5618654	--	--	--	--	--	--
#1	225532	--	--	--	--	--	--
#2	224239	--	--	--	--	--	--
#3	226773	--	--	--	--	--	--

Method: A Sample Name: CCV Operator: bh
Run Time: 12/14/96 23:08:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.357	1.0370	10.141	2.4934	4.9106	2.5083	50.798
SDev	.035	.0205	.035	.0039	.0154	.0047	.060
%RSD	.06906	1.9780	.34038	.15488	.31410	.18886	.11837
#1	50.365	1.0133	10.174	2.4891	4.9144	2.5035	50.730
#2	50.387	1.0499	10.144	2.4944	4.9237	2.5084	50.845
#3	50.319	1.0478	10.105	2.4966	4.8936	2.5130	50.819
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0558	5.0367	5.0126	25.166	5.0994	49.816	4.9553
SDev	.0171	.0211	.0170	.039	.0124	.062	.0197
%RSD	.33763	.41860	.33931	.15333	.24340	.12418	.39837
#1	5.0383	5.0141	5.0319	25.124	5.0864	49.747	4.9325
#2	5.0567	5.0403	5.0062	25.176	5.1007	49.867	4.9659
#3	5.0724	5.0558	4.9997	25.199	5.1111	49.835	4.9674
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1592	5.0452	50.237	.99714	49.971	5.0258	10.399
SDev	.0235	.0110	.251	.00081	.251	.0246	.055
%RSD	.45642	.21838	.49988	.08082	.50162	.48938	.52798

#1	5.1323	5.0331	50.421	.99803	50.260	5.0540	10.337
#2	5.1692	5.0547	49.951	.99694	49.820	5.0148	10.417
#3	5.1760	5.0479	50.339	.99645	49.832	5.0086	10.442
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3934	5.0639	5.2095	5.1538	5.0391	5.0608	5.1563
SDev	.0323	.0066	.0133	.0094	.0201	.0191	.0285
%RSD	.59904	.13070	.25572	.18237	.39896	.37756	.55275
#1	5.3788	5.0567	5.1952	5.1646	5.0295	5.0756	5.1872
#2	5.3710	5.0655	5.2119	5.1493	5.0256	5.0392	5.1505
#3	5.4305	5.0696	5.2215	5.1475	5.0622	5.0675	5.1311
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223489	--	--	--	--	--	--
SDev	158.3572	--	--	--	--	--	--
%RSD	.0708568	--	--	--	--	--	--
#1	223421	--	--	--	--	--	--
#2	223670	--	--	--	--	--	--
#3	223376	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 23:12:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00876	.00614	.00252	.00060	.00128	-.00088	.00414
SDev	.01135	.00835	.00000	.00001	.00125	.00179	.00601
%RSD	129.56	136.07	.09659	1.4724	97.625	203.95	145.13
#1	-.00130	.01201	.00252	.00060	.00168	.00016	.00486
#2	-.00316	.00983	.00252	.00059	-.00012	-.00295	-.00220
#3	-.02182	-.00342	.00252	.00061	.00227	.00015	.00975
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.00239	.00326	.00263	-.00326	.01453	.01255	.00044
SDev	.00319	.00250	.00206	.00138	.02055	.00944	.00054
%RSD	133.81	76.552	78.527	42.449	141.36	75.180	123.12
#1	.00069	.00308	.00229	-.00272	.00271	.00449	.00075
#2	.00040	.00086	.00075	-.00483	.00263	.01023	-.00018
#3	.00607	.00584	.00484	-.00222	.03826	.02293	.00075
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	-.00145	.35836	.00148	-.04693	.00165	.00330
SDev	.00273	.00315	.53982	.00340	.03058	.00000	.01334
%RSD	111.61	216.92	150.63	230.36	65.156	.07306	403.79
#1	.00209	-.00320	.34289	-.00002	-.04846	.00165	-.01189
#2	-.00009	-.00335	-.17355	-.00092	-.07672	.00165	.01311
#3	.00534	.00219	.90575	.00537	-.01562	.00165	.00870
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00766	.00052	.00152	.00304	-.00419	.00831	.00255
SDev	.00322	.00127	.00079	.00070	.00553	.01106	.00047
%RSD	42.013	243.23	52.050	23.169	131.98	133.03	18.598
#1	.00902	.00066	.00135	.00319	-.00149	.01291	.00227
#2	.00399	.00172	.00083	.00227	-.01055	.01633	.00309
#3	.00998	-.00081	.00239	.00365	-.00053	-.00430	.00227
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	219500	--	--	--	--	--	--
SDev	162.8905	--	--	--	--	--	--
%RSD	.0742097	--	--	--	--	--	--
#1	219387	--	--	--	--	--	--
#2	219427	--	--	--	--	--	--
#3	219687	--	--	--	--	--	--

Method: A Sample Name: 9611G675-005 Operator: bh
Run Time: 12/14/96 23:15:53

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2821	.01171	.17734	.00044	.00633	-.00115	17.711
SDev	.0136	.00895	.00098	.00001	.00298	.00116	.153
%RSD	.31761	76.444	.55171	1.5674	47.119	101.04	.86370
#1	4.2868	.01476	.17846	.00045	.00909	-.00123	17.629
#2	4.2928	.01875	.17696	.00043	.00673	-.00226	17.887
#3	4.2668	.00163	.17662	.00044	.00316	.00005	17.616
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01876	.01142	.40293	35.808	14.664	2.3985	.34659
SDev	.00152	.00052	.00158	.093	.079	.0126	.00103
%RSD	8.0779	4.5931	.39303	.25960	.53609	.52570	.29838
#1	.01972	.01152	.40461	35.769	14.621	2.4102	.34706
#2	.01955	.01189	.40146	35.914	14.755	2.4003	.34729
#3	.01702	.01085	.40273	35.741	14.616	2.3851	.34540
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00236	.04665	1.1745	.00270	6.0598	.51792	-.04292
SDev	.00222	.00331	.3353	.00148	.0482	.00176	.01015
%RSD	94.056	7.0856	28.551	54.941	.79611	.33948	23.658
#1	.00484	.04941	1.4578	.00404	6.0897	.51980	-.04474
#2	.00166	.04755	1.2615	.00295	6.0042	.51632	-.03198
#3	.00057	.04299	.80427	.00111	6.0856	.51765	-.05204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.04379	.26638	.03860	.03840	-.08788	.00600
SDev	.00462	.00006	.00135	.00056	.01051	.01354	.00125
%RSD	1946.3	.14069	.50701	1.4647	27.356	15.411	20.886
#1	.00368	.04385	.26567	.03916	.03189	-.07878	.00712
#2	.00205	.04379	.26794	.03860	.05052	-.08142	.00623
#3	-.00502	.04373	.26553	.03803	.03280	-.10344	.00464
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223711	--	--	--	--	--	--
SDev	1524.520	--	--	--	--	--	--
%RSD	.6814676	--	--	--	--	--	--
#1	221983	--	--	--	--	--	--
#2	224865	--	--	--	--	--	--
#3	224286	--	--	--	--	--	--

Method: A Sample Name: 9611G675-006 Operator: bh
Run Time: 12/14/96 23:19:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2867	.01497	.21213	.00044	.00655	-.00192	6.7556
SDev	.0091	.00568	.00035	.00001	.00157	.00021	.0317
%RSD	.21273	37.941	.16540	2.4605	23.963	11.046	.46899
#1	4.2780	.02127	.21210	.00045	.00597	-.00213	6.7779
#2	4.2962	.01025	.21249	.00044	.00833	-.00192	6.7696
#3	4.2859	.01338	.21179	.00043	.00536	-.00171	6.7193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01383	.01235	.33260	37.459	10.098	1.2969	.16422
SDev	.00051	.00074	.00130	.056	.050	.0164	.00011
%RSD	3.7098	6.0123	.39248	.14828	.49775	1.2666	.06924
#1	.01416	.01252	.33407	37.501	10.125	1.3074	.16428
#2	.01408	.01299	.33215	37.481	10.129	1.3054	.16430
#3	.01324	.01153	.33157	37.396	10.040	1.2780	.16409
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00276	.03940	1.4069	.00414	6.4750	.25184	-.03194
SDev	.00112	.00237	.0742	.00172	.0310	.00041	.03238
%RSD	40.557	6.0285	5.2776	41.633	.47830	.16181	101.39
#1	.00186	.04161	1.3667	.00405	6.4680	.25153	-.02192
#2	.00401	.03689	1.3614	.00591	6.4481	.25168	-.06814
#3	.00241	.03969	1.4926	.00246	6.5088	.25230	-.00575

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.04323	.23151	.03627	.02230	-.08933	.00776
SDev	.00380	.00066	.00046	.00064	.00205	.01041	.00059
%RSD	5742.1	1.5330	.20045	1.7562	9.1795	11.653	7.6234
#1	.00437	.04252	.23191	.03652	.02405	-.08472	.00713
#2	-.00282	.04333	.23163	.03674	.02278	-.08203	.00830
#3	-.00134	.04383	.23100	.03555	.02005	-.10125	.00785

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222954	--	--	--	--	--	--
SDev	1434.100	--	--	--	--	--	--
%RSD	.6432278	--	--	--	--	--	--
#1	221572	--	--	--	--	--	--
#2	222854	--	--	--	--	--	--
#3	224435	--	--	--	--	--	--

Method: A Sample Name: 9611G675-007 Operator: bh
Run Time: 12/14/96 23:23:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.7671	-.00264	.13114	.00078	.00319	-.00231	2.2974
SDev	.0066	.00641	.00028	.00017	.00244	.00093	.0084
%RSD	.06747	243.05	.20976	21.230	76.410	40.471	.36376
#1	9.7740	-.00255	.13146	.00098	.00241	-.00166	2.3067
#2	9.7663	-.00909	.13099	.00069	.00124	-.00338	2.2950
#3	9.7609	.00373	.13097	.00069	.00593	-.00189	2.2905

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01795	.00908	.05828	32.850	.08892	.83158	.23175
SDev	.00051	.00039	.00103	.065	.01006	.02127	.00075
%RSD	2.8323	4.2758	1.7767	.19822	11.318	2.5573	.32184
#1	.01848	.00953	.05927	32.923	.09936	.85403	.23215

#2	.01747	.00889	.05721	32.828	.07928	.81173	.23089
#3	.01790	.00883	.05835	32.799	.08811	.82898	.23221
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00301	.02506	1.2668	.00244	.44633	.08168	-.03521
SDev	.00062	.00283	.2829	.00128	.01887	.00103	.01056
%RSD	20.520	11.302	22.334	52.476	4.2289	1.2556	30.002
#1	.00337	.02833	1.5509	.00380	.44706	.08051	-.02920
#2	.00336	.02363	1.2644	.00127	.42710	.08213	-.02903
#3	.00230	.02324	.98509	.00224	.46483	.08241	-.04741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00607	.05847	.22229	.05601	.00025	-.08164	.00734
SDev	.00408	.00150	.00090	.00037	.02898	.00482	.00128
%RSD	67.206	2.5640	.40619	.65853	11618.	5.9079	17.495
#1	.00509	.06013	.22333	.05637	.03338	-.07758	.00874
#2	.00257	.05805	.22169	.05601	-.01226	-.08036	.00706
#3	.01056	.05723	.22184	.05563	-.02037	-.08697	.00622
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223823	--	--	--	--	--	--
SDev	1790.325	--	--	--	--	--	--
%RSD	.7998842	--	--	--	--	--	--
#1	221922	--	--	--	--	--	--
#2	224070	--	--	--	--	--	--
#3	225477	--	--	--	--	--	--

Method: A Sample Name: 9611G675-008 Operator: bh
Run Time: 12/14/96 23:27:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	32.957	-.00101	.43648	.00198	.00692	.00238	10.546
SDev	.050	.00711	.00170	.00001	.00116	.00168	.059

%RSD	.15224	700.74	.38960	.37589	16.778	70.397	.55799
#1	32.900	.00363	.43841	.00199	.00808	.00334	10.483
#2	32.974	.00253	.43585	.00198	.00576	.00045	10.557
#3	32.996	-.00920	.43518	.00197	.00693	.00336	10.599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04533	.01992	.04725	36.738	.26377	3.3863	3.1813
SDev	.00091	.00057	.00045	.033	.00397	.0052	.0075
%RSD	2.0167	2.8504	.95628	.08984	1.5043	.15301	.23477
#1	.04439	.01960	.04747	36.700	.26687	3.3876	3.1730
#2	.04621	.02058	.04755	36.755	.25930	3.3908	3.1874
#3	.04540	.01959	.04673	36.760	.26515	3.3806	3.1836
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	.05916	4.5667	.00304	.39094	.23063	-.03354
SDev	.00161	.00274	.1302	.00155	.01174	.00053	.01159
%RSD	65.546	4.6289	2.8504	50.805	3.0038	.22920	34.565
#1	.00280	.05893	4.5421	.00214	.40149	.23094	-.03243
#2	.00070	.06201	4.7074	.00483	.37829	.23002	-.04564
#3	.00386	.05654	4.4505	.00216	.39305	.23092	-.02254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00915	.08936	.54110	.08171	-.00783	-.08916	.02714
SDev	.00309	.00145	.00132	.00032	.01788	.00557	.00040
%RSD	33.710	1.6213	.24350	.38952	228.29	6.2463	1.4655
#1	.01271	.08851	.53960	.08153	.01221	-.09539	.02691
#2	.00726	.08853	.54206	.08208	-.02216	-.08744	.02760
#3	.00749	.09103	.54165	.08152	-.01355	-.08465	.02691
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--

Avge	226163	--	--	--	--	--	--
SDev	519.1159	--	--	--	--	--	--
%RSD	.2295321	--	--	--	--	--	--
#1	225854	--	--	--	--	--	--
#2	226762	--	--	--	--	--	--
#3	225872	--	--	--	--	--	--

Method: A Sample Name: CRI Operator: bh
Run Time: 12/14/96 23:30:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38366	.10718	.41805	.01032	.20080	.00940	2.0383
SDev	.00579	.00738	.00184	.00011	.00214	.00070	.0210
%RSD	1.5083	6.8858	.43922	1.0856	1.0641	7.4475	1.0303
#1	.38954	.11235	.41997	.01023	.20084	.01002	2.0159
#2	.37798	.09873	.41631	.01028	.19865	.00952	2.0575
#3	.38345	.11046	.41786	.01044	.20292	.00864	2.0415
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02087	.10508	.05069	.20651	.10331	1.9609	.02999
SDev	.00092	.00212	.00123	.00227	.00057	.0222	.00016
%RSD	4.4020	2.0137	2.4255	1.0993	.55056	1.1332	.52779
#1	.02015	.10284	.04949	.20521	.10334	1.9366	.03002
#2	.02190	.10704	.05195	.20913	.10387	1.9802	.03013
#3	.02056	.10536	.05063	.20519	.10273	1.9658	.02982
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20719	.07739	2.1510	.01932	1.9902	.20587	.41850
SDev	.00153	.00221	.2863	.00090	.0492	.00122	.03667
%RSD	.73888	2.8555	13.308	4.6688	2.4706	.59111	8.7613
#1	.20546	.07697	1.9072	.01845	2.0399	.20716	.39694
#2	.20837	.07542	2.4663	.02025	1.9415	.20474	.39773
#3	.20774	.07978	2.0796	.01927	1.9892	.20573	.46084
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22686	.10219	.04616	.20625	.19106	.21062	.20963
SDev	.00366	.00022	.00066	.00074	.01207	.02313	.00411
%RSD	1.6140	.21825	1.4279	.35703	6.3166	10.984	1.9585
#1	.22612	.10242	.04569	.20549	.18257	.18485	.21320
#2	.23084	.10198	.04691	.20696	.18573	.22959	.20515
#3	.22363	.10218	.04587	.20629	.20487	.21742	.21054
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000	.20000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224437	--	--	--	--	--	--
SDev	1216.882	--	--	--	--	--	--
%RSD	.5421930	--	--	--	--	--	--
#1	224197	--	--	--	--	--	--
#2	223358	--	--	--	--	--	--
#3	225756	--	--	--	--	--	--

Method: A Sample Name: ISA Operator: bh
Run Time: 12/14/96 23:34:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	563.45	.03677	.00236	.00018	-.03060	-.00134	499.06
SDev	2.08	.00685	.00044	.00018	.00253	.00295	1.01
%RSD	.36859	18.637	18.510	104.96	8.2572	220.49	.20237
#1	561.05	.04303	.00193	-.00004	-.02884	.00036	497.90
#2	564.55	.02945	.00235	.00028	-.02945	.00037	499.52
#3	564.74	.03782	.00280	.00029	-.03349	-.00474	499.76
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00590	-.00492	.01200	197.22	.03334	542.87	.01044
SDev	.00182	.00091	.00086	.21	.01448	1.07	.00058
%RSD	30.817	18.428	7.2001	.10650	43.426	.19725	5.5615
#1	.00799	-.00508	.01176	196.98	.02121	541.72	.01077
#2	.00465	-.00395	.01296	197.34	.04937	543.83	.00977
#3	.00506	-.00574	.01129	197.35	.02943	543.08	.01078
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	

Range				20.000		20.000	
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01045	.00591	-.24432	.00943	-.19380	.00888	-.14922
SDev	.00354	.00635	.31152	.00132	.00428	.00004	.02582
%RSD	33.855	107.42	127.51	13.967	2.2074	.41996	17.305
#1	.01430	.01123	-.17912	.01091	-.19073	.00892	-.11973
#2	.00972	.00762	.02945	.00897	-.19869	.00885	-.16776
#3	.00733	-.00112	-.58328	.00840	-.19198	.00887	-.16018
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03087	.01417	.00916	.00240	-.24322	-.56706	.00212
SDev	.00372	.00142	.00036	.00049	.04048	.03157	.00052
%RSD	12.047	10.018	3.9233	20.478	16.642	5.5677	24.343
#1	-.03310	.01542	.00945	.00296	-.21267	-.53069	.00243
#2	-.02658	.01445	.00927	.00222	-.28913	-.58741	.00241
#3	-.03293	.01263	.00875	.00203	-.22786	-.58309	.00153
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	201674	--	--	--	--	--	--
SDev	847.6227	--	--	--	--	--	--
%RSD	.4202928	--	--	--	--	--	--
#1	200715	--	--	--	--	--	--
#2	202322	--	--	--	--	--	--
#3	201986	--	--	--	--	--	--

Method: A Sample Name: ISB Operator: bh
Run Time: 12/14/96 23:38:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	568.87	.04106	.52698	.51002	-.03317	1.0549	505.58
SDev	1.15	.01447	.00061	.00032	.00528	.0035	.55
%RSD	.20206	35.231	.11655	.06352	15.924	.33273	.10915
#1	567.55	.04131	.52704	.51009	-.03923	1.0526	506.21
#2	569.39	.02647	.52634	.50967	-.03068	1.0533	505.32
#3	569.66	.05539	.52756	.51030	-.02959	1.0590	505.20

Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	20.000		20.000	20.000		20.000	20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51076	.49695	.55389	196.89	1.0480	541.09	.50440
SDev	.00162	.00250	.00086	.33	.0170	.24	.00164
%RSD	.31703	.50262	.15546	.16648	1.6248	.04516	.32466
#1	.51221	.49865	.55385	197.22	1.0675	541.30	.50629
#2	.50901	.49810	.55477	196.57	1.0359	541.14	.50346
#3	.51105	.49408	.55305	196.87	1.0407	540.82	.50344

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00482	.99567	-.17676	1.1202	-.13997	.00890	-.13307
SDev	.00493	.00951	.40860	.0021	.01660	.00005	.03160
%RSD	102.19	.95546	231.17	.18553	11.859	.53785	23.744
#1	.01050	1.0017	.23079	1.1215	-.12786	.00895	-.10735
#2	.00231	.98470	-.17466	1.1213	-.13315	.00886	-.16834
#3	.00166	1.0006	-.58640	1.1178	-.15889	.00889	-.12352

Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		20.000		20.000			
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04207	.52141	1.0936	.00219	5.1282	4.7873	.00198
SDev	.01438	.00078	.0014	.00038	.0426	.0144	.00162
%RSD	34.175	.14918	.12916	17.184	.82994	.30094	81.834
#1	-.03084	.52052	1.0920	.00239	5.1750	4.8005	.00378
#2	-.05827	.52171	1.0942	.00241	5.1179	4.7895	.00064
#3	-.03709	.52199	1.0945	.00175	5.0918	4.7720	.00153

Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value		.50000	1.0000		5.0000	5.0000	
Range		20.000	20.000		20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	201194	--	--	--	--	--	--
SDev	1083.772	--	--	--	--	--	--
%RSD	.5386699	--	--	--	--	--	--
#1	200033	--	--	--	--	--	--

#2	202179	--	--	--	--	--	--
#3	201370	--	--	--	--	--	--

Method: A Sample Name: CCV 10 Operator: bh
Run Time: 12/14/96 23:41:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.906	1.0328	10.232	2.4779	4.9499	2.4829	49.054
SDev	.051	.0134	.011	.0026	.0011	.0083	.212
%RSD	.10021	1.2950	.10577	.10435	.02238	.33234	.43130
#1	50.848	1.0400	10.240	2.4750	4.9487	2.4745	48.896
#2	50.944	1.0174	10.219	2.4789	4.9510	2.4910	48.972
#3	50.925	1.0411	10.236	2.4798	4.9499	2.4832	49.294
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0041	4.9639	5.0647	24.909	4.9970	49.509	4.8950
SDev	.0078	.0030	.0093	.026	.0106	.050	.0037
%RSD	.15634	.06124	.18331	.10485	.21235	.10101	.07496
#1	4.9984	4.9605	5.0559	24.879	4.9891	49.453	4.8908
#2	5.0009	4.9664	5.0744	24.926	4.9928	49.550	4.8970
#3	5.0130	4.9647	5.0638	24.923	5.0090	49.523	4.8973
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1101	4.9672	50.830	.99690	51.441	5.0616	10.384
SDev	.0198	.0021	.081	.00145	.389	.0040	.066
%RSD	.38786	.04178	.15953	.14495	.75592	.07872	.63859
#1	5.0875	4.9651	50.850	.99546	51.351	5.0648	10.331
#2	5.1241	4.9674	50.741	.99835	51.867	5.0571	10.362
#3	5.1188	4.9693	50.900	.99690	51.105	5.0628	10.458
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3065	5.0337	5.1658	5.1625	5.0031	5.0375	5.2968
SDev	.0207	.0060	.0039	.0048	.0277	.0103	.0234
%RSD	.39008	.11929	.07645	.09212	.55435	.20420	.44103

#1	5.2849	5.0275	5.1615	5.1584	4.9998	5.0476	5.2772
#2	5.3262	5.0342	5.1693	5.1677	4.9772	5.0271	5.3226
#3	5.3084	5.0394	5.1666	5.1613	5.0323	5.0378	5.2906
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	220653	--	--	--	--	--	--
SDev	816.1476	--	--	--	--	--	--
%RSD	.3698784	--	--	--	--	--	--
#1	220090	--	--	--	--	--	--
#2	221589	--	--	--	--	--	--
#3	220280	--	--	--	--	--	--

Method: A Sample Name: CCB Operator: bh
Run Time: 12/14/96 23:45:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01667	.00326	.00199	.00061	-.00110	-.00042	.01294
SDev	.01501	.00887	.00127	.00029	.00036	.00149	.01426
%RSD	90.042	271.84	63.397	46.831	32.280	350.00	110.20
#1	.03380	-.00558	.00338	.00090	-.00069	.00002	.02936
#2	.01032	.00321	.00171	.00060	-.00132	.00079	.00353
#3	.00587	.01216	.00090	.00033	-.00130	-.00208	.00595
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00280	.00245	.00138	-.00137	.00923	.01943	.00044
SDev	.00175	.00113	.00076	.00675	.01625	.01725	.00054
%RSD	62.267	46.342	54.919	494.09	176.07	88.801	123.67
#1	.00376	.00226	.00181	.00640	.02545	.03263	.00075
#2	.00079	.00142	.00050	-.00584	-.00705	-.00009	-.00019
#3	.00386	.00367	.00182	-.00466	.00930	.02575	.00075
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00285	-.00529	.46933	.00097	-.04173	.00167	.00679

SDev	.00115	.00431	.33246	.00253	.00693	.00001	.00825
%RSD	40.517	81.516	70.839	261.12	16.601	.45661	121.51
#1	.00376	-.00129	.43680	.00171	-.03380	.00167	.01627
#2	.00155	-.00985	.15432	-.00185	-.04479	.00166	.00275
#3	.00322	-.00473	.81685	.00305	-.04659	.00167	.00133
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00913	-.00028	.00120	.00248	-.01155	.00464	.00146
SDev	.01092	.00165	.00111	.00119	.01355	.00805	.00083
%RSD	119.59	591.96	92.444	48.075	117.27	173.41	56.545
#1	.00118	.00046	.00245	.00373	.00201	-.00207	.00229
#2	.00463	.00087	.00032	.00136	-.02509	.00243	.00064
#3	.02157	-.00217	.00084	.00235	-.01158	.01357	.00146
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	217695	--	--	--	--	--	--
SDev	1010.957	--	--	--	--	--	--
%RSD	.4643920	--	--	--	--	--	--
#1	217408	--	--	--	--	--	--
#2	218818	--	--	--	--	--	--
#3	216858	--	--	--	--	--	--

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Brian Hamende

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	S0	P21217B	B	12/17/96	15:29		X	IR
2	S1	P21217B	B	12/17/96	15:33		X	IR
3	S2	P21217B	B	12/17/96	15:36		X	IR
4	S3	P21217B	B	12/17/96	15:39		X	IR
5	ICV	P21217B	B	12/17/96	15:47	BH	Q	CONC
6	ICB	P21217B	B	12/17/96	15:51	BH	Q	CONC
7	CRI	P21217B	B	12/17/96	15:54	BH	Q	CONC
8	ISA	P21217B	B	12/17/96	15:58	BH	Q	CONC
9	ISB	P21217B	B	12/17/96	16:01	BH	Q	CONC
10	CCV	P21217B	B	12/17/96	16:05	BH	Q	CONC
11	CCB	P21217B	B	12/17/96	16:08	BH	Q	CONC
12	9612G967-002 Pb M.S.A.	P21217B	B	12/17/96	16:12	BH	S	CONC
13	9612G967-002+	P21217B	B	12/17/96	16:15	BH	S	CONC
14	9612G967-002++	P21217B	B	12/17/96	16:19	BH	S	CONC
15	9612G967-002+++	P21217B	B	12/17/96	16:22	BH	S	CONC
16	9612G991-019	P21217B	B	12/17/96	16:26	BH	S	CONC
17	9612G991-019+	P21217B	B	12/17/96	16:29	BH	S	CONC
18	9612G991-019++	P21217B	B	12/17/96	16:33	BH	S	CONC
19	9612G991-019+++	P21217B	B	12/17/96	16:37	BH	S	CONC
20	9611G675-004 Pb (25X)	P21217B	B	12/17/96	16:40	BH	S	CONC
21	96GI658-LC1 Cd	P21217B	B	12/17/96	16:44	BH	S	CONC
22	CCV	P21217B	B	12/17/96	16:47	BH	Q	CONC
23	CCB	P21217B	B	12/17/96	16:51	BH	Q	CONC
24	96GI658-LC2 Cd	P21217B	B	12/17/96	16:54	BH	S	CONC
25	96GI664-LC1 HS-(As, Se, Pb, Tl)	P21217B	B	12/17/96	16:57	BH	S	CONC
26	96GI665-LC1 Cd	P21217B	B	12/17/96	17:01	BH	S	CONC
27	CCV	P21217B	B	12/17/96	17:04	BH	Q	CONC
28	CCB	P21217B	B	12/17/96	17:08	BH	Q	CONC
29	96GI622-MB1 II-(Ba-Be-Tl)+Na	P21217B	B	12/17/96	17:12	BH	S	CONC
30	96GI622-LC1	P21217B	B	12/17/96	17:16	BH	S	CONC
31	96GI622-LC2	P21217B	B	12/17/96	17:19	BH	S	CONC
32	9611G512-001 NO Na	P21217B	B	12/17/96	17:23	BH	S	CONC
33	9611G512-002	P21217B	B	12/17/96	17:26	BH	S	CONC
34	9611G512-003	P21217B	B	12/17/96	17:30	BH	S	CONC
35	9611G512-003R	P21217B	B	12/17/96	17:33	BH	S	CONC
36	9611G512-003S	P21217B	B	12/17/96	17:37	BH	S	CONC
37	9611G512-003L	P21217B	B	12/17/96	17:40	BH	S	CONC
38	9611G512-003A	P21217B	B	12/17/96	17:44	BH	S	CONC
39	CCV	P21217B	B	12/17/96	17:47	BH	Q	CONC
40	CCB	P21217B	B	12/17/96	17:50	BH	Q	CONC
41	9611G512-004 NO V	P21217B	B	12/17/96	17:54	BH	S	CONC
42	9611G512-004R	P21217B	B	12/17/96	17:57	BH	S	CONC
43	9611G512-004S	P21217B	B	12/17/96	18:01	BH	S	CONC
44	9611G512-004L	P21217B	B	12/17/96	18:04	BH	S	CONC
45	9611G512-004A	P21217B	B	12/17/96	18:08	BH	S	CONC
46	9611G512-005 NO CR	P21217B	B	12/17/96	18:11	BH	S	CONC
47	9611G512-006 NO V	P21217B	B	12/17/96	18:15	BH	S	CONC
48	9611G512-007 NO NA-ERR	P21217B	B	12/17/96	18:18	BH	S	CONC
49	9611G512-008	P21217B	B	12/17/96	18:22	BH	S	CONC
50	9611G512-009	P21217B	B	12/17/96	18:25	BH	S	CONC
51	CCV	P21217B	B	12/17/96	18:28	BH	Q	CONC
52	CCB	P21217B	B	12/17/96	18:32	BH	Q	CONC
53	9611G512-010 NO V	P21217B	B	12/17/96	18:35	BH	S	CONC

Run 2

126967-2 M.S.A. 2.5, 5.0, 7.5 PPM
cc = 0.99997
m = 1.00964
r = -7.41393 1 point 7.41393 PPM

121991-19 M.S.A. 2.5, 5.0, 7.5 1 point
cc = 0.99998
m = 0.98723
r = -5.3[illegible] 5.38245 PPM

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	9611G512-011 No NA	P21217B	B	12/17/96	18:39	BH	S	CONC
55	9611G512-012	P21217B	B	12/17/96	18:42	BH	S	CONC
56	9611G631-001	P21217B	B	12/17/96	18:46	BH	S	CONC
57	9611G631-001R	P21217B	B	12/17/96	18:49	BH	S	CONC
58	9611G631-001S	P21217B	B	12/17/96	18:53	BH	S	CONC
59	9611G631-001L	P21217B	B	12/17/96	18:56	BH	S	CONC
60	9611G631-001A	P21217B	B	12/17/96	18:59	BH	S	CONC
61	CCV	P21217B	B	12/17/96	19:03	BH	Q	CONC
62	CCB	P21217B	B	12/17/96	19:06	BH	Q	CONC
63	96GE080-MB1 Pb 1cP	P21217B	B	12/17/96	19:10	BH	S	CONC
64	96GE080-MB2	P21217B	B	12/17/96	19:13	BH	S	CONC
65	96GE080-LC1	P21217B	B	12/17/96	19:17	BH	S	CONC
66	96GE080-LC2	P21217B	B	12/17/96	19:20	BH	S	CONC
67	9611G768-002	P21217B	B	12/17/96	19:24	BH	S	CONC
68	9611G768-002R	P21217B	B	12/17/96	19:27	BH	S	CONC
69	9611G768-002S	P21217B	B	12/17/96	19:31	BH	S	CONC
70	9611G768-002L	P21217B	B	12/17/96	19:34	BH	S	CONC
71	9611G768-004	P21217B	B	12/17/96	19:37	BH	S	CONC
72	9611G768-006	P21217B	B	12/17/96	19:41	BH	S	CONC
73	CCV	P21217B	B	12/17/96	19:44	BH	Q	CONC
74	CCB	P21217B	B	12/17/96	19:48	BH	Q	CONC
75	9611G768-008	P21217B	B	12/17/96	19:51	BH	S	CONC
76	9611G768-010	P21217B	B	12/17/96	19:55	BH	S	CONC
77	9611G768-010S	P21217B	B	12/17/96	19:58	BH	S	CONC
78	9611G768-012	P21217B	B	12/17/96	20:02	BH	S	CONC
79	CRI	P21217B	B	12/17/96	20:05	BH	Q	CONC
80	ISA	P21217B	B	12/17/96	20:09	BH	Q	CONC
81	ISB	P21217B	B	12/17/96	20:12	BH	Q	CONC
82	CCV	P21217B	B	12/17/96	20:15	BH	Q	CONC
83	CCB	P21217B	B	12/17/96	20:19	BH	Q	CONC
84	S0	P21217B	B	12/17/96	20:22		X	IR
85	S1	P21217B	B	12/17/96	20:26		X	IR
86	S2	P21217B	B	12/17/96	20:29		X	IR
87	S3	P21217B	B	12/17/96	20:32		X	IR
88	ICV	P21217B	B	12/17/96	20:41	BH	Q	CONC
89	ICB	P21217B	B	12/17/96	20:44	BH	Q	CONC
90	CRI	P21217B	B	12/17/96	20:47	BH	Q	CONC
91	ISA	P21217B	B	12/17/96	20:51	BH	Q	CONC
92	ISB	P21217B	B	12/17/96	20:54	BH	Q	CONC
93	CCV	P21217B	B	12/17/96	20:58	BH	Q	CONC
94	CCB	P21217B	B	12/17/96	21:01	BH	Q	CONC
95	96GI670-MB1	P21217B	B	12/17/96	21:05	BH	S	CONC
96	96GI670-LC1	P21217B	B	12/17/96	21:08	BH	S	CONC
97	96GI670-LC2	P21217B	B	12/17/96	21:12	BH	S	CONC
98	9611G766-001	P21217B	B	12/17/96	21:15	BH	S	CONC
99	9611G766-001R	P21217B	B	12/17/96	21:19	BH	S	CONC
100	9611G766-001S	P21217B	B	12/17/96	21:22	BH	S	CONC
101	9611G766-001L	P21217B	B	12/17/96	21:25	BH	S	CONC
102	9611G766-002	P21217B	B	12/17/96	21:29	BH	S	CONC
103	9611G766-002R	P21217B	B	12/17/96	21:32	BH	S	CONC
104	9611G766-002S	P21217B	B	12/17/96	21:36	BH	S	CONC
105	CCV	P21217B	B	12/17/96	21:39	BH	Q	CONC
106	CCB	P21217B	B	12/17/96	21:43	BH	Q	CONC
107	9611G766-002L	P21217B	B	12/17/96	21:46	BH	S	CONC

Weston Environmental Metrics, Inc.
IC2 - ICAP 61
CLP Cover Sheet

Raw Run/Filename: P2 1217B

Analysis Date: 12/17/96

Standard Traceability:

Calibration Standard Source(s) ID:

Source ID
973 : 974 : 975
976 : 977 : 978
: :

	Book # - Page - Line
ICV Solution #:	2100 - 20 - 7
CCV Solution #:	2100 - 57 - 8
ICSA Solution #:	2100 - 41 - 3
ICSAB Solution #:	2100 - 58 - 2
CRI Solution #:	2100 - 58 - 1

RFW's to Copy:

9611G512	9612G991
9611G631	
9611G768	
9611G766	
9611G675	
9612G967	

Analyst Signature: Brian L Hamende Date: 12/17/96

Reviewer Signature: Douglas Lucas Date: 12/21/96

RFW 21-21G-1579/B-9/95

P21217B

Brian Hamende

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Method: B Standard: S0

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	-.00021	.00002	.00001	.00001	.00000	.00075	.00033
SDev	.00023	.00003	.00001	.00000	.00001	.00003	.00008
%RSD	110.81	114.45	34.564	33.335	458.63	4.0550	24.945
#1	-.00045	.00002	.00001	.00001	-.00001	.00072	.00025
#2	-.00020	.00005	.00002	.00001	.00000	.00078	.00034
#3	.00002	.00000	.00002	.00002	.00002	.00075	.00041

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00004	.00003	.00005	.00012	.00003	.00008	-.00001
SDev	.00006	.00000	.00003	.00004	.00002	.00003	.00001
%RSD	141.71	7.4296	53.954	36.003	62.450	36.856	43.422
#1	.00009	.00003	.00003	.00007	.00001	.00010	-.00002
#2	-.00002	.00004	.00004	.00015	.00004	.00004	-.00001
#3	.00005	.00004	.00008	.00014	.00004	.00009	-.00001

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	-.00000	-.00021	.00003	-.00007	-.00623	.00000	.00010
SDev	.00001	.00002	.00006	.00001	.00006	.00000	.00002
%RSD	458.63	8.0396	233.38	18.162	.89899	.16266	23.043
#1	.00000	-.00023	-.00002	-.00006	-.00628	.00000	.00008
#2	.00000	-.00021	.00000	-.00009	-.00623	.00000	.00013
#3	-.00001	-.00020	.00010	-.00007	-.00617	.00000	.00010

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	-.00005	-.00001	.00007	.00009	.00108	-.00017	.00001
SDev	.00001	.00001	.00001	.00001	.00007	.00002	.00001
%RSD	21.561	57.187	15.118	9.1720	6.8444	11.817	173.21
#1	-.00004	-.00001	.00006	.00008	.00105	-.00019	.00000
#2	-.00005	-.00002	.00006	.00008	.00102	-.00017	.00000
#3	-.00005	-.00000	.00008	.00009	.00116	-.00015	.00002

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222554	--	--	--	--	--	--
SDev	362.2849	--	--	--	--	--	--
%RSD	.1627854	--	--	--	--	--	--
#1	222278	--	--	--	--	--	--
#2	222964	--	--	--	--	--	--
#3	222419	--	--	--	--	--	--

Method: B Standard: S1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.29718	.00172	.04394	.03176	.01489	.03085	.23618
SDev	.00082	.00002	.00014	.00003	.00005	.00002	.00082
%RSD	.27474	1.3748	.32229	.11012	.33018	.07213	.34837

#1	.29733	.00172	.04403	.03177	.01493	.03086	.23608
#2	.29791	.00170	.04401	.03172	.01491	.03088	.23542
#3	.29630	.00175	.04378	.03179	.01483	.03083	.23705

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.10066	.03291	.03726	.17674	.00566	.08068	.01995
SDev	.00023	.00004	.00008	.00034	.00002	.00008	.00002
%RSD	.23361	.10924	.22075	.19275	.32002	.10141	.09841
#1	.10056	.03294	.03730	.17675	.00568	.08077	.01994
#2	.10049	.03287	.03731	.17639	.00564	.08065	.01994
#3	.10093	.03293	.03716	.17708	.00566	.08061	.01997

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.01699	.06005	.00186	.00395	.08706	.01083	.01272
SDev	.00006	.00011	.00004	.00002	.00148	.00003	.00005
%RSD	.36774	.18702	1.9528	.40466	1.6966	.29465	.38950
#1	.01693	.06001	.00190	.00395	.08839	.01086	.01273
#2	.01706	.06017	.00184	.00393	.08733	.01084	.01266
#3	.01699	.05996	.00183	.00397	.08547	.01080	.01276

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.02995	.04226	.03482	.03812	.02320	.00986	.02145
SDev	.00013	.00003	.00002	.00005	.00022	.00004	.00027
%RSD	.42181	.06748	.05911	.12574	.96942	.41064	1.2721
#1	.02982	.04225	.03482	.03813	.02322	.00991	.02159
#2	.02996	.04223	.03480	.03807	.02297	.00984	.02163
#3	.03007	.04229	.03484	.03817	.02342	.00983	.02114

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	228342	--	--	--	--	--	--
SDev	625.0259	--	--	--	--	--	--
%RSD	.2737232	--	--	--	--	--	--
#1	227739	--	--	--	--	--	--
#2	228301	--	--	--	--	--	--
#3	228987	--	--	--	--	--	--

Method: B Standard: S2

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	.75046	.00427	.10947	.07932	.03791	.07605	.59440
SDev	.00170	.00005	.00047	.00011	.00017	.00005	.00137
%RSD	.22718	1.2736	.43427	.13246	.44139	.06084	.23019
#1	.75241	.00422	.11001	.07933	.03810	.07607	.59333
#2	.74974	.00426	.10929	.07942	.03786	.07608	.59594
#3	.74925	.00433	.10912	.07921	.03778	.07600	.59393

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.24806	.08114	.09280	.43551	.01399	.20349	.04940
SDev	.00056	.00025	.00032	.00108	.00005	.00057	.00011
%RSD	.22558	.30954	.34177	.24766	.33297	.28161	.21599
#1	.24778	.08110	.09316	.43575	.01394	.20389	.04937
#2	.24870	.08140	.09262	.43645	.01404	.20373	.04952
#3	.24770	.08091	.09260	.43434	.01398	.20283	.04931

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.04227	.14844	.00462	.00998	.22804	.02695	.03117
SDev	.00013	.00036	.00002	.00002	.00314	.00010	.00012
%RSD	.30917	.24469	.35169	.21058	1.3774	.38379	.39227
#1	.04215	.14870	.00463	.01000	.23157	.02707	.03120
#2	.04241	.14861	.00463	.00998	.22700	.02691	.03128
#3	.04225	.14803	.00460	.00995	.22555	.02687	.03104

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.07422	.10530	.08606	.09526	.05664	.02505	.05395
SDev	.00040	.00020	.00026	.00016	.00020	.00008	.00062
%RSD	.54627	.18916	.29653	.16958	.35628	.30980	1.1414
#1	.07391	.10537	.08629	.09529	.05657	.02497	.05465
#2	.07468	.10546	.08610	.09540	.05687	.02513	.05349
#3	.07406	.10508	.08579	.09508	.05649	.02504	.05371

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223880	--	--	--	--	--	--
SDev	690.0485	--	--	--	--	--	--
%RSD	.3082225	--	--	--	--	--	--
#1	223307	--	--	--	--	--	--
#2	223687	--	--	--	--	--	--
#3	224646	--	--	--	--	--	--

Method: B Standard: S3

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	1.5466	.00865	.22081	.16003	.07755	.15396	1.2014
SDev	.0017	.00007	.00003	.00022	.00031	.00024	.0021
%RSD	.10982	.77152	.01581	.13965	.39761	.15485	.17153
#1	1.5460	.00860	.22084	.16023	.07723	.15422	1.2023
#2	1.5453	.00863	.22077	.15979	.07785	.15376	1.1990
#3	1.5485	.00873	.22082	.16006	.07757	.15390	1.2027

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.49540	.16185	.19065	.86947	.02808	.41704	.09895
SDev	.00090	.00039	.00026	.00089	.00006	.00079	.00017
%RSD	.18138	.24158	.13526	.10254	.21029	.18984	.17670
#1	.49604	.16214	.19095	.86970	.02815	.41787	.09905

#2	.49437	.16141	.19046	.86848	.02806	.41630	.09875
#3	.49579	.16201	.19055	.87022	.02804	.41696	.09906
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Avge	.08461	.29583	.00945	.02037	.47118	.05453	.06160
SDev	.00016	.00105	.00008	.00008	.00439	.00006	.00020
%RSD	.18933	.35518	.88799	.37178	.93236	.11231	.32289
#1	.08467	.29685	.00954	.02046	.47581	.05452	.06182
#2	.08442	.29475	.00939	.02033	.47066	.05448	.06145
#3	.08472	.29589	.00940	.02032	.46708	.05460	.06152
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Avge	.14891	.21324	.17578	.19384	.11440	.05096	.11029
SDev	.00045	.00032	.00061	.00004	.00028	.00015	.00042
%RSD	.30444	.15184	.34965	.02279	.24620	.28833	.38513
#1	.14922	.21359	.17583	.19380	.11444	.05113	.11077
#2	.14839	.21295	.17515	.19382	.11410	.05085	.11008
#3	.14912	.21318	.17637	.19389	.11466	.05090	.11000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	214782	--	--	--	--	--	--
SDev	1112.269	--	--	--	--	--	--
%RSD	.5178596	--	--	--	--	--	--
#1	213541	--	--	--	--	--	--
#2	215116	--	--	--	--	--	--
#3	215689	--	--	--	--	--	--

Method: B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	66.1267	.016852	12/17/96 03:39:47
Sb2068	206.838	Multiple	Standards	238.010	-.005677	12/17/96 03:39:47
Ba4934	493.409	Multiple	Standards	91.0002	-.001308	12/17/96 03:39:47
Be3130	313.042	Multiple	Standards	31.6023	-.000400	12/17/96 03:39:47
B-2496	249.678	Multiple	Standards	131.664	-.000074	12/17/96 03:39:47
Cd2288	228.802	Multiple	Standards	33.4373	-.024979	12/17/96 03:39:47
Ca3179	317.933	Multiple	Standards	84.0683	-.026662	12/17/96 03:39:47
Cr2677	267.716	Multiple	Standards	20.0416	-.000952	12/17/96 03:39:47
Co2286	228.616	Multiple	Standards	61.6862	-.002267	12/17/96 03:39:47
Cu3247	324.754	Multiple	Standards	53.3436	-.002562	12/17/96 03:39:47
Fe2599	259.940	Multiple	Standards	57.1018	-.007719	12/17/96 03:39:47
Pb2203	220.353	Multiple	Standards	349.367	-.010504	12/17/96 03:39:47
Mg2790	279.079	Multiple	Standards	244.207	-.016147	12/17/96 03:39:47
Mn2576	257.610	Multiple	Standards	100.711	.001123	12/17/96 03:39:47
Mo2020	202.030	Multiple	Standards	118.159	.000136	12/17/96 03:39:47
Ni2316	231.604	Multiple	Standards	33.5014	.007023	12/17/96 03:39:47
K-7664	766.491	Multiple	Standards	10809.5	-.289430	12/17/96 03:39:47
Ag3280	328.068	Multiple	Standards	96.3253	.007233	12/17/96 03:39:47

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Na5889	588.995	Multiple	Standards	212.393	1.32439	12/17/96 03:39:47
Sr4215	421.552	Multiple	Standards	184.543	-.000794	12/17/96 03:39:47
Tl1908	190.864	Multiple	Standards	311.465	-.032351	12/17/96 03:39:47
Sn1899	189.989	Multiple	Standards	67.0592	.003142	12/17/96 03:39:47
V-2924	292.402	Multiple	Standards	46.7760	.000611	12/17/96 03:39:47
Zn2138	213.856	Multiple	Standards	57.6853	-.003926	12/17/96 03:39:47
Ti3349	334.941	Multiple	Standards	52.2373	-.004334	12/17/96 03:39:47
As1936	193.696	Multiple	Standards	89.5258	-.096107	12/17/96 03:39:47
Se1960	196.026	Multiple	Standards	192.243	.033250	12/17/96 03:39:47
Li6707	670.784	Multiple	Standards	92.1926	-.000349	12/17/96 03:39:47

Method: B

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	.002883	-.002883
		S1	20.0000	19.6684	.331566
		S2	50.0000	49.6426	.357380
		S3	100.000	102.289	-2.28925

CorCoef: 0.99987

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	S0	.000000	.000021	-.000021
		S1	.400000	.404304	-.004304
		S2	1.00000	1.01063	-.010634
		S3	2.00000	2.05321	-.053213

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	S0	.000000	.000054	-.000054
		S1	4.00000	3.99712	.002881
		S2	10.0000	9.96091	.039092
		S3	20.0000	20.0926	-.092592

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	S0	.000000	.000026	-.000026
		S1	1.00000	1.00331	-.003313
		S2	2.50000	2.50632	-.006323
		S3	5.00000	5.05680	-.056798

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B-2496	249.678	S0	.000000	.000321	-.000321
		S1	2.00000	1.96041	.039594
		S2	5.00000	4.99157	.008429
		S3	10.0000	10.2106	-.210567

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2288	228.802	S0	.000000	.000060	-.000060
		S1	1.00000	1.00670	-.006705
		S2	2.50000	2.51787	-.017869
		S3	5.00000	5.12302	-.123024

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	S0	.000000	.001415	-.001415
		S1	20.0000	19.8288	.171206
		S2	50.0000	49.9434	.056557
		S3	100.000	100.969	-.969147

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	S0	.000000	-.000141	.000141
		S1	2.00000	2.01641	-.016406
		S2	5.00000	4.97058	.029423
		S3	10.0000	9.92763	.072374

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	S0	.000000	-.000142	.000142
		S1	2.00000	2.02808	-.028076
		S2	5.00000	5.00280	-.002801
		S3	10.0000	9.98174	.018260

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.754	S0	.000000	.000154	-.000154
		S1	2.00000	1.98494	.015060
		S2	5.00000	4.94757	.052426
		S3	10.0000	10.1676	-.167554

CorCoef: 0.99989

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2599	259.940	S0	.000000	-.000708	.000708
		S1	10.0000	10.0844	-.084373
		S2	25.0000	24.8610	.139050
		S3	50.0000	49.6403	.359676

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	S0	.000000	-.000041	.000041
		S1	2.00000	1.96628	.033719
		S2	5.00000	4.87649	.123513
		S3	10.0000	9.80075	.199253

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.079	S0	.000000	.002514	-.002514
		S1	20.0000	19.6855	.314524
		S2	50.0000	49.6764	.323566
		S3	100.000	101.829	-1.82858

CorCoef: 0.99991

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	-.000084	.000084
		S1	2.00000	2.01056	-.010565
		S2	5.00000	4.97598	.024023
		S3	10.0000	9.96684	.033159

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000041	.000041
		S1	2.00000	2.00790	-.007900
		S2	5.00000	4.99505	.004955
		S3	10.0000	9.99723	.002770

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000153	.000153
		S1	2.00000	2.01874	-.018744
		S2	5.00000	4.98014	.019861
		S3	10.0000	9.91779	.082211

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K-7664	766.491	S0	.000000	.002128	-.002128
		S1	20.0000	19.7672	.232759
		S2	50.0000	49.6674	.332573
		S3	100.000	101.829	-1.82893

CorCoef: 0.99991

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	.000020	-.000020
		S1	.400000	.387596	.012404
		S2	1.00000	.968138	.031862
		S3	2.00000	1.96921	.030794

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	.001664	-.001664
		S1	20.0000	19.8161	.183922
		S2	50.0000	49.7595	.240543
		S3	100.000	101.401	-1.40069

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	.000035	-.000035
		S1	2.00000	1.99839	.001607
		S2	5.00000	4.97247	.027532
		S3	10.0000	10.0631	-.063097

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	S0	.000000	-.000403	.000403
		S1	4.00000	3.92854	.071459
		S2	10.0000	9.67699	.323011
		S3	20.0000	19.1532	.846754

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	-.000072	.000072
		S1	2.00000	2.01150	-.011495
		S2	5.00000	4.97997	.020031
		S3	10.0000	9.98891	.011089

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V-2924	292.402	S0	.000000	.000050	-.000050
		S1	2.00000	1.97721	.022791
		S2	5.00000	4.92630	.073701
		S3	10.0000	9.97507	.024934

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	.000048	-.000048
		S1	2.00000	2.00462	-.004622
		S2	5.00000	4.96056	.039441
		S3	10.0000	10.1361	-.136142

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	.000126	-.000126
		S1	2.00000	1.98708	.012917
		S2	5.00000	4.97169	.028310
		S3	10.0000	10.1211	-.121084

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1936	193.696	S0	.000000	.000172	-.000172
		S1	2.00000	1.98099	.019012
		S2	5.00000	4.97496	.025040
		S3	10.0000	10.1457	-.145679

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	S0	.000000	.000137	-.000137
		S1	2.00000	1.92909	.070907
		S2	5.00000	4.84833	.151673
		S3	10.0000	9.83021	.169791

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li6707	670.784	S0	.000000	.000203	-.000203
		S1	2.00000	1.97725	.022755
		S2	5.00000	4.97324	.026760
		S3	10.0000	10.1673	-.167293

CorCoef: 0.99993

Method: B Sample Name: ICV Operator: BH
Run Time: 12/17/96 15:47:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.826	.82263	8.0551	1.9975	3.9918	1.9937	40.222
SDev	.108	.00053	.0267	.0017	.0072	.0059	.241
%RSD	.27189	.06430	.33171	.08726	.18139	.29734	.59977
#1	39.788	.82220	8.0691	1.9972	3.9912	1.9868	40.118
#2	39.949	.82322	8.0718	1.9960	3.9993	1.9969	40.049
#3	39.743	.82247	8.0242	1.9994	3.9849	1.9973	40.497

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	.80000	8.0000	2.0000	4.0000	2.0000	40.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0591	4.0240	4.0067	20.118	4.0349	39.683	4.0253
SDev	.0095	.0120	.0119	.043	.0215	.032	.0071
%RSD	.23354	.29924	.29658	.21240	.53283	.08087	.17644
#1	4.0507	4.0130	4.0038	20.083	4.0176	39.646	4.0173
#2	4.0573	4.0223	4.0198	20.104	4.0282	39.706	4.0276
#3	4.0694	4.0369	3.9966	20.165	4.0590	39.696	4.0309
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	20.000	4.0000	40.000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0902	4.0650	40.088	.80043	39.903	4.0479	8.0671
SDev	.0153	.0124	.268	.00241	.514	.0056	.0464
%RSD	.37466	.30458	.66741	.30100	1.2894	.13954	.57532
#1	4.0733	4.0715	40.157	.80238	40.207	4.0522	8.0367
#2	4.0940	4.0507	40.314	.79774	40.193	4.0501	8.1205
#3	4.1032	4.0728	39.793	.80117	39.309	4.0415	8.0441
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	40.000	.80000	40.000	4.0000	8.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1963	4.0528	4.0645	4.0897	4.0279	4.0222	4.0766
SDev	.0351	.0055	.0113	.0028	.0142	.0147	.0435
%RSD	.83575	.13578	.27692	.06952	.35363	.36540	1.0678
#1	4.1578	4.0509	4.0517	4.0921	4.0116	4.0066	4.0909
#2	4.2047	4.0484	4.0692	4.0904	4.0341	4.0358	4.1112
#3	4.2263	4.0589	4.0727	4.0865	4.0379	4.0241	4.0277
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	221308	--	--	--	--	--	--
SDev	177.9026	--	--	--	--	--	--
%RSD	.0803870	--	--	--	--	--	--
#1	221287	--	--	--	--	--	--

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#2	221495	--	--	--	--	--	--
#3	221141	--	--	--	--	--	--

Method: B Sample Name: ICB Operator: BH
Run Time: 12/17/96 15:51:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03385	.00214	.00687	.00168	.01059	.00313	.03633
SDev	.01978	.00124	.00327	.00070	.00313	.00203	.01926
%RSD	58.423	58.093	47.586	41.834	29.572	64.923	53.025
#1	.01146	.00070	.00360	.00103	.00941	.00193	.01683
#2	.04117	.00289	.00687	.00159	.00822	.00199	.03680
#3	.04893	.00282	.01015	.00243	.01413	Q.00548	.05535
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00507	.00363	.00375	.01566	.00058	.03225	.00324
SDev	.00230	.00235	.00290	.00758	.01857	.03197	.00138
%RSD	45.307	64.836	77.329	48.375	3220.0	99.142	42.717
#1	.00357	.00188	.00152	.00796	.00526	.02017	.00203
#2	.00393	.00270	.00271	.01591	-.01989	.00808	.00294
#3	.00772	.00631	.00703	.02311	.01635	.06849	.00475
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00863	.00572	.08322	.00119	.13300	.00252	.00434
SDev	.00212	.00388	.58374	.00174	.01702	.00166	.01482
%RSD	24.569	67.885	701.45	145.91	12.797	65.711	341.54
#1	.00651	.00461	.05097	.00118	.12813	.00087	-.01112
#2	.00863	.01004	-.48373	-.00054	.11894	.00252	.00571
#3	.01075	.00251	.68242	.00293	.15192	.00418	.01843
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00057	.00294	.00314	.00475	-.00978	.00123	.00380
SDev	.00847	.00259	.00167	.00118	.00476	.00735	.00249
%RSD	1475.8	88.022	52.964	24.830	48.702	595.24	65.507

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#1	.00917	.00068	.00125	.00366	-.00912	-.00688	.00131
#2	-.00620	.00238	.00382	.00459	-.01483	.00743	.00379
#3	-.00470	.00577	.00436	.00600	-.00538	.00315	.00628
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222425	--	--	--	--	--	--
SDev	124.8212	--	--	--	--	--	--
%RSD	.0561183	--	--	--	--	--	--
#1	222289	--	--	--	--	--	--
#2	222534	--	--	--	--	--	--
#3	222453	--	--	--	--	--	--

Method: B Sample Name: CRI Operator: BH
Run Time: 12/17/96 15:54:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.39805	.11090	.41174	.01042	.20758	.00992	2.0872
SDev	.00977	.01260	.00103	.00047	.00335	.00100	.0050
%RSD	2.4533	11.358	.24891	4.4870	1.6129	10.068	.23748
#1	.38753	.09903	.41195	.01014	.20399	.00924	2.0822
#2	.40683	.12412	.41062	.01016	.20812	.00946	2.0873
#3	.39980	.10955	.41264	.01096	.21063	.01107	2.0921
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02101	.10345	.05050	.20810	.10470	1.9631	.03205
SDev	.00090	.00211	.00102	.00283	.01530	.0088	.00088
%RSD	4.3021	2.0385	2.0272	1.3589	14.616	.45065	2.7289
#1	.02037	.10150	.04953	.20618	.11199	1.9529	.03114
#2	.02060	.10318	.05040	.20677	.08711	1.9682	.03213
#3	.02204	.10569	.05157	.21135	.11499	1.9682	.03288
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20795	.08272	Q1.4640	.01749	1.9512	.20820	.43233

SDev	.00241	.00511	.0044	.00002	.0209	.00055	.02863
%RSD	1.1587	6.1826	.30271	.13042	1.0725	.26218	6.6216
#1	.20774	.07687	Q1.4637	.01748	1.9502	.20872	.46216
#2	.20565	.08493	Q1.4686	.01751	1.9308	.20763	.42974
#3	.21045	.08635	Q1.4597	.01747	1.9726	.20824	.40508
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21914	.10351	.04049	.20395	.19626	.18671	.20098
SDev	.00405	.00064	.00085	.00024	.01046	.01557	.00196
%RSD	1.8461	.61459	2.1038	.11964	5.3290	8.3384	.97595
#1	.21896	.10286	.03972	.20376	.18424	.18809	.20234
#2	.22327	.10354	.04034	.20387	.20122	.20154	.19873
#3	.21519	.10413	.04140	.20423	.20331	.17049	.20188
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000	.20000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	221931	--	--	--	--	--	--
SDev	560.7736	--	--	--	--	--	--
%RSD	.2526793	--	--	--	--	--	--
#1	221965	--	--	--	--	--	--
#2	221354	--	--	--	--	--	--
#3	222474	--	--	--	--	--	--

Method: B Sample Name: ISA Operator: BH
Run Time: 12/17/96 15:58:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	563.42	.01763	.00159	.00016	-.02217	.00591	514.51
SDev	1.80	.03905	.00026	.00018	.00205	.00086	.78
%RSD	.32022	221.54	16.260	112.79	9.2506	14.526	.15223
#1	561.35	.00545	.00146	.00027	-.02206	.00633	515.39
#2	564.35	.06131	.00143	.00027	-.02018	.00647	514.25
#3	564.58	-.01388	.00189	-.00005	-.02428	.00492	513.89
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00636	-.00478	.00707	197.77	.08816	543.55	.00078
SDev	.00226	.00309	.00299	.35	.03346	.83	.00061
%RSD	35.557	64.630	42.256	.17615	37.956	.15281	78.660
#1	.00897	-.00123	.00974	198.17	.12603	544.48	.00113
#2	.00494	-.00626	.00762	197.64	.07584	542.90	.00114
#3	.00517	-.00686	.00384	197.51	.06260	543.26	.00007
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00721	.01263	-.21530	-.00581	-.10830	.00664	-.15736
SDev	.00333	.00956	.54925	.00438	.04428	.00004	.06130
%RSD	46.144	75.650	255.11	75.320	40.882	.57061	38.958
#1	.01092	.02357	.36725	-.00090	-.06697	.00668	-.15168
#2	.00449	.00591	-.28943	-.00723	-.10291	.00661	-.09909
#3	.00622	.00841	-.72371	-.00930	-.15503	.00662	-.22131
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03437	-.00437	.00817	.00255	-.01463	.09593	.00135
SDev	.00503	.00121	.00126	.00113	.05300	.02338	.00116
%RSD	14.637	27.788	15.466	44.077	362.29	24.370	86.118
#1	-.03505	-.00297	.00959	.00371	.02179	.11402	.00152
#2	-.03903	-.00511	.00715	.00249	-.07543	.10424	.00242
#3	-.02903	-.00503	.00778	.00146	.00975	.06953	.00011
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	198686	--	--	--	--	--	--
SDev	1009.802	--	--	--	--	--	--
%RSD	.5082403	--	--	--	--	--	--
#1	197531	--	--	--	--	--	--
#2	199402	--	--	--	--	--	--
#3	199125	--	--	--	--	--	--

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Method: B Sample Name: ISB Operator: BH
Run Time: 12/17/96 16:01:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	571.02	.00405	.52460	.51559	-.02961	1.0843	519.37
SDev	1.58	.01124	.00139	.00077	.00252	.0021	1.05
%RSD	.27622	277.65	.26568	.15026	8.5133	.19567	.20272
#1	572.24	.01695	.52545	.51648	-.02990	1.0821	519.37
#2	571.59	-.00117	.52536	.51516	-.03198	1.0863	518.32
#3	569.24	-.00363	.52299	.51513	-.02696	1.0845	520.42
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	20.000		20.000	20.000		20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51933	.50258	.55355	198.91	1.1058	546.80	.51121
SDev	.00122	.00148	.00164	.09	.0293	.67	.00146
%RSD	.23577	.29392	.29559	.04318	2.6462	.12301	.28608
#1	.52014	.50307	.55489	198.84	1.1142	547.50	.51009
#2	.51792	.50092	.55402	198.89	1.0733	546.74	.51067
#3	.51993	.50374	.55173	199.01	1.1301	546.15	.51286
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00281	1.0248	-.47240	1.0969	-.11991	.00669	-.18037
SDev	.00530	.0050	.38579	.0024	.01875	.00003	.03040
%RSD	188.45	.48844	81.665	.21514	15.640	.40392	16.853
#1	.00892	1.0246	-.83927	1.0958	-.13734	.00672	-.20465
#2	-.00049	1.0298	-.50779	1.0996	-.10007	.00666	-.14627
#3	.00000	1.0198	-.07014	1.0953	-.12231	.00669	-.19018
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		20.000		20.000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04057	.51437	1.0776	.00159	5.4344	5.3963	.00121
SDev	.00673	.00012	.0042	.00033	.0247	.0163	.00107
%RSD	16.591	.02234	.39410	21.033	.45445	.30146	88.878
#1	-.03461	.51424	1.0820	.00147	5.4583	5.4105	.00059
#2	-.03923	.51446	1.0773	.00133	5.4089	5.3998	.00244
#3	-.04787	.51442	1.0735	.00197	5.4360	5.3786	.00059
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK

Value		.50000	1.0000		5.0000	5.0000	
Range		20.000	20.000		20.000	20.000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	197258	--	--	--	--	--	--
SDev	712.6802	--	--	--	--	--	--
%RSD	.3612934	--	--	--	--	--	--
#1	196594	--	--	--	--	--	--
#2	198011	--	--	--	--	--	--
#3	197169	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 16:05:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.574	1.0259	10.094	2.4893	5.0030	2.5132	50.931
SDev	.087	.0290	.020	.0019	.0128	.0062	.073
%RSD	.17201	2.8249	.19430	.07787	.25510	.24793	.14417
#1	50.672	1.0585	10.102	2.4903	4.9904	2.5165	51.016
#2	50.541	1.0031	10.109	2.4870	5.0159	2.5172	50.883
#3	50.508	1.0162	10.072	2.4904	5.0028	2.5060	50.895
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0724	5.0289	5.0465	25.133	5.0688	49.801	5.0390
SDev	.0059	.0060	.0041	.012	.0070	.112	.0032
%RSD	.11681	.12008	.08115	.04661	.13800	.22408	.06294
#1	5.0729	5.0350	5.0494	25.145	5.0769	49.906	5.0397
#2	5.0662	5.0288	5.0482	25.121	5.0651	49.684	5.0356
#3	5.0780	5.0229	5.0418	25.132	5.0646	49.813	5.0418
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0939	5.0803	49.972	1.0089	48.564	5.0599	10.034
SDev	.0091	.0085	.246	.0035	.328	.0165	.071
%RSD	.17831	.16772	.49288	.34200	.67578	.32680	.70471
#1	5.0847	5.0835	49.689	1.0050	48.562	5.0573	10.110
#2	5.1028	5.0868	50.138	1.0111	48.893	5.0776	9.9709

#3	5.0942	5.0707	50.088	1.0108	48.237	5.0448	10.020
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2181	5.0873	5.0459	5.1085	5.0470	5.0688	5.0841
SDev	.0178	.0019	.0066	.0068	.0374	.0130	.0211
%RSD	.34173	.03657	.13047	.13239	.74046	.25704	.41463
#1	5.2048	5.0894	5.0527	5.1163	5.0898	5.0669	5.0828
#2	5.2384	5.0863	5.0396	5.1047	5.0300	5.0568	5.1058
#3	5.2113	5.0861	5.0452	5.1046	5.0211	5.0826	5.0637
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	217932	--	--	--	--	--	--
SDev	1100.570	--	--	--	--	--	--
%RSD	.5050054	--	--	--	--	--	--
#1	216718	--	--	--	--	--	--
#2	218215	--	--	--	--	--	--
#3	218864	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 16:08:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05537	.00367	.00282	.00074	.00552	.00111	.05232
SDev	.02004	.01623	.00082	.00029	.00138	.00028	.02443
%RSD	36.198	442.66	28.957	39.405	24.969	25.411	46.695
#1	.06948	-.00571	.00364	.00104	.00472	.00132	.06857
#2	.03243	.02240	.00200	.00046	.00473	.00123	.02422
#3	.06421	-.00569	.00282	.00073	.00711	.00079	.06417
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00215	-.00078	.00163	.02338	-.00794	.05594	.00143
SDev	.00051	.00171	.00056	.01271	.01086	.02790	.00053
%RSD	23.542	218.73	34.209	54.377	136.74	49.868	36.922

#1	.00161	-.00228	.00130	Q.03524	-.02018	.06910	.00204
#2	.00261	-.00115	.00132	.00996	-.00419	.02390	.00113
#3	.00225	.00108	.00228	.02494	.00055	.07482	.00113
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00621	.00083	-.09302	.00025	.05038	.00088	-.00018
SDev	.00163	.00494	.09852	.00131	.02355	.00000	.00691
%RSD	26.284	593.54	105.91	519.10	46.749	.42283	3741.6
#1	.00656	.00369	-.09352	-.00104	.06178	.00088	.00301
#2	.00443	-.00487	.00575	.00023	.02330	.00089	-.00811
#3	.00765	.00368	-.19128	.00157	.06607	.00088	.00455
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00428	.00216	.00061	.00278	-.00249	-.01128	.00104
SDev	.00370	.00234	.00028	.00046	.00588	.01558	.00128
%RSD	86.562	108.33	45.189	16.487	235.58	138.22	122.35
#1	.00070	-.00017	.00076	.00324	-.00717	-.02800	.00132
#2	.00809	.00215	.00029	.00232	-.00442	-.00868	-.00035
#3	.00404	.00451	.00078	.00278	.00410	.00285	.00216
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	220232	--	--	--	--	--	--
SDev	489.7064	--	--	--	--	--	--
%RSD	.2223590	--	--	--	--	--	--
#1	220701	--	--	--	--	--	--
#2	219724	--	--	--	--	--	--
#3	220272	--	--	--	--	--	--

Method: B Sample Name: 9612G967-002 Operator: BH
Run Time: 12/17/96 16:12:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

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#3	-.01191	7.6850	9.1264	.00641	8.3048	8.8011	8.0857
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	192219	--	--	--	--	--	--
SDev	934.2489	--	--	--	--	--	--
%RSD	.4860336	--	--	--	--	--	--
#1	191150	--	--	--	--	--	--
#2	192879	--	--	--	--	--	--
#3	192628	--	--	--	--	--	--

Method: B Sample Name: 9611G675-004 (25X) Operator: BH
Run Time: 12/17/96 16:40:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.2061	.00822	.03129	.00127	.00088	.00213	1.7167
SDev	.0193	.02252	.00278	.00073	.00323	.00041	.1741
%RSD	.60319	273.95	8.8850	57.723	368.55	19.169	10.144
#1	3.1850	-.00580	.03446	.00211	-.00283	.00213	1.9164
#2	3.2229	-.00373	.02929	.00100	.00302	.00253	1.6368
#3	3.2106	.03420	.03012	.00072	.00244	.00172	1.5968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00563	.00152	.00745	2.9622	6.5936	.78950	.10925
SDev	.00105	.00137	.00106	.0119	.0300	.00915	.00192
%RSD	18.747	90.137	14.242	.40183	.45547	1.1584	1.7527
#1	.00668	.00136	.00823	2.9759	6.6179	.79740	.11141
#2	.00564	.00296	.00789	2.9541	6.6028	.79163	.10856
#3	.00457	.00024	.00624	2.9567	6.5600	.77948	.10777
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00158	.00210	.17375	-.00037	.59650	.01860	.00040
SDev	.00105	.00266	.21442	.00235	.19833	.00181	.01073
%RSD	66.064	126.74	123.41	645.00	33.249	9.7272	2697.7

#1	.00054	.00475	-.04799	-.00055	.81964	.02064	-.00698
#2	.00158	.00211	.38001	.00208	.52954	.01798	-.00454
#3	.00263	-.00057	.18923	-.00262	.44032	.01718	.01271
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01125	.00664	.01944	.00909	.00148	-.01227	.00430
SDev	.00377	.00304	.00148	.00040	.00339	.01296	.00187
%RSD	33.525	45.757	7.6203	4.3984	229.17	105.63	43.558
#1	-.00829	.01014	.02113	.00871	-.00111	-.01913	.00624
#2	-.00995	.00467	.01883	.00951	.00532	.00268	.00414
#3	-.01549	.00510	.01836	.00906	.00023	-.02035	.00251
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225249	--	--	--	--	--	--
SDev	1210.501	--	--	--	--	--	--
%RSD	.5374048	--	--	--	--	--	--
#1	223858	--	--	--	--	--	--
#2	226061	--	--	--	--	--	--
#3	225829	--	--	--	--	--	--

Method: B Sample Name: 96GI658-LC1 Operator: BH
Run Time: 12/17/96 16:44:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7982	.42043	1.8961	.04435	.92114	.04807	8.9761
SDev	.0016	.00904	.0022	.00009	.00150	.00171	.0110
%RSD	.09052	2.1504	.11701	.19496	.16282	3.5583	.12303
#1	1.7968	.43084	1.8937	.04444	.91967	.04914	8.9828
#2	1.7979	.41582	1.8964	.04427	.92109	.04610	8.9821
#3	1.8000	.41461	1.8981	.04433	.92267	.04898	8.9633
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.18577	.45174	.23138	.91448	.43514	8.7874	.45777
SDev	.00169	.00149	.00067	.00219	.00052	.0289	.00017
%RSD	.90931	.32889	.28737	.23905	.11888	.32879	.03619
#1	.18771	.45339	.23200	.91603	.43553	8.7960	.45788
#2	.18466	.45132	.23147	.91543	.43455	8.7551	.45758
#3	.18493	.45051	.23068	.91198	.43534	8.8110	.45785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.24000	.60000	.30000	1.2000	.60000	12.000	.60000
Low	.16000	.40000	.20000	.80000	.40000	8.0000	.40000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91728	.45318	9.2118	.04082	8.8697	.97129	1.8220
SDev	.00177	.00235	.2001	.00172	.2285	.00076	.0091
%RSD	.19311	.51822	2.1726	4.2157	2.5758	.07864	.49815
#1	.91788	.45369	9.1866	.04271	8.6839	.97158	1.8175
#2	.91867	.45062	9.4234	.04040	8.8004	.97043	1.8159
#3	.91529	.45524	9.0255	L.03935	9.1248	.97187	1.8324
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	12.000	.06000	12.000	1.2000	2.4000
Low	.80000	.40000	8.0000	.04000	8.0000	.80000	1.6000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91466	.45987	.43745	.92683	1.7769	1.7782	.49111
SDev	.00765	.00162	.00251	.00082	.0037	.0213	.01508
%RSD	.83617	.35136	.57496	.08892	.20957	1.1997	3.0703
#1	.91277	.46140	.43945	.92758	1.7812	1.7757	.47769
#2	.90814	.46003	.43463	.92697	1.7750	1.8007	.48823
#3	.92308	.45818	.43827	.92595	1.7746	1.7583	.50743
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	.60000	1.2000	2.4000	2.4000	.60000
Low	.80000	.40000	.40000	.80000	1.6000	1.6000	.40000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	217305	--	--	--	--	--	--
SDev	2537.664	--	--	--	--	--	--
%RSD	1.167789	--	--	--	--	--	--
#1	214457	--	--	--	--	--	--
#2	218132	--	--	--	--	--	--
#3	219326	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 16:47:33

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Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.321	1.0195	10.014	2.4933	4.9773	2.5181	50.729
SDev	.142	.0162	.032	.0022	.0167	.0140	.363
%RSD	.28206	1.5858	.31529	.08746	.33583	.55784	.71575
#1	50.208	1.0367	9.9908	2.4908	4.9592	2.5343	51.146
#2	50.275	1.0171	10.001	2.4941	4.9806	2.5087	50.560
#3	50.481	1.0047	10.050	2.4950	4.9921	2.5114	50.482
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1069	5.0454	5.0682	25.267	5.0643	50.077	5.0976
SDev	.0182	.0191	.0255	.057	.0575	.062	.0109
%RSD	.35681	.37905	.50242	.22524	1.1356	.12420	.21391
#1	5.1272	5.0662	5.0408	25.333	5.1306	50.125	5.1102
#2	5.0919	5.0286	5.0727	25.229	5.0281	50.007	5.0917
#3	5.1015	5.0413	5.0912	25.241	5.0341	50.101	5.0909
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1014	5.1095	50.154	1.0141	46.719	5.0429	10.116
SDev	.0158	.0268	.563	.0037	.260	.0129	.071
%RSD	.31008	.52398	1.1227	.36962	.55678	.25594	.69708
#1	5.1134	5.1402	50.769	1.0184	46.783	5.0290	10.151
#2	5.0835	5.0979	49.664	1.0126	46.433	5.0452	10.163
#3	5.1074	5.0906	50.029	1.0114	46.941	5.0546	10.035
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2595	5.0929	5.0632	5.0773	5.0804	5.1046	5.0388
SDev	.0443	.0082	.0295	.0048	.0205	.0148	.0653
%RSD	.84188	.16004	.58243	.09360	.40449	.28924	1.2961
#1	5.3095	5.1022	5.0969	5.0792	5.0793	5.1215	4.9941
#2	5.2253	5.0869	5.0505	5.0808	5.1015	5.0982	5.0084
#3	5.2437	5.0897	5.0422	5.0718	5.0604	5.0942	5.1137
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222380	--	--	--	--	--	--
SDev	2642.359	--	--	--	--	--	--
%RSD	1.188216	--	--	--	--	--	--
#1	219330	--	--	--	--	--	--
#2	223966	--	--	--	--	--	--
#3	223845	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 16:51:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02889	.00205	.00274	.00072	.00756	.00059	.01470
SDev	.01253	.00799	.00084	.00001	.00416	.00077	.00306
%RSD	43.372	388.58	30.647	.77714	55.043	131.80	20.801
#1	.03719	-.00357	.00358	.00073	.01231	.00106	.01813
#2	.03500	.01119	.00274	.00073	.00579	-.00030	.01372
#3	.01448	-.00146	.00190	.00072	.00458	.00100	.01225
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00140	-.00081	.00084	.00736	-.01099	.00964	.00187
SDev	.00041	.00064	.00051	.00189	.01846	.01371	.00025
%RSD	28.989	79.396	61.184	25.694	167.98	142.19	13.587
#1	.00095	-.00007	.00102	.00916	.00196	.02546	.00158
#2	.00173	-.00118	.00123	.00754	-.00280	.00237	.00202
#3	.00153	-.00119	.00026	.00539	-.03213	.00110	.00201
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00540	.00245	-.38410	-.00189	.11838	.00085	-.01268
SDev	.00281	.00373	.33345	.00128	.00468	.00001	.03724
%RSD	52.046	152.45	86.814	67.694	3.9568	1.5016	293.71
#1	.00754	.00252	.00093	-.00224	.11297	.00086	.00686
#2	.00644	-.00132	-.57789	-.00047	.12092	.00085	.01072
#3	.00222	.00614	-.57534	-.00295	.12123	.00083	-.05562

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00128	.00109	.00051	.00202	.00776	-.02139	.00074
SDev	.00541	.00113	.00029	.00076	.01510	.00390	.00047
%RSD	423.99	103.74	56.526	37.569	194.69	18.219	63.748
#1	.00223	.00237	.00072	.00269	.02515	-.02219	.00048
#2	.00616	.00068	.00018	.00217	.00009	-.02482	.00129
#3	-.00455	.00022	.00063	.00119	-.00197	-.01715	.00046
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225016	--	--	--	--	--	--
SDev	1744.570	--	--	--	--	--	--
%RSD	.7753106	--	--	--	--	--	--
#1	223365	--	--	--	--	--	--
#2	224841	--	--	--	--	--	--
#3	226841	--	--	--	--	--	--

Method: B Sample Name: 96GI658-LC2 Operator: BH
Run Time: 12/17/96 16:54:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8017	.42208	1.8730	.04446	.89804	.04812	9.1946
SDev	.0094	.00348	.0086	.00012	.01166	.00078	.0551
%RSD	.52067	.82532	.45935	.26662	1.2988	1.6297	.59916
#1	1.7941	.42608	1.8829	.04449	.89609	.04746	9.1597
#2	1.8122	.41968	1.8685	.04456	.91056	.04899	9.2581
#3	1.7988	.42049	1.8676	.04433	.88748	.04792	9.1659
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18593	.45184	.23142	.95594	.42500	8.7532	.46058
SDev	.00100	.00295	.00103	.00269	.01773	.0189	.00132
%RSD	.53676	.65328	.44451	.28175	4.1711	.21607	.28756
#1	.18537	.45001	.23206	.95524	.42420	8.7631	.45960

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Avge	227901	--	--	--	--	--	--
SDev	1290.873	--	--	--	--	--	--
%RSD	.5664194	--	--	--	--	--	--
#1	226454	--	--	--	--	--	--
#2	228313	--	--	--	--	--	--
#3	228935	--	--	--	--	--	--

Method: B Sample Name: 96GI665-LC1 Operator: BH
Run Time: 12/17/96 17:01:26
Comment:
Mode: CONC Corr. Factor: 1

cd

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8446	.44703	1.9351	.04478	.93868	.05014	9.3480
SDev	.0105	.00546	.0081	.00009	.00333	.00103	.0680
%RSD	.57060	1.2221	.41672	.21004	.35433	2.0530	.72761
#1	1.8325	.44171	1.9430	.04473	.93653	.04922	9.2711
#2	1.8500	.45262	1.9269	.04489	.93701	.04997	9.3729
#3	1.8514	.44675	1.9355	.04472	.94251	.05125	9.4001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19594	.47353	.23562	.95288	.46399	9.0865	.47786
SDev	.00177	.00070	.00097	.00272	.01095	.0306	.00269
%RSD	.90344	.14728	.41132	.28522	2.3591	.33632	.56286
#1	.19391	.47273	.23630	.94974	.45135	9.0573	.47496
#2	.19671	.47381	.23451	.95460	.47036	9.0839	.47836
#3	.19719	.47404	.23605	.95428	.47027	9.1183	.48027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.24000	.60000	.30000	1.2000	.60000	12.000	.60000
Low	.16000	.40000	.20000	.80000	.40000	8.0000	.40000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95909	.47751	9.0836	.04378	8.5045	.99841	1.9189
SDev	.00436	.00860	.4265	.00046	.0799	.00305	.0313
%RSD	.45444	1.8022	4.6955	1.0508	.93990	.30532	1.6296
#1	.95461	.46766	8.7051	.04410	8.5742	1.0015	1.9533
#2	.95933	.48125	9.0000	.04325	8.4172	.99536	1.8922
#3	.96332	.48361	9.5458	.04399	8.5220	.99843	1.9112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	12.000	.06000	12.000	1.2000	2.4000
Low	.80000	.40000	8.0000	.04000	8.0000	.80000	1.6000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96417	.48016	.45105	.95759	1.8607	1.8104	.47218
SDev	.00910	.00123	.00088	.00161	.0202	.0132	.00552
%RSD	.94423	.25700	.19558	.16863	1.0861	.73088	1.1686
#1	.95376	.47883	.45086	.95894	1.8671	1.7953	.47643
#2	.96809	.48037	.45029	.95803	1.8381	1.8194	.46594
#3	.97065	.48127	.45202	.95580	1.8769	1.8166	.47416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	.60000	1.2000	2.4000	2.4000	.60000
Low	.80000	.40000	.40000	.80000	1.6000	1.6000	.40000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223720	--	--	--	--	--	--
SDev	427.5913	--	--	--	--	--	--
%RSD	.1911282	--	--	--	--	--	--
#1	223532	--	--	--	--	--	--
#2	223418	--	--	--	--	--	--
#3	224209	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 17:04:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.441	1.0276	10.076	2.4966	4.9896	2.5168	50.830
SDev	.105	.0121	.013	.0029	.0122	.0067	.293
%RSD	.20870	1.1791	.12701	.11419	.24395	.26737	.57599
#1	50.324	1.0146	10.076	2.4955	4.9984	2.5093	50.510
#2	50.468	1.0386	10.089	2.4945	4.9947	2.5187	50.894
#3	50.530	1.0297	10.063	2.4999	4.9757	2.5223	51.085
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1197	5.0483	5.0847	25.285	5.0780	50.233	5.1067
SDev	.0063	.0072	.0093	.020	.0067	.099	.0046
%RSD	.12357	.14268	.18269	.07871	.13223	.19663	.08969
#1	5.1151	5.0564	5.0801	25.308	5.0775	50.119	5.1074
#2	5.1171	5.0428	5.0954	25.273	5.0850	50.295	5.1018
#3	5.1269	5.0456	5.0786	25.274	5.0716	50.285	5.1108
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0930	5.1091	50.265	1.0141	46.565	5.0637	10.190
SDev	.0104	.0114	.442	.0018	.359	.0059	.088
%RSD	.20353	.22346	.87930	.17793	.77019	.11654	.86688
#1	5.0823	5.1117	49.829	1.0121	46.693	5.0631	10.280
#2	5.1030	5.0967	50.713	1.0156	46.842	5.0699	10.187
#3	5.0937	5.1191	50.252	1.0147	46.160	5.0581	10.103
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3067	5.1052	5.0449	5.0751	5.1320	5.1109	5.0711
SDev	.0170	.0015	.0077	.0058	.0302	.0106	.0332
%RSD	.32030	.03018	.15174	.11333	.58833	.20761	.65453
#1	5.3201	5.1040	5.0379	5.0769	5.1019	5.1096	5.0384
#2	5.3125	5.1048	5.0531	5.0797	5.1623	5.1010	5.1048
#3	5.2876	5.1070	5.0437	5.0686	5.1319	5.1221	5.0699
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	222797	--	--	--	--	--	--
SDev	935.8050	--	--	--	--	--	--
%RSD	.4200259	--	--	--	--	--	--
#1	221718	--	--	--	--	--	--
#2	223387	--	--	--	--	--	--
#3	223286	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 17:08:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03147	.01362	.00364	.00099	.00904	.00159	.01611
SDev	.01526	.01224	.00022	.00001	.00387	.00177	.00241
%RSD	48.504	89.892	5.9432	1.0627	42.868	111.63	14.972
#1	.04702	.01527	.00389	.00098	.01151	-.00041	.01843
#2	.03088	.02496	.00354	.00100	.01103	.00296	.01361
#3	.01651	.00064	.00350	.00099	.00457	.00221	.01629

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	-.00046	.00113	.01019	-.00951	.00829	.00231
SDev	.00025	.00056	.00051	.00059	.01167	.00965	.00051
%RSD	36.136	121.08	45.202	5.7987	122.61	116.36	22.028
#1	.00055	.00016	.00072	.01038	-.00133	.00752	.00290
#2	.00056	-.00063	.00170	.00952	-.00434	-.00095	.00202
#3	.00099	-.00092	.00096	.01066	-.02287	.01830	.00201
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00378	.00328	-.27413	-.00182	.13043	.00083	.00014
SDev	.00137	.00153	.19299	.00045	.02780	.00001	.00807
%RSD	36.148	46.676	70.401	24.679	21.317	.92496	5875.0
#1	.00533	.00290	-.09934	-.00207	.11235	.00083	.00073
#2	.00328	.00197	-.48124	-.00130	.11649	.00084	.00789
#3	.00274	.00496	-.24182	-.00209	.16244	.00083	-.00821
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00995	.00244	.00082	.00258	.00013	-.01084	.00155
SDev	.00406	.00096	.00060	.00046	.00943	.02176	.00125
%RSD	40.807	39.433	72.627	17.632	7028.1	200.72	80.744
#1	-.00743	.00355	.00013	.00302	.01097	.01218	.00127
#2	-.01463	.00189	.00119	.00262	-.00435	-.01363	.00292
#3	-.00779	.00187	.00114	.00211	-.00621	-.03107	.00046
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	226635	--	--	--	--	--	--
SDev	1071.416	--	--	--	--	--	--
%RSD	.4727497	--	--	--	--	--	--
#1	227456	--	--	--	--	--	--

#2	225423	--	--	--	--	--	--
#3	227026	--	--	--	--	--	--

Method: B Sample Name: 96GI622-MB1 Operator: BH
Run Time: 12/17/96 17:12:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00776	-.00064	.00022	-.00001	.01315	-.00061	.02209
SDev	.00188	.00505	.00024	.00016	.00210	.00061	.00355
%RSD	24.198	786.51	110.22	3031.7	15.982	98.733	16.059
#1	.00866	.00519	.00036	-.00009	.01260	-.00123	.01802
#2	.00560	-.00352	-.00006	.00018	.01138	-.00059	.02375
#3	.00901	-.00360	.00034	-.00010	.01548	-.00002	.02450
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.10000	.05000	.00500	.05000	.00500	.10000
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.00500	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	-.00142	.00003	-.00016	-.00259	.00094	-.00010
SDev	.00064	.00101	.00073	.00030	.01308	.00564	.00052
%RSD	2465.5	71.017	2254.7	192.67	505.40	599.67	514.44
#1	-.00004	-.00170	-.00061	.00013	-.01696	-.00385	.00020
#2	-.00058	-.00227	-.00012	-.00014	.00861	-.00049	.00020
#3	.00070	-.00030	.00083	-.00047	.00059	.00716	-.00071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.02000	.02000	.03000	.05000	.20000	.01000
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00121	-.00552	-.19130	-.00098	.17951	.00005	.01580
SDev	.00215	.00297	.26104	.00206	.01191	.00000	.01017
%RSD	177.95	53.901	136.46	209.31	6.6337	8.4244	64.359
#1	-.00095	-.00648	-.48752	-.00336	.16937	.00005	.01542
#2	.00122	-.00218	-.09149	.00018	.19262	.00005	.02616
#3	.00335	-.00789	.00512	.00023	.17655	.00004	.00583
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Low	-.10000	-.02000	-2.0000	-.01000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00555	-.00151	-.00014	.00036	.00352	-.01608	-.00007
SDev	.00954	.00155	.00014	.00036	.00876	.00464	.00128
%RSD	171.86	102.51	98.251	100.71	249.30	28.874	1767.5

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%RSD	.7016661	--	--	--	--	--	--
#1	206833	--	--	--	--	--	--
#2	209042	--	--	--	--	--	--
#3	209599	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 17:47:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.467	1.0333	10.191	2.4804	4.9889	2.5123	51.530
SDev	.104	.0057	.022	.0068	.0123	.0070	.308
%RSD	.20658	.54872	.21591	.27476	.24700	.27961	.59773
#1	50.587	1.0398	10.204	2.4876	4.9784	2.5147	51.823
#2	50.399	1.0312	10.166	2.4793	5.0025	2.5178	51.559
#3	50.414	1.0291	10.204	2.4741	4.9859	2.5044	51.209
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0988	5.0064	5.0692	25.055	5.0427	49.894	5.0700
SDev	.0218	.0163	.0086	.066	.0226	.187	.0175
%RSD	.42794	.32529	.16920	.26383	.44830	.37507	.34479
#1	5.1186	5.0233	5.0788	25.121	5.0680	50.094	5.0870
#2	5.1023	5.0051	5.0624	25.056	5.0356	49.864	5.0710
#3	5.0754	4.9908	5.0663	24.989	5.0244	49.724	5.0521
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0500	5.0685	49.858	1.0122	46.832	5.0066	10.019
SDev	.0042	.0337	.652	.0056	.215	.0085	.002
%RSD	.08309	.66498	1.3078	.55741	.45838	.17023	.02088
#1	5.0511	5.1070	50.187	1.0178	46.955	5.0119	10.019
#2	5.0534	5.0442	50.280	1.0124	46.584	4.9968	10.021
#3	5.0453	5.0543	49.107	1.0065	46.957	5.0111	10.017
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2660	5.0814	5.0717	5.0653	5.0523	5.0756	5.0245

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SDev	.0407	.0168	.0134	.0150	.0569	.0416	.0239
%RSD	.77318	.33104	.26352	.29688	1.1264	.81987	.47534
#1	5.3061	5.0987	5.0802	5.0822	5.1149	5.0276	5.0251
#2	5.2672	5.0806	5.0786	5.0533	5.0384	5.1005	5.0004
#3	5.2247	5.0650	5.0563	5.0604	5.0037	5.0988	5.0481
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223176	--	--	--	--	--	--
SDev	767.8463	--	--	--	--	--	--
%RSD	.3440542	--	--	--	--	--	--
#1	222290	--	--	--	--	--	--
#2	223590	--	--	--	--	--	--
#3	223648	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 17:50:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01856	-.00117	.00352	.00090	.00847	.00196	.01600
SDev	.00943	.01414	.00002	.00017	.00354	.00028	.00059
%RSD	50.789	1206.2	.50336	18.311	41.743	14.288	3.6686
#1	.02620	-.01732	.00354	.00100	.00461	.00176	.01667
#2	.00803	.00899	.00351	.00100	.01156	.00184	.01565
#3	.02145	.00482	.00351	.00071	.00924	.00228	.01567
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	-.00045	.00011	.01386	-.01364	.01776	.00202
SDev	.00114	.00063	.00144	.00167	.00311	.00546	.00000
%RSD	1831.5	139.23	1298.4	12.067	22.820	30.745	.15492
#1	-.00076	-.00008	-.00019	.01513	-.01676	.01862	.00202
#2	-.00041	-.00118	-.00115	.01448	-.01054	.01192	.00202
#3	.00136	-.00010	.00168	.01197	-.01362	.02274	.00202
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00502	-.00068	-.48175	-.00199	.14894	.00166	-.00692
SDev	.00120	.00426	.43981	.00174	.01078	.00001	.01708
%RSD	23.852	624.33	91.294	87.114	7.2360	.54320	246.96
#1	.00434	.00047	-.96192	-.00303	.14083	.00167	.01277
#2	.00431	-.00540	-.38487	-.00296	.14482	.00165	-.01575
#3	.00640	.00288	-.09846	.00001	.16117	.00165	-.01777
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	.00128	.00033	.00237	-.00136	-.01614	.00128
SDev	.00342	.00056	.00028	.00025	.00437	.01661	.00141
%RSD	662.45	43.315	82.547	10.690	322.17	102.91	110.00
#1	.00249	.00149	.00018	.00263	.00058	-.01152	.00047
#2	-.00423	.00066	.00017	.00213	.00171	-.03458	.00046
#3	.00019	.00171	.00065	.00236	-.00636	-.00233	.00291
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225987	--	--	--	--	--	--
SDev	827.8231	--	--	--	--	--	--
%RSD	.3663144	--	--	--	--	--	--
#1	225033	--	--	--	--	--	--
#2	226516	--	--	--	--	--	--
#3	226412	--	--	--	--	--	--

Method: B Sample Name: 9611G512-004 Operator: BH
Run Time: 12/17/96 17:54:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.3034	.00896	.09961	-.00001	.45624	.00075	43.163
SDev	.0058	.01330	.00041	.00014	.00227	.00125	.089
%RSD	.44493	148.53	.41566	1215.1	.49654	166.25	.20591
#1	1.2976	-.00355	.09999	-.00015	.45801	.00209	43.062
#2	1.3092	.00748	.09967	.00012	.45702	-.00038	43.230
#3	1.3032	.02293	.09916	-.00001	.45369	.00054	43.196
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	.00121	1.4256	-.00166	592.50	.47938	.02399
SDev	.00277	.00530	.1351	.00107	3.81	.00103	.00956
%RSD	1539.3	438.74	9.4734	64.406	.64259	.21532	39.853
#1	.00019	.00684	1.3796	-.00279	596.68	.48004	.01301
#2	-.00312	.00048	1.5776	-.00066	589.23	.47819	.02852
#3	.00239	-.00370	1.3196	-.00153	591.60	.47991	.03045
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00685	.04580	.00890	.00707	-.01146	-.00806	.00110
SDev	.00892	.00057	.00083	.00084	.00368	.00766	.00051
%RSD	130.18	1.2365	9.2975	11.853	32.097	95.067	46.515
#1	-.00060	.04523	.00900	.00804	-.00790	-.01300	.00143
#2	-.01706	.04636	.00968	.00661	-.01123	-.01195	.00051
#3	-.00289	.04582	.00803	.00657	-.01525	.00077	.00137
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	212148	--	--	--	--	--	--
SDev	4260.954	--	--	--	--	--	--
%RSD	2.008481	--	--	--	--	--	--
#1	207248	--	--	--	--	--	--
#2	214213	--	--	--	--	--	--
#3	214983	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 18:28:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.857	1.0138	10.270	2.4620	4.9896	2.4386	50.272
SDev	.190	.0259	.015	.0089	.0181	.0113	.188
%RSD	.37442	2.5588	.15028	.36078	.36274	.46152	.37484
#1	50.669	.98700	10.263	2.4518	4.9779	2.4259	50.092
#2	51.050	1.0388	10.288	2.4680	5.0105	2.4472	50.467
#3	50.854	1.0155	10.259	2.4662	4.9806	2.4428	50.256

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9553	4.8628	5.1547	24.595	4.8560	50.419	4.9739
SDev	.0200	.0216	.0167	.079	.0176	.243	.0211
%RSD	.40332	.44435	.32315	.32269	.36150	.48245	.42389
#1	4.9340	4.8386	5.1423	24.504	4.8357	50.452	4.9496
#2	4.9736	4.8698	5.1737	24.636	4.8671	50.644	4.9865
#3	4.9584	4.8801	5.1482	24.646	4.8651	50.161	4.9857
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9384	4.9207	51.776	1.0020	53.789	5.0760	9.8418
SDev	.0245	.0293	1.328	.0061	2.357	.0029	.0931
%RSD	.49570	.59531	2.5645	.60936	4.3813	.05652	.94621
#1	4.9101	4.8899	51.449	.99597	Q55.687	5.0727	9.7505
#2	4.9528	4.9482	53.237	1.0082	54.528	5.0774	9.9366
#3	4.9522	4.9240	50.643	1.0018	51.151	5.0780	9.8383
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0458	5.0068	4.8888	5.0235	5.0134	5.0481	5.3442
SDev	.0254	.0128	.0203	.0118	.0320	.0393	.0863
%RSD	.50245	.25549	.41436	.23393	.63740	.77919	1.6156
#1	5.0169	4.9925	4.8657	5.0112	4.9784	5.0062	5.3189
#2	5.0645	5.0170	4.9035	5.0346	5.0409	5.0843	5.4404
#3	5.0560	5.0110	4.8974	5.0248	5.0209	5.0539	5.2734
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225187	--	--	--	--	--	--
SDev	2154.219	--	--	--	--	--	--
%RSD	.9566369	--	--	--	--	--	--
#1	222715	--	--	--	--	--	--

#2	226180	--	--	--	--	--	--
#3	226665	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 18:32:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14578	-.00225	.03130	Q.00718	.02344	Q.00844	Q.16593
SDev	.05833	.01301	.01407	.00335	.00837	.00308	.07491
%RSD	40.010	577.49	44.962	46.668	35.723	36.554	45.144
#1	Q.20782	.00914	.04684	Q.01089	.03299	Q.01192	Q.24889
#2	.13744	.00052	.02764	Q.00627	.01739	Q.00733	Q.14569
#3	.09207	-.01643	.01942	.00438	.01993	Q.00605	Q.10323
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.01530	.01281	.01402	Q.07481	.00901	.16091	Q.01477
SDev	.00714	.00807	.00712	.03524	.01466	.06861	.00713
%RSD	46.701	62.982	50.808	47.105	162.67	42.636	48.307
#1	Q.02327	Q.02170	Q.02184	Q.11329	.02129	Q.23821	Q.02282
#2	Q.01317	.01076	.01229	Q.06704	-.00722	.13729	Q.01226
#3	.00946	.00596	.00792	Q.04411	.01298	.10724	.00923
Errors	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02049	.01024	.11300	.00202	Q.47229	.01484	.03483
SDev	.00559	.00996	.21997	.00164	.12808	.00710	.03473
%RSD	27.272	97.279	194.67	81.236	27.118	47.841	99.736
#1	.02607	Q.02116	.34065	.00389	Q.61014	.02237	.07381
#2	.02048	.00792	-.09839	.00134	Q.44977	.01388	.02348
#3	.01490	.00164	.09673	.00083	Q.35697	.00827	.00718
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01132	Q.01347	Q.01406	Q.01555	.00273	-.00101	.01556
SDev	.00822	.00581	.00698	.00734	.00673	.00916	.00786
%RSD	72.576	43.094	49.680	47.201	246.62	908.64	50.553

#1	.02059	Q.01974	Q.02187	Q.02377	.00907	.00674	.02445
#2	.00491	Q.01239	Q.01186	Q.01321	-.00433	.00136	.01269
#3	.00847	.00828	.00844	.00966	.00344	-.01112	.00953
Errors	QC Pass	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	224430	--	--	--	--	--	--
SDev	1705.507	--	--	--	--	--	--
%RSD	.7599294	--	--	--	--	--	--
#1	223024	--	--	--	--	--	--
#2	226327	--	--	--	--	--	--
#3	223938	--	--	--	--	--	--

Method: B Sample Name: 9611G512-010 Operator: BH
Run Time: 12/17/96 18:35:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01484	-.00684	.00340	.00014	.71843	.00299	59.291
SDev	.01059	.02381	.00077	.00018	.00683	.00056	.306
%RSD	71.311	348.15	22.686	128.59	.95055	18.786	.51634
#1	.00534	.00577	.00387	.00025	.72440	.00335	58.938
#2	.02625	.00801	.00383	.00024	.71098	.00328	59.455
#3	.01294	-.03430	.00251	-.00007	.71990	.00234	59.481
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	40.000	200.00	50.000	100.00	50.000	1000.0
Low	-.20000	-.10000	-.05000	-.00500	-.05000	-.01000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00121	-.00140	.00162	.01076	.01175	63.485	.00261
SDev	.00204	.00087	.00078	.00211	.00853	.167	.00030
%RSD	168.67	61.919	47.873	19.626	72.601	.26371	11.312
#1	.00093	-.00139	.00148	.01156	.00211	63.303	.00279
#2	.00337	-.00228	.00245	.01236	.01832	63.519	.00276
#3	-.00068	-.00054	.00092	.00837	.01483	63.633	.00227
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00366	.00209	1.2513	-.00116	583.48	.47148	.02045

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	50.000	500.00	100.00	1000.0	100.00
Low	-.02000	-.02000	-.02000	-.03000	-.05000	-.20000	-.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19678	.07997	1.4835	.01625	1.9904	.20220	.37335
SDev	.00115	.00405	.2242	.00162	.0158	.00062	.02332
%RSD	.58417	5.0623	15.115	9.9679	.79161	.30692	6.2453
#1	.19679	.08319	1.5824	.01440	1.9742	.20160	.34894
#2	.19562	.08130	1.6412	.01742	1.9912	.20217	.37571
#3	.19792	.07543	1.2268	.01692	2.0056	.20284	.39540

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	1000.0	5.0000	1000.0	100.00	200.00
Low	-.10000	-.02000	-2.0000	-.02000	-.20000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20183	.09819	.04166	.19692	.18884	.17583	.20103
SDev	.00589	.00015	.00088	.00055	.01086	.00299	.00052
%RSD	2.9205	.15027	2.1199	.27885	5.7518	1.7029	.25958
#1	.19523	.09827	.04098	.19674	.17753	.17472	.20054
#2	.20658	.09827	.04266	.19754	.18979	.17922	.20158
#3	.20367	.09802	.04136	.19649	.19919	.17355	.20096

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	25.000	100.00	25.000	100.00	100.00	100.00
Low	-.10000	-.01000	-.01000	-.01000	-.20000	-.20000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	211507	--	--	--	--	--	--
SDev	3182.010	--	--	--	--	--	--
%RSD	1.504444	--	--	--	--	--	--
#1	207890	--	--	--	--	--	--
#2	212758	--	--	--	--	--	--
#3	213874	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 19:03:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.505	1.0159	10.102	2.4715	5.0396	2.4911	51.057
SDev	.056	.0183	.021	.0050	.0020	.0115	.342
%RSD	.11108	1.8052	.21153	.20260	.03991	.46218	.66999

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#1	50.441	1.0009	10.115	2.4662	5.0374	2.4789	50.776
#2	50.532	1.0104	10.077	2.4761	5.0414	2.5017	51.438
#3	50.543	1.0363	10.113	2.4722	5.0398	2.4928	50.957
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0584	4.9522	5.0893	24.950	4.9801	49.947	5.0381
SDev	.0195	.0247	.0044	.070	.0380	.094	.0212
%RSD	.38486	.49964	.08597	.28161	.76340	.18756	.41983
#1	5.0391	4.9321	5.0915	24.891	4.9377	49.873	5.0215
#2	5.0781	4.9799	5.0921	25.028	5.0112	50.052	5.0619
#3	5.0581	4.9447	5.0842	24.930	4.9914	49.915	5.0308
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9960	5.0181	50.066	1.0136	Q44.794	5.0046	9.9439
SDev	.0323	.0284	.538	.0027	.206	.0091	.0545
%RSD	.64608	.56669	1.0754	.26185	.46066	.18163	.54767
#1	4.9613	4.9852	49.488	1.0118	45.007	5.0132	9.8848
#2	5.0252	5.0354	50.553	1.0166	Q44.595	4.9951	9.9547
#3	5.0013	5.0335	50.155	1.0124	Q44.779	5.0053	9.9921
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1860	5.0598	5.0987	5.0376	5.0354	5.0873	5.0657
SDev	.0579	.0130	.0236	.0083	.0228	.0240	.0134
%RSD	1.1163	.25641	.46255	.16451	.45317	.47203	.26375
#1	5.1344	5.0466	5.1189	5.0387	5.0217	5.0648	5.0771
#2	5.2486	5.0725	5.1045	5.0453	5.0617	5.1126	5.0510
#3	5.1751	5.0604	5.0728	5.0288	5.0227	5.0847	5.0691
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	225099	--	--	--	--	--	--
SDev	3040.608	--	--	--	--	--	--

%RSD	1.350787	--	--	--	--	--	--
#1	221935	--	--	--	--	--	--
#2	225363	--	--	--	--	--	--
#3	227999	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 19:06:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10273	.00243	.02483	Q.00572	.01551	Q.00714	Q.12369
SDev	.05063	.00950	.01166	.00288	.00904	.00264	.05723
%RSD	49.281	391.53	46.969	50.379	58.276	36.992	46.268
#1	.15209	-.00252	.03658	Q.00870	.02496	Q.00995	Q.18261
#2	.10517	.01337	.02463	Q.00548	.01460	Q.00675	Q.12013
#3	.05092	-.00358	.01326	.00296	.00696	.00472	.06832
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.01011	.00996	.01149	Q.05370	-.00246	.10527	Q.01169
SDev	.00514	.00536	.00644	.02751	.00688	.04510	.00597
%RSD	50.856	53.826	56.057	51.227	279.71	42.836	51.112
#1	Q.01524	.01553	.01845	Q.08183	.00247	.15213	Q.01755
#2	Q.01014	.00950	.01027	Q.05240	-.01031	.10151	Q.01190
#3	.00495	.00484	.00574	.02686	.00047	.06218	.00561
Errors	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01674	.01179	-.22527	.00040	Q.34207	.01218	.02335
SDev	.00654	.00387	.05556	.00170	.05698	.00594	.02514
%RSD	39.097	32.813	24.663	422.57	16.657	48.743	107.68
#1	.02365	.01401	-.28943	.00209	Q.40441	.01842	.05188
#2	.01592	.01405	-.19313	.00042	Q.32913	.01154	.00444
#3	.01064	.00733	-.19326	-.00131	Q.29268	.00659	.01373
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00586	Q.01107	Q.01053	Q.01144	-.00104	.00013	.01345

SDev	.00547	.00584	.00529	.00553	.01732	.01356	.00759
%RSD	93.348	52.728	50.275	48.305	1671.4	10635.	56.426
#1	.00889	Q.01715	Q.01588	Q.01695	-.00336	-.00543	.02135
#2	.00915	Q.01056	Q.01042	Q.01149	.01733	.01558	.01279
#3	-.00045	.00551	.00529	.00589	-.01708	-.00977	.00621
Errors	QC Pass	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	223415	--	--	--	--	--	--
SDev	2149.013	--	--	--	--	--	--
%RSD	.9618915	--	--	--	--	--	--
#1	220940	--	--	--	--	--	--
#2	224502	--	--	--	--	--	--
#3	224804	--	--	--	--	--	--

Method: B Sample Name: 96GE080-MB1 Operator: BH
Run Time: 12/17/96 19:10:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01866	.00596	.04681	.00019	.04956	.00069	.02182
SDev	.00682	.01689	.00114	.00001	.00346	.00117	.00498
%RSD	36.549	283.28	2.4328	5.0153	6.9709	169.48	22.798
#1	.02267	.00097	.04804	.00020	H.05040	-.00063	.02678
#2	.02253	.02478	.04579	.00018	.04576	.00159	.02185
#3	.01079	-.00787	.04660	.00018	H.05252	.00111	.01683
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.10000	.50000	.00500	.05000	.05000	.10000
Low	-.20000	-.10000	-.50000	-.00500	-.05000	-.05000	-.10000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00183	-.00078	.00063	.01663	.00130	.00635	.00097
SDev	.00115	.00088	.00078	.00204	.00897	.00407	.00027
%RSD	62.723	112.58	124.21	12.276	688.04	64.088	27.339
#1	.00299	-.00000	.00143	.01898	.00743	.00558	.00113
#2	.00181	-.00061	.00061	.01530	.00548	.01074	.00067
#3	.00069	-.00174	-.00014	.01561	-.00900	.00272	.00113
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.02000	.05000	.03000	.05000	.20000	.01000
Low	-.05000	-.02000	-.05000	-.03000	-.05000	-.20000	-.01000

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00216	.01355	.03440	-.00590	-.01441	-.00092	.01864
SDev	.00697	.00067	.00079	.00050	.00915	.01201	.00071
%RSD	322.53	4.9397	2.2869	8.3972	63.502	1307.6	3.7991
#1	-.00241	.01431	.03523	-.00635	-.01467	.00338	.01936
#2	.00493	.01303	.03367	-.00537	-.02342	-.01448	.01795
#3	-.00900	.01333	.03430	-.00598	-.00513	.00835	.01862
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK
High			100.00		100.00	100.00	
Low			-.05000		-.10000	-.20000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	195872	--	--	--	--	--	--
SDev	3807.396	--	--	--	--	--	--
%RSD	1.943815	--	--	--	--	--	--
#1	191776	--	--	--	--	--	--
#2	196538	--	--	--	--	--	--
#3	199303	--	--	--	--	--	--

Method: B Sample Name: CCV Operator: BH
Run Time: 12/17/96 19:44:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.640	1.0244	10.091	2.4659	4.9698	2.5485	53.092
SDev	.028	.0193	.031	.0037	.0203	.0065	.158
%RSD	.05451	1.8833	.30316	.15205	.40885	.25638	.29739
#1	50.671	1.0162	10.126	2.4621	4.9878	2.5426	52.956
#2	50.617	1.0106	10.079	2.4659	4.9478	2.5475	53.265
#3	50.634	1.0465	10.069	2.4696	4.9738	2.5555	53.055
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1330	5.0238	5.0602	25.264	5.0661	50.037	5.0986
SDev	.0151	.0135	.0088	.069	.0194	.018	.0127
%RSD	.29378	.26930	.17365	.27473	.38317	.03649	.24815
#1	5.1159	5.0090	5.0689	25.185	5.0442	50.058	5.0843
#2	5.1391	5.0269	5.0605	25.293	5.0811	50.029	5.1036
#3	5.1441	5.0355	5.0513	25.314	5.0731	50.025	5.1080
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0606	5.0897	50.312	1.0209	49.559	4.9930	10.145
SDev	.0378	.0025	.036	.0005	.515	.0153	.133
%RSD	.74652	.04839	.07106	.04450	1.0383	.30705	1.3100
#1	5.0174	5.0869	50.348	1.0208	50.064	5.0102	10.152
#2	5.0772	5.0907	50.310	1.0215	49.579	4.9884	10.008
#3	5.0873	5.0916	50.277	1.0206	49.035	4.9806	10.274
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3183	5.1064	5.1628	5.0628	5.0664	5.1214	5.0309
SDev	.0347	.0073	.0098	.0138	.0277	.0262	.0058
%RSD	.65205	.14271	.18987	.27301	.54659	.51169	.11464
#1	5.2791	5.0984	5.1594	5.0773	5.0705	5.0920	5.0359
#2	5.3450	5.1127	5.1552	5.0498	5.0368	5.1423	5.0321
#3	5.3307	5.1081	5.1739	5.0613	5.0918	5.1298	5.0246
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	214264	--	--	--	--	--	--
SDev	2203.691	--	--	--	--	--	--
%RSD	1.028492	--	--	--	--	--	--
#1	211760	--	--	--	--	--	--
#2	215126	--	--	--	--	--	--
#3	215907	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 19:48:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05002	.00444	.00997	.00220	.01079	.00399	.06052
SDev	.01688	.01862	.00390	.00094	.00076	.00172	.02091
%RSD	33.750	419.06	39.143	42.936	6.9949	43.189	34.553
#1	.06891	-.00683	.01445	.00323	.01134	Q.00586	.08413
#2	.04474	.02594	.00819	.00199	.00993	.00366	.05314
#3	.03641	-.00577	.00727	.00138	.01111	.00246	.04430

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00511	.00252	.00455	.02225	.00009	.05453	.00466
SDev	.00167	.00195	.00189	.00889	.01433	.01613	.00204
%RSD	32.705	77.433	41.570	39.956	15128.	29.588	43.827
#1	.00640	.00452	.00616	Q.03243	.00299	.06857	.00694
#2	.00571	.00240	.00503	.01833	.01275	.05811	.00400
#3	.00322	.00063	.00247	.01600	-.01546	.03690	.00303
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01009	.00458	.08796	-.00068	Q.21409	.00507	.02009
SDev	.00425	.00887	.58283	.00054	.01412	.00189	.02811
%RSD	42.177	193.57	662.60	79.661	6.5966	37.342	139.95
#1	.01491	.01186	-.08147	-.00107	Q.22623	.00719	.04763
#2	.00686	.00719	.73673	-.00006	Q.21746	.00446	.02119
#3	.00849	-.00530	-.39138	-.00092	.19859	.00356	-.00856
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00209	.00495	.00412	.00629	.00495	-.01447	.00639
SDev	.00561	.00183	.00184	.00257	.00796	.00153	.00190
%RSD	268.07	36.967	44.658	40.866	160.86	10.538	29.754
#1	-.00528	.00706	.00603	.00924	.00721	-.01555	.00852
#2	-.00538	.00379	.00399	.00509	-.00390	-.01273	.00578
#3	.00438	.00401	.00235	.00454	.01154	-.01514	.00487
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	210216	--	--	--	--	--	--
SDev	2108.532	--	--	--	--	--	--
%RSD	1.003033	--	--	--	--	--	--
#1	207914	--	--	--	--	--	--

#2	210679	--	--	--	--	--	--
#3	212054	--	--	--	--	--	--

Method: B Sample Name: 9611G768-008 Operator: BH
Run Time: 12/17/96 19:51:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04381	-.00264	.09171	.00049	.28472	.00251	138.39
SDev	.00359	.01231	.00059	.00040	.00423	.00113	.22
%RSD	8.1938	465.47	.64804	80.771	1.4864	44.900	.15863
#1	.04186	-.01310	.09103	.00008	.28206	.00286	138.20
#2	.04163	-.00576	.09193	.00088	.28251	.00343	138.34
#3	.04796	.01092	.09216	.00052	.28960	.00125	138.63
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	1000.0		200.00			50.000	1000.0
Low	-.50000		-.05000			-.05000	-.50000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00130	.00455	.00224	2.8826	-.00370	36.151	.35563
SDev	.00051	.00110	.00027	.0043	.01354	.084	.00136
%RSD	39.204	24.256	11.921	.14973	365.80	.23264	.38314
#1	.00188	.00379	.00210	2.8785	.01180	36.055	.35406
#2	.00113	.00404	.00206	2.8871	-.00972	36.192	.35657
#3	.00090	.00582	.00254	2.8822	-.01319	36.207	.35625
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	100.00		50.000	500.00	100.00	1000.0	
Low	-.05000		-.05000	-.50000	-.05000	-.50000	

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01132	.01083	13.974	-.00311	216.14	1.6477	.00004
SDev	.00127	.00197	.071	.00124	2.25	.0034	.01513
%RSD	11.171	18.170	.50662	39.776	1.0425	.20697	35713.
#1	.01264	.01153	13.893	-.00388	213.60	1.6467	.00664
#2	.01012	.01235	14.021	-.00376	216.94	1.6448	.01075
#3	.01119	.00861	14.008	-.00168	217.88	1.6514	-.01726
Errors	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00		5.0000			
Low		-.05000		-.05000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00607	.00327	.07069	.00211	.00162	-.00049	.00792
SDev	.00611	.00187	.00033	.00062	.00833	.00623	.00159
%RSD	100.61	57.343	.47269	29.120	515.84	1283.6	20.013

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High			100.00		100.00	100.00	
Low			-.05000		-.10000	-.20000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	184450	--	--	--	--	--	--
SDev	2959.099	--	--	--	--	--	--
%RSD	1.604279	--	--	--	--	--	--
#1	181349	--	--	--	--	--	--
#2	184759	--	--	--	--	--	--
#3	187243	--	--	--	--	--	--

Method: B Sample Name: CRI Operator: BH
Run Time: 12/17/96 20:05:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40029	.12401	.42207	.00984	.20656	Q.01269	Q4.0790
SDev	.00568	.01692	.00728	.00008	.00165	.00026	1.3314
%RSD	1.4197	13.648	1.7253	.76857	.80080	2.0748	32.639
#1	.39761	.11274	.43017	.00992	.20845	Q.01251	Q5.5297
#2	.40682	.14347	.41995	.00982	.20540	Q.01299	Q3.7942
#3	.39645	.11581	.41608	.00977	.20581	Q.01258	Q2.9131
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02208	.10370	.05042	.21038	.10507	2.0456	.03607
SDev	.00164	.00178	.00067	.00123	.00577	.0581	.00264
%RSD	7.4459	1.7211	1.3239	.58480	5.4864	2.8407	7.3307
#1	.02384	.10475	.05012	.20923	.10313	2.1093	Q.03889
#2	.02058	.10471	.05119	.21168	.10053	2.0318	.03569
#3	.02182	.10164	.04996	.21023	.11155	1.9956	.03364
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20469	.08141	1.9075	.01940	Q5.0043	.22466	.42009
SDev	.00314	.00293	.2267	.00115	2.2826	.01263	.00725
%RSD	1.5321	3.5982	11.887	5.9307	45.614	5.6196	1.7260
#1	.20200	.07933	1.7856	.01856	Q7.5146	.23833	.42471
#2	.20813	.08014	1.7677	.01893	Q4.4448	.22222	.42382

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#3	.20392	.08476	2.1691	.02072	Q3.0533	.21344	.41173
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21565	.10295	.04039	.20248	.19401	.20327	.20203
SDev	.00639	.00187	.00011	.00042	.00535	.00650	.00531
%RSD	2.9609	1.8191	.26373	.20722	2.7590	3.1971	2.6269
#1	.22248	.10080	.04034	.20279	.18850	.20126	.20760
#2	.20984	.10425	.04051	.20200	.19918	.19802	.19703
#3	.21463	.10379	.04031	.20264	.19435	.21054	.20147
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000	.20000
Range	25.000	25.000	25.000	25.000	25.000	25.000	25.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	209868	--	--	--	--	--	--
SDev	1366.164	--	--	--	--	--	--
%RSD	.6509626	--	--	--	--	--	--
#1	208371	--	--	--	--	--	--
#2	210187	--	--	--	--	--	--
#3	211047	--	--	--	--	--	--

Method: B Sample Name: ISA Operator: BH
Run Time: 12/17/96 20:09:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	569.00	-.01167	.00325	-.00001	-.02438	.00746	531.26
SDev	1.86	.00292	.00060	.00001	.00405	.00083	1.59
%RSD	.32772	25.036	18.318	108.33	16.604	11.139	.29910
#1	567.52	-.00990	.00362	.00000	-.02277	.00709	529.72
#2	568.40	-.01504	.00356	-.00002	-.02898	.00841	531.16
#3	571.10	-.01007	.00256	-.00002	-.02137	.00687	532.89
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00587	-.00374	.00522	198.67	.10637	547.17	-.00308
SDev	.00026	.00250	.00071	.12	.00775	.32	.00039
%RSD	4.4172	66.846	13.687	.05815	7.2836	.05881	12.783

#1	.00607	-.00097	.00604	198.54	.10349	546.95	-.00346
#2	.00558	-.00443	.00476	198.69	.10047	547.01	-.00267
#3	.00597	-.00582	.00486	198.77	.11514	547.54	-.00311
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00790	.01614	-.32746	-.01112	.01004	.00910	-.21560
SDev	.00117	.00643	.17593	.00053	.02295	.00009	.05022
%RSD	14.856	39.853	53.726	4.8051	228.43	.99550	23.291
#1	.00917	.01876	-.28943	-.01133	.03425	.00920	-.15832
#2	.00686	.02085	-.17366	-.01051	.00728	.00909	-.23644
#3	.00765	.00881	-.51930	-.01151	-.01139	.00902	-.25205
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04736	-.00688	.00942	.00293	.11178	.14872	.00295
SDev	.00612	.00164	.00086	.00052	.06284	.01625	.00057
%RSD	12.916	23.789	9.1198	17.846	56.212	10.925	19.266
#1	-.05254	-.00877	.00943	.00353	.18385	.15831	.00265
#2	-.04061	-.00583	.00855	.00272	.06847	.15789	.00360
#3	-.04894	-.00604	.01027	.00255	.08303	.12996	.00259
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	186516	--	--	--	--	--	--
SDev	1704.681	--	--	--	--	--	--
%RSD	.9139594	--	--	--	--	--	--
#1	184712	--	--	--	--	--	--
#2	186736	--	--	--	--	--	--
#3	188100	--	--	--	--	--	--

Method: B Sample Name: ISB Operator: BH
Run Time: 12/17/96 20:12:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179

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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	578.34	.00043	.53025	.51131	-.02129	1.1132	538.79
SDev	1.14	.02280	.00100	.00094	.00200	.0031	2.32
%RSD	.19791	5270.9	.18792	.18366	9.4172	.27998	.43010
#1	577.31	-.02550	.53032	.51022	-.01913	1.1145	537.49
#2	579.57	.01733	.53121	.51188	-.02309	1.1155	537.41
#3	578.15	.00946	.52922	.51182	-.02165	1.1097	541.46
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	20.000		20.000	20.000		20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52966	.50377	.55560	201.10	1.1315	554.05	.51892
SDev	.00144	.00069	.00094	.24	.0039	.62	.00165
%RSD	.27134	.13744	.16860	.12012	.34893	.11178	.31729
#1	.52964	.50315	.55497	200.88	1.1361	553.55	.51726
#2	.52823	.50452	.55668	201.08	1.1295	553.85	.51894
#3	.53110	.50363	.55516	201.36	1.1290	554.74	.52056
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00627	1.0326	.06511	1.1165	-.15585	.00724	-.19708
SDev	.00504	.0064	.35612	.0020	.00485	.00006	.02218
%RSD	80.273	.62395	546.95	.17851	3.1089	.88328	11.255
#1	.01165	1.0353	.42278	1.1145	-.16131	.00731	-.17345
#2	.00166	1.0371	-.28943	1.1164	-.15419	.00720	-.21745
#3	.00551	1.0252	.06198	1.1185	-.15206	.00720	-.20035
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		20.000		20.000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04129	.51666	1.0745	.00168	5.5251	5.4899	.00065
SDev	.00783	.00117	.0011	.00017	.0515	.0340	.00001
%RSD	18.965	.22640	.09866	10.370	.93231	.61994	1.2210
#1	-.03662	.51534	1.0735	.00180	5.5845	5.4745	.00066
#2	-.05033	.51708	1.0756	.00177	5.4962	5.4664	.00065
#3	-.03692	.51756	1.0744	.00148	5.4944	5.5290	.00065
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value		.50000	1.0000		5.0000	5.0000	
Range		20.000	20.000		20.000	20.000	

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	183808	--	--	--	--	--	--
SDev	1456.395	--	--	--	--	--	--
%RSD	.7923459	--	--	--	--	--	--
#1	182129	--	--	--	--	--	--
#2	184730	--	--	--	--	--	--
#3	184565	--	--	--	--	--	--

Method: B Sample Name: CCV 8 Operator: BH
Run Time: 12/17/96 20:15:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.676	1.0297	10.150	2.4670	4.9755	2.5683	53.452
SDev	.095	.0068	.020	.0039	.0081	.0014	.241
%RSD	.18335	.65865	.19455	.15833	.16255	.05623	.45085
#1	51.772	1.0223	10.171	2.4646	4.9845	2.5684	53.177
#2	51.672	1.0357	10.148	2.4648	4.9730	2.5697	53.559
#3	51.583	1.0311	10.132	2.4715	4.9689	2.5668	53.622
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1790	5.0382	5.0582	25.492	5.1002	50.751	5.1373
SDev	.0170	.0131	.0045	.037	.0120	.021	.0113
%RSD	.32911	.25932	.08887	.14568	.23471	.04108	.22074
#1	5.1632	5.0284	5.0633	25.449	5.0865	50.727	5.1273
#2	5.1767	5.0331	5.0564	25.509	5.1084	50.761	5.1348
#3	5.1971	5.0530	5.0549	25.517	5.1057	50.764	5.1496
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0912	5.1069	51.242	1.0314	47.333	5.0392	10.152
SDev	.0212	.0200	.252	.0016	.811	.0096	.044
%RSD	.41730	.39185	.49257	.15473	1.7125	.19087	.43680
#1	5.0677	5.0900	51.164	1.0297	48.239	5.0497	10.101
#2	5.1091	5.1016	51.038	1.0315	47.082	5.0374	10.185
#3	5.0968	5.1290	51.525	1.0329	46.678	5.0307	10.169
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3708	5.1281	5.0749	5.0619	5.0974	5.0467	5.1134
SDev	.0305	.0042	.0099	.0176	.0173	.0165	.0482
%RSD	.56865	.08201	.19471	.34839	.33879	.32733	.94352
#1	5.3505	5.1280	5.0649	5.0813	5.0871	5.0432	5.1669
#2	5.3561	5.1240	5.0751	5.0576	5.0879	5.0323	5.0999
#3	5.4060	5.1324	5.0847	5.0468	5.1174	5.0647	5.0732
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	207244	--	--	--	--	--	--
SDev	1219.314	--	--	--	--	--	--
%RSD	.5883461	--	--	--	--	--	--
#1	206304	--	--	--	--	--	--
#2	206807	--	--	--	--	--	--
#3	208622	--	--	--	--	--	--

Method: B Sample Name: CCB Operator: BH
Run Time: 12/17/96 20:19:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10053	.00289	.01052	.00251	.01043	.00412	Q.10805
SDev	.02501	.01297	.00241	.00050	.00470	.00071	.02063
%RSD	24.878	448.22	22.899	19.793	45.051	17.302	19.090
#1	.10148	.01782	.01310	.00302	.01298	.00331	Q.11021
#2	.07506	-.00570	.01014	.00249	.01331	.00467	.08643
#3	.12505	-.00343	.00833	.00203	.00501	.00438	Q.12752
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.05000	.00500	.05000	.00500	.10000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00506	.00261	.00454	Q.04281	-.00646	.08305	.00506
SDev	.00152	.00076	.00102	.00883	.01173	.02650	.00104
%RSD	29.956	28.899	22.336	20.618	181.65	31.902	20.544
#1	.00681	.00259	.00562	Q.04714	.00676	.09758	.00612
#2	.00411	.00338	.00441	Q.03266	-.01049	.05247	.00503
#3	.00427	.00187	.00360	Q.04865	-.01565	.09910	.00404

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Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.02000	.02000	.03000	.05000	.20000	.01000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5889	Sr4215	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00862	.00358	-.13394	-.00069	.09494	.00489	.01491
SDev	.00494	.00299	.24016	.00114	.02015	.00047	.00556
%RSD	57.374	83.540	179.31	164.61	21.222	9.5178	37.319
#1	.01417	.00670	-.39642	.00060	.07362	.00469	.00968
#2	.00700	.00330	-.08020	-.00113	.11366	.00456	.02075
#3	.00469	.00074	.07480	-.00155	.09754	.00542	.01428

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.02000	2.0000	.01000	.20000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00144	.00519	.00393	.00602	.00755	-.00882	.00535
SDev	.00316	.00183	.00067	.00155	.00484	.01569	.00193
%RSD	219.30	35.194	16.988	25.712	64.159	177.86	36.149
#1	.00485	.00700	.00462	.00756	.00228	.00783	.00695
#2	.00085	.00521	.00388	.00603	.01180	-.02333	.00590
#3	-.00138	.00335	.00329	.00447	.00855	-.01096	.00320

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.01000	.01000	.01000	.10000	.10000	.10000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	205490	--	--	--	--	--	--
SDev	3009.056	--	--	--	--	--	--
%RSD	1.464334	--	--	--	--	--	--
#1	202073	--	--	--	--	--	--
#2	206651	--	--	--	--	--	--
#3	207745	--	--	--	--	--	--

Method: B Standard: S0 P21217B Brian J. Hamende

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3179
Avge	-.00018	.00006	.00002	.00001	.00002	.00076	.00036
SDev	.00007	.00006	.00001	.00000	.00001	.00002	.00004
%RSD	37.520	106.04	35.211	.84609	34.495	3.0287	10.062
#1	-.00016	.00013	.00002	.00001	.00002	.00074	.00040
#2	-.00012	.00005	.00002	.00001	.00001	.00075	.00034
#3	-.00025	.00000	.00001	.00001	.00003	.00078	.00033

WESTON
MANAGERS DESIGNERS/CONSULTANTS

FURNACE AA RAW DATA

(3)

WESTON Analytics AA4.1 Report

Date File: AS122611 Date Collected: 96/12/26 Time:
Method File: Date of Report: Time:
Analyst: DAK

	AS ppb				
S0.0	0.00	MASTO	1.0		09:34
S2.0	0.00	MASTO	1.0		09:40
S10.0	14.57	MASTO	1.0		09:46
S30.0	29.84	MASTO	1.0		09:52
S50.0	50.08	MASTO	1.0		09:58
S70.0	64.00	MASTO	1.0		10:04
ICVF	26.67	MASTO	1.0		10:10
ICB	-0.25	MASTO	1.0		10:16
CRA	9.93	MASTO	1.0		10:22
CCVF1	35.58	MASTO	1.0		10:28
CCB1	-0.10	MASTO	1.0		10:34
966F345-MB1	-0.09	MASTO	1.0	966F345	10:40
966F345-LC1	41.53	MASLCS	1.0	966F345	10:51
96118675-001	5.81	MASTO	1.0	966F345	11:03
96118675-001R	4.42	MASTOR	1.0	966F345	11:15
CCVF2	36.42	MASTO	1.0		11:26
CCB2	-0.42	MASTO	1.0		11:32
96118675-001S	44.22	MASTOS	1.0	966F345	11:38
96118675-002	5.77	MASTO	1.0	966F345	11:50
96118675-003	7.20	MASTO	1.0	966F345	12:02
CCVF3	38.23	MASTO	1.0		12:25
CCB3	-0.59	MASTO	1.0		12:31
96118675-005	40.03	MASTO	1.0	966F345	12:37
96118675-006	12.66	MASTO	1.0	966F345	12:49
96118675-007	18.85	MASTO	1.0	966F345	13:01
96118675-008	10.86	MASTO	1.0	966F345	13:12
CCVF4	36.10	MASTO	1.0		13:24
CCB4	-0.99	MASTO	1.0		13:30
966F358-MB1	-0.42	MASTO	1.0	966F358	13:36
966F358-LC1	40.91	MASLCS	1.0	966F358	13:47
966F358-LC2	40.76	MASLCS	1.0	966F358	13:59
CCVF5	37.21	MASTO	1.0		14:22
CCB5	-0.06	MASTO	1.0		14:28
96126010-001R	15.31	MASTOR	5.0	966F358	14:34
96126010-001S	28.16	MASTOS	5.0	966F358	14:46
96126010-001	13.99	MASTO	5.0	966F358	14:58
CCVF6	34.93	MASTO	1.0		15:21
CCB6	0.04	MASTO	1.0		15:27
96126046-003	1.65	MASTO	1.0	966F358	15:34
96126055-001	16.04	MASTO	1.0	966F358	15:46
96126055-003	14.93	MASTO	1.0	966F358	15:58
CCVF7	36.18	MASTO	1.0		16:21
CCB7	0.39	MASTO	1.0		16:27
96126055-005	11.71	MASTO	1.0	966F358	16:35
CCVF8	35.39	MASTO	1.0		17:22
CCB8	0.10	MASTO	1.0		17:28
CCVF9	36.72	MASTO	1.0		18:21
CCB9	0.57	MASTO	1.0		18:26
96126088-001	-0.67	MASSO	1.0	966F372	18:32
96126088-001R	-0.09	MASSOR	1.0	966F372	18:44
96126088-001S	39.11	MASSOS	1.0	966F372	18:56
96126088-004	-1.04	MASTO	1.0	966F372	19:07
CCVF10	35.39	MASTO	1.0		19:19
CCB10	-0.07	MASTO	1.0		19:25
[illegible]	0.47	MASSO	1.0	966F372	19:31
[illegible]	0.32	MASTO	1.0	966F372	19:43
[illegible]-021	0.75	MASSO	1.0	966F372	19:54
[illegible]-026	0.75	MASTO	1.0	966F372	20:06
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

IDL 1.6ug/ml

Run 1

updated 12/30/96

12/30/96

12/29/96

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WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-21G-1537
Rev. 01; Eff. Date 03/06/95

Element: As Lamp: EDL Current: 350 Filename: As1226X1 Energy: 41

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	96GE345-MB1				E345 Cal Std
7	-LCS1				
8	9611G675-001				
9	-001R				
10	-001S				
11	-002				
12	-003				
13	-004		✓	✓	
14	-005				
15	-006				
16	-007				
17	-008				
18	96GE358-MB1				E358 Std Soil
19	-LCS1				
20	-LCS2				
21	96126D10-001	5x	✓		
22	-001R 5x				
23	-001S 5x				
24	96126D10-001 5x				
25	96126D22-001	4x	✓		
26	96126D46-003				
27	96126D55-001				
28	-003				
29	-004	5x	✓		
30					
31					
32	ED 12/26/96				
33					
34					
35					
36					
37					
38	STD 2.000ppb				
39	ICV 25.000ppb				
40	Blank				

Analyst: Eileen [illegible] Date: 12/26/96

Reviewer: Debbie [illegible] Date: 12/27/96

Cont. on Pg 88

Page: 87

Element File: AS_CLP.GEL
Element: As Analyst: ED
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Standards 2100-62-1
ICV,CCV'S 2100-62-2
MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
EDL SERIAL #913,IDL=
ANALYST-EILEEN DURKIN

INSTRUMENT: 5100 Technique: HGA
Wavelength: 193.7 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 70.0 ug/L, 2 if > 70.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0	----------	40	20	8	5	
Standard 1	S2.0	2.00	38	20	8	5	
Standard 2	S10.0	10.00	4	20	8	5	
Standard 3	S30.0	30.00	5	12	16	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	140	40	5	300		Norm
3	1200	30	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	8	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKB:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: Yes

If %RSD > 20.0 and Concentration > 10 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/B Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	5.0	15.0	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	
6	4							

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: AS_CLP.GEL Element: As Wavelength: 193.7
Date: 12/26/96 Time: 09:29 Slit: 0.70 L
Data File: AS1226X1.DAT ID/Wt File: AS122601.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 41
Remark 1: Standards 2100-62-1
Remark 2: ICV,CCV'S 2100-62-2
Remark 3: MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
Remark 4: EDL SERIAL #913,IDL=
Remark 5: ANALYST-EILEEN DURKIN

Eileen Durkin

As ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 12/26/96

Replicate 1 Time: 09:31
Peak Area (A-s): -0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.001

Replicate 2 Time: 09:34
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.005

Mean Pk Area (A-s): 0.002 SD: 0.0046 RSD(%): 257.44

Auto-zero performed.

As ID: S2.0 Seq. No.: 00002 A/S Pos.: 38 Date: 12/26/96

Replicate 1 Time: 09:37
Peak Area (A-s): 0.008 Peak Height (A): 0.039
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.006

Replicate 2 Time: 09:40
Peak Area (A-s): 0.013 Peak Height (A): 0.036
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.012

Mean Pk Area (A-s): 0.009 SD: 0.0038 RSD(%): 42.75

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0044 Int: 0.000

As ID: S10.0 Seq. No.: 00003 A/S Pos.: 4 Date: 12/26/96

Replicate 1 Time: 09:43
Peak Area (A-s): 0.064 Peak Height (A): 0.152
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 14.02

Replicate 2 Time: 09:46
Peak Area (A-s): 0.069 Peak Height (A): 0.162
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.067

Concentration (ug/L): 15.12

Mean Conc (ug/L): 14.57 SD: 0.777 RSD(%): 5.33

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99801 Slope: 0.0066 Int: -0.002

As ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 12/26/96

Replicate 1 Time: 09:49
Peak Area (A-s): 0.200 Peak Height (A): 0.460
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 30.23

Replicate 2 Time: 09:52
Peak Area (A-s): 0.194 Peak Height (A): 0.461
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 29.45

Mean Conc (ug/L): 29.84 SD: 0.558 RSD(%): 1.87

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99980 Slope: 0.0066 Int: -0.002

As ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 12/26/96

Replicate 1 Time: 09:55
Peak Area (A-s): 0.328 Peak Height (A): 0.711
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.326
Concentration (ug/L): 49.94

Replicate 2 Time: 09:58
Peak Area (A-s): 0.330 Peak Height (A): 0.741
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.328
Concentration (ug/L): 50.22

Mean Conc (ug/L): 50.08 SD: 0.203 RSD(%): 0.40

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99994 Slope: 0.0066 Int: -0.002

As ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 12/26/96

Replicate 1 Time: 10:01
Peak Area (A-s): 0.425 Peak Height (A): 0.951
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.423
Concentration (ug/L): 64.57

Replicate 2 Time: 10:04
Peak Area (A-s): 0.417 Peak Height (A): 0.991
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.071

Blank Corrected Pk Area (A-s): 0.416
Concentration (ug/L): 63.44

Mean Conc (ug/L): 64.00 SD: 0.795 RSD(%): 1.24

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99807 Slope: 0.0062 Int: 0.003

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As ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 12/26/96

Replicate 1 Time: 10:07
Peak Area (A-s): 0.170 Peak Height (A): 0.398
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.168
Concentration (ug/L): 26.87

Replicate 2 Time: 10:10
Peak Area (A-s): 0.168 Peak Height (A): 0.387
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.166
Concentration (ug/L): 26.47

Mean Conc (ug/L): 26.67 SD: 0.282 RSD(%): 1.06

QC sample is within range 22.5 - 27.5

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As ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 12/26/96

Replicate 1 Time: 10:13
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.21

Replicate 2 Time: 10:16
Peak Area (A-s): 0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.71

Mean Conc (ug/L): -0.25 SD: 0.655 RSD(%): 262.03

QC sample is within range -3.0 - 2.0

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As ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 12/26/96

Replicate 1 Time: 10:19
Peak Area (A-s): 0.066 Peak Height (A): 0.163
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 10.03

Replicate 2 Time: 10:22
Peak Area (A-s): 0.065 Peak Height (A): 0.162
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.063

237
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Concentration (ug/L): 9.83

Mean Conc (ug/L): 9.93 SD: 0.140 RSD(%): 1.41

QC sample is within range 5.0 - 15.0

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As ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 12/26/96

Replicate 1 Time: 10:25
Peak Area (A-s): 0.224 Peak Height (A): 0.543
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.222
Concentration (ug/L): 35.59

Replicate 2 Time: 10:28
Peak Area (A-s): 0.224 Peak Height (A): 0.527
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.222
Concentration (ug/L): 35.58

Mean Conc (ug/L): 35.58 SD: 0.009 RSD(%): 0.03

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 12/26/96

Replicate 1 Time: 10:31
Peak Area (A-s): 0.007 Peak Height (A): 0.015
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.35

Replicate 2 Time: 10:34
Peak Area (A-s): 0.001 Peak Height (A): 0.016
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.55

Mean Conc (ug/L): -0.10 SD: 0.639 RSD(%): 657.38

QC sample is within range -3.0 - 2.0

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As ID: 96GF345-MB1 Seq. No.: 00012 A/S Pos.: 6 Date: 12/26/96

Replicate 1 Time: 10:37
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 0.79

Replicate 2 Time: 10:40
Peak Area (A-s): -0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.97

288
~~~~~~

Mean Conc (ug/L): -0.09 SD: 1.248 RSD(%): 1385.83

As ID: 96GF345-MB1 Seq. No.: 00013 A/S Pos.: 6 Date: 12/26/96

Replicate 1 Time: 10:42
Peak Area (A-s): 0.134 Peak Height (A): 0.365
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.133
Concentration (ug/L): 21.07

Replicate 2 Time: 10:45
Peak Area (A-s): 0.135 Peak Height (A): 0.362
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.133
Concentration (ug/L): 21.11

Mean Conc (ug/L): 21.09 SD: 0.031 RSD(%): 0.15 ✓

Recovery is 105.9% 105.4%

As ID: 96GF345-LC1 Seq. No.: 00014 A/S Pos.: 7 Date: 12/26/96

Replicate 1 Time: 10:48
Peak Area (A-s): 0.265 Peak Height (A): 0.705
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.264
Concentration (ug/L): 42.32

Replicate 2 Time: 10:51
Peak Area (A-s): 0.256 Peak Height (A): 0.692
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.254
Concentration (ug/L): 40.74

Mean Conc (ug/L): 41.53 103.8% SD: 1.116 RSD(%): 2.69 ✓

As ID: 96GF345-LC1 Seq. No.: 00015 A/S Pos.: 7 Date: 12/26/96

Replicate 1 Time: 10:54
Peak Area (A-s): 0.375 Peak Height (A): 0.992
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.373
Concentration (ug/L): 60.13

Replicate 2 Time: 10:57
Peak Area (A-s): 0.372 Peak Height (A): 0.972
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.370
Concentration (ug/L): 59.67

Mean Conc (ug/L): 59.90 SD: 0.323 RSD(%): 0.54 ✓

Recovery is 91.9% ✓

As ID: 9611G675-001 Seq. No.: 00016 A/S Pos.: 8 Date: 12/26/96

Replicate 1 Time: 11:00
Peak Area (A-s): 0.039 Peak Height (A): 0.108
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 5.56

Replicate 2 Time: 11:03
Peak Area (A-s): 0.042 Peak Height (A): 0.107
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.121
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 6.06

Mean Conc (ug/L): 5.81 SD: 0.350 RSD(%): 6.02 ✓

As ID: 9611G675-001 Seq. No.: 00017 A/S Pos.: 8 Date: 12/26/96

Replicate 1 Time: 11:06
Peak Area (A-s): 0.164 Peak Height (A): 0.416
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.122
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 25.84

Replicate 2 Time: 11:09
Peak Area (A-s): 0.161 Peak Height (A): 0.406
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 25.37

Mean Conc (ug/L): 25.61 SD: 0.331 RSD(%): 1.29 ✓

Recovery is 99.0% ✓

As ID: 9611G675-001R Seq. No.: 00018 A/S Pos.: 9 Date: 12/26/96

Replicate 1 Time: 11:12
Peak Area (A-s): 0.031 Peak Height (A): 0.088
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 4.24

Replicate 2 Time: 11:15
Peak Area (A-s): 0.033 Peak Height (A): 0.093
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.031
Concentration (ug/L): 4.59

Mean Conc (ug/L): 4.42 SD: 0.249 RSD(%): 5.64 /

As ID: 9611G675-001R Seq. No.: 00019 A/S Pos.: 9 Date: 12/26/96

Replicate 1 Time: 11:18
Peak Area (A-s): 0.151 Peak Height (A): 0.390
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.094

Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 23.81

Replicate 2 | Time: 11:21
Peak Area (A-s): 0.158 | Peak Height (A): 0.396
Background Pk Area (A-s): 0.093 | Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 24.84

Mean Conc (ug/L): 24.32 SD: 0.725 RSD(%): 2.98

Recovery is 99.5%

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As ID: ACCV Seq. No.: 00020 A/S Pos.: 2 Date: 12/26/96

Replicate 1 | Time: 11:23
Peak Area (A-s): 0.231 | Peak Height (A): 0.545
Background Pk Area (A-s): 0.028 | Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.229
Concentration (ug/L): 36.68

Replicate 2 | Time: 11:26
Peak Area (A-s): 0.227 | Peak Height (A): 0.541
Background Pk Area (A-s): 0.023 | Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.226
Concentration (ug/L): 36.17

Mean Conc (ug/L): 36.42 SD: 0.357 RSD(%): 0.98

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00021 A/S Pos.: 3 Date: 12/26/96

Replicate 1 | Time: 11:29
Peak Area (A-s): 0.005 | Peak Height (A): 0.016
Background Pk Area (A-s): 0.006 | Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.07

Replicate 2 | Time: 11:32
Peak Area (A-s): -0.001 | Peak Height (A): 0.012
Background Pk Area (A-s): 0.013 | Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.90

Mean Conc (ug/L): -0.42 SD: 0.685 RSD(%): 164.80

QC sample is within range -3.0 - 2.0

~~~~~~

As ID: 9611G675-001S Seq. No.: 00022 A/S Pos.: 10 Date: 12/26/96

Replicate 1 | Time: 11:35
Peak Area (A-s): 0.275 | Peak Height (A): 0.664
Background Pk Area (A-s): 0.104 | Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.273
Concentration (ug/L): 43.86
~~~~~~

Replicate 2 | Time: 11:38
Peak Area (A-s): 0.279 | Peak Height (A): 0.668
Background Pk Area (A-s): 0.118 | Background Pk Height (A): 0.110
Blank Corrected Pk Area (A-s): 0.277
Concentration (ug/L): 44.58

Mean Conc (ug/L): 44.22 96% SD: 0.513 RSD(%): 1.16

~~~~~~

As ID: 9611G675-001S Seq. No.: 00023 A/S Pos.: 10 Date: 12/26/96

Replicate 1 | Time: 11:41
Peak Area (A-s): 0.383 | Peak Height (A): 0.880
Background Pk Area (A-s): 0.120 | Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.381
Concentration (ug/L): 61.45

Replicate 2 | Time: 11:44
Peak Area (A-s): 0.387 | Peak Height (A): 0.896
Background Pk Area (A-s): 0.120 | Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.385
Concentration (ug/L): 62.11

Mean Conc (ug/L): 61.78 SD: 0.468 RSD(%): 0.76

Recovery is 87.8%

~~~~~~

As ID: 9611G675-002 Seq. No.: 00024 A/S Pos.: 11 Date: 12/26/96

Replicate 1 | Time: 11:47
Peak Area (A-s): 0.035 | Peak Height (A): 0.095
Background Pk Area (A-s): 0.016 | Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 4.94

Replicate 2 | Time: 11:50
Peak Area (A-s): 0.045 | Peak Height (A): 0.099
Background Pk Area (A-s): 0.010 | Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 6.61

Mean Conc (ug/L): 5.77 SD: 1.181 RSD(%): 20.47 ok+

~~~~~~

As ID: 9611G675-002 Seq. No.: 00025 A/S Pos.: 11 Date: 12/26/96

Replicate 1 | Time: 11:53
Peak Area (A-s): 0.167 | Peak Height (A): 0.467
Background Pk Area (A-s): 0.021 | Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 26.36

Replicate 2 | Time: 11:56
Peak Area (A-s): 0.167 | Peak Height (A): 0.469
Background Pk Area (A-s): 0.023 | Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 26.37
~~~~~~

Mean Conc (ug/L): 26.36 SD: 0.011 RSD(%): 0.04

Recovery is 103.0%

~~~~~~

As ID: 9611G675-003 Seq. No.: 00026 A/S Pos.: 12 Date: 12/26/96

Replicate 1 — Time: 11:59
Peak Area (A-s): 0.048 — Peak Height (A): 0.111
Background Pk Area (A-s): 0.093 — Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 7.03

Replicate 2 — Time: 12:02
Peak Area (A-s): 0.050 — Peak Height (A): 0.108
Background Pk Area (A-s): 0.093 — Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 7.38

Mean Conc (ug/L): 7.20 SD: 0.248 RSD(%): 3.44

~~~~~~

As ID: 9611G675-003 Seq. No.: 00027 A/S Pos.: 12 Date: 12/26/96

Replicate 1 — Time: 12:05
Peak Area (A-s): 0.173 — Peak Height (A): 0.370
Background Pk Area (A-s): 0.106 — Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): 0.171
Concentration (ug/L): 27.29

Replicate 2 — Time: 12:08
Peak Area (A-s): 0.170 — Peak Height (A): 0.379
Background Pk Area (A-s): 0.116 — Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 26.91

Mean Conc (ug/L): 27.10 SD: 0.267 RSD(%): 0.99

Recovery is 99.5%

~~~~~~

As ID: 9611G675-004 Seq. No.: 00028 A/S Pos.: 13 Date: 12/26/96

Replicate 1 — Time: 12:11
Peak Area (A-s): 0.086 — Peak Height (A): 0.225
Background Pk Area (A-s): 1.142 — Background Pk Height (A): 1.889
Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L): 13.23

Replicate 2 — Time: 12:13
Peak Area (A-s): 0.094 — Peak Height (A): 0.220
Background Pk Area (A-s): 1.175 — Background Pk Height (A): 1.919
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 14.56

Mean Conc (ug/L): 13.89 SD: 0.940 RSD(%): 6.76

233
~~~~~~

As ID: 9611G675-004 Seq. No.: 00029 A/S Pos.: 13 Date: 12/26/96

Replicate 1 Time: 12:16
Peak Area (A-s): 0.172 Peak Height (A): 0.449
Background Pk Area (A-s): 1.176 Background Pk Height (A): 1.935
Blank Corrected Pk Area (A-s): 0.170
Concentration (ug/L): 27.14

Replicate 2 Time: 12:19
Peak Area (A-s): 0.175 Peak Height (A): 0.449
Background Pk Area (A-s): 1.179 Background Pk Height (A): 1.872
Blank Corrected Pk Area (A-s): 0.174
Concentration (ug/L): 27.72

Mean Conc (ug/L): 27.43 SD: 0.413 RSD(%): 1.50

Recovery is 67.7%

As ID: ACCV Seq. No.: 00030 A/S Pos.: 2 Date: 12/26/96

Replicate 1 Time: 12:22
Peak Area (A-s): 0.238 Peak Height (A): 0.595
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.236
Concentration (ug/L): 37.87

Replicate 2 Time: 12:25
Peak Area (A-s): 0.242 Peak Height (A): 0.565
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.241
Concentration (ug/L): 38.59

Mean Conc (ug/L): 38.23 SD: 0.510 RSD(%): 1.33

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00031 A/S Pos.: 3 Date: 12/26/96

Replicate 1 Time: 12:28
Peak Area (A-s): 0.002 Peak Height (A): 0.015
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.38

Replicate 2 Time: 12:31
Peak Area (A-s): -0.000 Peak Height (A): 0.015
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.81

Mean Conc (ug/L): -0.59 SD: 0.304 RSD(%): 51.41

QC sample is within range -3.0 - 2.0

As ID: 9611G675-005 Seq. No.: 00032 A/S Pos.: 14 Date: 12/26/96

Replicate 1 Time: 12:34
Peak Area (A-s): 0.249 Peak Height (A): 0.492
Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.247
Concentration (ug/L): 39.66

Replicate 2 Time: 12:37
Peak Area (A-s): 0.253 Peak Height (A): 0.498
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.252
Concentration (ug/L): 40.39

Mean Conc (ug/L): 40.03 SD: 0.510 RSD(%): 1.27

As ID: 9611G675-005 Seq. No.: 00033 A/S Pos.: 14 Date: 12/26/96

Replicate 1 Time: 12:40
Peak Area (A-s): 0.365 Peak Height (A): 0.704
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.363
Concentration (ug/L): 58.43

Replicate 2 Time: 12:43
Peak Area (A-s): 0.374 Peak Height (A): 0.701
Background Pk Area (A-s): 0.117 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.373
Concentration (ug/L): 60.03

Mean Conc (ug/L): 59.23 SD: 1.138 RSD(%): 1.92

Recovery is 96.0%

As ID: 9611G675-006 Seq. No.: 00034 A/S Pos.: 15 Date: 12/26/96

Replicate 1 Time: 12:46
Peak Area (A-s): 0.084 Peak Height (A): 0.166
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 12.83

Replicate 2 Time: 12:49
Peak Area (A-s): 0.082 Peak Height (A): 0.160
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 12.48

Mean Conc (ug/L): 12.66 SD: 0.247 RSD(%): 1.95

As ID: 9611G675-006 Seq. No.: 00035 A/S Pos.: 15 Date: 12/26/96

Replicate 1 Time: 12:52
Peak Area (A-s): 0.201 Peak Height (A): 0.400
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.067

Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 31.95

Replicate 2 Time: 12:55
Peak Area (A-s): 0.212 Peak Height (A): 0.399
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.210
Concentration (ug/L): 33.64

Mean Conc (ug/L): 32.79 SD: 1.199 RSD(%): 3.66

Recovery is 100.7%

~~~~~~

As ID: 9611G675-007 Seq. No.: 00036 A/S Pos.: 16 Date: 12/26/96

Replicate 1 Time: 12:58
Peak Area (A-s): 0.117 Peak Height (A): 0.265
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 18.20

Replicate 2 Time: 13:01
Peak Area (A-s): 0.125 Peak Height (A): 0.264
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 19.50

Mean Conc (ug/L): 18.85 SD: 0.913 RSD(%): 4.85

~~~~~~

As ID: 9611G675-007 Seq. No.: 00037 A/S Pos.: 16 Date: 12/26/96

Replicate 1 Time: 13:03
Peak Area (A-s): 0.243 Peak Height (A): 0.517
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.165
Blank Corrected Pk Area (A-s): 0.241
Concentration (ug/L): 38.71

Replicate 2 Time: 13:06
Peak Area (A-s): 0.244 Peak Height (A): 0.517
Background Pk Area (A-s): 0.166 Background Pk Height (A): 0.169
Blank Corrected Pk Area (A-s): 0.242
Concentration (ug/L): 38.83

Mean Conc (ug/L): 38.77 SD: 0.088 RSD(%): 0.23

Recovery is 99.6%

~~~~~~

As ID: 9611G675-008 Seq. No.: 00038 A/S Pos.: 17 Date: 12/26/96

Replicate 1 Time: 13:09
Peak Area (A-s): 0.070 Peak Height (A): 0.187
Background Pk Area (A-s): 0.563 Background Pk Height (A): 0.858
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 10.55

Replicate 2 Time: 13:12
~~~~~~

Peak Area (A-s): 0.074   Peak Height (A): 0.184
Background Pk Area (A-s): 0.586   Background Pk Height (A): 0.888
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 11.18

Mean Conc (ug/L): 10.86   SD: 0.448   RSD(%): 4.12

~~~~~~

As ID: 96118675-008   Seq. No.: 00039   A/S Pos.: 17   Date: 12/26/96

Replicate 1   Time: 13:15
Peak Area (A-s): 0.188   Peak Height (A): 0.497
Background Pk Area (A-s): 0.602   Background Pk Height (A): 0.939
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 29.80

Replicate 2   Time: 13:18
Peak Area (A-s): 0.188   Peak Height (A): 0.497
Background Pk Area (A-s): 0.603   Background Pk Height (A): 0.948
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 29.73

Mean Conc (ug/L): 29.76   SD: 0.053   RSD(%): 0.18

Recovery is 94.5%

~~~~~~

As ID: ACCV   Seq. No.: 00040   A/S Pos.: 2   Date: 12/26/96

Replicate 1   Time: 13:21
Peak Area (A-s): 0.229   Peak Height (A): 0.563
Background Pk Area (A-s): 0.045   Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.227
Concentration (ug/L): 36.35

Replicate 2   Time: 13:24
Peak Area (A-s): 0.225   Peak Height (A): 0.544
Background Pk Area (A-s): 0.026   Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.224
Concentration (ug/L): 35.84

Mean Conc (ug/L): 36.10   SD: 0.359   RSD(%): 0.99

QC sample is within range 31.5 - 38.5

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As ID: CCB   Seq. No.: 00041   A/S Pos.: 3   Date: 12/26/96

Replicate 1   Time: 13:27
Peak Area (A-s): -0.000   Peak Height (A): 0.013
Background Pk Area (A-s): 0.011   Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.81

Replicate 2   Time: 13:30
Peak Area (A-s): -0.002   Peak Height (A): 0.013
Background Pk Area (A-s): 0.013   Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.16
~~~~~~

Mean Conc (ug/L): -0.99 SD: 0.253 RSD(%): 25.62

QC sample is within range -3.0 - 2.0

As ID: 96GF358-MB1 Seq. No.: 00042 A/S Pos.: 18 Date: 12/26/96

Replicate 1 Time: 13:33
Peak Area (A-s): 0.000 Peak Height (A): 0.013
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.76

Replicate 2 Time: 13:36
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.08

Mean Conc (ug/L): -0.42 SD: 0.477 RSD(%): 113.14

As ID: 96GF358-MB1 Seq. No.: 00043 A/S Pos.: 18 Date: 12/26/96

Replicate 1 Time: 13:39
Peak Area (A-s): 0.146 Peak Height (A): 0.317
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 22.91

Replicate 2 Time: 13:42
Peak Area (A-s): 0.144 Peak Height (A): 0.325
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.142
Concentration (ug/L): 22.59

Mean Conc (ug/L): 22.75 SD: 0.230 RSD(%): 1.01 ✓

Recovery is 115.8% 113.8%

As ID: 96GF358-LC1 Seq. No.: 00044 A/S Pos.: 19 Date: 12/26/96

Replicate 1 Time: 13:44
Peak Area (A-s): 0.260 Peak Height (A): 0.641
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.258
Concentration (ug/L): 41.49

Replicate 2 Time: 13:47
Peak Area (A-s): 0.253 Peak Height (A): 0.640
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.251
Concentration (ug/L): 40.34

Mean Conc (ug/L): 40.91 SD: 0.820 RSD(%): 2.00 ✓

102.3%

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(4)

WESTON Analytics AA4.1 Report

Data File:AS123011 Date Collected: 96/12/30 Time:
Method File: Date of Report: Time:
Analyst: ED

IDL 1.6ug/L

	AS ppb				
S0.0	-0.83	MASTO	1.0		09:16
S2.0	2.32	MASTO	1.0		09:22
S10.0	10.57	MASTO	1.0		09:28
S30.0	26.69	MASTO	1.0		09:34
S50.0	49.11	MASTO	1.0		09:40
S70.0	66.45	MASTO	1.0		09:46
ICVF	27.46	MASTO	1.0		09:58
ICB	-0.20	MASTO	1.0		10:04
CRA	10.65	MASTO	1.0		10:10
CCVF1	37.44	MASTO	1.0		10:16
CCB1	-0.35	MASTO	1.0		10:22
CCVF2	37.32	MASTO	1.0		10:31
CCB2	-1.16	MASTO	1.0		10:34
* 96118675-004 S	22.8	MASTO	1.0	966F345	10:46
CCVF3	37.50	MASTO	1.0		10:49
CCB3	-0.81	MASTO	1.0		10:52
CCVF4	37.03	MASTO	1.0		11:07
CCB4	-0.39	MASTO	1.0		11:13
* 96126891-001	28.25	MASTO	40.0	966F377	11:19
966F386-MB1	-0.89	MASTO	1.0	966F386	11:31
966F386-LC1	44.58	MASTO	1.0	966F386	11:42
* 96126112-002	1.74	MASTO	1.0	966F386	11:54
CCVF5	38.46	MASTO	1.0		12:06
CCB5	-0.96	MASTO	1.0		12:12
96126112-002R	2.11	MASTOR	1.0	966F386	12:18
96126112-002S	46.94	MASTOS	1.0	966F386	12:29
96126112-003	0.18	MASTO	1.0	966F386	12:41
96126112-005	0.10	MASTO	1.0	966F386	12:53
CCVF6	37.16	MASTO	1.0		13:05
CCB6	-1.01	MASTO	1.0		13:11
96126112-007	6.56	MASTO	1.0	966F386	13:16
* 96126161-001	11.52	MASTO	1.0	966F386	13:28
96126161-001R	11.12	MASTOR	1.0	966F386	13:40
96126161-001S	49.86	MASTOS	1.0	966F386	13:51
CCVF7	37.27	MASTO	1.0		14:03
CCB7	-0.72	MASTO	1.0		14:09
96126161-003	5.21	MASTO	1.0	966F386	14:15
96126161-005	1.51	MASTO	1.0	966F386	14:26
966F374-MB1	-1.18	MASTO	1.0	966F374	14:38
966F374-LC1	45.03	MASLCS	1.0	966F374	14:50
CCVF8	37.32	MASTO	1.0		15:02
CCB8	-0.99	MASTO	1.0		15:08

Rerun

updated 12/31/96

Eileen Dirk 12/30/96
Dan [illegible] 12/31/96

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WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-31G-1537
Rev. 01; Eff. Date 03/06/95

Element: As Lamp: EDL Current: 350 Filename: As1230X1 Energy: 42

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	96116675-004 msa				F345
7	96126891-001 4DX				F377
8	96GF386-MB1				F386 CLP Soil
9	-LCS1				
10	96126112-002				
11	-002L				
12	-002S				
13	-003				
14	-005				
15	-007				
16	96126-1161-001				
17	-001R				
18	-001S				
19	-003				
20	-005				
21	96GF374-MB1				F374
22	-LCS1				
23	-LCS2	QC out			
24	96126-0776-001				
25	-001R				
26	-001S				
27	96126107-001				
28					
29					
30					
31	12/30/96				
32					
33					
34					
35					
36					
37					
38	Std 2.00 ppb				
39	ICV 25.00 ppb				
40	Blank				

Analyst: Eileen Dwyer Date: 12/30/96

Reviewer: [illegible] Date: 12/31/96

Cont. on Pg 92

Page: 91

Element File: AS_CLP.GEL
Element: As Analyst: ED
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Standards 2100-62-1
ICV,CCV'S 2100-62-2
MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
EDL SERIAL #913,IDL=
ANALYST-EILEEN DURKIN

INSTRUMENT: 5100 Technique: HGA
Wavelength: 193.7 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 70.0 ug/L, 2 if > 70.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	80.0	----------	40	20	8	5	
Standard 1	82.0	2.00	38	20	8	5	
Standard 2	810.0	10.00	4	20	8	5	
Standard 3	830.0	30.00	5	12	16	5	
Standard 4	850.0	50.00	1	10	18	5	
Standard 5	870,0	70.00	1	14	14	5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	140	40	5	300		Norm
3	1200	30	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	8	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: Yes

If %RSD > 20.0 and Concentration > 10 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/B Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	5.0	15.0	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	
6	4							

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: ABMSA.GEL
Element: As
Print Data: Main+Suppl.
Remarks:
Standards 2100-62-1
ICV,CCV'S 2100-62-2
(4 ul of Pd & Mg matrix modifier
LAMP SERIAL #225,AS EDL,IDL=
ANALYST-EILEEN DURKIN

Analyst: BPH/PFK
Peak Storage: None

INSTRUMENT: 5100
Wavelength: 193.7 Peak
Signal Type: Zeeman AA
Read Time: 7.0
Sample Replicates: 1
Standard Replicates: 1

Technique: HGA
Slit: 0.70 Low
Signal Measurement: Peak Area
Read Delay: 0 BOC Time: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	B0	----------	40	20	8	5	
Standard 1	B10.00	10.00	37	10		5	
Standard 2	B20.00	20.00	38	10		5	
Standard 3	B30.00	30.00	39	10		5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Meth. of Add.

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	140	40	5	300		Norm
3	1200	30	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	8	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step Action and Parameters
1 Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2 Run HGA steps 1 to End

CHECKS:

Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Print Message Only
Alternate Sample Volumes (uL):
Run Alternate Volume Blanks: Yes

QC:

#	A/B Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	2	ACCV	31.5	38.5	X	X	X	
2	3	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 5
Out of Limit Action: Stop

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: AS_CLP.GEL Element: As Wavelength: 193.7
Date: 12/30/96 Time: 09:10 Slit: 0.70 L
Data File: AS1230X1.DAT ID/Wt File: AS123001.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 42
Remark 1: Standards 2100-62-1
Remark 2: ICV,CCV'S 2100-62-2
Remark 3: MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
Remark 4: EDL SERIAL #913,IDL=
Remark 5: ANALYST-EILEEN DURKIN

Eileen Durkin

As ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 12/30/96

Replicate 1 Time: 09:13
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -0.90

Replicate 2 0.001 Time: 09:16
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -0.76

Mean Conc (ug/L): -0.83 SD: 0.098 RSD(%): 11.84

Auto-zero performed.

As ID: S2.0 Seq. No.: 00002 A/S Pos.: 38 Date: 12/30/96

Replicate 1 Time: 09:19
Peak Area (A-s): 0.017 Peak Height (A): 0.043
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 2.79

Replicate 2 0.014 Time: 09:22
Peak Area (A-s): 0.011 Peak Height (A): 0.045
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 1.84

Mean Conc (ug/L): 2.32 SD: 0.678 RSD(%): 29.30

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0064 Int: 0.000

As ID: S10.0 Seq. No.: 00003 A/S Pos.: 4 Date: 12/30/96

Replicate 1 Time: 09:25
Peak Area (A-s): 0.064 Peak Height (A): 0.196
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 9.80

0.069

Replicate 2 Time: 09:28
Peak Area (A-s): 0.074 Peak Height (A): 0.190
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 11.34

Mean Conc (ug/L): 10.57 SD: 1.091 RSD(%): 10.33

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99994 Slope: 0.0068 Int: -0.000

As ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 12/30/96

Replicate 1 Time: 09:31
Peak Area (A-s): 0.181 Peak Height (A): 0.513
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.180
Concentration (ug/L): 26.51

0.182

Replicate 2 Time: 09:34
Peak Area (A-s): 0.183 Peak Height (A): 0.522
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.182
Concentration (ug/L): 26.88

Mean Conc (ug/L): 26.69 SD: 0.259 RSD(%): 0.97

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99907 Slope: 0.0060 Int: 0.002

As ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 12/30/96

Replicate 1 Time: 09:37
Peak Area (A-s): 0.302 Peak Height (A): 0.807
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.301
Concentration (ug/L): 49.75

0.2985

Replicate 2 Time: 09:40
Peak Area (A-s): 0.295 Peak Height (A): 0.802
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.294
Concentration (ug/L): 48.47

Mean Conc (ug/L): 49.11 SD: 0.904 RSD(%): 1.84

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99964 Slope: 0.0059 Int: 0.003

As ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 12/30/96

Replicate 1 Time: 09:43
Peak Area (A-s): 0.399 Peak Height (A): 1.074
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.398
Concentration (ug/L): 66.76

Replicate 2 Time: 09:46
Peak Area (A-s): 0.395 Peak Height (A): 1.074
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.394
Concentration (ug/L): 66.14

Mean Conc (ug/L): 66.45 SD: 0.440 RSD(%): 0.66

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99920 Slope: 0.0057 Int: 0.005

As ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 12/30/96

Replicate 1 Time: 09:49
Peak Area (A-s): 0.168 Peak Height (A): 0.466
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.167
Concentration (ug/L): 28.29

ED 12/30/96

Replicate 2 Time: 09:52
Peak Area (A-s): 0.160 Peak Height (A): 0.468
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 26.90

Mean Conc (ug/L): 27.60 SD: 0.989 RSD(%): 3.58

QC sample is out of range 22.5 - 27.5

As ID: AICV Seq. No.: 00009 A/S Pos.: 39 Date: 12/30/96

Replicate 1 Time: 09:55
Peak Area (A-s): 0.161 Peak Height (A): 0.473
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 27.13

Replicate 2 Time: 09:58
Peak Area (A-s): 0.165 Peak Height (A): 0.466
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 27.78

Mean Conc (ug/L): 27.46 SD: 0.458 RSD(%): 1.67

QC sample is within range 22.5 - 27.5

As ID: ICB Seq. No.: 00010 A/S Pos.: 3 Date: 12/30/96

Replicate 1 Time: 10:01
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.94

Replicate 2 Time: 10:04

Peak Area (A-s): 0.010 Peak Height (A): 0.015
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 0.54

Mean Conc (ug/L): -0.20 SD: 1.051 RSD(%): 523.09

QC sample is within range -3.0 - 2.0

As ID: CRA Seq. No.: 00011 A/S Pos.: 4 Date: 12/30/96

Replicate 1 Time: 10:07
Peak Area (A-s): 0.064 Peak Height (A): 0.191
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 10.12

Replicate 2 Time: 10:10
Peak Area (A-s): 0.070 Peak Height (A): 0.196
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 11.18

Mean Conc (ug/L): 10.65 SD: 0.749 RSD(%): 7.04

QC sample is within range 5.0 - 15.0

As ID: ACCV Seq. No.: 00012 A/S Pos.: 2 Date: 12/30/96

Replicate 1 Time: 10:13
Peak Area (A-s): 0.215 Peak Height (A): 0.616
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.214
Concentration (ug/L): 36.58

Replicate 2 Time: 10:16
Peak Area (A-s): 0.224 Peak Height (A): 0.638
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.223
Concentration (ug/L): 38.29

Mean Conc (ug/L): 37.44 SD: 1.206 RSD(%): 3.22

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00013 A/S Pos.: 3 Date: 12/30/96

Replicate 1 Time: 10:19
Peak Area (A-s): 0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.06

Replicate 2 Time: 10:22
Peak Area (A-s): 0.009 Peak Height (A): 0.015
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.016

Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 0.36

Mean Conc (ug/L): -0.35 SD: 1.008 RSD(%): 288.05

QC sample is within range -3.0 - 2.0

Element File: ASMSA.GEL Element: As Wavelength: 193.7
Date: 12/30/96 Time: 10:31 Slit: 0.70 L
Data File: AS1230X1.DAT ID/Wt File: AS123001.IDW Lamp Current: 0
Technique: HGA Calib. Type: Meth. of Add. Energy: 41
Remark 1: Standards 2100-62-1
Remark 2: ICV,CCV'S 2100-62-2
Remark 3: 4 ul of Pd & Mg matrix modifier
Remark 4: LAMP SERIAL #225,AS EDL,IDL=
Remark 5: ANALYST-EILEEN DURKIN

As ID: ACCV X'=37.32 Seq. No.: 00014 A/S Pos.: 2 Date: 12/30/96

Replicate 1 Time: 10:31
Peak Area (A-s): 0.219 Peak Height (A): 0.596
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.219

As ID: CCB X'=-1.16 Seq. No.: 00015 A/S Pos.: 3 Date: 12/30/96

Replicate 1 Time: 10:34
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.000

As ID: 9611G675-004 Seq. No.: 00016 A/S Pos.: 6 Date: 12/30/96

Replicate 1 Time: 10:37
Peak Area (A-s): 0.097 Peak Height (A): 0.246
Background Pk Area (A-s): 1.063 Background Pk Height (A): 1.680
Blank Corrected Pk Area (A-s): 0.097

As ID: S10.00 Seq. No.: 00017 A/S Pos.: 6 Date: 12/30/96

Replicate 1 Time: 10:40
Peak Area (A-s): 0.129 Peak Height (A): 0.325
Background Pk Area (A-s): 1.095 Background Pk Height (A): 1.662
Blank Corrected Pk Area (A-s): 0.129

As ID: S20.00 Seq. No.: 00018 A/S Pos.: 6 Date: 12/30/96

Replicate 1 Time: 10:43
Peak Area (A-s): 0.172 Peak Height (A): 0.421
Background Pk Area (A-s): 1.114 Background Pk Height (A): 1.720
Blank Corrected Pk Area (A-s): 0.172

As ID: S30.00 Seq. No.: 00019 A/S Pos.: 6 Date: 12/30/96

Replicate 1 Time: 10:46
Peak Area (A-s): 0.219 Peak Height (A): 0.508
Background Pk Area (A-s): 1.113 Background Pk Height (A): 1.686
Blank Corrected Pk Area (A-s): 0.219

The standard additions calibration curve may not be linear.
As ID: 9611G675-004 Seq. No.: 00016 A/S Pos.: 6 Date: 12/30/96

Concentration (ug/L): 22.80

Correlation coefficient: 0.99663 Slope: 0.0041 Int: 0.093

As ID: ACCV X' = 37.50 Seq. No.: 00020 A/S Pos.: 2 Date: 12/30/96

Replicate 1 Time: 10:49
Peak Area (A-s): 0.220 Peak Height (A): 0.599
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.220

As ID: CCB X' = -0.81 Seq. No.: 00021 A/S Pos.: 3 Date: 12/30/96

Replicate 1 Time: 10:52
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002

(3)

WESTON Analytics AA3.1 Report

Data File:PB1218R1 Date Collected: 96/12/18 Time:
Method File: Date of Report: Time:
Analyst: ED

IDL 0.9ug/L

	PB ppb				
S0.0	0.59	MPBTO	1.0		10:44
S2.0	2.17	MPBTO	1.0		10:49
S3.0	3.12	MPBTO	1.0		10:55
S20.0	18.88	MPBTO	1.0		11:00
S50.0	50.88	MPBTO	1.0		11:05
S70.0	70.92	MPBTO	1.0		11:10
ICVF	26.00	MPBTO	1.0		11:15
ICB	0.56	MPBTO	1.0		11:20
CRA	3.48	MPBTO	1.0		11:31
CCVF1	34.85	MPBTO	1.0		11:36
CCB1	0.30	MPBTO	1.0		11:41
96116806-001R	0.97	MPBSOR	5.0	NONE	11:56
96116806-001S	3.43	MPBSOS	5.0	NONE	12:06
CCVF2	35.01	MPBTO	1.0		12:16
CCB2	0.41	MPBTO	1.0		12:21
96116806-004	0.62	MPBSO	5.0	NONE	12:27
966F337-LC1	21.78	MPBLCS	1.0	966F337	12:47
966F337-LC2	22.37	MPBLCS	1.0	966F337	12:57
CCVF3	35.84	MPBTO	1.0		13:07
CCB3	0.20	MPBTO	1.0		13:12
96116726-001	11.26	MPBTO	10.0	966F337	13:17
96116726-002	4.57	MPBTO	10.0	966F337	13:27
96116726-003	5.09	MPBTO	1.0	966F337	13:37
96116726-004	1.57	MPBTO	5.0	966F337	13:47
CCVF4	36.62	MPBTO	1.0		13:57
CCB4	0.55	MPBTO	1.0		14:03
96116726-005	3.19	MPBTO	10.0	966F337	14:08
96116726-006	2.26	MPBTO	5.0	966F337	14:18
96116726-007	2.28	MPBTO	10.0	966F337	14:28
96116726-008	10.16	MPBTO	10.0	966F337	14:38
CCVF5	36.44	MPBTO	1.0		14:48
CCB5	0.40	MPBTO	1.0		14:53
96116726-009	4.46	MPBTO	5.0	966F337	14:58
96116726-010	2.26	MPBTO	5.0	966F337	15:08
96116726-011	7.40	MPBTO	10.0	966F337	15:18
96116726-012	4.46	MPBTO	5.0	966F337	15:28
CCVF6	36.35	MPBTO	1.0		15:38
CCB6	0.55	MPBTO	1.0		15:43
96116726-012R	2.64	MPBTOR	5.0	966F337	15:51
96116726-012S	7.80	MPBTOS	5.0	966F337	16:01
96116726-013	2.74	MPBTO	5.0	966F337	16:11
96116726-014	1.65	MPBTO	5.0	966F337	16:21
CCVF7	33.71	MPBTO	1.0		16:31
CCB7	0.59	MPBTO	1.0		16:36
966F364-MB1	1.03	MPBTO	1.0	966F364	16:41
CCVF8	33.22	MPBTO	1.0		16:56
CCB8	0.74	MPBTO	1.0		17:02
966F364-LC1	21.10	MPBLCS	1.0	966F364	17:07
966F364-LC2	21.51	MPBLCS	1.0	966F364	17:17
96126968-001	6.06	MPBTO	1.0	966F364	17:27
96126[illegible]R	4.66	MPBTOR	1.0	966F364	17:37
CCVF9	34.08	MPBTO	1.0		17:47
CCB9	0.63	MPBTO	1.0		17:52

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CCB9	0.63	MPBTO	1.0		17:52
96126968-001S	23.50	MPBTOS	1.0	966F364	17:57
96126968-002	5.19	MPBTO	1.0	966F364	18:07
96126968-003	7.53	MPBTO	1.0	966F364	18:17
96126968-004	15.66	MPBTO	1.0	966F364	18:27
CCVF10	34.60	MPBTO	1.0		18:37
CCB10	0.85	MPBTO	1.0		18:43
96126968-006	4.42	MPBTO	1.0	966F364	18:58
96126968-007	11.75	MPBTO	1.0	966F364	19:08
CCVF11	34.84	MPBTO	1.0		19:28
CCB11	1.01	MPBTO	1.0		19:33
96116806-001	2.14	MPBSO	5.0	NONE	19:38
966F345-MB1	1.34	MPBTO	1.0	966F345	19:58
966F345-LC1	22.96	MPBLCS	1.0	966F345	20:08
CCVF12	35.97	MPBTO	1.0		20:18
CCB12	0.80	MPBTO	1.0		20:24
96116675-001	21.21	MPBTO	5.0	966F345	20:29
96116675-001R	17.21	MPBTOR	5.0	966F345	20:39
96116675-001S	22.88	MPBTOS	5.0	966F345	20:49
96116675-002	8.83	MPBTO	5.0	966F345	20:59
CCVF13	36.15	MPBTO	1.0		21:10
CCB13	0.74	MPBTO	1.0		21:15
96116675-007	16.51	MPBTO	5.0	966F345	21:20
CCVF14	36.98	MPBTO	1.0		22:00
CCB14	1.24	MPBTO	1.0		22:05

WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-153
Rev. 01; Eff. Date 03/06/9

Element: Pb Lamp: HCl Current: 10 Filename: Pb1218R1 Energy: 58

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9611G806-001 5x		✓		Sol
7	-001R				
8	-001S				
9	-004 5				
10	96GF337-MB1		✓		CLP Delv Sol F337
11	-LCS1				
12	-LCS2				
13	9611G726-001 10x				
14	-002				
15	-003				
16	ED 12/19/96 -004 5x				
17	-005 - ~~006~~ 10x				
18	-006 5x				
19	-007 10x				
20	-008 10x				
21	-009 5x				
22	-010 5x				
23	-011 10x				
24	-012 5x				
25	-012R	Run on pg	10~~8~~9	gw 1/13/97	
26					
27					
28	ED				
29	12/18/96				
30					
31					
32					
33					
34					
35					
36					
37					
38	Std 2.00 ppb				
39	ICV 25.00 ppb				
40	Blank				

Analyst: Eileen Dank Date: 12/18/96

Reviewer: [signature] Date: 12/19/96

Cont. on pg ~~18~~ 10~~8~~9 ED 12/18/96 gw 1/13/97

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Cont. from Pg 107

WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-1534
Rev. 01; Eff. Date 03/06/95

Element: Pb Lamp: HCl Current: 10 Filename: Pb1218R1 Energy: 58

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9611G726-012R 5x				
7	-012S 5x				
8	-013 5x				
9	-014 5x				
10	96GF364-MB1				F364 CLP Del. H_2O
11	-LCS1				
12	-LCS2				
13	9612G968-001				
14	-001R				
15	-001S				
16	-002				
17	-003				
18	-004				
19	-005				
20	-006				
21	-007				
22	-008				
23	9611G806-001 5x				
24	96GF337-MB1				
25	96GF345-MB1				F345 CLP Soil
26	9012/18/96 -LCS1				
27	96GR11G675-001 5x				
28	-001R				
29	-001S				
30	-002				
31	-007				
32	96GF347-MB1				F347 CLP Del. H_2O
33	-LCS1				
34	-LCS2				
35	9611G766-001	QC out			
36	-001R				
37	-001S				
38	Std 2.00 ppb				
39	AICV 25.00 ppb				
40	Blank				

Analyst: [signature] Date: 12/18/96

Reviewer: [signature] Date: 12/19/96

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Element File: PB_CLP.GEL
Element: Pb Analyst: ED
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
ANALYST---EILEEN DURKIN
Standards 2100-48-7 ; QC 2100-48-8
EDL SERIAL #7490
IDL

INSTRUMENT: 5100 Technique: HGA
Wavelength: 283.3 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 5.0 Read Delay: 0.0 BOC Time: 1
Sample Replicates: 2 if <= 50 ug/L, 2 if > 50.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0	----------	40	20	8	5	
Standard 1	S2.0	2.00	38	20	8	5	
Standard 2	S3.0	3.00	4	20	8	5	
Standard 3	S20.0	20.00	5	8	20	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	90	6	2	300		Norm
2	120	15	14	300		Norm
3	900	25	10	300		Norm
4	20	1	10	300		Norm
5	1800	0	5	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 80 Pipette Speed: 80%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 3 then Retry 1 times
Check %RSD on: Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#:	A/S Loc.:	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	1.5	4.5	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

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Element File: PB_CLP.GEL Element: Pb Wavelength: 283.3
Date: 12/18/96 Time: 10:40 Slit: 0.70 L
Data File: PB1218R1.DAT ID/Wt File: PB121801.IDW Lamp Current: 10
Technique: HGA Calib. Type: Linear Energy: 58
Remark 1: Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
Remark 2: ANALYST---EILEEN DURKIN
Remark 3: Standards 2100-48-7 ; QC 2100-48-8
Remark 4: EDL SERIAL #7490
Remark 5: IDL

Eileen Durkin

Pb ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 12/18/96

Replicate 1 Time: 10:42
Peak Area (A-s): 0.007 Peak Height (A): 0.006
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.78

Replicate 2 Time: 10:44
Peak Area (A-s): 0.005 Peak Height (A): 0.007
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.41

Mean Conc (ug/L): 0.59 SD: 0.263 RSD(%): 44.33

Auto-zero performed.

Pb ID: S2.0 Seq. No.: 00002 A/S Pos.: 38 Date: 12/18/96

Replicate 1 Time: 10:47
Peak Area (A-s): 0.014 Peak Height (A): 0.016
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.90

Replicate 2 Time: 10:49
Peak Area (A-s): 0.017 Peak Height (A): 0.019
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.43

Mean Conc (ug/L): 2.17 SD: 0.368 RSD(%): 17.00

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0047 Int: 0.000

Pb ID: S3.0 Seq. No.: 00003 A/S Pos.: 4 Date: 12/18/96

Replicate 1 Time: 10:52
Peak Area (A-s): 0.021 Peak Height (A): 0.024
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.29

Replicate 2 Time: 10:55
Peak Area (A-s): 0.020 Peak Height (A): 0.023
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 2.96

Mean Conc (ug/L): 3.12 SD: 0.227 RSD(%): 7.27

Standard number 2 applied. [3.00]
Correlation coefficient: 0.99955 Slope: 0.0048 Int: -0.000

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Pb ID: S20.0 Seq. No.: 00004 A/S Pos.: 5 Date: 12/18/96

Replicate 1 Time: 10:57
Peak Area (A-s): 0.096 Peak Height (A): 0.113
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 18.75

Replicate 2 Time: 11:00
Peak Area (A-s): 0.098 Peak Height (A): 0.107
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 19.01

Mean Conc (ug/L): 18.88 SD: 0.181 RSD(%): 0.96

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99995 Slope: 0.0045 Int: 0.000

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Pb ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 12/18/96

Replicate 1 Time: 11:02
Peak Area (A-s): 0.236 Peak Height (A): 0.277
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.230
Concentration (ug/L): 50.56

Replicate 2 Time: 11:05
Peak Area (A-s): 0.239 Peak Height (A): 0.277
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.233
Concentration (ug/L): 51.19

Mean Conc (ug/L): 50.88 SD: 0.441 RSD(%): 0.87

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99997 Slope: 0.0046 Int: 0.000

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Pb ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 12/18/96

Replicate 1 Time: 11:08
Peak Area (A-s): 0.331 Peak Height (A): 0.353
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.325
Concentration (ug/L): 70.36
~~~~~~

Replicate 2 Time: 11:10
Peak Area (A-s): 0.336 Peak Height (A): 0.374
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.330
Concentration (ug/L): 71.48

Mean Conc (ug/L): 70.92 SD: 0.795 RSD(%): 1.12

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99995 Slope: 0.0047 Int: -0.000

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Pb ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 12/18/96

Replicate 1 Time: 11:13
Peak Area (A-s): 0.129 Peak Height (A): 0.150
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 26.52

Replicate 2 Time: 11:15
Peak Area (A-s): 0.124 Peak Height (A): 0.142
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 25.47

Mean Conc (ug/L): 26.00 SD: 0.743 RSD(%): 2.86

QC sample is within range 22.5 - 27.5

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Pb ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 11:18
Peak Area (A-s): 0.008 Peak Height (A): 0.013
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.48

Replicate 2 Time: 11:20
Peak Area (A-s): 0.009 Peak Height (A): 0.012
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.64

Mean Conc (ug/L): 0.56 SD: 0.114 RSD(%): 20.41

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 12/18/96

Replicate 1 Time: 11:23
Peak Area (A-s): 0.021 Peak Height (A): 0.024
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.22

Replicate 2 Time: 11:25

auto
Rerun ED
12/19/96

320
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Peak Area (A-s): 0.026 Peak Height (A): 0.025
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.32

Mean Conc (ug/L): 3.77 SD: 0.776 RSD(%): 20.60

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Pb ID: CRA Seq. No.: 00010 A/S Pos.: 4 Date: 12/18/96

Replicate 1 Time: 11:28
Peak Area (A-s): 0.022 Peak Height (A): 0.023
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 3.60

Replicate 2 Time: 11:31
Peak Area (A-s): 0.021 Peak Height (A): 0.024
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.35

Mean Conc (ug/L): 3.48 SD: 0.175 RSD(%): 5.03

QC sample is within range 1.5 - 4.5

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Pb ID: ACCV Seq. No.: 00011 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 11:33
Peak Area (A-s): 0.168 Peak Height (A): 0.193
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 34.81

Replicate 2 Time: 11:36
Peak Area (A-s): 0.168 Peak Height (A): 0.183
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 34.89

Mean Conc (ug/L): 34.85 SD: 0.057 RSD(%): 0.16

QC sample is within range 31.5 - 38.5

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Pb ID: CCB Seq. No.: 00012 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 11:38
Peak Area (A-s): 0.006 Peak Height (A): 0.009
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.13

Replicate 2 Time: 11:41
Peak Area (A-s): 0.008 Peak Height (A): 0.008
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.46
~~~~~~

Mean Conc (ug/L): 0.30 SD: 0.232 RSD(%): 78.16

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G806-001 5X Seq. No.: 00013 A/S Pos.: 6 Date: 12/18/96

Replicate 1 Time: 11:43
Peak Area (A-s): 0.023 Peak Height (A): 0.021
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.77

Rerun ED 12/18/96

Replicate 2 Time: 11:46
Peak Area (A-s): 0.013 Peak Height (A): 0.011
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.48

Mean Conc (ug/L): 2.62 SD: 1.621 RSD(%): 61.76

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Pb ID: 9611G806-001 5X Seq. No.: 00014 A/S Pos.: 6 Date: 12/18/96

Replicate 1 Time: 11:48
Peak Area (A-s): 0.120 Peak Height (A): 0.242
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 24.64

Replicate 2 Time: 11:51
Peak Area (A-s): 0.118 Peak Height (A): 0.249
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 24.02

Mean Conc (ug/L): 24.33 SD: 0.439 RSD(%): 1.80

Recovery is 108.5%

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Pb ID: 9611G806-001R 5 Seq. No.: 00015 A/S Pos.: 7 Date: 12/18/96

Replicate 1 Time: 11:53
Peak Area (A-s): 0.012 Peak Height (A): 0.009
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.32

Replicate 2 Time: 11:56
Peak Area (A-s): 0.008 Peak Height (A): 0.007
Background Pk Area (A-s): 0.156 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.61

Mean Conc (ug/L): 0.97 SD: 0.501 RSD(%): 51.79
~~~~~~

Pb ID: 9611G806-001R 5 Seq. No.: 00016 A/S Pos.: 7/. Date: 12/18/96

Replicate 1 Time: 11:59
Peak Area (A-s): 0.111 Peak Height (A): 0.252
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 22.59

Replicate 2 Time: 12:01
Peak Area (A-s): 0.114 Peak Height (A): 0.258
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 23.23

Mean Conc (ug/L): 22.91 SD: 0.451 RSD(%): 1.97 ✓

Recovery is 109.7% 114.6%

Pb ID: 9611G806-001S 5 Seq. No.: 00017 A/S Pos.: 8 Date: 12/18/96

Replicate 1 Time: 12:04
Peak Area (A-s): 0.023 Peak Height (A): 0.047
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.70

Replicate 2 Time: 12:06
Peak Area (A-s): 0.020 Peak Height (A): 0.047
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.15 85.8%

Mean Conc (ug/L): 3.43 SD: 0.396 RSD(%): 11.55

Pb ID: 9611G806-001S 5 Seq. No.: 00018 A/S Pos.: 8 Date: 12/18/96

Replicate 1 Time: 12:09
Peak Area (A-s): 0.127 Peak Height (A): 0.283
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 25.96

Replicate 2 Time: 12:11
Peak Area (A-s): 0.130 Peak Height (A): 0.288
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 26.67

Mean Conc (ug/L): 26.31 SD: 0.505 RSD(%): 1.92

Recovery is 114.4%

Pb ID: ACCV Seq. No.: 00019 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 12:14

Peak Area (A-s): 0.169 Peak Height (A): 0.182
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.163
Concentration (ug/L): 35.07

Replicate 2 Time: 12:16
Peak Area (A-s): 0.169 Peak Height (A): 0.185
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.163
Concentration (ug/L): 34.95

Mean Conc (ug/L): 35.01 SD: 0.085 RSD(%): 0.24

QC sample is within range 31.5 - 38.5

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Pb ID: CCB Seq. No.: 00020 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 12:19
Peak Area (A-s): 0.007 Peak Height (A): 0.007
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.39

Replicate 2 Time: 12:21
Peak Area (A-s): 0.008 Peak Height (A): 0.009
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.44

Mean Conc (ug/L): 0.41 SD: 0.038 RSD(%): 9.10

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G806-004 5X Seq. No.: 00021 A/S Pos.: 9 Date: 12/18/96

Replicate 1 Time: 12:24
Peak Area (A-s): 0.009 Peak Height (A): 0.008
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.66

Replicate 2 Time: 12:27
Peak Area (A-s): 0.008 Peak Height (A): 0.008
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.58

Mean Conc (ug/L): 0.62 SD: 0.052 RSD(%): 8.34

~~~~~~

Pb ID: 9611G806-004 5X Seq. No.: 00022 A/S Pos.: 9 Date: 12/18/96

Replicate 1 Time: 12:29
Peak Area (A-s): 0.111 Peak Height (A): 0.164
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 22.61
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Pb ID: ACCV Seq. No.: 00029 A/S Pos.: 2/ Date: 12/18/96

Replicate 1 Time: 13:04
Peak Area (A-s): 0.174 Peak Height (A): 0.190
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.168
Concentration (ug/L): 36.03

Replicate 2 Time: 13:07
Peak Area (A-s): 0.172 Peak Height (A): 0.178
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.166
Concentration (ug/L): 35.64

Mean Conc (ug/L): 35.84 SD: 0.276 RSD(%): 0.77

QC sample is within range 31.5 - 38.5

~~~~~~
Pb ID: CCB Seq. No.: 00030 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 13:09
Peak Area (A-s): 0.006 Peak Height (A): 0.011
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): 0.01

Replicate 2 Time: 13:12
Peak Area (A-s): 0.007 Peak Height (A): 0.010
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.38

Mean Conc (ug/L): 0.20 SD: 0.258 RSD(%): 131.14

QC sample is within range -3.0 - 2.0

~~~~~~
Pb ID: 9611G726-001 10 Seq. No.: 00031 A/S Pos.: 13 Date: 12/18/96

Replicate 1 Time: 13:15
Peak Area (A-s): 0.059 Peak Height (A): 0.098
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 11.47

Replicate 2 Time: 13:17
Peak Area (A-s): 0.057 Peak Height (A): 0.100
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 11.05

Mean Conc (ug/L): 11.26 SD: 0.296 RSD(%): 2.63

~~~~~~
Pb ID: 9611G726-001 10 Seq. No.: 00032 A/S Pos.: 13 Date: 12/18/96

Replicate 1 Time: 13:20

325

Mean Conc (ug/L): 24.49 SD: 0.484 RSD(%): 1.98

Recovery is 114.6%

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Pb ID: ACCV Seq. No.: 00039 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 13:55
Peak Area (A-s): 0.178 Peak Height (A): 0.211
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 36.89

Replicate 2 Time: 13:57
Peak Area (A-s): 0.175 Peak Height (A): 0.187
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 36.35

Mean Conc (ug/L): 36.62 SD: 0.384 RSD(%): 1.05

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00040 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 14:00
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.31

Replicate 2 Time: 14:03
Peak Area (A-s): 0.009 Peak Height (A): 0.010
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.80

Mean Conc (ug/L): 0.55 SD: 0.346 RSD(%): 62.68

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G726-005 10 Seq. No.: 00041 A/S Pos.: 17 Date: 12/18/96

Replicate 1 Time: 14:05
Peak Area (A-s): 0.021 Peak Height (A): 0.036
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.31

Replicate 2 Time: 14:08
Peak Area (A-s): 0.020 Peak Height (A): 0.036
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.08

Mean Conc (ug/L): 3.19 SD: 0.163 RSD(%): 5.10
~~~~~~

Peak Area (A-s): 0.151 Peak Height (A): 0.295
Background Pk Area (A-s): 0.154 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 31.21

Mean Conc (ug/L): 31.33 SD: 0.175 RSD(%): 0.56 ✓

Recovery is 105.8% ✓

~~~~~~

Pb ID: ACCV Seq. No.: 00049 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 14:45
Peak Area (A-s): 0.176 Peak Height (A): 0.197
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.170
Concentration (ug/L): 36.60

Replicate 2 Time: 14:48
Peak Area (A-s): 0.175 Peak Height (A): 0.188
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 36.27

Mean Conc (ug/L): 36.44 SD: 0.232 RSD(%): 0.64 ✓

QC sample is within range 31.5 - 38.5

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Pb ID: CCB Seq. No.: 00050 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 14:50
Peak Area (A-s): 0.008 Peak Height (A): 0.015
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.54

Replicate 2 Time: 14:53
Peak Area (A-s): 0.007 Peak Height (A): 0.010
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.26

Mean Conc (ug/L): 0.40 SD: 0.197 RSD(%): 48.82

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G726-009 5X Seq. No.: 00051 A/S Pos.: 21 Date: 12/18/96

Replicate 1 Time: 14:55
Peak Area (A-s): 0.029 Peak Height (A): 0.045
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 4.93

Replicate 2 Time: 14:58
Peak Area (A-s): 0.024 Peak Height (A): 0.044
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.054
~~~~~~

Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 26.21

Replicate 2 Time: 15:33
Peak Area (A-s): 0.131 Peak Height (A): 0.264
Background Pk Area (A-s): 0.203 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.125
Concentration (ug/L): 26.93

Mean Conc (ug/L): 26.57 SD: 0.508 RSD(%): 1.91

Recovery is 110.5%

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Pb ID: ACCV Seq. No.: 00059 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 15:36
Peak Area (A-s): 0.188 Peak Height (A): 0.232
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.182
Concentration (ug/L): 39.19

Replicate 2 Time: 15:38
Peak Area (A-s): 0.162 Peak Height (A): 0.174
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 33.51

Mean Conc (ug/L): 36.35 SD: 4.012 RSD(%): 11.04

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00060 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 15:41
Peak Area (A-s): 0.011 Peak Height (A): 0.014
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.05

Replicate 2 Time: 15:43
Peak Area (A-s): 0.006 Peak Height (A): 0.008
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): 0.06

Mean Conc (ug/L): 0.55 SD: 0.705 RSD(%): 127.31

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G726-012R 5 Seq. No.: 00062 A/S Pos.: 6 Date: 12/18/96

Replicate 1 Time: 15:48
Peak Area (A-s): 0.018 Peak Height (A): 0.032
Background Pk Area (A-s): 0.160 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.59

328
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329

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Pb   ID: 9611G726-014 5X   Seq. No.: 00069   A/S Pos.: 9/   Date: 12/18/96

Replicate 1   Time: 16:23
Peak Area (A-s): 0.121   Peak Height (A): 0.243
Background Pk Area (A-s): 0.152   Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 24.75

Replicate 2   Time: 16:26
Peak Area (A-s): 0.120   Peak Height (A): 0.240
Background Pk Area (A-s): 0.158   Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 24,57

Mean Conc (ug/L): 24.66   SD: 0.129   RSD(%): 0.52

Recovery is 115.1%

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Pb   ID: ACCV   Seq. No.: 00070   A/S Pos.: 2   Date: 12/18/96

Replicate 1   Time: 16:28
Peak Area (A-s): 0.164   Peak Height (A): 0.198
Background Pk Area (A-s): 0.046   Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 33.93

Replicate 2   Time: 16:31
Peak Area (A-s): 0.162   Peak Height (A): 0.168
Background Pk Area (A-s): 0.040   Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 33.48

Mean Conc (ug/L): 33.71   SD: 0.320   RSD(%): 0.95

QC sample is within range 31.5 - 38.5

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Pb   ID: CCB   Seq. No.: 00071   A/S Pos.: 3   Date: 12/18/96

Replicate 1   Time: 16:33
Peak Area (A-s): 0.009   Peak Height (A): 0.011
Background Pk Area (A-s): 0.004   Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.71

Replicate 2   Time: 16:36
Peak Area (A-s): 0.008   Peak Height (A): 0.010
Background Pk Area (A-s): 0.003   Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.46

Mean Conc (ug/L): 0.59   SD: 0.178   RSD(%): 30.32

QC sample is within range -3.0 - 2.0
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Pb ID: 96GF364-MB1 Seq. No.: 00072 A/S Pos.: 10 Date: 12/18/96

Replicate 1 Time: 16:39
Peak Area (A-s): 0.009 Peak Height (A): 0.009
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.75

Report EO 12/18/96 ~~Rerun EO 12/18/96~~ EO 12/18/96

Replicate 2 Time: 16:41
Peak Area (A-s): 0.012 Peak Height (A): 0.011
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.31

ok

Mean Conc (ug/L): 1.03 "B" SD: 0.400 RSD(%): 38.83

Pb ID: 96GF364-MB1 Seq. No.: 00073 A/S Pos.: 10 Date: 12/18/96

Replicate 1 Time: 16:44
Peak Area (A-s): 0.113 Peak Height (A): 0.132
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 23.06

Replicate 2 Time: 16:46
Peak Area (A-s): 0.114 Peak Height (A): 0.130
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 23.35

Mean Conc (ug/L): 23.21 SD: 0.207 RSD(%): 0.89

Recovery is 110.9%

Pb ID: 96GF364-MB1 Seq. No.: 00076 A/S Pos.: 10 Date: 12/18/96

Replicate 1 ~~Time: 16:50~~
~~Peak Area (A-s): 0.011~~ Peak Height (A): 0.011
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.21

EO 12/19/96

Pb ID: ACCV Seq. No.: 00078 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 16:54
Peak Area (A-s): 0.161 Peak Height (A): 0.170
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.155
Concentration (ug/L): 33.34

Replicate 2 Time: 16:56
Peak Area (A-s): 0.160 Peak Height (A): 0.168
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.154
Concentration (ug/L): 33.11

Mean Conc (ug/L): 33.22 SD: 0.159 RSD(%): 0.48

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Pb ID: CCB Seq. No.: 00079 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 16:59
Peak Area (A-s): 0.009 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.79

Replicate 2 Time: 17:02
Peak Area (A-s): 0.009 Peak Height (A): 0.012
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.69

Mean Conc (ug/L): 0.74 SD: 0.071 RSD(%): 9.57

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Pb ID: 96GF364-LC1 Seq. No.: 00080 A/S Pos.: 11 Date: 12/18/96

Replicate 1 Time: 17:04
Peak Area (A-s): 0.105 Peak Height (A): 0.114
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 21.29

Replicate 2 Time: 17:07
Peak Area (A-s): 0.103 Peak Height (A): 0.110
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.097
Concentration (ug/L): 20.91

105.52

Mean Conc (ug/L): 21.10 SD: 0.270 RSD(%): 1.28

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Pb ID: 96GF364-LC1 Seq. No.: 00081 A/S Pos.: 11 Date: 12/18/96

Replicate 1 Time: 17:09
Peak Area (A-s): 0.194 Peak Height (A): 0.214
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.188
Concentration (ug/L): 40.40

Replicate 2 Time: 17:12
Peak Area (A-s): 0.197 Peak Height (A): 0.216
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.191
Concentration (ug/L): 41.00

Mean Conc (ug/L): 40.70 SD: 0.429 RSD(%): 1.05

Recovery is 98.0%

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Pb ID: 96GF364-LC2 Seq. No.: 00082 A/S Pos.: 12 Date: 12/18/96

Replicate 1 Time: 17:14

Peak Area (A-s): 0.122 Peak Height (A): 0.233
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 25.02

Mean Conc (ug/L): 25.20 SD: 0.257 RSD(%): 1.02

Recovery is 95.7%

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Pb ID: 9612G968-001R Seq. No.: 00086 A/S Pos.: 14 Date: 12/18/96

Replicate 1 Time: 17:34
Peak Area (A-s): 0.026 Peak Height (A): 0.045
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.45

Replicate 2 Time: 17:37
Peak Area (A-s): 0.028 Peak Height (A): 0.045
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 4.88

Mean Conc (ug/L): 4.66 SD: 0.304 RSD(%): 6.52

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Pb ID: 9612G968-001R Seq. No.: 00087 A/S Pos.: 14 Date: 12/18/96

Replicate 1 Time: 17:40
Peak Area (A-s): 0.118 Peak Height (A): 0.225
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 24.01

Replicate 2 Time: 17:42
Peak Area (A-s): 0.119 Peak Height (A): 0.229
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 24.28

Mean Conc (ug/L): 24.15 SD: 0.196 RSD(%): 0.81

Recovery is 97.4%

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Pb ID: ACCV Seq. No.: 00088 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 17:45
Peak Area (A-s): 0.164 Peak Height (A): 0.177
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 33.94

Replicate 2 Time: 17:47
Peak Area (A-s): 0.165 Peak Height (A): 0.168
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 34.21

332
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Mean Conc (ug/L): 34.08 SD: 0.193 RSD(%): 0.57

QC sample is within range 31.5 - 38.5

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Pb ID: CCB Seq. No.: 00089 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 17:50
Peak Area (A-s): 0.008 Peak Height (A): 0.011
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.53

Replicate 2 Time: 17:52
Peak Area (A-s): 0.009 Peak Height (A): 0.010
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.72

Mean Conc (ug/L): 0.63 SD: 0.133 RSD(%): 21.25

QC sample is within range -3.0 - 2.0

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Pb ID: 9612G968-001S Seq. No.: 00090 A/S Pos.: 15 Date: 12/18/96

Replicate 1 Time: 17:55
Peak Area (A-s): 0.114 Peak Height (A): 0.217
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 23.34

Replicate 2 Time: 17:57
Peak Area (A-s): 0.116 Peak Height (A): 0.216
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.110
Concentration (ug/L): 23.67

Mean Conc (ug/L): 23.50 87.28 SD: 0.236 RSD(%): 1.01

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Pb ID: 9612G968-001S Seq. No.: 00091 A/S Pos.: 15 Date: 12/18/96

Replicate 1 Time: 18:00
Peak Area (A-s): 0.199 Peak Height (A): 0.373
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 41.55

Replicate 2 Time: 18:02
Peak Area (A-s): 0.201 Peak Height (A): 0.370
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 41.85

Mean Conc (ug/L): 41.70 SD: 0.212 RSD(%): 0.51

Recovery is 91.0%
~~~~~~

Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 26.63

Replicate 2 Time: 18:22
Peak Area (A-s): 0.132 Peak Height (A): 0.278
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 27.19

Mean Conc (ug/L): 26.91 SD: 0.399 RSD(%): 1.48

Recovery is 96.9%

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Pb ID: 9612G968-004 Seq. No.: 00096 A/S Pos.: 18 Date: 12/18/96

Replicate 1 Time: 18:25
Peak Area (A-s): 0.079 Peak Height (A): 0.143
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 15.73

Replicate 2 Time: 18:27
Peak Area (A-s): 0.078 Peak Height (A): 0.148
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 15.60

Mean Conc (ug/L): 15.66 SD: 0.088 RSD(%): 0.56

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Pb ID: 9612G968-004 Seq. No.: 00097 A/S Pos.: 18 Date: 12/18/96

Replicate 1 Time: 18:30
Peak Area (A-s): 0.164 Peak Height (A): 0.310
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 33.95

Replicate 2 Time: 18:32
Peak Area (A-s): 0.163 Peak Height (A): 0.300
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 33.86

Mean Conc (ug/L): 33.90 SD: 0.064 RSD(%): 0.19

Recovery is 91.2%

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Pb ID: ACCV Seq. No.: 00098 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 18:35
Peak Area (A-s): 0.168 Peak Height (A): 0.179
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 34.84

Replicate 2 Time: 18:37
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Peak Area (A-s): 0.166 Peak Height (A): 0.170
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 34.37

Mean Conc (ug/L): 34.60 SD: 0.333 RSD(%): 0.96

QC sample is within range 31.5 - 38.5

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Pb ID: CCB Seq. No.: 00099 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 18:40
Peak Area (A-s): 0.011 Peak Height (A): 0.015
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.23

Replicate 2 Time: 18:43
Peak Area (A-s): 0.008 Peak Height (A): 0.010
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.47

Mean Conc (ug/L): 0.85 SD: 0.536 RSD(%): 62.94

QC sample is within range -3.0 - 2.0

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Pb ID: 9612G968-005 Seq. No.: 00100 A/S Pos.: 19 Date: 12/18/96

Replicate 1 Time: 18:45
Peak Area (A-s): 0.137 Peak Height (A): 0.245
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.131
Concentration (ug/L): 28.25

Rerun 5x
12/19/96

Replicate 2 Time: 18:48
Peak Area (A-s): 0.136 Peak Height (A): 0.241
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 28.05

Mean Conc (ug/L): 28.15 SD: 0.140 RSD(%): 0.50

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Pb ID: 9612G968-005 Seq. No.: 00101 A/S Pos.: 19 Date: 12/18/96

Replicate 1 Time: 18:50
Peak Area (A-s): 0.213 Peak Height (A): 0.371
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.097
Blank Corrected Pk Area (A-s): 0.207
Concentration (ug/L): 44.49

Replicate 2 Time: 18:53
Peak Area (A-s): 0.213 Peak Height (A): 0.377
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.207
Concentration (ug/L): 44.38

335
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336

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Pb   ID: 9612G968-007   Seq. No.: 00105   A/S Pos.: 21   Date: 12/18/96

Replicate 1   Time: 19:10
Peak Area (A-s): 0.145   Peak Height (A): 0.295
Background Pk Area (A-s): 0.080   Background Pk Height (A): 0.117
Blank Corrected Pk Area (A-s): 0.139
Concentration (ug/L): 29.92

Replicate 2   Time: 19:13
Peak Area (A-s): 0.142   Peak Height (A): 0.295
Background Pk Area (A-s): 0.093   Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.136
Concentration (ug/L): 29.26

Mean Conc (ug/L): 29.59   SD: 0.466   RSD(%): 1.57 ✓

Recovery is 89.2% ✓

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Pb   ID: 9612G968-008   Seq. No.: 00106   A/S Pos.: 22   Date: 12/18/96

Replicate 1   Time: 19:15
Peak Area (A-s): 0.095   Peak Height (A): 0.149
Background Pk Area (A-s): 0.082   Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 19.24

Rerun 2x ED 12/19/96

Replicate 2   Time: 19:18
Peak Area (A-s): 0.092   Peak Height (A): 0.152
Background Pk Area (A-s): 0.086   Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 18.51

Mean Conc (ug/L): 18.87   SD: 0.518   RSD(%): 2.74 ✓

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Pb   ID: 9612G968-008   Seq. No.: 00107   A/S Pos.: 22   Date: 12/18/96

Replicate 1   Time: 19:20
Peak Area (A-s): 0.167   Peak Height (A): 0.320
Background Pk Area (A-s): 0.101   Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 34.55

Replicate 2   Time: 19:23
Peak Area (A-s): 0.165   Peak Height (A): 0.314
Background Pk Area (A-s): 0.103   Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 34.19

Mean Conc (ug/L): 34.37   SD: 0.259   RSD(%): 0.75 ✓

Recovery is 77.5%

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Pb   ID: ACCV   Seq. No.: 00108   A/S Pos.: 2   Date: 12/18/96

Replicate 1   Time: 19:25

Peak Area (A-s): 0.170	Peak Height (A): 0.204
Background Pk Area (A-s): 0.044	Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 35.18

Replicate 2	Time: 19:28
Peak Area (A-s): 0.166	Peak Height (A): 0.167
Background Pk Area (A-s): 0.042	Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 34.50

Mean Conc (ug/L): 34.84	SD: 0.477	RSD(%): 1.37

QC sample is within range 31.5 - 38.5

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Pb ID: CCB	Seq. No.: 00109	A/S Pos.: 3	Date: 12/18/96

Replicate 1	Time: 19:30
Peak Area (A-s): 0.010	Peak Height (A): 0.015
Background Pk Area (A-s): 0.001	Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.90

Replicate 2	Time: 19:33
Peak Area (A-s): 0.011	Peak Height (A): 0.012
Background Pk Area (A-s): 0.001	Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.13

Mean Conc (ug/L): 1.01	SD: 0.164	RSD(%): 16.16

QC sample is within range -3.0 - 2.0

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Pb ID: 9611G806-001 5X	Seq. No.: 00110	A/S Pos.: 23	Date: 12/18/96

Replicate 1	Time: 19:35
Peak Area (A-s): 0.012	Peak Height (A): 0.012
Background Pk Area (A-s): 0.144	Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.43

Replicate 2	Time: 19:38
Peak Area (A-s): 0.019	Peak Height (A): 0.031
Background Pk Area (A-s): 0.161	Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 2.85

ok-DL

Mean Conc (ug/L): 2.14	SD: 1.001	RSD(%): 46.73

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Pb ID: 9611G806-001 5X	Seq. No.: 00111	A/S Pos.: 23	Date: 12/18/96

Replicate 1	Time: 19:40
Peak Area (A-s): 0.121	Peak Height (A): 0.266
Background Pk Area (A-s): 0.128	Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 24.85

337
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Replicate 2 Time: 19:43
Peak Area (A-s): 0.121 Peak Height (A): 0.269
Background Pk Area (A-s): 0.127 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 24.78

Mean Conc (ug/L): 24.81 SD: 0.049 RSD(%): 0.20

Recovery is 113.3%

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Pb ID: 96GF337-MB1 Seq. No.: 00112 A/S Pos.: 24 Date: 12/18/96

Replicate 1 Time: 19:45
Peak Area (A-s): 0.017 Peak Height (A): 0.026
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.46

Rerun ED 12/19/96

Replicate 2 Time: 19:48
Peak Area (A-s): 0.015 Peak Height (A): 0.018
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.05

Mean Conc (ug/L): 2.25 SD: 0.295 RSD(%): 13.07

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Pb ID: 96GF337-MB1 Seq. No.: 00113 A/S Pos.: 24 Date: 12/18/96

Replicate 1 Time: 19:50
Peak Area (A-s): 0.114 Peak Height (A): 0.126
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 23.17

Replicate 2 Time: 19:53
Peak Area (A-s): 0.113 Peak Height (A): 0.122
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 22.97

Mean Conc (ug/L): 23.07 SD: 0.142 RSD(%): 0.62

Recovery is 104.1%

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Pb ID: 96GF345-MB1 Seq. No.: 00114 A/S Pos.: 25 Date: 12/18/96

Replicate 1 Time: 19:56
Peak Area (A-s): 0.013 Peak Height (A): 0.012
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.53

Replicate 2 Time: 19:58
Peak Area (A-s): 0.011 Peak Height (A): 0.010
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.005

338
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Concentration (ug/L): 1.14 "B"

Mean Conc (ug/L): 1.34 SD: 0.276 RSD(%): 20.66 ✓

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Pb ID: 96GF345-MB1 Seq. No.: 00115 A/S Pos.: 25 Date: 12/18/96

Replicate 1 Time: 20:01
Peak Area (A-s): 0.108 Peak Height (A): 0.113
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 22.04

Replicate 2 Time: 20:03
Peak Area (A-s): 0.112 Peak Height (A): 0.115
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 22.83

Mean Conc (ug/L): 22.44 SD: 0.559 RSD(%): 2.49 ✓

Recovery is 105.5% ✓

~~~~~~

Pb ID: 96GF345-LC1 Seq. No.: 00116 A/S Pos.: 26 Date: 12/18/96

Replicate 1 Time: 20:06
Peak Area (A-s): 0.113 Peak Height (A): 0.114
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 22.95

Replicate 2 Time: 20:08
Peak Area (A-s): 0.113 Peak Height (A): 0.112
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 22.97

Mean Conc (ug/L): 22.96 114.86 SD: 0.016 RSD(%): 0.07 ✓

~~~~~~

Pb ID: 96GF345-LC1 Seq. No.: 00117 A/S Pos.: 26 Date: 12/18/96

Replicate 1 Time: 20:11
Peak Area (A-s): 0.210 Peak Height (A): 0.218
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.205
Concentration (ug/L): 43.95

Replicate 2 Time: 20:13
Peak Area (A-s): 0.213 Peak Height (A): 0.226
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.207
Concentration (ug/L): 44.41

Mean Conc (ug/L): 44.18 SD: 0.330 RSD(%): 0.75

Recovery is 106.1% ✓
~~~~~~

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Pb ID: ACCV Seq. No.: 00118 A/S Pos.: 2. Date: 12/18/96

Replicate 1 Time: 20:16
Peak Area (A-s): 0.175 Peak Height (A): 0.177
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 36.39

Replicate 2 Time: 20:18
Peak Area (A-s): 0.171 Peak Height (A): 0.162
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 35,56

Mean Conc (ug/L): 35.97 SD: 0.587 RSD(%): 1.63

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00119 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 20:21
Peak Area (A-s): 0.011 Peak Height (A): 0.015
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.10

Replicate 2 Time: 20:24
Peak Area (A-s): 0.008 Peak Height (A): 0.013
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.49

Mean Conc (ug/L): 0.80 SD: 0.431 RSD(%): 54.16

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9611G675-001 5X Seq. No.: 00120 A/S Pos.: 27 Date: 12/18/96

Replicate 1 Time: 20:26
Peak Area (A-s): 0.102 Peak Height (A): 0.184
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 20.71

Replicate 2 Time: 20:29
Peak Area (A-s): 0.107 Peak Height (A): 0.189
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 21.72

Mean Conc (ug/L): 21.21 SD: 0.711 RSD(%): 3.35

~~~~~~

Pb ID: 9611G675-001 5X Seq. No.: 00121 A/S Pos.: 27 Date: 12/18/96

Replicate 1 Time: 20:31

340

Peak Area (A-s): 0.193 Peak Height (A): 0.355
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.187
Concentration (ug/L): 40.15

Replicate 2 Time: 20:34
Peak Area (A-s): 0.194 Peak Height (A): 0.349
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.188
Concentration (ug/L): 40.36

Mean Conc (ug/L): 40.25 SD: 0.148 RSD(%): 0.37

Recovery is 95.2%

~~~~~~

Pb ID: 9611G675-001R 5 Seq. No.: 00122 A/S Pos.: 28 Date: 12/18/96

Replicate 1 Time: 20:36
Peak Area (A-s): 0.086 Peak Height (A): 0.146
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 17.21

Replicate 2 Time: 20:39
Peak Area (A-s): 0.086 Peak Height (A): 0.146
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 17.21

Mean Conc (ug/L): 17.21 SD: 0.003 RSD(%): 0.02

~~~~~~

Pb ID: 9611G675-001R 5 Seq. No.: 00123 A/S Pos.: 28 Date: 12/18/96

Replicate 1 Time: 20:42
Peak Area (A-s): 0.182 Peak Height (A): 0.303
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.176
Concentration (ug/L): 37.80

Replicate 2 Time: 20:44
Peak Area (A-s): 0.178 Peak Height (A): 0.310
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 36.89

Mean Conc (ug/L): 37.35 SD: 0.641 RSD(%): 1.72

Recovery is 100.7%

~~~~~~

Pb ID: 9611G675-001S 5 Seq. No.: 00124 A/S Pos.: 29 Date: 12/18/96

Replicate 1 Time: 20:47
Peak Area (A-s): 0.113 Peak Height (A): 0.194
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 23.00

341
~~~~~~

Replicate 2 Time: 20:49
Peak Area (A-s): 0.112 Peak Height (A): 0.181
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 22.76

Mean Conc (ug/L): 22.88 SD: 0.169 RSD(%): 0.74

~~~~~~

Pb ID: 9611G675-001S 5 Seq. No.: 00125 A/S Pos.: 29 Date: 12/18/96

Replicate 1 Time: 20:52
Peak Area (A-s): 0.205 Peak Height (A): 0.360
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.199
Concentration (ug/L): 42.76

Replicate 2 Time: 20:54
Peak Area (A-s): 0.201 Peak Height (A): 0.350
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 41.89

Mean Conc (ug/L): 42.33 SD: 0.615 RSD(%): 1.45

Recovery is 97.2%

~~~~~~

Pb ID: 9611G675-002 5X Seq. No.: 00126 A/S Pos.: 30 Date: 12/18/96

Replicate 1 Time: 20:57
Peak Area (A-s): 0.049 Peak Height (A): 0.049
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 9.25

Replicate 2 Time: 20:59
Peak Area (A-s): 0.045 Peak Height (A): 0.047
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 8.41

Mean Conc (ug/L): 8.83 SD: 0.592 RSD(%): 6.71

~~~~~~

Pb ID: 9611G675-002 5X Seq. No.: 00127 A/S Pos.: 30 Date: 12/18/96

Replicate 1 Time: 21:02
Peak Area (A-s): 0.144 Peak Height (A): 0.151
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.138
Concentration (ug/L): 29.62

Replicate 2 Time: 21:05
Peak Area (A-s): 0.144 Peak Height (A): 0.153
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.138
Concentration (ug/L): 29.79
~~~~~~

Mean Conc (ug/L): 29.70 SD: 0.122 RSD(%): 0.41

Recovery is 104.4% ✓

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Pb ID: ACCV Seq. No.: 00128 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 21:07
Peak Area (A-s): 0.174 Peak Height (A): 0.168
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.168
Concentration (ug/L): 36.14

Replicate 2 Time: 21:10
Peak Area (A-s): 0.174 Peak Height (A): 0.156
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.168
Concentration (ug/L): 36.16

Mean Conc (ug/L): 36.15 SD: 0.017 RSD(%): 0.05

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00129 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 21:12
Peak Area (A-s): 0.009 Peak Height (A): 0.012
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.82

Replicate 2 Time: 21:15
Peak Area (A-s): 0.009 Peak Height (A): 0.013
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.67

Mean Conc (ug/L): 0.74 SD: 0.107 RSD(%): 14.38

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9611G675-007 5X Seq. No.: 00130 A/S Pos.: 31 Date: 12/18/96

Replicate 1 Time: 21:17
Peak Area (A-s): 0.083 Peak Height (A): 0.152
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 16.55

Replicate 2 Time: 21:20
Peak Area (A-s): 0.082 Peak Height (A): 0.151
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 16.47

Mean Conc (ug/L): 16.51 SD: 0.059 RSD(%): 0.36
~~~~~~

Pb ID: 9611G675-007 5X Seq. No.: 00131 A/S Pos.: 34 Date: 12/18/96

Replicate 1 Time: 21:22
Peak Area (A-s): 0.176 Peak Height (A): 0.326
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.170
Concentration (ug/L): 36.51

Replicate 2 Time: 21:25
Peak Area (A-s): 0.175 Peak Height (A): 0.325
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 36,43

Mean Conc (ug/L): 36.47 SD: 0.057 RSD(%): 0.16

Recovery is 99.8%

Pb ID: 96GF347-MB1 Seq. No.: 00132 A/S Pos.: 32 Date: 12/18/96

Replicate 1 Time: 21:27
Peak Area (A-s): 0.034 Peak Height (A): 0.033
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 6.14

Rerun EO 12/19/96

Replicate 2 Time: 21:30
Peak Area (A-s): 0.031 Peak Height (A): 0.030
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L): 5.36

Mean Conc (ug/L): 5.75 SD: 0.556 RSD(%): 9.67

Pb ID: 96GF347-MB1 Seq. No.: 00133 A/S Pos.: 32 Date: 12/18/96

Replicate 1 Time: 21:33
Peak Area (A-s): 0.130 Peak Height (A): 0.134
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 26.71

Replicate 2 Time: 21:35
Peak Area (A-s): 0.133 Peak Height (A): 0.137
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.127
Concentration (ug/L): 27.24

Mean Conc (ug/L): 26.98 SD: 0.372 RSD(%): 1.38

Recovery is 106.1%

Pb ID: 96GF347-LC1 Seq. No.: 00134 A/S Pos.: 33 Date: 12/18/96

Replicate 1 Time: 21:38

344

Peak Area (A-s): 0.218 Peak Height (A): 0.222
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.212
Concentration (ug/L): 45.50

Mean Conc (ug/L): 45.49 SD: 0.005 RSD(%): 0.01

Recovery is 104.4%

~~~~~~

Pb ID: ACCV Seq. No.: 00138 A/S Pos.: 2 Date: 12/18/96

Replicate 1 Time: 21:58
Peak Area (A-s): 0.181 Peak Height (A): 0.167
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 37.57

Replicate 2 Time: 22:00
Peak Area (A-s): 0.175 Peak Height (A): 0.155
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 36.40

Mean Conc (ug/L): 36.98 SD: 0.830 RSD(%): 2.25

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00139 A/S Pos.: 3 Date: 12/18/96

Replicate 1 Time: 22:03
Peak Area (A-s): 0.012 Peak Height (A): 0.017
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.39

Replicate 2 Time: 22:05
Peak Area (A-s): 0.011 Peak Height (A): 0.018
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.09

Mean Conc (ug/L): 1.24 SD: 0.211 RSD(%): 17.03

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9611G766-001 Seq. No.: 00140 A/S Pos.: 35 Date: 12/18/96

Replicate 1 Time: 22:08
Peak Area (A-s): 0.114 Peak Height (A): 0.277
Background Pk Area (A-s): 0.287 Background Pk Height (A): 0.133
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 23.32

QC out ED 12/19/96
no good data below

Replicate 2 Time: 22:11
Peak Area (A-s): 0.141 Peak Height (A): 0.319
Background Pk Area (A-s): 0.298 Background Pk Height (A): 0.156

345
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(5)

WESTON Analytics AA8.1 Report

Data File:SE1221C1 Date Collected: 96/12/21 Time:
Method File: Date of Report: Time:
Analyst: ed

	SE oob				
S0	0.00	MSETO	1.0		10:15
S2	0.00	MSETO	1.0		10:21
S5	3.50	MSETO	1.0		10:26
S20	18.77	MSETO	1.0		10:32
S40	39.52	MSETO	1.0		10:38
S50	48.61	MSETO	1.0		10:44
ICVF	35.76	MSETO	1.0		10:49
ICB	1.13	MSETO	1.0		10:55
CRA	6.00	MSETO	1.0		11:01
CCVF1	26.36	MSETO	1.0		11:06
CCB1	0.95	MSETO	1.0		11:12
~~96128113-001S~~	~~3.99~~	~~MSETOS~~	~~2.0~~	~~966F371~~	~~11:18~~ ED 12/23/96
~~96126113-002~~	~~0.85~~	~~MSETO~~	~~5.0~~	~~966F371~~	~~11:30~~ ED 12/23/96
96126846-002S	4.93	MSETOS	2.0	966F350	11:41
CCVF2	25.95	MSETO	1.0		12:05
CCB2	0.53	MSETO	1.0		12:11
966F338-LC1	10.32	MSELCS	1.0	966F338	12:16
966F338-LC2	9.69	MSELCS	1.0	966F338	12:28
96116722-001	0.74	MSETO	1.0	966F338	12:40
96116722-001R	0.06	MSETOR	1.0	966F338	12:52
CCVF3	25.33	MSETO	1.0		13:03
CCB3	-0.43	MSETO	1.0		13:09
96116722-001S	7.52	MSETOS	1.0	966F338	13:15
96116722-002	-1.76	MSESO	1.0	966F338	13:27
CCVF4	25.03	MSETO	1.0		14:02
CCB4	-0.59	MSETO	1.0		14:08
96116722-006	0.80	MSETO	1.0	966F338	14:14
96116722-007	-0.35	MSESO	1.0	966F338	14:25
96116722-008	-0.86	MSETO	1.0	966F338	14:37
96116722-009	-1.06	MSESO	1.0	966F338	14:48
CCVF5	24.82	MSETO	1.0		15:00
CCB5	-1.03	MSETO	1.0		15:06
96116722-011	-0.54	MSESO	1.0	966F338	15:23
96116722-013	-1.33	MSESO	1.0	966F338	15:46
CCVF6	24.57	MSETO	1.0		15:58
CCB6	-1.50	MSETO	1.0		16:04
96116722-014	0.95	MSETO	1.0	966F338	16:09
96116722-015	-0.78	MSESO	1.0	966F338	16:21
966F340-MB1	-0.87	MSETO	1.0	966F340	16:44
CCVF7	25.38	MSETO	1.0		16:56
CCB7	-0.46	MSETO	1.0		17:02
966F340-LC1	9.32	MSELCS	1.0	966F340	17:07
966F340-LC2	9.98	MSELCS	1.0	966F340	17:19
96116708-001	-0.98	MSETO	1.0	966F340	17:30
96116708-001R	-1.05	MSETOR	1.0	966F340	17:42
CCVF8	25.45	MSETO	1.0		17:54
CCB8	-0.49	MSETO	1.0		17:59
96116708-002	-0.44	MSESO	1.0	966F340	18:17
96116[illegible]R	-1.14	MSESOR	1.0	966F340	18:28
CCVF9	26.04	MSETO	1.0		18:52
CCB9	-0.59	MSETO	1.0		18:57
				966F340	18:[illegible]

updated ED 12/23/96

Debbie Kelly 12/23/96

Eileen [illegible] 12/23/96

IDL 1.4 ug/l *

Run 1

* AA3 1.8
AA8 1.4
report higher of the two

3

966F340-LC1	9.32	MSELCS	1.0	966F340	17:07
966F340-LC2	9.98	MSELCS	1.0	966F340	17:19
96116708-001	-0.98	MSETO	1.0	966F340	17:30
96116708-001R	-1.05	MSETOR	1.0	966F340	17:42
CCVF8	25.45	MSETO	1.0		17:54
CCB8	-0.49	MSETO	1.0		17:59
96116708-002	-0.44	MSESO	1.0	966F340	18:17
96116708-002R	-1.14	MSESOR	1.0	966F340	18:28
CCVF9	26.04	MSETO	1.0		18:52
CCB9	-0.59	MSETO	1.0		18:57
96116708-003	0.37	MSETO	1.0	966F340	19:03
96116708-004	-0.87	MSESO	1.0	966F340	19:15
96116769-001	-3.13	MSESO	1.0	966F340	19:26
CCVF10	25.66	MSETO	1.0		19:50
CCB10	0.45	MSETO	1.0		19:56
96116769-002	0.88	MSETO	1.0	966F340	20:13
96116771-001	-1.63	MSESO	1.0	966F340	20:25
96116771-001R	-1.82	MSESOR	1.0	966F340	20:37
CCVF11	26.12	MSETO	1.0		20:48
CCB11	-1.27	MSETO	1.0		20:54
96116771-002	-0.58	MSETO	1.0	966F340	21:12
966F345-MB1	-0.68	MSETO	1.0	966F345	21:35
CCVF12	26.26	MSETO	1.0		21:47
CCB12	-1.39	MSETO	1.0		21:53
966F345-LC1	8.56	MSELCS	1.0	966F345	21:59
96116675-001	1.02	MSETO	1.0	966F345	22:10
96116675-001R	1.06	MSETOR	1.0	966F345	22:22
96116675-001S	9.33	MSETOS	1.0	966F345	22:34
CCVF13	25.70	MSETO	1.0		22:46
CCB13	-0.95	MSETO	1.0		22:51

(12/23

12/23/96

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Weston Environmental Metrics, Inc.

AA8 - PE4100ZL GFAA Sample Analysis Log

Page: 224

lement: Se

amp: EDL Current: 260 Energy: 55

Filename: Se1221C1

Prep Batch:

S-71

LOC			Pb	Se	As	Tl	Ag	Cd	Cr	Sb
71	STD 1	(ug/L)	2	2	2	2	2	0.2	2	3
72	STD 2 CRA	"	3	5	10	10	5	0.5	5	10
73	STD 3	"	20	20	30	30	20	2.0	20	30
74	STD 4	"	50	40	50	50	40	3.0	30	50
75	STD 5	"	70	50	70	70	50	5.0	50	70
76	CCV	"	35	25	35	35	25	2.5	25	35
77	ICB/CCB	"	0	0	0	0	0	0	0	0
78	Modifier									
79	ICV	"	25	35	25	25	35	3.5	35	25
80	Diluent									
0	Spike Solution	"	40	20	40	40	10	2.0	10	40

QC: a. Standard b. CLP
c. Other

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch		QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
1	9612G113-001S2x				F371	36	9611G769-001R				
2	-002S2x				↓	37	-001S				
3	9612G846-002S2x				F350	38	-002				
4	96GF338-MB1					39	9611G771-001				
5	-LCS1					40	-001R				
6	-LCS2					41	-001S				
7	9611G722-001					42	-002				
8	-001R					43	-004				
9	-001S					44	96GF345-MB1				
10	-002					45	-LCS1				
11	-003					46	9611G675-001				
12	-004					47	-001R				
13	-006					48	-001S				
14	-007					49	-002				
15	-008					50	-003				
16	-009					51	-004				
17	-010					52	-005				
18	-011					53	-006				
19	-012					54	-007				
20	-013					55	-008				
21	-014					56	96GF358-MB1				
22	-015					57	-LCS1				
23	-016					58	-LCS2				
24	96GF340-MB1					59	9612G010-001				
25	-LCS1					60	-001R				
26	-LCS2					61	-001S				
27	9611G708-001					62	9612G022-001				
28	-001R					63	9612G046-003				
29	-001S					64	9612G055-001				
30	-002					65	-003				
31	-002R					66	-004				
32	-002S					67	-005				
33	-003					68	-007				
34	-004					69	-009				
35	9611G769-001					70	9612G034-004				

lyst: Eileen Dusch Date: 12/21/96

iewer: Debbie Kelly Date: 12/23/96

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RFW 21-21G-1590/B-05/96

Element File: SECLP080.GEL
Element: Se Analyst: DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
STANDARDS 2100-48-7
ICV,CCV'S 2100-48-8
MODIFIER PD(NO3)2 + MG(NO3)2 LCS/MS= 10.0 ug/L
EDL SERIAL NO. 1868
ANALYSTS DEBBIE KELLY

INSTRUMENT: 4100 ZL Technique: HGA Version: 7.30
Wavelength: 196.0 Peak Slit: 2.00 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 4.0 Read Delay: 0.0 BOC Time: 1
Sample Replicates: 2 if (= 50.00 ug/L, 2 if) 50.00 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		77	20	15	5	
Standard 1	S2	2.00	71	20	15	5	
Standard 2	S5	5.00	72	20	15	5	
Standard 3	S20	20.00	73	20	15	5	
Standard 4	S40	40.00	74	20	15	5	
Standard 5	S50	50.00	75	20	15	5	
Samples				20	15	5	

Diluent Location: 80
Modifier #1 Location: 78 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	140	10	15	250		Norm
2	180	30	1	250		Norm
3	250	1	10	250		Norm
4	1300	10	10	250		Norm
5	2000	0	5	0	*	Norm
6	2600	1	5	250		Norm
7	20	1	5	250		Norm

Injection Temp: 120 Pipette Speed: 100% Extraction System: On

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SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 5.00 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
10 uL of 20 ug/L Standard at Location 0 Gives 10.00 ug/L
Measure Recovery on Samples: 1-70
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	79	AICV	31.5	38.5	X			
2	77	ICB	-3.0	3.0	X			
3	72	CRA			X			X
4	76	ACCV	22.5	27.5	X	X	X	
5	77	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: SECLP080.GEL Element: Se Wavelength: 196.0
Date: 12/21/96 Time: 10:10 Slit: 2.00 L
Data File: SE1221C1.DAT ID/Wt File: SE122101.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 55
Remark 1: STANDARDS 2100-48-7
Remark 2: ICV,CCV'S 2100-48-8
Remark 3: MODIFIER PD(NO3)2 + MG(NO3)2 LCS/MS= 10.0 ug/L
Remark 4: EDL SERIAL NO. 1868
Remark 5: ANALYSTS DEBBIE KELLY

Se ID: S0 Seq. No.: 00001 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 10:12
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.008

Replicate 2 Time: 10:15
Peak Area (A-s): 0.009 Peak Height (A): 0.021
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.009

Mean Pk Area (A-s): 0.009 SD: 0.0003 RSD(%): 4.04

Auto-zero performed.

Se ID: S2 Seq. No.: 00002 A/S Pos.: 71 Date: 12/21/96

Replicate 1 Time: 10:18
Peak Area (A-s): 0.017 Peak Height (A): 0.030
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.008

Replicate 2 Time: 10:21
Peak Area (A-s): 0.019 Peak Height (A): 0.027
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.010

Mean Pk Area (A-s): 0.009 SD: 0.0014 RSD(%): 15.62

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0045 Int: 0.000

Se ID: S5 Seq. No.: 00003 A/S Pos.: 72 Date: 12/21/96

Replicate 1 Time: 10:23
Peak Area (A-s): 0.023 Peak Height (A): 0.045
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.11

Replicate 2 Time: 10:26
Peak Area (A-s): 0.026 Peak Height (A): 0.040
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.017

Concentration (ug/L): 3.89

Mean Conc (ug/L): 3.50 SD: 0.547 RSD(%): 15.63

Standard number 2 applied. [5.00]
Correlation coefficient: 0.98060 Slope: 0.0031 Int: 0.001

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Se ID: S20 Seq. No.: 00004 A/S Pos.: 73 Date: 12/21/96

Replicate 1 Time: 10:29
Peak Area (A-s): 0.066 Peak Height (A): 0.124
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 18.28

Replicate 2 Time: 10:32
Peak Area (A-s): 0.069 Peak Height (A): 0.125
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 19.26

Mean Conc (ug/L): 18.77 SD: 0.694 RSD(%): 3.70

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99869 Slope: 0.0029 Int: 0.001

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Se ID: S40 Seq. No.: 00005 A/S Pos.: 74 Date: 12/21/96

Replicate 1 Time: 10:35
Peak Area (A-s): 0.123 Peak Height (A): 0.236
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 39.39

Replicate 2 Time: 10:38
Peak Area (A-s): 0.124 Peak Height (A): 0.239
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 39.65

Mean Conc (ug/L): 39.52 SD: 0.185 RSD(%): 0.47

Standard number 4 applied. [40.00]
Correlation coefficient: 0.99969 Slope: 0.0028 Int: 0.002

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Se ID: S50 Seq. No.: 00006 A/S Pos.: 75 Date: 12/21/96

Replicate 1 Time: 10:41
Peak Area (A-s): 0.147 Peak Height (A): 0.272
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.138
Concentration (ug/L): 48.27

Replicate 2 Time: 10:44
Peak Area (A-s): 0.149 Peak Height (A): 0.276
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.086
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Blank Corrected Pk Area (A-s): 0.140
Concentration (ug/L): 48.95

Mean Conc (ug/L): 48.61 SD: 0.479 RSD(%): 0.99

Standard number 5 applied. [50.00]
Correlation coefficient: 0.99965 Slope: 0.0028 Int: 0.002

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Se ID: AICV Seq. No.: 00007 A/S Pos.: 79 Date: 12/21/96

Replicate 1 Time: 10:46
Peak Area (A-s): 0.110 Peak Height (A): 0.195
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 35.60

Replicate 2 Time: 10:49
Peak Area (A-s): 0.110 Peak Height (A): 0.202
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 35.92

Mean Conc (ug/L): 35.76 SD: 0.226 RSD(%): 0.63

QC sample is within range 31.5 - 38.5

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Se ID: ICB Seq. No.: 00008 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 10:52
Peak Area (A-s): 0.014 Peak Height (A): 0.019
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.30

Replicate 2 Time: 10:55
Peak Area (A-s): 0.013 Peak Height (A): 0.020
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.97

Mean Conc (ug/L): 1.13 SD: 0.234 RSD(%): 20.67

QC sample is within range -3.0 - 3.0

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Se ID: CRA Seq. No.: 00009 A/S Pos.: 72 Date: 12/21/96

Replicate 1 Time: 10:58
Peak Area (A-s): 0.027 Peak Height (A): 0.045
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.02

Replicate 2 Time: 11:01
Peak Area (A-s): 0.027 Peak Height (A): 0.047
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.019
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Concentration (ug/L): 5.97

Mean Conc (ug/L): 6.00 SD: 0.036 RSD(%): 0.60

QC sample is within range

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Se ID: ACCV Seq. No.: 00010 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 11:04
Peak Area (A-s): 0.086 Peak Height (A): 0.154
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 27.01

Replicate 2 Time: 11:06
Peak Area (A-s): 0.082 Peak Height (A): 0.152
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.71

Mean Conc (ug/L): 26.36 SD: 0.918 RSD(%): 3.48

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00011 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 11:09
Peak Area (A-s): 0.015 Peak Height (A): 0.022
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.70

Replicate 2 Time: 11:12
Peak Area (A-s): 0.011 Peak Height (A): 0.020
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.21

Mean Conc (ug/L): 0.95 SD: 1.051 RSD(%): 110.29

QC sample is within range -3.0 - 2.0

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Se ID: 9612G113-001S 2 Seq. No.: 00012 A/S Pos.: 1 Date: 12/21/96

Replicate 1 Time: 11:15
Peak Area (A-s): 0.023 Peak Height (A): 0.032
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 4.47

Replicate 2 Time: 11:18
Peak Area (A-s): 0.020 Peak Height (A): 0.029
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.50
~~~~~~

Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 11.57

Replicate 2 — Time: 11:59
Peak Area (A-s): 0.044 — Peak Height (A): 0.080
Background Pk Area (A-s): 0.005 — Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 12.09

Mean Conc (ug/L): 11.83 — SD: 0.373 — RSD(%): 3.15

Recovery is 110.5%

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Se ID: ACCV — Seq. No.: 00020 — A/S Pos.: 76 — Date: 12/21/96

Replicate 1 — Time: 12:02
Peak Area (A-s): 0.084 — Peak Height (A): 0.159
Background Pk Area (A-s): 0.012 — Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 26.39

Replicate 2 — Time: 12:05
Peak Area (A-s): 0.081 — Peak Height (A): 0.154
Background Pk Area (A-s): 0.011 — Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 25.50

Mean Conc (ug/L): 25.95 — SD: 0.634 — RSD(%): 2.44

QC sample is within range 22.5 - 27.5

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Se ID: CCB — Seq. No.: 00021 — A/S Pos.: 77 — Date: 12/21/96

Replicate 1 — Time: 12:08
Peak Area (A-s): 0.011 — Peak Height (A): 0.023
Background Pk Area (A-s): -0.000 — Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.11

Replicate 2 — Time: 12:11
Peak Area (A-s): 0.013 — Peak Height (A): 0.022
Background Pk Area (A-s): 0.001 — Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.95

Mean Conc (ug/L): 0.53 — SD: 0.594 — RSD(%): 112.61

QC sample is within range -3.0 - 2.0

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Se ID: 96GF338-LC1 — Seq. No.: 00022 — A/S Pos.: 5 — Date: 12/21/96

Replicate 1 — Time: 12:14
Peak Area (A-s): 0.039 — Peak Height (A): 0.067
Background Pk Area (A-s): 0.001 — Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 10.15
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Se    ID: 9611G722-001R      Seq. No.: 00029    A/S Pos.: 8     Date: 12/21/96

Replicate  1                              Time: 12:55
Peak Area (A-s): 0.032                    Peak Height (A): 0.033
Background Pk Area (A-s): 0.155           Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L  ): 7.73

Replicate  2                              Time: 12:58
Peak Area (A-s): 0.034                    Peak Height (A): 0.031
Background Pk Area (A-s): 0.159           Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L  ): 8.37

Mean Conc  (ug/L  ):        8.05   80.5%  SD: 0.447             RSD(%): 5.55

Recovery is 79.9%
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Se    ID: ACCV                Seq. No.: 00030    A/S Pos.: 76    Date: 12/21/96

Replicate  1                              Time: 13:01
Peak Area (A-s): 0.082                    Peak Height (A): 0.181
Background Pk Area (A-s): 0.015           Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L  ): 25.52

Replicate  2                              Time: 13:03
Peak Area (A-s): 0.080                    Peak Height (A): 0.176
Background Pk Area (A-s): 0.015           Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L  ): 25.14

Mean Conc  (ug/L  ):       25.33          SD: 0.272             RSD(%): 1.08

QC sample is within range 22.5 - 27.5
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Se    ID: CCB                 Seq. No.: 00031    A/S Pos.: 77    Date: 12/21/96

Replicate  1                              Time: 13:06
Peak Area (A-s): 0.009                    Peak Height (A): 0.021
Background Pk Area (A-s): 0.002           Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L  ): -0.56

Replicate  2                              Time: 13:09
Peak Area (A-s): 0.010                    Peak Height (A): 0.021
Background Pk Area (A-s): 0.003           Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L  ): -0.30

Mean Conc  (ug/L  ):       -0.43          SD: 0.185             RSD(%): 42.77

QC sample is within range -3.0 - 2.0
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Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.79

The background signal is changing during BOC measurement.
Replicate 2 Time: 13:50
Peak Area (A-s): 0.032 Peak Height (A): 1.024
Background Pk Area (A-s): 0.220 Background Pk Height (A): 3.222
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 7.72

Mean Conc (ug/L): 2.97 SD: 6.720 RSD(%): 226.53

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Se ID: 9611G722-004 Seq. No.: 00039 A/S Pos.: 12 Date: 12/21/96

The background signal is changing during BOC measurement.
Replicate 1 Time: 13:53
Peak Area (A-s): 0.045 Peak Height (A): 0.399
Background Pk Area (A-s): 0.181 Background Pk Height (A): 1.552
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 12.54

Rerun
JAK 12/23/96

The background signal is changing during BOC measurement.
Replicate 2 Time: 13:56
Peak Area (A-s): 0.059 Peak Height (A): 1.483
Background Pk Area (A-s): 0.197 Background Pk Height (A): 2.333
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 17.52

Mean Conc (ug/L): 15.03 SD: 3.519 RSD(%): 23.42

Recovery is 120.6%

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Se ID: ACCV Seq. No.: 00040 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 13:59
Peak Area (A-s): 0.083 Peak Height (A): 0.167
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 26.07

Replicate 2 Time: 14:02
Peak Area (A-s): 0.077 Peak Height (A): 0.175
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 23.99

Mean Conc (ug/L): 25.03 SD: 1.464 RSD(%): 5.85

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00041 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 14:05
Peak Area (A-s): 0.008 Peak Height (A): 0.023
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): -0.000
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Concentration (ug/L): -0.89

Replicate 2 Time: 14:08
Peak Area (A-s): 0.010 Peak Height (A): 0.025
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.29

Mean Conc (ug/L): -0.59 SD: 0.421 RSD(%): 71.69

QC sample is within range -3.0 - 2.0

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Se ID: 9611G722-006 Seq. No.: 00042 A/S Pos.: 13 Date: 12/21/96

Replicate 1 Time: 14:11
Peak Area (A-s): 0.013 Peak Height (A): 0.023
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.92

Replicate 2 Time: 14:14
Peak Area (A-s): 0.012 Peak Height (A): 0.026
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.68

Mean Conc (ug/L): 0.80 "W" SD: 0.171 RSD(%): 21.40

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Se ID: 9611G722-006 Seq. No.: 00043 A/S Pos.: 13 Date: 12/21/96

Replicate 1 Time: 14:17
Peak Area (A-s): 0.027 Peak Height (A): 0.041
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.01

Replicate 2 Time: 14:19
Peak Area (A-s): 0.024 Peak Height (A): 0.035
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.114
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 4.87

Mean Conc (ug/L): 5.44 54.4% SD: 0.809 RSD(%): 14.87

Recovery is 46.4%

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Se ID: 9611G722-007 Seq. No.: 00044 A/S Pos.: 14 Date: 12/21/96

Replicate 1 Time: 14:22
Peak Area (A-s): 0.010 Peak Height (A): 0.021
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.16

Replicate 2 Time: 14:25
Peak Area (A-s): 0.009 Peak Height (A): 0.023
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Recovery is 50.5%

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Se ID: 9611G722-009 Seq. No.: 00048 A/S Pos.: 16 Date: 12/21/96

Replicate 1 Time: 14:46
Peak Area (A-s): 0.009 Peak Height (A): 0.021
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.132
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.44

Replicate 2 Time: 14:48
Peak Area (A-s): 0.006 Peak Height (A): 0.021
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.68

Mean Conc (ug/L): -1.06 SD: 0.878 RSD(%): 82.96

~~~~~~

Se ID: 9611G722-009 Seq. No.: 00049 A/S Pos.: 16 Date: 12/21/96

Replicate 1 Time: 14:51
Peak Area (A-s): 0.034 Peak Height (A): 0.093
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.126
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 8.45

Replicate 2 Time: 14:54
Peak Area (A-s): 0.037 Peak Height (A): 0.097
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.123
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 9.44

Mean Conc (ug/L): 8.94 89.4% SD: 0.702 RSD(%): 7.85

Recovery is 100.0%

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Se ID: ACCV Seq. No.: 00050 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 14:57
Peak Area (A-s): 0.079 Peak Height (A): 0.185
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 24.57

Replicate 2 Time: 15:00
Peak Area (A-s): 0.080 Peak Height (A): 0.199
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 25.07

Mean Conc (ug/L): 24.82 SD: 0.354 RSD(%): 1.43

QC sample is within range 22.5 - 27.5

359
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Se ID: CCB Seq. No.: 00051 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 15:03
Peak Area (A-s): 0.007 Peak Height (A): 0.018
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.23

Replicate 2 Time: 15:06
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.84

Mean Conc (ug/L): -1.03 SD: 0.276 RSD(%): 26.79

QC sample is within range -3.0 - 2.0

Se ID: 9611G722-010 Seq. No.: 00052 A/S Pos.: 17 Date: 12/21/96

Replicate 1 Time: 15:09
Peak Area (A-s): 0.010 Peak Height (A): 0.024
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.27

Replicate 2 Time: 15:12
Peak Area (A-s): 0.010 Peak Height (A): 0.022
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.26

Mean Conc (ug/L): -0.27 SD: 0.006 RSD(%): 2.12

Rerun (5+) JAK 12/23/94

Se ID: 9611G722-010 Seq. No.: 00053 A/S Pos.: 17 Date: 12/21/96

Replicate 1 Time: 15:15
Peak Area (A-s): 0.023 Peak Height (A): 0.037
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 4.44

Replicate 2 Time: 15:17
Peak Area (A-s): 0.020 Peak Height (A): 0.030
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.130
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 3.39

Mean Conc (ug/L): 3.92 SD: 0.741 RSD(%): 18.92

Recovery is 41.8%

Se ID: 9611G722-011 Seq. No.: 00054 A/S Pos.: 18 Date: 12/21/96

Replicate 1 Time: 15:20

Concentration (ug/L): 1.68

The background signal is changing during BOC measurement.
Replicate 2 Time: 15:41
Peak Area (A-s): 0.016 Peak Height (A): 0.030
Background Pk Area (A-s): -0.020 Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.03

Mean Conc (ug/L): 1.86 SD: 0.244 RSD(%): 13.13

Recovery is 33.3%

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Se ID: 9611G722-013 Seq. No.: 00058 A/S Pos.: 20 Date: 12/21/96

Replicate 1 Time: 15:44
Peak Area (A-s): 0.006 Peak Height (A): 0.018
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.128
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.53

Replicate 2 Time: 15:46
Peak Area (A-s): 0.007 Peak Height (A): 0.024
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.14

Mean Conc (ug/L): -1.33 SD: 0.278 RSD(%): 20.84

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Se ID: 9611G722-013 Seq. No.: 00059 A/S Pos.: 20 Date: 12/21/96

Replicate 1 Time: 15:49
Peak Area (A-s): 0.026 Peak Height (A): 0.071
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 5.62

Replicate 2 Time: 15:52
Peak Area (A-s): 0.028 Peak Height (A): 0.067
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.128
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 6.39

Mean Conc (ug/L): 6.01 SD: 0.547 RSD(%): 9.11

Recovery is 73.4%

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Se ID: ACCV Seq. No.: 00060 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 15:55
Peak Area (A-s): 0.078 Peak Height (A): 0.178
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 24.32

Replicate 2 Time: 15:58

361
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Peak Area (A-s): 0.080 Peak Height (A): 0.174
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 24.82

Mean Conc (ug/L): 24.57 SD: 0.356 RSD(%): 1.45

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00061 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 16:01
Peak Area (A-s): 0.006 Peak Height (A): 0.022
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.73

Replicate 2 Time: 16:04
Peak Area (A-s): 0.007 Peak Height (A): 0.023
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.28

Mean Conc (ug/L): -1.50 SD: 0.317 RSD(%): 21.11

QC sample is within range -3.0 - 2.0

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Se ID: 9611G722-014 Seq. No.: 00062 A/S Pos.: 21 Date: 12/21/96

Replicate 1 Time: 16:07
Peak Area (A-s): 0.014 Peak Height (A): 0.026
Background Pk Area (A-s): 0.209 Background Pk Height (A): 0.155
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.19

Replicate 2 Time: 16:09
Peak Area (A-s): 0.013 Peak Height (A): 0.023
Background Pk Area (A-s): 0.197 Background Pk Height (A): 0.158
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.71

Mean Conc (ug/L): 0.95 "W" SD: 0.338 RSD(%): 35.53

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Se ID: 9611G722-014 Seq. No.: 00063 A/S Pos.: 21 Date: 12/21/96

Replicate 1 Time: 16:12
Peak Area (A-s): 0.028 Peak Height (A): 0.032
Background Pk Area (A-s): 0.197 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 6.42

Replicate 2 Time: 16:15
Peak Area (A-s): 0.026 Peak Height (A): 0.033
Background Pk Area (A-s): 0.201 Background Pk Height (A): 0.155
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 5.73
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Se ID: 9611G722-016 Seq. No.: 00067 A/S Pos.: 23 Date: 12/21/96

Replicate 1 Time: 16:36
Peak Area (A-s): 0.020 Peak Height (A): 0.027
Background Pk Area (A-s): 0.281 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.45

Replicate 2 Time: 16:39
Peak Area (A-s): 0.021 Peak Height (A): 0.028
Background Pk Area (A-s): 0.281 Background Pk Height (A): 0.198
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.68

Mean Conc (ug/L): 3.57 SD: 0.163 RSD(%): 4.57

Recovery is 54.9%

Se ID: 96GF340-MB1 Seq. No.: 00068 A/S Pos.: 24 Date: 12/21/96

Replicate 1 Time: 16:41
Peak Area (A-s): 0.009 Peak Height (A): 0.020
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.72

Replicate 2 Time: 16:44
Peak Area (A-s): 0.008 Peak Height (A): 0.021
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.02

Mean Conc (ug/L): -0.87 SD: 0.208 RSD(%): 23.88

Se ID: 96GF340-MB1 Seq. No.: 00069 A/S Pos.: 24 Date: 12/21/96

Replicate 1 Time: 16:47
Peak Area (A-s): 0.038 Peak Height (A): 0.090
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 9.75

Replicate 2 Time: 16:50
Peak Area (A-s): 0.038 Peak Height (A): 0.098
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 9.98

Mean Conc (ug/L): 9.87 98.7% SD: 0.165 RSD(%): 1.67

Recovery is 107.4%

Se ID: ACCV Seq. No.: 00070 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 16:53

Peak Area (A-s): 0.082 Peak Height (A): 0.206
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.77

Replicate 2 Time: 16:56
Peak Area (A-s): 0.080 Peak Height (A): 0.205
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 25.00

Mean Conc (ug/L): 25.38 SD: 0.544 RSD(%): 2.14

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00071 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 16:59
Peak Area (A-s): 0.011 Peak Height (A): 0.028
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.08

Replicate 2 Time: 17:02
Peak Area (A-s): 0.008 Peak Height (A): 0.025
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.99

Mean Conc (ug/L): -0.46 SD: 0.759 RSD(%): 165.80

QC sample is within range -3.0 - 2.0

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Se ID: 96GF340-LC1 Seq. No.: 00072 A/S Pos.: 25 Date: 12/21/96

Replicate 1 Time: 17:04
Peak Area (A-s): 0.036 Peak Height (A): 0.085
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 9.02

Replicate 2 Time: 17:07
Peak Area (A-s): 0.037 Peak Height (A): 0.083
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 9.62

Mean Conc (ug/L): 9.32 93.2% SD: 0.425 RSD(%): 4.56

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Se ID: 96GF340-LC1 Seq. No.: 00073 A/S Pos.: 25 Date: 12/21/96

Replicate 1 Time: 17:10
Peak Area (A-s): 0.073 Peak Height (A): 0.166
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 22.37

364
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Se ID: ACCV Seq. No.: 00080 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 17:51
Peak Area (A-s): 0.080 Peak Height (A): 0.185
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 25.00

Replicate 2 Time: 17:54
Peak Area (A-s): 0.083 Peak Height (A): 0.199
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.90

Mean Conc (ug/L): 25.45 SD: 0.636 RSD(%): 2.50

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00081 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 17:57
Peak Area (A-s): 0.006 Peak Height (A): 0.022
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.47

Replicate 2 Time: 17:59
Peak Area (A-s): 0.012 Peak Height (A): 0.031
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.48

Mean Conc (ug/L): -0.49 SD: 1.380 RSD(%): 281.14

QC sample is within range -3.0 - 2.0

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Se ID: 9611G708-001S Seq. No.: 00082 A/S Pos.: 29 Date: 12/21/96

Replicate 1 Time: 18:02
Peak Area (A-s): 0.028 Peak Height (A): 0.066
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.27

Replicate 2 Time: 18:05
Peak Area (A-s): 0.031 Peak Height (A): 0.064
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 7.43

Mean Conc (ug/L): 6.85 SD: 0.821 RSD(%): 11.99

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Se ID: 9611G708-001S Seq. No.: 00083 A/S Pos.: 29 Date: 12/21/96

Replicate 1 Time: 18:08

366

Mean Conc (ug/L): 17.14 SD: 1.132 RSD(%): 6.61

Recovery is 108.3%

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Se ID: ACCV Seq. No.: 00090 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 18:49
Peak Area (A-s): 0.083 Peak Height (A): 0.182
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.92

Replicate 2 Time: 18:52
Peak Area (A-s): 0.083 Peak Height (A): 0.206
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 26.15

Mean Conc (ug/L): 26.04 SD: 0.161 RSD(%): 0.62

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00091 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 18:54
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.89

Replicate 2 Time: 18:57
Peak Area (A-s): 0.010 Peak Height (A): 0.023
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.29

Mean Conc (ug/L): -0.59 SD: 0.426 RSD(%): 72.13

QC sample is within range -3.0 - 2.0

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Se ID: 9611G708-003 Seq. No.: 00092 A/S Pos.: 33 Date: 12/21/96

Replicate 1 Time: 19:00
Peak Area (A-s): 0.010 Peak Height (A): 0.023
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.31

Replicate 2 Time: 19:03
Peak Area (A-s): 0.013 Peak Height (A): 0.029
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.05

Mean Conc (ug/L): 0.37 SD: 0.960 RSD(%): 260.15

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Peak Area (A-s): 0.021 Peak Height (A): 0.028
Background Pk Area (A-s): 0.233 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.71

Mean Conc (ug/L): 3.42 SD: 0.403 RSD(%): 11.78

Recovery is 65.9%

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Se ID: ACCV Seq. No.: 00100 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 19:47
Peak Area (A-s): 0.081 Peak Height (A): 0.204
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 25.45

Replicate 2 Time: 19:50
Peak Area (A-s): 0.083 Peak Height (A): 0.199
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.87

Mean Conc (ug/L): 25.66 SD: 0.300 RSD(%): 1.17

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00101 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 19:53
Peak Area (A-s): 0.012 Peak Height (A): 0.026
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.44

Replicate 2 Time: 19:56
Peak Area (A-s): 0.012 Peak Height (A): 0.024
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.46

Mean Conc (ug/L): 0.45 SD: 0.015 RSD(%): 3.33

QC sample is within range -3.0 - 2.0

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Se ID: 9611G769-001S Seq. No.: 00102 A/S Pos.: 37 Date: 12/21/96

Replicate 1 Time: 19:59
Peak Area (A-s): 0.020 Peak Height (A): 0.028
Background Pk Area (A-s): 0.247 Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.47

Replicate 2 Time: 20:01
Peak Area (A-s): 0.016 Peak Height (A): 0.026
Background Pk Area (A-s): 0.239 Background Pk Height (A): 0.200
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Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 6.32

Replicate 2 Time: 20:43
Peak Area (A-s): 0.028 Peak Height (A): 0.030
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.22

Mean Conc (ug/L): 6.27 62.7% SD: 0.070 RSD(%): 1.11

Recovery is 80.9%

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Se ID: ACCV Seq. No.: 00110 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 20:46
Peak Area (A-s): 0.083 Peak Height (A): 0.204
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 26.16

Replicate 2 Time: 20:48
Peak Area (A-s): 0.083 Peak Height (A): 0.210
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 26.08

Mean Conc (ug/L): 26.12 SD: 0.057 RSD(%): 0.22

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00111 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 20:51
Peak Area (A-s): 0.008 Peak Height (A): 0.019
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.02

Replicate 2 Time: 20:54
Peak Area (A-s): 0.006 Peak Height (A): 0.017
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.52

Mean Conc (ug/L): -1.27 SD: 0.353 RSD(%): 27.91

QC sample is within range -3.0 - 2.0

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Se ID: 9611G771-001S Seq. No.: 00112 A/S Pos.: 41 Date: 12/21/96

Replicate 1 Time: 20:57
Peak Area (A-s): 0.027 Peak Height (A): 0.028
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.171
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.05
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Mean Conc (ug/L): 6.21 62.1% SD: 0.364 RSD(%): 5.86

Recovery is 67.9%

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Se ID: 9611G771-004 Seq. No.: 00116 A/S Pos.: 43 Date: 12/21/96

Replicate 1 Time: 21:21
Peak Area (A-s): 0.005 Peak Height (A): 0.023
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.174
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.88

Replicate 2 Time: 21:23
Peak Area (A-s): 0.008 Peak Height (A): 0.022
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.176
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.92

Mean Conc (ug/L): -1.40 SD: 0.676 RSD(%): 48.32

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Se ID: 9611G771-004 Seq. No.: 00117 A/S Pos.: 43 Date: 12/21/96

Replicate 1 Time: 21:26
Peak Area (A-s): 0.032 Peak Height (A): 0.027
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.159
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 7.64

Replicate 2 Time: 21:30
Peak Area (A-s): 0.061 Peak Height (A): 0.049
Background Pk Area (A-s): 0.140 Background Pk Height (A): 0.165
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 18.19

Mean Conc (ug/L): 12.91 SD: 7.461 RSD(%): 57.77

Recovery is 143.1% 12.

(Rerun) JAK 12/23/96

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Se ID: 96GF345-MB1 Seq. No.: 00118 A/S Pos.: 44 Date: 12/21/96

Replicate 1 Time: 21:32
Peak Area (A-s): 0.008 Peak Height (A): 0.019
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.74

Replicate 2 Time: 21:35
Peak Area (A-s): 0.009 Peak Height (A): 0.020
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.62

Mean Conc (ug/L): -0.68 SD: 0.089 RSD(%): 13.09
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Se ID: 96GF345-MB1 Seq. No.: 00119 A/S Pos.: 44 Date: 12/21/96

Replicate 1 Time: 21:38
Peak Area (A-s): 0.040 Peak Height (A): 0.095
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 10.72

Replicate 2 Time: 21:41
Peak Area (A-s): 0.041 Peak Height (A): 0.094
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 10.90

Mean Conc (ug/L): 10.81 108.1% SD: 0.127 RSD(%): 1.18

Recovery is 114.9%

Se ID: ACCV Seq. No.: 00120 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 21:44
Peak Area (A-s): 0.084 Peak Height (A): 0.198
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 26.49

Replicate 2 Time: 21:47
Peak Area (A-s): 0.083 Peak Height (A): 0.190
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 26.03

Mean Conc (ug/L): 26.26 SD: 0.322 RSD(%): 1.23

QC sample is within range 22.5 - 27.5

Se ID: CCB Seq. No.: 00121 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 21:50
Peak Area (A-s): 0.005 Peak Height (A): 0.019
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.85

Replicate 2 Time: 21:53
Peak Area (A-s): 0.008 Peak Height (A): 0.023
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.93

Mean Conc (ug/L): -1.39 SD: 0.646 RSD(%): 46.55

QC sample is within range -3.0 - 2.0

374

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Se ID: 96GF345-LC1 Seq. No.: 00122 A/S Pos.: 45 Date: 12/21/96

Replicate 1 Time: 21:56
Peak Area (A-s): 0.033 Peak Height (A): 0.087
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L): 8.10

Replicate 2 Time: 21:59
Peak Area (A-s): 0.036 Peak Height (A): 0.082
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 9.02

Mean Conc (ug/L): 8.56 85.6% SD: 0.651 RSD(%): 7.61

~~~~~~

Se ID: 96GF345-LC1 Seq. No.: 00123 A/S Pos.: 45 Date: 12/21/96

Replicate 1 Time: 22:02
Peak Area (A-s): 0.069 Peak Height (A): 0.187
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 20.98

Replicate 2 Time: 22:05
Peak Area (A-s): 0.070 Peak Height (A): 0.170
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 21.48

Mean Conc (ug/L): 21.23 SD: 0.356 RSD(%): 1.68

Recovery is 126.7%

~~~~~~

Se ID: 9611G675-001 Seq. No.: 00124 A/S Pos.: 46 Date: 12/21/96

Replicate 1 Time: 22:07
Peak Area (A-s): 0.013 Peak Height (A): 0.031
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.94

Replicate 2 Time: 22:10
Peak Area (A-s): 0.014 Peak Height (A): 0.025
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.11

Mean Conc (ug/L): 1.02 SD: 0.120 RSD(%): 11.79

~~~~~~

Se ID: 9611G675-001 Seq. No.: 00125 A/S Pos.: 46 Date: 12/21/96

Replicate 1 Time: 22:13
Peak Area (A-s): 0.038 Peak Height (A): 0.096
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.073

Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 9.77

Replicate 2 Time: 22:16
Peak Area (A-s): 0.042 Peak Height (A): 0.097
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 11.25

Mean Conc (ug/L): 10.51 105.1% SD: 1.046 RSD(%): 9.95

Recovery is 94.9%

~~~~~~

Se ID: 9611G675-001R Seq. No.: 00126 A/S Pos.: 47 Date: 12/21/96

Replicate 1 Time: 22:19
Peak Area (A-s): 0.014 Peak Height (A): 0.028
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.21

Replicate 2 Time: 22:22
Peak Area (A-s): 0.013 Peak Height (A): 0.026
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.91

Mean Conc (ug/L): 1.06 SD: 0.210 RSD(%): 19.93

~~~~~~

Se ID: 9611G675-001R Seq. No.: 00127 A/S Pos.: 47 Date: 12/21/96

Replicate 1 Time: 22:25
Peak Area (A-s): 0.040 Peak Height (A): 0.091
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 10.62

Replicate 2 Time: 22:28
Peak Area (A-s): 0.042 Peak Height (A): 0.091
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 11.26

Mean Conc (ug/L): 10.94 109.4% SD: 0.451 RSD(%): 4.12

Recovery is 98.9%

~~~~~~

Se ID: 9611G675-001S Seq. No.: 00128 A/S Pos.: 48 Date: 12/21/96

Replicate 1 Time: 22:31
Peak Area (A-s): 0.035 Peak Height (A): 0.093
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 8.96

Replicate 2 Time: 22:34
~~~~~~

373

Peak Area (A-s): 0.038 Peak Height (A): 0.087
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 9.70

Mean Conc (ug/L): 9.33 93.3% SD: 0.528 RSD(%): 5.66

~~~~~~

Se ID: 9611G675-001S Seq. No.: 00129 A/S Pos.: 48 Date: 12/21/96

Replicate 1 Time: 22:37
Peak Area (A-s): 0.066 Peak Height (A): 0.167
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 20.10

Replicate 2 Time: 22:40
Peak Area (A-s): 0.068 Peak Height (A): 0.164
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 20.73

Mean Conc (ug/L): 20.42 SD: 0.441 RSD(%): 2.16

Recovery is 110.8%

~~~~~~

Se ID: ACCV Seq. No.: 00130 A/S Pos.: 76 Date: 12/21/96

Replicate 1 Time: 22:43
Peak Area (A-s): 0.082 Peak Height (A): 0.187
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 25.64

Replicate 2 Time: 22:46
Peak Area (A-s): 0.082 Peak Height (A): 0.191
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 25.76

Mean Conc (ug/L): 25.70 SD: 0.084 RSD(%): 0.33

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00131 A/S Pos.: 77 Date: 12/21/96

Replicate 1 Time: 22:48
Peak Area (A-s): 0.007 Peak Height (A): 0.024
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.14

Replicate 2 Time: 22:51
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.75
~~~~~~

Mean Conc (ug/L): -0.95 SD: 0.274 RSD(%): 28.94

QC sample is within range -3.0 - 2.0

~~~~~~

Se ID: 9611G675-002 Seq. No.: 00132 A/S Pos.: 49 Date: 12/21/96

Replicate 1 Time: 22:54
Peak Area (A-s): 0.012 Peak Height (A): 0.022
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.36

Replicate 2 Time: 22:57
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.78

Mean Conc (ug/L): -0.21 SD: 0.806 RSD(%): 380.51

Instrument Error JAK 12/23/96

374
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WESTON Analytics AA3.1 Report

Data File:SE1223RB Date Collected: 96/12/23 Time:
Method File: Date of Report: Time:
Analyst: ED

IDC 1.8 ug/L

Run 2

	SE ppb				
S0.00	-0.51	MSETO	1.0		12:27
S2.00	1.32	MSETO	1.0		12:33
S5.00	5.62	MSETO	1.0		12:39
S20.00	18.46	MSETO	1.0		12:45
S40.00	42.85	MSETO	1.0		12:51
S50.00	49.78	MSETO	1.0		12:57
ICVF	35.16	MSETO	1.0		13:03
ICB	0.71	MSETO	1.0		13:09
CRA	5.37	MSETO	1.0		13:15
CCVF1	24.97	MSETO	1.0		13:21
CCB1	0.45	MSETO	1.0		13:27
96116726-009	0.32	MSETO	5.0	966F337	13:33
96116726-010	1.90	MSETO	5.0	966F337	13:45
96116726-011	1.75	MSETO	5.0	966F337	13:57
96116726-013	0.38	MSETO	5.0	966F337	14:09
CCVF2	24.30	MSETO	1.0		14:21
CCB2	1.13	MSETO	1.0		14:27
96116726-014	1.26	MSETO	5.0	966F337	14:33
96116726-012	-1.00	MSETO	1.0	966F337	14:45
CCVF3	22.90	MSETO	1.0		15:20
CCB3	-0.02	MSETO	1.0		15:26
966F338-MB1	0.70	MSETO	1.0	966F338	15:35
• 96116722-010	0.85	MSETO	5.0	966F338	16:10
CCVF4	25.72	MSETO	1.0		16:22
CCB4	-0.01	MSETO	1.0		16:28
96116722-012	-0.03	MSETO	5.0	966F338	16:34
96116722-016	1.45	MSETO	5.0	966F338	16:46
• 96116708-001S	5.90	MSETOS	2.0	966F340	16:58
96116708-002S	5.58	MSESOS	2.0	966F340	17:16
CCVF5	25.19	MSETO	1.0		17:28
CCB5	1.69	MSETO	1.0		17:34
• 96116769-001R	1.44	MSESOR	5.0	966F340	17:39
96116769-001S	5.88	MSESOS	2.0	966F340	17:51
• 96116771-001S	5.72	MSESOS	2.0	966F340	18:03
96116771-004	3.09	MSESO	1.0	966F340	18:15
CCVF6	26.19	MSETO	1.0		18:27
CCB6	0.99	MSETO	1.0		18:33
• 96116675-002	1.49	MSETO	1.0	966F345	18:39
96116675-003	1.01	MSETO	1.0	966F345	18:51
96116675-005	3.83	MSETO	1.0	966F345	19:15
CCVF7	26.72	MSETO	1.0		19:26
CCB7	1.24	MSETO	1.0		19:33
96116675-006	2.19	MSETO	1.0	966F345	19:39
96116675-007	1.61	MSETO	1.0	966F345	19:51
96116675-008	1.81	MSETO	1.0	966F345	20:03
96116726-012R	1.12	MSETOR	5.0	966F337	20:15
CCVF8	25.34	MSETO	1.0		20:26
CCB8	0.90	MSETO	1.0		20:32
96116726-[illegible]	4.76	MSETOS	2.0	966F337	20:39
966F358-[illegible]	0.94	MSETO	1.0	966F358	20:51
966F358-LC1	10.59	MSETO	1.0	966F358	21:03
966F358-LC2	10.93	MSETO	1.0	966F358	21:15

updated 12/26/96

12/26/96

12/26/96

WESTON Environmental Metrics, Inc.
AAS - PE5100 GFAA Sample Analysis Log

OP No. 21-31G-1534
Rev. 01; Eff. Date 03/06/95

Element: Se Lamp: EDL Current: 225 Filename: Se1223R1 Energy: 52

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	IDL-002				
7	-002				
8	9612G935-003R 2x				
9	9611G726-003 5x				F337
10	-005				
11	-006				
12	-009				
13	-010				
14	-011				
15	-013				
16	-014				
17	-012				
18	-0128	5x	✓		
19	-0125	2x	✓		
20					
21					
22					
23	CD 12/23/96				
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38	Std 2.00ppb				
39	Blank ICV 35.00ppb				
40	Blank				

Analyst: [signature] Date: 12/23/96

Reviewer: [signature] Date: 12/27/96

Cont. on pg 119

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Cont. from Pg 118

WESTON Environmental Metrics, Inc.
AAS - PE5100 GFAA Sample Analysis Log

QP No. 21-21G-1834
Rev. 01; Eff. Date 03/06/95

Element: Se Lamp: EDL Current: 225 Filename: Se1223R1
Energy: .52

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9606E338-MB1				E338
7	9611G722-003 2x				
8	-004				
9	-010 5x				
10	-012 5x				
11	-016 5x				
12	9611G708-0015 2x				E340
13	-0025 2x				
14	9611G769-0018 5x				
15	-0015 2x				
16	9611G771-0015 2x				
17	-004				
18	9611G675-002				E345
19	-003				
20	-004				
21	-005				
22	-006				
23	-007				
24	-008				
25	9611G726-0128 5x				
26	-0125 2x				
27	9606E358-MB1				E358
28	-LCS1				
29	-LCS2				
30	9612G010-001				
31	-001R				
32	-001S				
33	9612G022-001				
34	9612G046-003				
35	9612G055-001				
36	-003				
37	-004				
38	std 200ppb				
39	ICV 35.80ppb				
40	Blank				

Analyst: Eileen [illegible] Date: 12/23/96

Reviewer: [illegible] Date: 12/27/96

Page: 119

Element File: SE_CLP.GEL
Element: Se Analyst: ED
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Matrix Modifier: 5ul Pd(NO3)2 & Mg(NO3)2
Standard: 2100-~~48-7~~ 62-2 : QC: 2100-~~48-8~~ 62-2 12/16/96
SE EDL SERIAL #1286
ANALYST-EILEEN DURKIN
IDL=

INSTRUMENT: 5100 Technique: HGA
Wavelength: 196.0 Slew Slit: 2.00 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 50 ug/L, 2 if > 50.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.00	----------	40	20	8	5	
Standard 1	S2.00	2.00	38	20	8	5	
Standard 2	S5.00	5.00	4	20	8	5	
Standard 3	S20.00	20.00	5	16	12	5	
Standard 4	S40.00	40.00	1	16	12	5	
Standard 5	S50.00	50.00	1	20	8	5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	125	40	15	300		Norm
3	1000	20	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	7	0	*	Norm
6	2700	1	8	300		Norm

Injection Temp: 75 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: Yes

If %RSD > 20.0 and Concentration > 5.0 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 25.00 ug/L Standard at Location 5 Gives 10.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	31.5	38.5	X			
2	3	ICB	-3.5	2	X			
3	4	CRA	2.5	7.5	X			X
4	2	ACCV	22.5	27.5	X	X	X	
5	3	CCB	-3.5	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Duals: No Locations:
% Recovery for Spike: No Locations: Conc:

380

Element File: SE_CLP.GEL Element: Se Wavelength: 196.0
Date: 12/23/96 Time: 08:38 Slit: 2.00 L
Data File: SE1223R1.DAT ID/Wt File: SE122301.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 51
Remark 1: Matrix Modifier: 5ul Pd(NO3)2 & Mg(NO3)2
Remark 2: Standard: 2100-~~48-7~~ : QC: 2100-~~48-8~~ 62-2
Remark 3: SE EDL SERIAL #1286 EO 12/26/96 EO 12/26/96
Remark 4: ANALYST-EILEEN DURKIN
Remark 5: IDL=

Eileen Durkin

Se ID: S0.00 Seq. No.: 00001 A/S Pos.: 40 Date: 12/23/96

Replicate 1 Time: 08:40
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.44

Replicate 2 Time: 08:43
Peak Area (A-s): -0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.58

Mean Conc (ug/L): -0.07 SD: 0.721 RSD(%): 990.65

Auto-zero performed.

Se ID: S2.00 Seq. No.: 00002 A/S Pos.: 38 Date: 12/23/96

Replicate 1 Time: 08:46
Peak Area (A-s): 0.003 Peak Height (A): 0.017
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.14

Replicate 2 Time: 08:49
Peak Area (A-s): 0.013 Peak Height (A): 0.019
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.72

Mean Conc (ug/L): 2.43 SD: 1.821 RSD(%): 74.91

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0050 Int: 0.000

Se ID: S5.00 Seq. No.: 00003 A/S Pos.: 4 Date: 12/23/96

Replicate 1 Time: 08:52
Peak Area (A-s): 0.019 Peak Height (A): 0.036
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 4.28

Peak Area (A-s): 0.029 Peak Height (A): 0.053
Background Pk Area (A-s): 0.332 Background Pk Height (A): 0.163
Blank Corrected Pk Area (A-s): 0.031
Concentration (ug/L): 7.95

Mean Conc (ug/L): 7.62 SD: 0.472 RSD(%): 6.20

Recovery is 79.3%

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Se ID: ACCV Seq. No.: 00037 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 12:12
Peak Area (A-s): 0.080 Peak Height (A): 0.128
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 21.50

Replicate 2 Time: 12:15
Peak Area (A-s): 0.080 Peak Height (A): 0.134
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 21.69

Mean Conc (ug/L): 21.60 SD: 0.132 RSD(%): 0.61

QC sample is out of range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00038 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 12:18
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.47

Replicate 2 Time: 12:21
Peak Area (A-s): -0.005 Peak Height (A): 0.010
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.14

Mean Conc (ug/L): -0.34 SD: 1.142 RSD(%): 339.11

QC sample is within range -3.5 - 2.0

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Se ID: S0.00 Seq. No.: 00039 A/S Pos.: 40 Date: 12/23/96

Replicate 1 Time: 12:24
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.87

Replicate 2 Time: 12:27
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.014
~~~~~~

Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.15

Mean Conc (ug/L): -0.51 SD: 0.512 RSD(%): 100.75

Auto-zero performed.

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Se ID: S2.00 Seq. No.: 00040 A/S Pos.: 38 Date: 12/23/96

Replicate 1 Time: 12:30
Peak Area (A-s): 0.004 Peak Height (A): 0.019
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.50

Replicate 2 Time: 12:33
Peak Area (A-s): 0.003 Peak Height (A): 0.018
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.13

Mean Conc (ug/L): 1.32 SD: 0.260 RSD(%): 19.78

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0032 Int: 0.000

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Se ID: S5.00 Seq. No.: 00041 A/S Pos.: 4 Date: 12/23/96

Replicate 1 Time: 12:36
Peak Area (A-s): 0.017 Peak Height (A): 0.032
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 6.17

Replicate 2 Time: 12:39
Peak Area (A-s): 0.013 Peak Height (A): 0.031
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 5.07

Mean Conc (ug/L): 5.62 SD: 0.779 RSD(%): 13.87

Standard number 2 applied. [5.00]
Correlation coefficient: 0.99876 Slope: 0.0036 Int: -0.000

~~~~~~

Se ID: S20.00 Seq. No.: 00042 A/S Pos.: 5 Date: 12/23/96

Replicate 1 Time: 12:42
Peak Area (A-s): 0.066 Peak Height (A): 0.101
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 19.16

Replicate 2 Time: 12:45
Peak Area (A-s): 0.061 Peak Height (A): 0.103
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.033
~~~~~~

Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 17.76

Mean Conc (ug/L): 18.46 SD: 0.986 RSD(%): 5.34

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99970 Slope: 0.0033 Int: 0.000

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Se ID: S40.00 Seq. No.: 00043 A/S Pos.: 1 Date: 12/23/96

Replicate 1 Time: 12:48
Peak Area (A-s): 0.138 Peak Height (A): 0.211
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 42.86

Replicate 2 Time: 12:51
Peak Area (A-s): 0.138 Peak Height (A): 0.219
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 42.84

Mean Conc (ug/L): 42.85 SD: 0.011 RSD(%): 0.03

Standard number 4 applied. [40.00]
Correlation coefficient: 0.99939 Slope: 0.0035 Int: -0.001

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Se ID: S50.00 Seq. No.: 00044 A/S Pos.: 1 Date: 12/23/96

Replicate 1 Time: 12:54
Peak Area (A-s): 0.172 Peak Height (A): 0.269
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 50.12

Replicate 2 Time: 12:57
Peak Area (A-s): 0.170 Peak Height (A): 0.266
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 49.44

Mean Conc (ug/L): 49.78 SD: 0.477 RSD(%): 0.96

Standard number 5 applied. [50.00]
Correlation coefficient: 0.99969 Slope: 0.0035 Int: -0.001

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Se ID: AICV Seq. No.: 00045 A/S Pos.: 39 Date: 12/23/96

Replicate 1 Time: 13:00
Peak Area (A-s): 0.118 Peak Height (A): 0.191
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 34.86

Replicate 2 Time: 13:03
Peak Area (A-s): 0.120 Peak Height (A): 0.184
~~~~~~

Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 35.46

Mean Conc (ug/L): 35.16 SD: 0.425 RSD(%): 1.21

QC sample is within range 31.5 - 38.5

~~~~~~

Se ID: ICB Seq. No.: 00046 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 13:06
Peak Area (A-s): -0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.87

Replicate 2 Time: 13:09
Peak Area (A-s): -0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.55

Mean Conc (ug/L): 0.71 SD: 0.228 RSD(%): 31.96

QC sample is within range -3.5 - 2

~~~~~~

Se ID: CRA Seq. No.: 00047 A/S Pos.: 4 Date: 12/23/96

Replicate 1 Time: 13:12
Peak Area (A-s): 0.013 Peak Height (A): 0.034
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 4.73

Replicate 2 Time: 13:15
Peak Area (A-s): 0.018 Peak Height (A): 0.035
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 6.00

Mean Conc (ug/L): 5.37 SD: 0.893 RSD(%): 16.65

QC sample is within range 2.5 - 7.5

~~~~~~

Se ID: ACCV Seq. No.: 00048 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 13:18
Peak Area (A-s): 0.084 Peak Height (A): 0.146
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 24.93

Replicate 2 Time: 13:21
Peak Area (A-s): 0.084 Peak Height (A): 0.142
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.087
~~~~~~

Concentration (ug/L): 25.02

Mean Conc (ug/L): 24.97 SD: 0.064 RSD(%): 0.26 ✓

QC sample is within range 22.5 - 27.5

~~~~~~

Se ID: CCB Seq. No.: 00049 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 13:24
Peak Area (A-s): -0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.20

Replicate 2 Time: 13:27
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.70

Mean Conc (ug/L): 0.45 SD: 0.357 RSD(%): 78.97

QC sample is within range -3.5 - 2.0

~~~~~~

Se ID: 9611G726-009 5X Seq. No.: 00050 A/S Pos.: 12 Date: 12/23/96

Replicate 1 Time: 13:30
Peak Area (A-s): -0.006 Peak Height (A): 0.012
Background Pk Area (A-s): 0.318 Background Pk Height (A): 0.249
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -0.88

Replicate 2 Time: 13:33
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): 0.322 Background Pk Height (A): 0.253
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.51

Mean Conc (ug/L): 0.32 SD: 1.690 RSD(%): 529.98

~~~~~~

Se ID: 9611G726-009 5X Seq. No.: 00051 A/S Pos.: 12 Date: 12/23/96

Replicate 1 Time: 13:36
Peak Area (A-s): 0.029 Peak Height (A): 0.062
Background Pk Area (A-s): 0.299 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.031
Concentration (ug/L): 9.21

Replicate 2 Time: 13:39
Peak Area (A-s): 0.031 Peak Height (A): 0.061
Background Pk Area (A-s): 0.299 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 9.81

Mean Conc (ug/L): 9.51 SD: 0.425 RSD(%): 4.47 ✓

95.1?

335
~~~~~~

Peak Area (A-s): 0.030 Peak Height (A): 0.075
Background Pk Area (A-s): 0.277 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 9.52

Replicate 2 Time: 14:03
Peak Area (A-s): 0.029 Peak Height (A): 0.071
Background Pk Area (A-s): 0.283 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 9.23

Mean Conc (ug/L): 9.38 SD: 0.211 RSD(%): 2.25

Recovery is 76.2% 93.8%

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Se ID: 9611G726-013 5X Seq. No.: 00056 A/S Pos.: 15 Date: 12/23/96

Replicate 1 Time: 14:06
Peak Area (A-s): -0.003 Peak Height (A): 0.016
Background Pk Area (A-s): 0.393 Background Pk Height (A): 0.264
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.21

Replicate 2 Time: 14:09
Peak Area (A-s): -0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.392 Background Pk Height (A): 0.231
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.55

Mean Conc (ug/L): 0.38 "W" SD: 0.238 RSD(%): 62.69

~~~~~~

Se ID: 9611G726-013 5X Seq. No.: 00057 A/S Pos.: 15 Date: 12/23/96

Replicate 1 Time: 14:12
Peak Area (A-s): 0.026 Peak Height (A): 0.050
Background Pk Area (A-s): 0.351 Background Pk Height (A): 0.172
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 8.40

Replicate 2 Time: 14:15
Peak Area (A-s): 0.025 Peak Height (A): 0.057
Background Pk Area (A-s): 0.346 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 8.16

Mean Conc (ug/L): 8.28 SD: 0.175 RSD(%): 2.12

Recovery is 79.0% 82.8%

~~~~~~

Se ID: ACCV Seq. No.: 00058 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 14:18
Peak Area (A-s): 0.080 Peak Height (A): 0.133
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 23.87
~~~~~~

Replicate 2 Time: 14:21
Peak Area (A-s): 0.083 Peak Height (A): 0.137
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 24.72

Mean Conc (ug/L): 24.30 SD: 0.606 RSD(%): 2.49

QC sample is within range 22.5 - 27.5

~~~~~~

Se ID: CCB Seq. No.: 00059 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 14:24
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.51

Replicate 2 Time: 14:27
Peak Area (A-s): -0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.76

Mean Conc (ug/L): 1.13 SD: 0.530 RSD(%): 46.77

QC sample is within range -3.5 - 2.0

~~~~~~

Se ID: 9611G726-014 5X Seq. No.: 00060 A/S Pos.: 16 Date: 12/23/96

Replicate 1 Time: 14:30
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.344 Background Pk Height (A): 0.207
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.24

Replicate 2 Time: 14:33
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.357 Background Pk Height (A): 0.197
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.29

Mean Conc (ug/L): 1.26 "W" SD: 0.041 RSD(%): 3.21

~~~~~~

Se ID: 9611G726-014 5X Seq. No.: 00061 A/S Pos.: 16 Date: 12/23/96

Replicate 1 Time: 14:36
Peak Area (A-s): 0.026 Peak Height (A): 0.043
Background Pk Area (A-s): 0.322 Background Pk Height (A): 0.148
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 8.38

Replicate 2 Time: 14:39
Peak Area (A-s): 0.025 Peak Height (A): 0.046
Background Pk Area (A-s): 0.322 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.027
~~~~~~

Se ID: 9611G726-012R Seq. No.: 00065 A/S Pos.: 18 Date: 12/23/96

Replicate 1 Time: 14:59
Peak Area (A-s): 0.007 Peak Height (A): 0.018
Background Pk Area (A-s): 1.321 Background Pk Height (A): 0.301
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 3.00

Replicate 2 Time: 15:02
Peak Area (A-s): 0.012 Peak Height (A): 0.022
Background Pk Area (A-s): 1.331 Background Pk Height (A): 0.301
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 4.47

Mean Conc (ug/L): 3.73 SD: 1.046 RSD(%): 28.01

Recovery is 44.3%

Se ID: 9611G726-012S Seq. No.: 00066 A/S Pos.: 19 Date: 12/23/96

Replicate 1 Time: 15:05
Peak Area (A-s): 0.017 Peak Height (A): 0.026
Background Pk Area (A-s): 1.254 Background Pk Height (A): 0.271
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 5.90

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Replicate 2 Time: 15:08
Peak Area (A-s): 0.010 Peak Height (A): 0.019
Background Pk Area (A-s): 1.257 Background Pk Height (A): 0.273
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 3.82

Mean Conc (ug/L): 4.86 SD: 1.470 RSD(%): 30.27

Se ID: 9611G726-012S Seq. No.: 00067 A/S Pos.: 19 Date: 12/23/96

Replicate 1 Time: 15:11
Peak Area (A-s): 0.033 Peak Height (A): 0.035
Background Pk Area (A-s): 1.229 Background Pk Height (A): 0.262
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 10.40

Replicate 2 Time: 15:14
Peak Area (A-s): 0.038 Peak Height (A): 0.033
Background Pk Area (A-s): 1.231 Background Pk Height (A): 0.264
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 11.75

Mean Conc (ug/L): 11.07 SD: 0.950 RSD(%): 8.58

Recovery is 62.2%

Se ID: ACCV Seq. No.: 00068 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 15:17

Peak Area (A-s): 0.074 Peak Height (A): 0.168
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 22.19

Replicate 2 Time: 15:20
Peak Area (A-s): 0.079 Peak Height (A): 0.160
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 23.61

Mean Conc (ug/L): 22.90 SD: 1.005 RSD(%): 4.39 ✓

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00069 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 15:23
Peak Area (A-s): -0.005 Peak Height (A): 0.010
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.43

Replicate 2 Time: 15:26
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.40

Mean Conc (ug/L): -0.02 SD: 0.581 RSD(%): 3760.33

QC sample is within range -3.5 - 2.0

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Se ID: 96GF338-MB1 Seq. No.: 00071 A/S Pos.: 6 Date: 12/23/96

Replicate 1 Time: 15:31
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.75

Replicate 2 Time: 15:35
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.66

Mean Conc (ug/L): 0.70 SD: 0.067 RSD(%): 9.53

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Se ID: 96GF338-MB1 Seq. No.: 00072 A/S Pos.: 6 Date: 12/23/96

Replicate 1 Time: 15:37
Peak Area (A-s): 0.029 Peak Height (A): 0.072
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 9.30
~~~~~~

Se ID: ACCV Seq. No.: 00079 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 16:19
Peak Area (A-s): 0.084 Peak Height (A): 0.181
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 25.09

Replicate 2 Time: 16:22
Peak Area (A-s): 0.089 Peak Height (A): 0.183
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 26.35

Mean Conc (ug/L): 25.72 SD: 0.891 RSD(%): 3.47

QC sample is within range 22.5 - 27.5

Se ID: CCB Seq. No.: 00080 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 16:25
Peak Area (A-s): -0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.32

Replicate 2 Time: 16:28
Peak Area (A-s): -0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.33

Mean Conc (ug/L): -0.01 SD: 0.463 RSD(%): 6351.13

QC sample is within range -3.5 - 2.0

Se ID: 9611G722-012 5X Seq. No.: 00081 A/S Pos.: 10 Date: 12/23/96

Replicate 1 Time: 16:31
Peak Area (A-s): -0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.726 Background Pk Height (A): 0.916
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.42

Replicate 2 Time: 16:34
Peak Area (A-s): -0.005 Peak Height (A): 0.036
Background Pk Area (A-s): 0.736 Background Pk Height (A): 0.892
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.47

Mean Conc (ug/L): -0.03 SD: 0.627 RSD(%): 2371.08

Se ID: 9611G722-012 5X Seq. No.: 00082 A/S Pos.: 10 Date: 12/23/96

Replicate 1 Time: 16:37

390

Mean Conc (ug/L): 5.58 11.63 SD: 0.905 RSD(%): 16.22

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Se ID: 9611G708-002S 2 Seq. No.: 00089 A/S Pos.: 13 Date: 12/23/96

Replicate 1 Time: 17:19
Peak Area (A-s): 0.047 Peak Height (A): 0.117
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 14.48

Replicate 2 Time: 17:22
Peak Area (A-s): 0.047 Peak Height (A): 0.116
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 14.54

Mean Conc (ug/L): 14.51 SD: 0.048 RSD(%): 0.33

Recovery is 89.3%

~~~~~~

Se ID: ACCV Seq. No.: 00090 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 17:24
Peak Area (A-s): 0.088 Peak Height (A): 0.181
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 26.04

Replicate 2 Time: 17:28
Peak Area (A-s): 0.082 Peak Height (A): 0.189
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L): 24.34

Mean Conc (ug/L): 25.19 SD: 1.202 RSD(%): 4.77

QC sample is within range 22.5 - 27.5

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Se ID: CCB Seq. No.: 00091 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 17:31
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.90

Replicate 2 Time: 17:34
Peak Area (A-s): 0.005 Peak Height (A): 0.011
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.49

Mean Conc (ug/L): 1.69 SD: 1.122 RSD(%): 66.31

QC sample is within range -3.5 - 2.0
~~~~~~

Peak Area (A-s): 0.009   Peak Height (A): 0.014
Background Pk Area (A-s): 0.602   Background Pk Height (A): 0.172
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.53

Mean Conc (ug/L): 3.09   SD: 0.623   RSD(%): 20.14

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Se ID: 9611G771-004   Seq. No.: 00099   A/S Pos.: 17   Date: 12/23/96

Replicate 1   Time: 18:18
Peak Area (A-s): 0.035   Peak Height (A): 0.040
Background Pk Area (A-s): 0.592   Background Pk Height (A): 0.160
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 10.95

Replicate 2   Time: 18:21
Peak Area (A-s): 0.035   Peak Height (A): 0.034
Background Pk Area (A-s): 0.597   Background Pk Height (A): 0.162
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.88

Mean Conc (ug/L): 10.91   SD: 0.050   RSD(%): 0.46

Recovery is 78.2%

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Se ID: ACCV   Seq. No.: 00100   A/S Pos.: 2   Date: 12/23/96

Replicate 1   Time: 18:24
Peak Area (A-s): 0.089   Peak Height (A): 0.192
Background Pk Area (A-s): 0.060   Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 26.52

Replicate 2   Time: 18:27
Peak Area (A-s): 0.087   Peak Height (A): 0.188
Background Pk Area (A-s): 0.060   Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 25.86

Mean Conc (ug/L): 26.19   SD: 0.467   RSD(%): 1.78

QC sample is within range 22.5 - 27.5

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Se ID: CCB   Seq. No.: 00101   A/S Pos.: 3   Date: 12/23/96

Replicate 1   Time: 18:30
Peak Area (A-s): 0.000   Peak Height (A): 0.011
Background Pk Area (A-s): 0.042   Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.96

Replicate 2   Time: 18:33
Peak Area (A-s): 0.000   Peak Height (A): 0.011
Background Pk Area (A-s): 0.042   Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.02
~~~~~~

Mean Conc (ug/L): 0.99 SD: 0.037 RSD(%): 3.77

QC sample is within range -3.5 - 2.0

~~~~~~

Se ID: 9611G675-002 Seq. No.: 00102 A/S Pos.: 18 Date: 12/23/96

Replicate 1 — Time: 18:36
Peak Area (A-s): 0.004 — Peak Height (A): 0.011
Background Pk Area (A-s): 0.046 — Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.14

Replicate 2 — Time: 18:39
Peak Area (A-s): -0.000 — Peak Height (A): 0.012
Background Pk Area (A-s): 0.046 — Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.84

Mean Conc (ug/L): 1.49 SD: 0.918 RSD(%): 61.58

~~~~~~

Se ID: 9611G675-002 Seq. No.: 00103 A/S Pos.: 18 Date: 12/23/96

Replicate 1 — Time: 18:42
Peak Area (A-s): 0.034 — Peak Height (A): 0.076
Background Pk Area (A-s): 0.044 — Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.83

Replicate 2 — Time: 18:45
Peak Area (A-s): 0.035 — Peak Height (A): 0.079
Background Pk Area (A-s): 0.043 — Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 11.04

Mean Conc (ug/L): 10.94 SD: 0.144 RSD(%): 1.31 ✓

Recovery is 94.5% *109.4~~8~~ 6*

~~~~~~

Se ID: 9611G~~766~~-003 *675 ED 12/26/96* Seq. No.: 00104 A/S Pos.: 19 Date: 12/23/96

Replicate 1 — Time: 18:48
Peak Area (A-s): 0.001 — Peak Height (A): 0.012
Background Pk Area (A-s): 0.079 — Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.11

Replicate 2 — Time: 18:51
Peak Area (A-s): -0.000 — Peak Height (A): 0.017
Background Pk Area (A-s): 0.080 — Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.91

Mean Conc (ug/L): 1.01 SD: 0.142 RSD(%): 14.04

393
~~~~~~

Se ID: 9611G~~765~~-003 Seq. No.: 00105 A/S Pos.: 19 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 18:54
Peak Area (A-s): 0.036 Peak Height (A): 0.090
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 11.21

Replicate 2 Time: 18:57
Peak Area (A-s): 0.035 Peak Height (A): 0.086
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 11.11

Mean Conc (ug/L): 11.16 SD: 0.076 RSD(%): 0.68 ✓

Recovery is 101.5% 111.6%

Se ID: 9611G~~768~~-004 Seq. No.: 00106 A/S Pos.: 20 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:00
Peak Area (A-s): 0.017 Peak Height (A): 0.055
Background Pk Area (A-s): 0.209 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 5.91

Replicate 2 Time: 19:03
Peak Area (A-s): 0.022 Peak Height (A): 0.051
Background Pk Area (A-s): 0.204 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 7.20

Rerun MSA ED 12/26/96

Mean Conc (ug/L): 6.56 SD: 0.914 RSD(%): 13.95

Se ID: 9611G~~768~~-004 Seq. No.: 00107 A/S Pos.: 20 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:06
Peak Area (A-s): 0.043 Peak Height (A): 0.106
Background Pk Area (A-s): 0.227 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 13.40

Replicate 2 Time: 19:09
Peak Area (A-s): 0.046 Peak Height (A): 0.106
Background Pk Area (A-s): 0.229 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 14.01

Mean Conc (ug/L): 13.70 SD: 0.432 RSD(%): 3.15

Recovery is 71.5%

Se ID: 9611G~~765~~-005 Seq. No.: 00108 A/S Pos.: 21 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:12

394

Peak Area (A-s): 0.009 Peak Height (A): 0.030
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.65

Replicate 2 Time: 19:15
Peak Area (A-s): 0.011 Peak Height (A): 0.025
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 4.01

Mean Conc (ug/L): 3.83 SD: 0.251 RSD(%): 6.56 ✓

Se ID: 96110~~765~~-005 475 ED 12/26/96 Seq. No.: 00109 A/S Pos.: 21 Date: 12/23/96

Replicate 1 Time: 19:18
Peak Area (A-s): 0.046 Peak Height (A): 0.094
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 14.08

Replicate 2 Time: 19:20
Peak Area (A-s): 0.044 Peak Height (A): 0.095
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 13.51

Mean Conc (ug/L): 13.79 SD: 0.402 RSD(%): 2.92 ✓

Recovery is 99.7% ✓

Se ID: ACCV Seq. No.: 00110 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 19:23
Peak Area (A-s): 0.091 Peak Height (A): 0.193
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 26.90

Replicate 2 Time: 19:26
Peak Area (A-s): 0.089 Peak Height (A): 0.196
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 26.54

Mean Conc (ug/L): 26.72 SD: 0.251 RSD(%): 0.94 ✓

QC sample is within range 22.5 - 27.5

Se ID: CCB Seq. No.: 00111 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 19:30
Peak Area (A-s): 0.003 Peak Height (A): 0.015
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.76

395

Replicate 2 Time: 19:33
Peak Area (A-s): -0.001 Peak Height (A): 0.016
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.72

Mean Conc (ug/L): 1.24 SD: 0.732 RSD(%): 58.95

QC sample is within range -3.5 - 2.0

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Se ID: 9611G~~765~~-006 Seq. No.: 00112 A/S Pos.: 22 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:36
Peak Area (A-s): 0.006 Peak Height (A): 0.020
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.59

Replicate 2 Time: 19:39
Peak Area (A-s): 0.003 Peak Height (A): 0.023
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.79

okt

Mean Conc (ug/L): 2.19 SD: 0.563 RSD(%): 25.73

~~~~~~

Se ID: 9611G~~765~~-006 Seq. No.: 00113 A/S Pos.: 22 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:42
Peak Area (A-s): 0.044 Peak Height (A): 0.092
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 13.52

Replicate 2 Time: 19:44
Peak Area (A-s): 0.043 Peak Height (A): 0.093
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 13.26

Mean Conc (ug/L): 13.39 SD: 0.184 RSD(%): 1.37

Recovery is 112.1%

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Se ID: 9611G~~765~~-007 Seq. No.: 00114 A/S Pos.: 23 Date: 12/23/96
675 ED 12/26/96

Replicate 1 Time: 19:47
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.17

Replicate 2 Time: 19:51
Peak Area (A-s): 0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.003
~~~~~~

Concentration (ug/L): 1.06

Mean Conc (ug/L): 1.61 "W" SD: 0.787 RSD(%): 48.75

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Se ID: 9611G~~765~~-007 675 ED 12/26/96 Seq. No.: 00115 A/S Pos.: 23 Date: 12/23/96

Replicate 1 Time: 19:53
Peak Area (A-s): 0.039 Peak Height (A): 0.085
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 12.17

Replicate 2 Time: 19:56
Peak Area (A-s): 0.038 Peak Height (A): 0.093
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.81

Mean Conc (ug/L): 11.99 SD: 0.255 RSD(%): 2.13 ✓

Recovery is 103.7% 119.9%

~~~~~~

Se ID: 9611G~~765~~-008 675 ED 12/26/96 Seq. No.: 00116 A/S Pos.: 24 Date: 12/23/96

Replicate 1 Time: 19:59
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.25

Replicate 2 Time: 20:03
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.126 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.37

Mean Conc (ug/L): 1.81 SD: 0.618 RSD(%): 34.11 ok

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Se ID: 9611G~~765~~-008 675 ED 12/26/96 Seq. No.: 00117 A/S Pos.: 24 Date: 12/23/96

Replicate 1 Time: 20:05
Peak Area (A-s): 0.037 Peak Height (A): 0.091
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 11.62

Replicate 2 Time: 20:08
Peak Area (A-s): 0.039 Peak Height (A): 0.099
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 12.23

Mean Conc (ug/L): 11.92 SD: 0.427 RSD(%): 3.58 ✓

Recovery is 101.1% ✓

397
~~~~~~

Se ID: 9611G726-012R 5 Seq. No.: 00118 A/S Pos.: 25 Date: 12/23/96

Replicate 1 Time: 20:11
Peak Area (A-s): -0.001 Peak Height (A): 0.016
Background Pk Area (A-s): 0.507 Background Pk Height (A): 0.298
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.65

Replicate 2 Time: 20:15
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.518 Background Pk Height (A): 0.291
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.60

Mean Conc (ug/L): 1.12 SD: 0.673 RSD(%): 60.00

Se ID: 9611G726-012R 5 Seq. No.: 00119 A/S Pos.: 25 Date: 12/23/96

Replicate 1 Time: 20:17
Peak Area (A-s): 0.032 Peak Height (A): 0.056
Background Pk Area (A-s): 0.480 Background Pk Height (A): 0.219
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 10.05

Replicate 2 Time: 20:20
Peak Area (A-s): 0.030 Peak Height (A): 0.056
Background Pk Area (A-s): 0.489 Background Pk Height (A): 0.220
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 9.42

Mean Conc (ug/L): 9.74 SD: 0.446 RSD(%): 4.58 ✓

Recovery is 86.1% 97.4%

Se ID: ACCV Seq. No.: 00120 A/S Pos.: 2 Date: 12/23/96

Replicate 1 Time: 20:23
Peak Area (A-s): 0.085 Peak Height (A): 0.188
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 25.35

Replicate 2 Time: 20:26
Peak Area (A-s): 0.085 Peak Height (A): 0.194
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 25.32

Mean Conc (ug/L): 25.34 SD: 0.020 RSD(%): 0.08 ✓

QC sample is within range 22.5 - 27.5

Se ID: CCB Seq. No.: 00121 A/S Pos.: 3 Date: 12/23/96

Replicate 1 Time: 20:29

Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.38

Replicate 2 Time: 20:32
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.41

Mean Conc (ug/L): 0.90 SD: 0.728 RSD(%): 81.31

QC sample is within range -3.5 - 2.0

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Se ID: 9611G726-012S 2 Seq. No.: 00122 A/S Pos.: 26 Date: 12/23/96

Replicate 1 Time: 20:36
Peak Area (A-s): 0.015 Peak Height (A): 0.023
Background Pk Area (A-s): 0.865 Background Pk Height (A): 0.257
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 5.25

Replicate 2 Time: 20:39
Peak Area (A-s): 0.012 Peak Height (A): 0.026
Background Pk Area (A-s): 0.895 Background Pk Height (A): 0.259
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 4.27

Mean Conc (ug/L): 4.76 95.26 SD: 0.689 RSD(%): 14.47

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Se ID: 9611G726-012S 2 Seq. No.: 00123 A/S Pos.: 26 Date: 12/23/96

Replicate 1 Time: 20:42
Peak Area (A-s): 0.035 Peak Height (A): 0.053
Background Pk Area (A-s): 0.860 Background Pk Height (A): 0.210
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.90

Replicate 2 Time: 20:44
Peak Area (A-s): 0.033 Peak Height (A): 0.053
Background Pk Area (A-s): 0.866 Background Pk Height (A): 0.210
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 10.36

Mean Conc (ug/L): 10.63 SD: 0.383 RSD(%): 3.60

Recovery is 58.7%

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Se ID: 96GF358-MB1 Seq. No.: 00124 A/S Pos.: 27 Date: 12/23/96

Replicate 1 Time: 20:48
Peak Area (A-s): -0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.87
~~~~~~

WESTON Analytics AA3.1 Report

Data File:SE1226RB Date Collected: 96/12/26 Time:
Method File: Date of Report: Time:
Analyst: ED

IDL 1.8ug/l

Run 3

	SE ppb				
S0.00	-0.11	MSETO	1.0		11:03
S2.00	2.21	MSETO	1.0		11:09
S5.00	4.24	MSETO	1.0		11:15
S20.00	18.67	MSETO	1.0		11:21
S40.00	39.02	MSETO	1.0		11:28
S50.00	48.94	MSETO	1.0		11:34
ICVF	35.88	MSETO	1.0		11:40
ICB	0.14	MSETO	1.0		11:46
CRA	4.43	MSETO	1.0		11:52
CCVF1	25.10	MSETO	1.0		11:58
CCB1	0.01	MSETO	1.0		12:04
CCVF2	26.06	MSETO	1.0		12:08
CCB2	0.82	MSETO	1.0		12:11
• 96118675-004 S	1.2	MSETO	2.0	966F345	12:37
CCVF3	24.79	MSETO	1.0		12:40
CCB3	-0.96	MSETO	1.0		12:43
CCVF4	25.06	MSETO	1.0		12:51
CCB4	0.19	MSETO	1.0		12:57
• 96126010-001R	1.86	MSETOR	2.0	966F358	13:27
96126010-001S	21.27	MSETOS	1.0	966F358	13:38
CCVF5	24.72	MSETO	1.0		13:50
CCB5	0.28	MSETO	1.0		13:56
96126055-005	0.05	MSETO	1.0	966F358	14:02
96126055-007	1.67	MSETO	1.0	966F358	14:14
96126055-009	2.24	MSETO	1.0	966F358	14:26
96126034-004	7.09	MSETO	1.0	966F358	14:38
CCVF6	24.21	MSETO	1.0		14:50
CCB6	-0.10	MSETO	1.0		14:56
• 96116722-003	2.56	MSETO	8.0	966F338	15:03
96118722-004	2.46	MSESO	8.0	966F338	15:14
966F355-MB1	0.40	MSETO	1.0	966F355	15:26
966F355-LC1	9.77	MSELCS	1.0	966F355	15:38
CCVF7	24.04	MSETO	1.0		15:50
CCB7	0.07	MSETO	1.0		15:56
966F355-LC2	9.15	MSELCS	1.0	966F355	16:03
966F372-MB1	0.20	MSETO	1.0	966F372	16:26
966F372-LC1	8.50	MSELCS	1.0	966F372	16:38
CCVF8	25.34	MSETO	1.0		16:50
CCB8	-0.27	MSETO	1.0		16:56
• 96126110-008	0.87	MSETO	1.0	966F372	17:02
96126110-008R	0.54	MSETOR	1.0	966F372	17:14
96126110-008S	9.03	MSETOS	1.0	966F372	17:26
• 96126088-001	-0.27	MSESO	1.0	966F372	17:38
CCVF9	25.11	MSETO	1.0		17:50
CCB9	0.44	MSETO	1.0		17:56
96126088-001R	-1.20	MSESOR	1.0	966F372	18:02
96126088-001S	9.18	MSESOS	1.0	966F372	18:14
96126088-004	0.28	MSETO	1.0	966F372	18:26
96126088-0[illegible]	0.24	MSESO	1.0	966F372	18:38
CCVF10	26.60	MSETO	1.0		18:50
CCB10	0.09	MSETO	1.0		18:56
96126088-017	-0.74	MSETO	1.0	966F372	19:01

updated 12/30/96

12/30/96

12/29/96

400

WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-1534
Rev. 01; Eff. Date 03/06/95

Element: Se Lamp: EDL Current: 225 Filename: Se1226R1
Energy: 52

Prep Batch / Matrix: _____ QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	IDL-002				
7	-002				
8	9611G675-004 MSA				E345
9	9611G722-003 4x	8x	✓		E338
10	-004 4x	8x	✓		↓
11	9612G010-001R 2x				E358
12	-001S				
13	9612G055-005				
14	-007				
15	-009				
16	9612G034-004				↓
17 ✓	9611G722-003 8x				
18 ✓	-004 8x				
19	9606F355-MB1				
20	-LCS1				
21					
22					
23	ED 12/26/96				
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38	Std 2.000 ppb				
39	ICV 35.000 ppb				
40	Blank				

Analyst: Eileen Dash Date: 12/26/96

Reviewer: Debbie Kelly Date: 12/27/96

Cont. on Pg. 121

401

Element File: SE_CLP.GEL
Element: Se Analyst: ED
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Matrix Modifier: 5ul Pd(NO3)2 & Mg(NO3)2
Standard: 2100-62-1 : QC: 2100-62-2
SE EDL SERIAL #1286
ANALYST-EILEEN DURKIN
IDL=

INSTRUMENT: 5100 Technique: HGA
Wavelength: 196.0 Slew Slit: 2.00 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 50 ug/L, 2 if > 50.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.00	----------	40	20	8	5	
Standard 1	S2.00	2.00	38	20	8	5	
Standard 2	S5.00	5.00	4	20	8	5	
Standard 3	S20.00	20.00	5	16	12	5	
Standard 4	S40.00	40.00	1	16	12	5	
Standard 5	S50.00	50.00	1	20	8	5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	125	40	15	300		Norm
3	1000	20	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	7	0	*	Norm
6	2700	1	8	300		Norm

Injection Temp: 75 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: Yes

If %RSD > 20.0 and Concentration > 5.0 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 25.00 ug/L Standard at Location 5 Gives 10.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	31.5	38.5	X			
2	3	ICB	-3.5	2	X			
3	4	CRA	2.5	7.5	X			X
4	2	ACCV	22.5	27.5	X	X	X	
5	3	CCB	-3.5	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: SEMSA.GEL
Element: Se Analyst: ED/PFK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
5ul Pd(NO3)2 & Mg(NO3)2 Matrix Modifier
ANALYSTS EILEEN DURKIN
EDL SERIAL#9787.IDL=
STANDARD 2100-62-1 : QC 2100-62-2
STANDARD ADDITIONS- +5.0,+10.0,+15.0

INSTRUMENT: 5100 Technique: HGA
Wavelength: 196.0 Peak Slit: 2.00 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0.0 BOC Time: 2
Sample Replicates: 1
Standard Replicates: 1 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.00	----------	40	20	8	5	
Standard 1	S5.00	5.00	37	10		5	
Standard 2	S10.00	10.00	38	10		5	
Standard 3	S15.00	15.00	39	10		5	
Samples	----------	----------	--------	20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Meth. of Add.

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Norm
2	125	40	15	300		Norm
3	1000	20	10	300		Norm
4	20	1	10	300		Norm
5	2100	0	7	0	*	Norm
6	2700	1	8	300		Norm

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Print Message Only
Alternate Sample Volumes (uL):
Run Alternate Volume Blanks: No

QC:

#!	A/S Loc.!	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	2	ACCV	22.5	27.5	X	X	X	
2	3	CCB	-3.5	2.0	X	X	X	

Run Periodic QC Samples: Every 5
Out of Limit Action: Stop

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: SE_CLP.GEL Element: Se Wavelength: 196.0
Date: 12/26/96 Time: 09:00 Slit: 2.00 L
Data File: SE1226R1.DAT ID/Wt File: SE122601.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 52
Remark 1: Matrix Modifier: 5ul Pd(NO3)2 & Mg(NO3)2
Remark 2: Standard: 2100-62-1 : QC: 2100-62-2
Remark 3: SE EDL SERIAL #1286
Remark 4: ANALYST-EILEEN DURKIN
Remark 5: IDL=

Eileen Durkin

Se ID: S0.00 Seq. No.: 00001 A/S Pos.: 40 Date: 12/26/96

Replicate 1 Time: 09:02
Peak Area (A-s): -0.006 Peak Height (A): 0.010
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.006

-0.0055

Replicate 2 Time: 09:05
Peak Area (A-s): -0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.005

Mean Pk Area (A-s): -0.006 SD: 0.0007 RSD(%): 12.11

Auto-zero performed.

Se ID: S2.00 Seq. No.: 00002 A/S Pos.: 38 Date: 12/26/96

Replicate 1 Time: 09:08
Peak Area (A-s): 0.005 Peak Height (A): 0.025
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.011

0.0035

Replicate 2 Time: 09:11
Peak Area (A-s): 0.002 Peak Height (A): 0.021
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.008

Mean Pk Area (A-s): 0.009 SD: 0.0017 RSD(%): 18.69

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0047 Int: 0.000

Se ID: S5.00 Seq. No.: 00003 A/S Pos.: 4 Date: 12/26/96

Replicate 1 Time: 09:14
Peak Area (A-s): 0.018 Peak Height (A): 0.045
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 5.08

0.017

Replicate 2 Time: 09:17
Peak Area (A-s): 0.016 Peak Height (A): 0.040
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.021

Element File: SE_CLP.GEL Element: Se Wavelength: 196.0
Date: 12/26/96 Time: 11:00 Slit: 2.00 L
Data File: SE1226R1.DAT ID/Wt File: SE122601.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 52
Remark 1: Matrix Modifier: 5ul Pd(NO3)2 & Mg(NO3)2
Remark 2: Standard: 2100-62-1 ; QC: 2100-62-2
Remark 3: SE EDL SERIAL #1286
Remark 4: ANALYST-EILEEN DURKIN
Remark 5: IDL=

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Se ID: S0.00 Seq. No.: 00022 A/S Pos.: 40 Date: 12/26/96

Replicate 1 Time: 11:00
Peak Area (A-s): -0.003 Peak Height (A): 0.011
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.28 *0.0045

Replicate 2 Time: 11:03
Peak Area (A-s): -0.006 Peak Height (A): 0.010
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.49

Mean Conc (ug/L): -0.11 SD: 0.541 RSD(%): 505.95

Auto-zero performed.

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Se ID: S2.00 Seq. No.: 00023 A/S Pos.: 38 Date: 12/26/96

Replicate 1 Time: 11:06
Peak Area (A-s): 0.005 Peak Height (A): 0.016
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 1.97 0.006

Replicate 2 Time: 11:09
Peak Area (A-s): 0.007 Peak Height (A): 0.020
Background Pk Area (A-s): -0.018 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.45

Mean Conc (ug/L): 2.21 SD: 0.339 RSD(%): 15.31

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0052 Int: 0.000

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Se ID: S5.00 Seq. No.: 00024 A/S Pos.: 4 Date: 12/26/96

Replicate 1 Time: 11:12
Peak Area (A-s): 0.017 Peak Height (A): 0.037
Background Pk Area (A-s): -0.018 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 4.02

0.018
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Replicate 2 Time: 11:15
Peak Area (A-s): 0.019 Peak Height (A): 0.036
Background Pk Area (A-s): -0.024 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 4.47

Mean Conc (ug/L): 4.24 SD: 0.317 RSD(%): 7.48

Standard number 2 applied. [5.00]
Correlation coefficient: 0.99665 Slope: 0.0044 Int: 0.001

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Se ID: S20.00 Seq. No.: 00025 A/S Pos.: 5 Date: 12/26/96

Replicate 1 Time: 11:18
Peak Area (A-s): 0.080 Peak Height (A): 0.130
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.15 0.078

Replicate 2 Time: 11:21
Peak Area (A-s): 0.076 Peak Height (A): 0.131
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 18.18

Mean Conc (ug/L): 18.67 SD: 0.687 RSD(%): 3.68

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99964 Slope: 0.0041 Int: 0.001

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Se ID: S40.00 Seq. No.: 00026 A/S Pos.: 1 Date: 12/26/96

Replicate 1 Time: 11:25
Peak Area (A-s): 0.156 Peak Height (A): 0.241
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 39.11

Replicate 2 0.156 Time: 11:28
Peak Area (A-s): 0.156 Peak Height (A): 0.246
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 38.94

Mean Conc (ug/L): 39.02 SD: 0.122 RSD(%): 0.31

Standard number 4 applied. [40.00]
Correlation coefficient: 0.99984 Slope: 0.0040 Int: 0.002

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Se ID: S50.00 Seq. No.: 00027 A/S Pos.: 1 Date: 12/26/96

Replicate 1 Time: 11:31
Peak Area (A-s): 0.195 Peak Height (A): 0.309
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.199
Concentration (ug/L): 49.70
~~~~~~

Replicate 2 0.192 Time: 11:34
Peak Area (A-s): 0.189 Peak Height (A): 0.306
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 48.17

Mean Conc (ug/L): 48.94 SD: 1.086 RSD(%): 2.22

Standard number 5 applied. [50.00]
Correlation coefficient: 0.99981 Slope: 0.0039 Int: 0.002

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Se ID: AICV Seq. No.: 00028 A/S Pos.: 39 Date: 12/26/96

Replicate 1 Time: 11:37
Peak Area (A-s): 0.138 Peak Height (A): 0.214
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 35.82

Replicate 2 Time: 11:40
Peak Area (A-s): 0.139 Peak Height (A): 0.216
Background Pk Area (A-s): -0.030 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 35.94

Mean Conc (ug/L): 35.88 SD: 0.085 RSD(%): 0.24

QC sample is within range 31.5 - 38.5

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Se ID: ICB Seq. No.: 00029 A/S Pos.: 3 Date: 12/26/96

Replicate 1 Time: 11:43
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.053 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.12

Replicate 2 Time: 11:46
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): -0.052 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.39

Mean Conc (ug/L): 0.14 SD: 0.366 RSD(%): 268.99

QC sample is within range -3.5 - 2

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Se ID: CRA Seq. No.: 00030 A/S Pos.: 4 Date: 12/26/96

Replicate 1 Time: 11:49
Peak Area (A-s): 0.015 Peak Height (A): 0.036
Background Pk Area (A-s): -0.039 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.45

Replicate 2 Time: 11:52

409
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Peak Area (A-s): 0.015	Peak Height (A): 0.039
Background Pk Area (A-s): -0.059	Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 4.41

Mean Conc (ug/L): 4.43	SD: 0.025	RSD(%): 0.56

QC sample is within range 2.5 - 7.5

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Se ID: ACCV	Seq. No.: 00031	A/S Pos.: 2	Date: 12/26/96

Replicate 1	Time: 11:55
Peak Area (A-s): 0.095	Peak Height (A): 0.156
Background Pk Area (A-s): -0.072	Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 24.78

Replicate 2	Time: 11:58
Peak Area (A-s): 0.098	Peak Height (A): 0.155
Background Pk Area (A-s): -0.068	Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 25.42

Mean Conc (ug/L): 25.10	SD: 0.452	RSD(%): 1.80

QC sample is within range 22.5 - 27.5

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Se ID: CCB	Seq. No.: 00032	A/S Pos.: 3	Date: 12/26/96

Replicate 1	Time: 12:01
Peak Area (A-s): -0.001	Peak Height (A): 0.014
Background Pk Area (A-s): -0.078	Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.32

Replicate 2	Time: 12:04
Peak Area (A-s): -0.003	Peak Height (A): 0.013
Background Pk Area (A-s): -0.121	Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.30

Mean Conc (ug/L): 0.01	SD: 0.440	RSD(%): 5550.16

QC sample is within range -3.5 - 2.0

410

Element File: SEMSA.GEL Element: Se Wavelength: 196.0
Date: 12/26/96 Time: 12:08 Slit: 2.00 L
Data File: SE1226R1.DAT ID/Wt File: SE122601.IDW Lamp Current: 0
Technique: HGA Calib. Type: Meth. of Add. Energy: 51
Remark 1: 5ul Pd(NO3)2 & Mg(NO3)2 Matrix Modifier
Remark 2: ANALYSTS EILEEN DURKIN
Remark 3: EDL SERIAL#9787.IDL=
Remark 4: STANDARD 2100-62-1 : QC 2100-62-2
Remark 5: STANDARD ADDITIONS- +5.0.+10.0.+15.0

Se ID: ACCV Seq. No.: 00033 A/S Pos.: 2 Date: 12/26/96

X' = 26.06

Replicate 1 Time: 12:08
Peak Area (A-s): 0.100 Peak Height (A): 0.161
Background Pk Area (A-s): -0.088 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.100

Se ID: CCB Seq. No.: 00034 A/S Pos.: 3 Date: 12/26/96

X' = 0.82

Replicate 1 Time: 12:11
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.111 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001

Se ID: 9611G675-004 Seq. No.: 00035 A/S Pos.: 8 Date: 12/26/96

Replicate 1 Time: 12:14
Peak Area (A-s): 0.025 Peak Height (A): 0.068
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.025

Se ID: S5.00 Seq. No.: 00036 A/S Pos.: 8 Date: 12/26/96

Rerun 2x
EO 12/26/96

Replicate 1 Time: 12:17
Peak Area (A-s): 0.032 Peak Height (A): 0.090
Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.032

Se ID: S10.00 Seq. No.: 00037 A/S Pos.: 8 Date: 12/26/96

Replicate 1 Time: 12:20
Peak Area (A-s): 0.039 Peak Height (A): 0.119
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.039

Se ID: S15.00 Seq. No.: 00038 A/S Pos.: 8 Date: 12/26/96

Replicate 1 Time: 12:23
Peak Area (A-s): 0.059 Peak Height (A): 0.165
Background Pk Area (A-s): 0.163 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.059

The standard additions calibration curve may not be linear.
Se ID: 9611G675-004 Seq. No.: 00035 A/S Pos.: 8 Date: 12/26/96

Concentration (ug/L): 10.12

Correlation coefficient: 0.96120   Slope: 0.0022   Int: 0.022

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Se   ID: 9611G675-004 2X   Seq. No.: 00041   A/S Pos.: 8   Date: 12/26/96

Replicate 1   Time: 12:28
Peak Area (A-s): 0.007   Peak Height (A): 0.044
Background Pk Area (A-s): 0.113   Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.007

Se   ID: S5.00   Seq. No.: 00042   A/S Pos.: 8   Date: 12/26/96

Replicate 1   Time: 12:31
Peak Area (A-s): 0.021   Peak Height (A): 0.081
Background Pk Area (A-s): 0.116   Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.021

Se   ID: S10.00   Seq. No.: 00043   A/S Pos.: 8   Date: 12/26/96

Replicate 1   Time: 12:34
Peak Area (A-s): 0.045   Peak Height (A): 0.138
Background Pk Area (A-s): 0.146   Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.045

Se   ID: S15.00   Seq. No.: 00044   A/S Pos.: 8   Date: 12/26/96

Replicate 1   Time: 12:37
Peak Area (A-s): 0.064   Peak Height (A): 0.184
Background Pk Area (A-s): 0.139   Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.064

The standard additions calibration curve may not be linear.
Se   ID: 9611G675-004 2X   Seq. No.: 00041   A/S Pos.: 8   Date: 12/26/96

Concentration (ug/L): 1.24

Correlation coefficient: 0.99549 ✓   Slope: 0.0039   Int: 0.005

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Se   ID: ACCV   X' = 24.79 M   Seq. No.: 00045   A/S Pos.: 2   Date: 12/26/96

Replicate 1   Time: 12:40
Peak Area (A-s): 0.095   Peak Height (A): 0.168
Background Pk Area (A-s): 0.053   Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.095

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Se   ID: CCB   X' = -0.96 M   Seq. No.: 00046   A/S Pos.: 3   Date: 12/26/96

Replicate 1   Time: 12:43
Peak Area (A-s): -0.006   Peak Height (A): 0.012
Background Pk Area (A-s): 0.040   Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.006
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(9)

WESTON Analytics AA6.1 Report

Data File:TL1214A1 Date Collected: 96/12/14 Time:
Method File: Date of Report: Time:
Analyst: DAK

IDL 1.3ug/L

	TL ppb				
S0	0.00	MTLTO	1.0		13:03
S2	0.00	MTLTO	1.0		13:08
S10	6.99	MTLTO	1.0		13:14
S30	33.71	MTLTO	1.0		13:20
S50	47.55	MTLTO	1.0		13:25
S70	69.49	MTLTO	1.0		13:31
ICVF	25.67	MTLTO	1.0		13:37
ICB	0.31	MTLTO	1.0		13:43
CRA	9.73	MTLTO	1.0		13:48
CCVF1	34.70	MTLTO	1.0		13:54
CCB1	-0.47	MTLTO	1.0		14:00
966F356-LC1	24.27	MTLTO	2.0	966F356	14:17
CCVF2	34.26	MTLTO	1.0		14:33
CCB2	-1.01	MTLTO	1.0		14:39
966F356-MB1	-0.58	MTLTO	1.0	966F356	14:45
• 96126016-007	-0.72	MTLTO	1.0	966F356	14:56
96126016-007R	-0.35	MTLTOR	1.0	966F356	15:08
CCVF3	35.41	MTLTO	1.0		15:19
CCB3	0.10	MTLTO	1.0		15:25
96126016-007S	24.62	MTLTOS	2.0	966F356	15:30
• 96116674-008	-1.48	MTLTO	500.0	966F335	15:42
• 96116707-005	0.02	MTLTO	5.0	966F335	15:53
96116707-006	-0.41	MTLSO	5.0	966F335	16:04
CCVF4	33.99	MTLTO	1.0		16:16
CCB4	-0.31	MTLTO	1.0		16:21
96116707-007	-0.03	MTLTO	5.0	966F335	16:27
96116707-008	0.40	MTLSO	5.0	966F335	16:38
966F353-MB1	0.26	MTLTO	1.0	966F353	16:50
966F353-LC1	25.63	MTLLCS	2.0	966F353	17:01
CCVF5	34.79	MTLTO	1.0		17:12
CCB5	-0.86	MTLTO	1.0		17:18
965F353-LC2	27.86	MTLLCS	2.0	966F353	17:23
• 96126868-006	1.30	MTLTO	1.0	966F353	17:35
96126868-006R	1.14	MTLTOR	1.0	966F353	17:46
96126868-006S	24.68	MTLTOS	2.0	966F353	17:57
CCVF6	34.26	MTLTO	1.0		18:08
CCB6	-0.31	MTLTO	1.0		18:14
96126868-006T	24.25	MTLTOT	2.0	966F353	18:19
96126868-007	-1.21	MTLSO	1.0	966F353	18:30
96126868-013	-0.83	MTLTO	1.0	966F353	18:41
96126868-014	-0.42	MTLSO	1.0	966F353	18:53
CCVF7	35.83	MTLTO	1.0		19:04
CCB7	-0.82	MTLTO	1.0		19:09
96126868-020	-0.48	MTLTO	1.0	966F353	19:15
96126868-021	-0.18	MTLSO	1.0	966F353	19:26
96126868-027	-0.23	MTLTO	1.0	966F353	19:37
96126868-028	-0.55	MTLSO	1.0	966F353	19:49
CCVF8	36.32	MTLTO	1.0		20:00
CCB8	-1.03	MTLTO	1.0		20:06
• 96126884[illegible]	-0.64	MTLTO	1.0	966F353	20:11
96126884[illegible]	-0.22	MTLTOR	1.0	966F353	20:23
96126884-003S	25.64	MTLTOS	2.0	966F353	20:34

updated 12/16/96

Dan [illegible] 12/16/96

Debbie Kelly 12/16/96

CCB9	-1.03	MTLTO	1.0		20:06
96126884-003	-0.64	MTLTO	1.0	966F353	20:11
96126884-003R	-0.22	MTLTOR	1.0	966F353	20:23
96126884-003S	25.64	MTLTOS	2.0	966F353	20:34
96126884-003T	26.25	MTLTOT	2.0	966F353	20:45
CCVF9	35.63	MTLTO	1.0		20:56
CCB9	0.41	MTLTO	1.0		21:02
96126884-004	-0.61	MTLSO	1.0	966F353	21:08
966F340-MB1	1.10	MTLTO	1.0	966F340	21:19
966F340-LC1	26.78	MTLLCS	2.0	966F340	21:30
966F340-LC2	24.67	MTLLCS	2.0	966F340	21:42
CCVF10	35.07	MTLTO	1.0		21:53
CCB10	-0.56	MTLTO	1.0		21:59
96116708-001	-0.75	MTLTO	1.0	966F340	22:05
96116708-001R	0.39	MTLTOR	1.0	966F340	22:16
96116708-001S	25.74	MTLTOS	2.0	966F340	22:27
96116708-002	-0.37	MTLSO	1.0	966F340	22:39
CCVF11	36.75	MTLTO	1.0		22:50
CCB11	-0.28	MTLTO	1.0		22:56
96116708-002R	-0.06	MTLSOR	1.0	966F340	23:02
96116708-002S	24.15	MTLSOS	2.0	966F340	23:13
96116708-003	-0.14	MTLTO	1.0	966F340	23:25
96116708-004	-0.58	MTLSO	1.0	966F340	23:36
CCVF12	35.46	MTLTO	1.0		23:48
CCB12	-0.57	MTLTO	1.0		23:54
96116769-001	-0.82	MTLSO	1.0	966F340	23:59
96116769-001R	-1.54	MTLSOR	1.0	966F340	00:11
96116769-001S	22.34	MTLSOS	2.0	966F340	00:22
96116769-002	0.75	MTLTO	1.0	966F340	00:34
CCVF13	35.64	MTLTO	1.0		00:45
CCB13	-0.90	MTLTO	1.0		00:51
96116771-001	-0.77	MTLSO	1.0	966F340	00:56
96116771-001R	-0.39	MTLSOR	1.0	966F340	01:08
96116771-001S	24.12	MTLSOS	2.0	966F340	01:19
96116771-002	1.24	MTLTO	1.0	966F340	01:30
CCVF14	37.17	MTLTO	1.0		01:41
CCB14	-0.19	MTLTO	1.0		01:47
96116771-004	-0.01	MTLSO	1.0	966F340	01:53
966F345-MB1	-0.94	MTLTO	1.0	966F345	02:04
966F345-LC1	27.03	MTLLCS	2.0	966F345	02:15
96116675-001	0.37	MTLTO	1.0	966F345	02:26
CCVF15	36.19	MTLTO	1.0		02:37
CCB15	-0.85	MTLTO	1.0		02:43
96116675-001R	-0.39	MTLTOR	1.0	966F345	02:49
96116675-001S	27.35	MTLTOS	2.0	966F345	03:00
96116675-002	-0.24	MTLTO	1.0	966F345	03:11
96116675-003	0.08	MTLTO	1.0	966F345	03:22
CCVF16	35.59	MTLTO	1.0		03:34
CCB16	-0.05	MTLTO	1.0		03:39
96116675-004	0.06	MTLTO	1.0	966F345	03:45
96116675-005	-0.49	MTLTO	1.0	966F345	03:57
96116675-006	-0.43	MTLTO	1.0	966F345	04:08
96116675-007	-1.18	MTLTO	1.0	966F345	04:20
CCVF17	34.95	MTLTO	1.0		04:31
CCB17	-0.69	MTLTO	1.0		04:37
96116675-008	-1.55	MTLTO	1.0	966F345	04:43
CCVF18	36.28	MTLTO	1.0		04:54
CCB18	-1.09	MTLTO	1.0		05:00

Weston Environmental Metrics, Inc.

AA6 - PE4100 GFAA Sample Analysis Log

Page: 182

Element: TL

Filename: TL1214A1

Lamp: EDL Current: 305 Energy: 52

AS-71

QC: a. Standard b. CLP c. Other _____

LOC			Pb	Se	As	Tl	Ag	Cd	Cr	Sb
71	STD 1	(ug/L)	2	2	2	2	2	0.2	2	3
72	STD 2 CRA	"	3	5	10	10	5	0.5	5	10
73	STD 3	"	20	20	30	30	20	2.0	20	30
74	STD 4	"	50	40	50	50	40	3.0	30	50
75	STD 5	"	70	50	70	70	50	5.0	50	70
76	CCV	"	35	25	35	35	25	2.5	25	35
77	ICB/CCB	"	0	0	0	0	0	0	0	0
78	Modifier									
79	ICV	"	25	35	25	25	35	3.5	35	25
80	Diluent									
0	Spike Solution	"	40	20	40	40	10	2.0	10	40

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
1	96GF356-MB1				(Clp H2O's)
2	-1C1 (2x)				
3	9612G016-007				
4	-007R				
5	-007S (2x)				
6	9611G674-008 (5x)				(F335)
7	9611G707-005 (5x)				
8	-006 (5x)				
9	-007 (5x)				
10	-008 (5x)				
11	96GF353-MB1				(H2O's Clp Solv.)
12	-1C1 (2x)				
13	-1C2 (2x)				
14	9612G868-006				
15	-006R				
16	-006S (2x)				
17	-006T (2x)				
18	-007				
19	-013				
20	-014				
21	-020				
22	-021				
23	-027				
24	-028				
25	9612G854-003				
26	-003R				
27	-003S (2x)				
28	-003T (2x)				
29	-004				
30	96GF342-MB1				(H2O's Clp Solv.)
31	-1C1 (2x)				
32	-1C2 (2x)				
33	9611G708-001				
	-001R				
	-001S (2x)				

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
36	9611G708-002				(F340)
37	-002R				
38	-002S (2x)				
39	-003				
40	-004				
41	9611G769-001				
42	-001R				
43	-001S (2x)				
44	-002				
45	9611G771-001				
46	-001R				
47	-001S (2x)				
48	-002				
49	-004				
50	96GF345-MB1				(Clp Soil)
51	-1C1 (2x)				
52	9611G675-001				
53	-001R				
54	-001S (2x)				
55	-002				
56	-003				
57	-004				
58	-005				
59	-006				
60	-007				
61	-008				
62					
63					
64					
65					
66					
67					
68					
69					
70					

JAK 12/16/96

Analyst: Debbie Kelly Date: 12/14/96

Reviewer: Eileen [signature] Date: 12/16/96

RFW 21-21G-1541/C-9/95

415

Element File: TLCLP080.GEL
Element: Tl Analyst: DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
STANDARDS 2100-48-7
ICV,CCV'S 2100-48-8
MODIFIER 4 UL PD(NO3)2 = 2% CITRIC ACID LCS/MS= 50.0 ug/L
EDL SERIAL NO. 482
ANALYST DEBBIE KELLY

INSTRUMENT: 4100 ZL Technique: HGA Version: 7.30
Wavelength: 276.8 Peak Slit: 0.7 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 5.0 Read Delay: 0.0 BOC Time: 2
Sample Replicates: 2 if <= 70.00 ug/L, 2 if > 70.00 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0	----------	77	20	10	4	
Standard 1	S2	2.00	71	20	10	4	
Standard 2	S10	10.00	72	20	10	4	
Standard 3	S30	30.00	73	20	10	4	
Standard 4	S50	50.00	74	20	10	4	
Standard 5	S70	70.00	75	20	10	4	
Samples	----------	----------	--------	20	10	4	

Diluent Location: 80
Modifier #1 Location: 78 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	140	15	15	250		Norm
2	180	30	5	250		Norm
3	250	5	10	250		Norm
4	700	1	10	250		Norm
5	1600	0	5	0	*	Norm
6	2400	1	5	250		Norm
7	20	1	5	250		Norm

Injection Temp: 50 Pipette Speed: 100% Extraction System: On

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 10.00 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
10 uL of 40 ug/L Standard at Location 0 Gives 20.00 ug/L
Measure Recovery on Samples: 1-70
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	79	AICV	22.5	27.5	X			
2	77	ICB	-3.00	2.00	X			
3	72	CRA			X			X
4	76	ACCV	31.50	38.50	X	X	X	
5	77	CCB	-3.00	2.00	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: TLCLP080.GEL Element: Tl Wavelength: 276.8
Date: 12/14/96 Time: 12:57 Slit: 0.7 L
Data File: TL1214A1.DAT ID/Wt File: TL121401.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 47
Remark 1: STANDARDS 2100-48-7
Remark 2: ICV,CCV'S 2100-48-8
Remark 3: MODIFIER 4 UL PD(NO3)2 = 2% CITRIC ACID LCS/MS= 50.0 ug/L
Remark 4: EDL SERIAL NO. 482
Remark 5: ANALYST DEBBIE KELLY

Tl ID: S0 Seq. No.: 00001 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 13:00
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.001

Replicate 2 Time: 13:03
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.002

Mean Pk Area (A-s): 0.000 SD: 0.0024 RSD(%): 561.68

Auto-zero performed.

Tl ID: S2 Seq. No.: 00002 A/S Pos.: 71 Date: 12/14/96

Replicate 1 Time: 13:06
Peak Area (A-s): 0.006 Peak Height (A): 0.019
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.006

Replicate 2 Time: 13:08
Peak Area (A-s): 0.008 Peak Height (A): 0.014
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.008

Mean Pk Area (A-s): 0.007 SD: 0.0013 RSD(%): 18.78

Standard number 1 applied. [2.00]
Correlation coefficient: 1.00000 Slope: 0.0034 Int: 0.000

Tl ID: S10 Seq. No.: 00003 A/S Pos.: 72 Date: 12/14/96

Replicate 1 Time: 13:11
Peak Area (A-s): 0.024 Peak Height (A): 0.038
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 6.95

Replicate 2 Time: 13:14
Peak Area (A-s): 0.025 Peak Height (A): 0.043
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.024

Concentration (ug/L): 7.03

Mean Conc (ug/L): 6.99 SD: 0.060 RSD(%): 0.85

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99583 Slope: 0.0023 Int: 0.001

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T1 ID: S30 Seq. No.: 00004 A/S Pos.: 73 Date: 12/14/96

Replicate 1 Time: 13:17
Peak Area (A-s): 0.079 Peak Height (A): 0.099
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 33.45

Replicate 2 Time: 13:20
Peak Area (A-s): 0.080 Peak Height (A): 0.104
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 33.96

Mean Conc (ug/L): 33.71 SD: 0.358 RSD(%): 1.06

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99896 Slope: 0.0026 Int: 0.000

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T1 ID: S50 Seq. No.: 00005 A/S Pos.: 74 Date: 12/14/96

Replicate 1 Time: 13:23
Peak Area (A-s): 0.124 Peak Height (A): 0.153
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 46.96

Replicate 2 Time: 13:25
Peak Area (A-s): 0.127 Peak Height (A): 0.152
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.127
Concentration (ug/L): 48.14

Mean Conc (ug/L): 47.55 SD: 0.838 RSD(%): 1.76

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99920 Slope: 0.0025 Int: 0.001

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T1 ID: S70 Seq. No.: 00006 A/S Pos.: 75 Date: 12/14/96

Replicate 1 Time: 13:28
Peak Area (A-s): 0.176 Peak Height (A): 0.211
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 69.35

Replicate 2 Time: 13:31
Peak Area (A-s): 0.176 Peak Height (A): 0.220
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.117
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Blank Corrected Pk Area (A-s): 0.176
Concentration (ug/L): 69.64

Mean Conc (ug/L): 69.49 SD: 0.203 RSD(%): 0.29

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99962 Slope: 0.0025 Int: 0.001

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T1 ID: AICV Seq. No.: 00007 A/S Pos.: 79 Date: 12/14/96

Replicate 1 Time: 13:34
Peak Area (A-s): 0.068 Peak Height (A): 0.084
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 26.49

Replicate 2 Time: 13:37
Peak Area (A-s): 0.064 Peak Height (A): 0.087
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 24.85

Mean Conc (ug/L): 25.67 SD: 1.162 RSD(%): 4.53

QC sample is within range 22.5 - 27.5

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T1 ID: ICB Seq. No.: 00008 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 13:40
Peak Area (A-s): 0.003 Peak Height (A): 0.015
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.85

Replicate 2 Time: 13:43
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.23

Mean Conc (ug/L): 0.31 SD: 0.768 RSD(%): 248.97

QC sample is within range -3.00 - 2.00

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T1 ID: CRA Seq. No.: 00009 A/S Pos.: 72 Date: 12/14/96

Replicate 1 Time: 13:46
Peak Area (A-s): 0.026 Peak Height (A): 0.038
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L): 9.65

Replicate 2 Time: 13:48
Peak Area (A-s): 0.026 Peak Height (A): 0.040
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.025
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Concentration (ug/L): 9.80

Mean Conc (ug/L): 9.73 SD: 0.108 RSD(%): 1.11

QC sample is within range

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T1 ID: ACCV Seq. No.: 00010 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 13:51
Peak Area (A-s): 0.086 Peak Height (A): 0.117
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 33.70

Replicate 2 Time: 13:54
Peak Area (A-s): 0.091 Peak Height (A): 0.112
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.70

Mean Conc (ug/L): 34.70 SD: 1.410 RSD(%): 4.06

QC sample is within range 31.50 - 38.50

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T1 ID: CCB Seq. No.: 00011 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 13:57
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.41

Replicate 2 Time: 14:00
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.54

Mean Conc (ug/L): -0.47 SD: 0.093 RSD(%): 19.74

QC sample is within range -3.00 - 2.00

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T1 ID: 96GF356-MB1 Seq. No.: 00012 A/S Pos.: 1 Date: 12/14/96

Replicate 1 Time: 14:03
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.26

Replicate 2 Time: 14:06
Peak Area (A-s): -0.005 Peak Height (A): 0.007
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -2.40

421
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Tl ID: ACCV Seq. No.: 00017 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 14:30
Peak Area (A-s): 0.088 Peak Height (A): 0.115
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 34.55

Replicate 2 Time: 14:33
Peak Area (A-s): 0.086 Peak Height (A): 0.116
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 33.98

Mean Conc (ug/L): 34.26 SD: 0.402 RSD(%): 1.17

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Tl ID: CCB Seq. No.: 00018 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 14:36
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.78

Replicate 2 Time: 14:39
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.23

Mean Conc (ug/L): -1.01 SD: 1.094 RSD(%): 108.62

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Tl ID: 96GF356-MB1 Seq. No.: 00019 A/S Pos.: 1 Date: 12/14/96

Replicate 1 Time: 14:42
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.15

Replicate 2 Time: 14:45
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.02

Mean Conc (ug/L): -0.58 SD: 0.611 RSD(%): 104.81

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Tl ID: 96GF356-MB1 Seq. No.: 00020 A/S Pos.: 1 Date: 12/14/96

Replicate 1 Time: 14:48
Peak Area (A-s): 0.050 Peak Height (A): 0.066
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.57

Concentration (ug/L): -0.17

Mean Conc (ug/L): -0.35 SD: 0.256 RSD(%): 73.18

T1 ID: 9612G016-007R Seq. No.: 00024 A/S Pos.: 4 Date: 12/14/96

Replicate 1 Time: 15:10
Peak Area (A-s): 0.050 Peak Height (A): 0.095
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.53

Replicate 2 Time: 15:13
Peak Area (A-s): 0.052 Peak Height (A): 0.090
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 20.26

Mean Conc (ug/L): 19.89 SD: 0.511 RSD(%): 2.57

Recovery is 101.2% 99.4%

T1 ID: ACCV Seq. No.: 00025 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 15:16
Peak Area (A-s): 0.090 Peak Height (A): 0.116
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.44

Replicate 2 Time: 15:19
Peak Area (A-s): 0.090 Peak Height (A): 0.122
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 35.38

Mean Conc (ug/L): 35.41 SD: 0.043 RSD(%): 0.12

QC sample is within range 31.50 - 38.50

T1 ID: CCB Seq. No.: 00026 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 15:22
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.11

Replicate 2 Time: 15:25
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.32

Mean Conc (ug/L): 0.10 SD: 0.306 RSD(%): 300.77

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Replicate  2                                 Time: 16:04
Peak Area (A-s): 0.001                       Peak Height (A): 0.013
Background Pk Area (A-s): 0.002              Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L  ): -0.17

Mean Conc  (ug/L  ):       -0.41             SD: 0.334              RSD(%): 81.86

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Tl    ID: 9611G707-006 5X    Seq. No.: 00034    A/S Pos.: 8     Date: 12/14/96

Replicate  1                                 Time: 16:07
Peak Area (A-s): 0.049                       Peak Height (A): 0.074
Background Pk Area (A-s): 0.029              Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L  ): 19.23

Replicate  2                                 Time: 16:10
Peak Area (A-s): 0.054                       Peak Height (A): 0.075
Background Pk Area (A-s): 0.029              Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L  ): 21.12

Mean Conc  (ug/L  ):       20.18             SD: 1.331              RSD(%): 6.60

Recovery is 102.9%

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Tl    ID: ACCV               Seq. No.: 00035    A/S Pos.: 76    Date: 12/14/96

Replicate  1                                 Time: 16:13
Peak Area (A-s): 0.085                       Peak Height (A): 0.118
Background Pk Area (A-s): 0.043              Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L  ): 33.27

Replicate  2                                 Time: 16:16
Peak Area (A-s): 0.088                       Peak Height (A): 0.125
Background Pk Area (A-s): 0.041              Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L  ): 34.72

Mean Conc  (ug/L  ):       33.99             SD: 1.023              RSD(%): 3.01

QC sample is within range 31.50 - 38.50

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Tl    ID: CCB                Seq. No.: 00036    A/S Pos.: 77    Date: 12/14/96

Replicate  1                                 Time: 16:19
Peak Area (A-s): 0.002                       Peak Height (A): 0.010
Background Pk Area (A-s): -0.007             Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L  ): 0.14

Replicate  2                                 Time: 16:21
Peak Area (A-s): -0.001                      Peak Height (A): 0.009
Background Pk Area (A-s): -0.007             Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
```

Concentration (ug/L): -0.76

Mean Conc (ug/L): -0.31 SD: 0.638 RSD(%): 206.97

QC sample is within range -3.00 - 2.00

Tl ID: 9611G707-007 5X Seq. No.: 00037 A/S Pos.: 9 Date: 12/14/96

Replicate 1 Time: 16:24
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.72

Replicate 2 Time: 16:27
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.78

Mean Conc (ug/L): -0.03 SD: 1.059 RSD(%): 3679.16

Tl ID: 9611G707-007 5X Seq. No.: 00038 A/S Pos.: 9 Date: 12/14/96

Replicate 1 Time: 16:30
Peak Area (A-s): 0.046 Peak Height (A): 0.098
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 17.98

Replicate 2 Time: 16:33
Peak Area (A-s): 0.046 Peak Height (A): 0.109
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 17.97

Mean Conc (ug/L): 17.97 89.8% SD: 0.006 RSD(%): 0.03

Recovery is 90.0%

Tl ID: 9611G707-008 5X Seq. No.: 00039 A/S Pos.: 10 Date: 12/14/96

Replicate 1 Time: 16:36
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.94

Replicate 2 Time: 16:38
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.13

Mean Conc (ug/L): 0.40 SD: 0.756 RSD(%): 188.04

Peak Area (A-s): 0.066 Peak Height (A): 0.095
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 25.72

Replicate 2 Time: 17:01
Peak Area (A-s): 0.065 Peak Height (A): 0.092
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 25.54

Mean Conc (ug/L): 25.63 102.5% SD: 0.126 RSD(%): 0.49

T1 ID: 96GF353-LC1 2X Seq. No.: 00044 A/S Pos.: 12 Date: 12/14/96

Replicate 1 Time: 17:04
Peak Area (A-s): 0.116 Peak Height (A): 0.161
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 45.89

Replicate 2 Time: 17:06
Peak Area (A-s): 0.115 Peak Height (A): 0.165
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 45.42

Mean Conc (ug/L): 45.66 SD: 0.330 RSD(%): 0.72

Recovery is 100.1%

T1 ID: ACCV Seq. No.: 00045 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 17:09
Peak Area (A-s): 0.087 Peak Height (A): 0.123
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 34.12

Replicate 2 Time: 17:12
Peak Area (A-s): 0.090 Peak Height (A): 0.115
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.46

Mean Conc (ug/L): 34.79 SD: 0.954 RSD(%): 2.74

QC sample is within range 31.50 - 38.50

T1 ID: CCB Seq. No.: 00046 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 17:15
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.74

Replicate 2 Time: 17:18
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.97

Mean Conc (ug/L): -0.86 SD: 0.167 RSD(%): 19.45

QC sample is within range -3.00 - 2.00

T1 ID: 96GF353-LC2 2X Seq. No.: 00047 A/S Pos.: 13 Date: 12/14/96

Replicate 1 Time: 17:21
Peak Area (A-s): 0.078 Peak Height (A): 0.151
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 30.68

Replicate 2 Time: 17:23
Peak Area (A-s): 0.064 Peak Height (A): 0.093
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 25.03

Mean Conc (ug/L): 27.86 111.4% SD: 3.994 RSD(%): 14.34

T1 ID: 96GF353-LC2 2X Seq. No.: 00048 A/S Pos.: 13 Date: 12/14/96

Replicate 1 Time: 17:26
Peak Area (A-s): 0.115 Peak Height (A): 0.176
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 45.59

Replicate 2 Time: 17:29
Peak Area (A-s): 0.117 Peak Height (A): 0.168
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 46.33

Mean Conc (ug/L): 45.96 SD: 0.520 RSD(%): 1.13

Recovery is 90.5%

T1 ID: 9612G868-006 Seq. No.: 00049 A/S Pos.: 14 Date: 12/14/96

Replicate 1 Time: 17:32
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.09

Replicate 2 Time: 17:35
Peak Area (A-s): 0.008 Peak Height (A): 0.013
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.008

Tl ID: 9612G868-006S2X Seq. No.: 00053 A/S Pos.: 16 Date: 12/14/96

Replicate 1 Time: 17:54
Peak Area (A-s): 0.064 Peak Height (A): 0.089
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 24.86

Replicate 2 Time: 17:57
Peak Area (A-s): 0.063 Peak Height (A): 0.092
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 24.49

Mean Conc (ug/L): 24.68 98.7% SD: 0.262 RSD(%): 1.06

Tl ID: 9612G868-006S2X Seq. No.: 00054 A/S Pos.: 16 Date: 12/14/96

Replicate 1 Time: 17:59
Peak Area (A-s): 0.109 Peak Height (A): 0.162
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 42.91

Replicate 2 Time: 18:02
Peak Area (A-s): 0.110 Peak Height (A): 0.159
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 43.25

Mean Conc (ug/L): 43.08 SD: 0.246 RSD(%): 0.57

Recovery is 92.0%

Tl ID: ACCV Seq. No.: 00055 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 18:05
Peak Area (A-s): 0.086 Peak Height (A): 0.121
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 34.00

Replicate 2 Time: 18:08
Peak Area (A-s): 0.088 Peak Height (A): 0.121
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 34.52

Mean Conc (ug/L): 34.26 SD: 0.365 RSD(%): 1.07

QC sample is within range 31.50 - 38.50

Tl ID: CCB Seq. No.: 00056 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 18:11

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Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.71

Replicate 2 Time: 18:14
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.08

Mean Conc (ug/L): -0.31 SD: 0.559 RSD(%): 178.61

QC sample is within range -3.00 - 2.00

T1 ID: 9612G868-006T2X Seq. No.: 00057 A/S Pos.: 17 Date: 12/14/96

Replicate 1 Time: 18:17
Peak Area (A-s): 0.061 Peak Height (A): 0.092
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 23.94

Replicate 2 Time: 18:19
Peak Area (A-s): 0.063 Peak Height (A): 0.098
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 24.56

Mean Conc (ug/L): 24.25 97 0% SD: 0.440 RSD(%): 1.81

T1 ID: 9612G868-006T2X Seq. No.: 00058 A/S Pos.: 17 Date: 12/14/96

Replicate 1 Time: 18:22
Peak Area (A-s): 0.106 Peak Height (A): 0.158
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 41.64

Replicate 2 Time: 18:25
Peak Area (A-s): 0.112 Peak Height (A): 0.161
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 44.31

Mean Conc (ug/L): 42.97 SD: 1.889 RSD(%): 4.39

Recovery is 93.6%

T1 ID: 9612G868-007 Seq. No.: 00059 A/S Pos.: 18 Date: 12/14/96

Replicate 1 Time: 18:28
Peak Area (A-s): -0.002 Peak Height (A): 0.006
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.45

Mean Conc (ug/L): 21.98 109.9% SD: 0.468 RSD(%): 2.13

Recovery is 114.1%

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Tl ID: 9612G868-014 Seq. No.: 00063 A/S Pos.: 20 Date: 12/14/96

Replicate 1 Time: 18:50
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.48

Replicate 2 Time: 18:53
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.32

Mean Conc (ug/L): -0.42 SD: 1.276 RSD(%): 305.75

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Tl ID: 9612G868-014 Seq. No.: 00064 A/S Pos.: 20 Date: 12/14/96

Replicate 1 Time: 18:55
Peak Area (A-s): 0.054 Peak Height (A): 0.107
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 21.16

Replicate 2 Time: 18:58
Peak Area (A-s): 0.053 Peak Height (A): 0.111
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 20.70

Mean Conc (ug/L): 20.93 104.6% SD: 0.325 RSD(%): 1.55

Recovery is 106.7%

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Tl ID: ACCV Seq. No.: 00065 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 19:01
Peak Area (A-s): 0.090 Peak Height (A): 0.127
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.52

Replicate 2 Time: 19:04
Peak Area (A-s): 0.092 Peak Height (A): 0.127
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 36.14

Mean Conc (ug/L): 35.83 SD: 0.438 RSD(%): 1.22

QC sample is within range 31.50 - 38.50
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T1 ID: CCB Seq. No.: 00066 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 19:07
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.50

Replicate 2 Time: 19:09
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.14

Mean Conc (ug/L): -0.82 SD: 0.455 RSD(%): 55.54

QC sample is within range -3.00 - 2.00

T1 ID: 9612G868-020 Seq. No.: 00067 A/S Pos.: 21 Date: 12/14/96

Replicate 1 Time: 19:12
Peak Area (A-s): 0.003 Peak Height (A): 0.013
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.51

Replicate 2 Time: 19:15
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.47

Mean Conc (ug/L): -0.48 SD: 1.398 RSD(%): 292.45

T1 ID: 9612G868-020 Seq. No.: 00068 A/S Pos.: 21 Date: 12/14/96

Replicate 1 Time: 19:18
Peak Area (A-s): 0.051 Peak Height (A): 0.106
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.01

Replicate 2 Time: 19:21
Peak Area (A-s): 0.054 Peak Height (A): 0.110
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 21.05

Mean Conc (ug/L): 20.53 102.6% SD: 0.734 RSD(%): 3.58

Recovery is 105.0%

T1 ID: 9612G868-021 Seq. No.: 00069 A/S Pos.: 22 Date: 12/14/96

Replicate 1 Time: 19:23

Peak Area (A-s): 0.053 Peak Height (A): 0.126
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 20.46

Mean Conc (ug/L): 20.33 SD: 0.190 RSD(%): 0.93

Recovery is 102.8% 101.6%

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T1 ID: 9612G868-028 Seq. No.: 00073 A/S Pos.: 24 Date: 12/14/96

Replicate 1 Time: 19:46
Peak Area (A-s): -0.004 Peak Height (A): 0.008
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.13

Replicate 2 Time: 19:49
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.02

Mean Conc (ug/L): -0.55 SD: 2.226 RSD(%): 403.90

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T1 ID: 9612G868-028 Seq. No.: 00074 A/S Pos.: 24 Date: 12/14/96

Replicate 1 Time: 19:51
Peak Area (A-s): 0.052 Peak Height (A): 0.124
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.18

Replicate 2 Time: 19:54
Peak Area (A-s): 0.051 Peak Height (A): 0.121
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.75

Mean Conc (ug/L): 19.96 99.6% SD: 0.307 RSD(%): 1.54

Recovery is 102.6%

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T1 ID: ACCV Seq. No.: 00075 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 19:57
Peak Area (A-s): 0.093 Peak Height (A): 0.127
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 36.51

Replicate 2 Time: 20:00
Peak Area (A-s): 0.092 Peak Height (A): 0.126
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 36.13
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Mean Conc (ug/L): 36.32 SD: 0.273 RSD(%): 0.75

QC sample is within range 31.50 - 38.50

Tl ID: CCB Seq. No.: 00076 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 20:03
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.43

Replicate 2 Time: 20:06
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.64

Mean Conc (ug/L): -1.03 SD: 0.563 RSD(%): 54.39

QC sample is within range -3.00 - 2.00

Tl ID: 9612G884-003 Seq. No.: 00077 A/S Pos.: 25 Date: 12/14/96

Replicate 1 Time: 20:09
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.70

Replicate 2 Time: 20:11
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.57

Mean Conc (ug/L): -0.64 SD: 0.090 RSD(%): 14.21

Tl ID: 9612G884-003 Seq. No.: 00078 A/S Pos.: 25 Date: 12/14/96

Replicate 1 Time: 20:14
Peak Area (A-s): 0.056 Peak Height (A): 0.082
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 21.75

Replicate 2 Time: 20:17
Peak Area (A-s): 0.058 Peak Height (A): 0.093
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 22.56

Mean Conc (ug/L): 22.16 110.8% SD: 0.575 RSD(%): 2.59

Recovery is 114.0%

Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 47.40

Replicate 2 Time: 20:39
Peak Area (A-s): 0.114 Peak Height (A): 0.247
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.148
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 45.12

Mean Conc (ug/L): 46.26 SD: 1.614 RSD(%): 3.49

Recovery is 103.1%

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T1 ID: 9612G884-003T2X Seq. No.: 00083 A/S Pos.: 28 Date: 12/14/96

Replicate 1 Time: 20:42
Peak Area (A-s): 0.069 Peak Height (A): 0.153
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 26.89

Replicate 2 Time: 20:45
Peak Area (A-s): 0.065 Peak Height (A): 0.152
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 25.61

Mean Conc (ug/L): 26.25 105.0% SD: 0.905 RSD(%): 3.45

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T1 ID: 9612G884-003T2X Seq. No.: 00084 A/S Pos.: 28 Date: 12/14/96

Replicate 1 Time: 20:48
Peak Area (A-s): 0.121 Peak Height (A): 0.247
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.141
Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 47.67

Replicate 2 Time: 20:51
Peak Area (A-s): 0.119 Peak Height (A): 0.259
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 47.01

Mean Conc (ug/L): 47.34 SD: 0.467 RSD(%): 0.99

Recovery is 105.5%

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T1 ID: ACCV Seq. No.: 00085 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 20:54
Peak Area (A-s): 0.089 Peak Height (A): 0.121
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 35.13

Replicate 2 Time: 20:56

434
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Peak Area (A-s): 0.092   Peak Height (A): 0.131
Background Pk Area (A-s): 0.040   Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 36.13

Mean Conc (ug/L): 35.63   SD: 0.709   RSD(%): 1.99

QC sample is within range 31.50 - 38.50

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T1 ID: CCB   Seq. No.: 00086   A/S Pos.: 77   Date: 12/14/96

Replicate 1   Time: 20:59
Peak Area (A-s): 0.004   Peak Height (A): 0.009
Background Pk Area (A-s): -0.006   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.25

Replicate 2   Time: 21:02
Peak Area (A-s): 0.000   Peak Height (A): 0.008
Background Pk Area (A-s): -0.006   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.43

Mean Conc (ug/L): 0.41   SD: 1.189   RSD(%): 287.51

QC sample is within range -3.00 - 2.00

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T1 ID: 9612G884-004   Seq. No.: 00087   A/S Pos.: 29   Date: 12/14/96

Replicate 1   Time: 21:05
Peak Area (A-s): -0.003   Peak Height (A): 0.012
Background Pk Area (A-s): -0.002   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.68

Replicate 2   Time: 21:08
Peak Area (A-s): 0.002   Peak Height (A): 0.010
Background Pk Area (A-s): -0.007   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.45

Mean Conc (ug/L): -0.61   SD: 1.504   RSD(%): 245.51

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T1 ID: 9612G884-004   Seq. No.: 00088   A/S Pos.: 29   Date: 12/14/96

Replicate 1   Time: 21:11
Peak Area (A-s): 0.056   Peak Height (A): 0.166
Background Pk Area (A-s): 0.027   Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 21.91

Replicate 2   Time: 21:13
Peak Area (A-s): 0.056   Peak Height (A): 0.167
Background Pk Area (A-s): 0.026   Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 22.03
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Tl ID: 96GF340-LC1 2X Seq. No.: 00092 A/S Pos.: 31 Date: 12/14/96

Replicate 1 Time: 21:33
Peak Area (A-s): 0.114 Peak Height (A): 0.167
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 44.86

Replicate 2 Time: 21:36
Peak Area (A-s): 0.112 Peak Height (A): 0.168
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 44.37

Mean Conc (ug/L): 44.61 SD: 0.344 RSD(%): 0.77

Recovery is 89.2%

Tl ID: 96GF340-LC2 2X Seq. No.: 00093 A/S Pos.: 32 Date: 12/14/96

Replicate 1 Time: 21:39
Peak Area (A-s): 0.059 Peak Height (A): 0.095
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 23.23

Replicate 2 Time: 21:42
Peak Area (A-s): 0.067 Peak Height (A): 0.099
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 26.12

Mean Conc (ug/L): 24.67 98.7% SD: 2.042 RSD(%): 8.27

Tl ID: 96GF340-LC2 2X Seq. No.: 00094 A/S Pos.: 32 Date: 12/14/96

Replicate 1 Time: 21:45
Peak Area (A-s): 0.111 Peak Height (A): 0.167
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 43.86

Replicate 2 Time: 21:47
Peak Area (A-s): 0.112 Peak Height (A): 0.176
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 44.22

Mean Conc (ug/L): 44.04 SD: 0.253 RSD(%): 0.58

Recovery is 96.8%

Tl ID: ACCV 10 Seq. No.: 00095 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 21:50

Peak Area (A-s): 0.088 Peak Height (A): 0.126
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 34.76

Replicate 2 Time: 21:53
Peak Area (A-s): 0.090 Peak Height (A): 0.126
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 35.38

Mean Conc (ug/L): 35.07 SD: 0.440 RSD(%): 1.26

QC sample is within range 31.50 - 38.50

Tl ID: CCB Seq. No.: 00096 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 21:56
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.04

Replicate 2 Time: 21:59
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.17

Mean Conc (ug/L): -0.56 SD: 0.854 RSD(%): 151.33

QC sample is within range -3.00 - 2.00

Tl ID: 9611G708-001 Seq. No.: 00097 A/S Pos.: 33 Date: 12/14/96

Replicate 1 Time: 22:02
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.98

Replicate 2 Time: 22:05
Peak Area (A-s): -0.005 Peak Height (A): 0.008
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -2.48

Mean Conc (ug/L): -0.75 SD: 2.451 RSD(%): 327.40

Tl ID: 9611G708-001 Seq. No.: 00098 A/S Pos.: 33 Date: 12/14/96

Replicate 1 Time: 22:07
Peak Area (A-s): 0.055 Peak Height (A): 0.089
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 21.53

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T1 ID: ACCV Seq. No.: 00105 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 22:48
Peak Area (A-s): 0.095 Peak Height (A): 0.129
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 37.23

Replicate 2 Time: 22:50
Peak Area (A-s): 0.092 Peak Height (A): 0.116
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 36.28

Mean Conc (ug/L): 36.75 SD: 0.674 RSD(%): 1.83

QC sample is within range 31.50 - 38.50

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T1 ID: CCB Seq. No.: 00106 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 22:53
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.46

Replicate 2 Time: 22:56
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.02

Mean Conc (ug/L): -0.28 SD: 1.048 RSD(%): 378.13

QC sample is within range -3.00 - 2.00

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T1 ID: 9611G708-002R Seq. No.: 00107 A/S Pos.: 37 Date: 12/14/96

Replicate 1 Time: 22:59
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.24

Replicate 2 Time: 23:02
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.35

Mean Conc (ug/L): -0.06 SD: 0.418 RSD(%): 702.75

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T1 ID: 9611G708-002R Seq. No.: 00108 A/S Pos.: 37 Date: 12/14/96

Replicate 1 Time: 23:05

Mean Conc (ug/L): 22.16 SD: 1.727 RSD(%): 7.79

Recovery is 113.7%

110.8%

T1 ID: ACCV Seq. No.: 00115 A/S Pos.: 76 Date: 12/14/96

Replicate 1 Time: 23:45
Peak Area (A-s): 0.087 Peak Height (A): 0.124
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 34.21

Replicate 2 Time: 23:48
Peak Area (A-s): 0.093 Peak Height (A): 0.115
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 36.72

Mean Conc (ug/L): 35.46 SD: 1.778 RSD(%): 5.01

QC sample is within range 31.50 - 38.50

T1 ID: CCB Seq. No.: 00116 A/S Pos.: 77 Date: 12/14/96

Replicate 1 Time: 23:51
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.93

Replicate 2 Time: 23:54
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.20

Mean Conc (ug/L): -0.57 SD: 0.514 RSD(%): 90.78

QC sample is within range -3.00 - 2.00

T1 ID: 9611G769-001 Seq. No.: 00117 A/S Pos.: 41 Date: 12/14/96

Replicate 1 Time: 23:56
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.16

Replicate 2 Time: 23:59
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.49

Mean Conc (ug/L): -0.82 "U" SD: 0.474 RSD(%): 57.52

Peak Area (A-s): 0.052 Peak Height (A): 0.082
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.05

Mean Conc (ug/L): 20.03 SD: 0.025 RSD(%): 0.12

Recovery is 96.4%

166.2%

Tl ID: ACCV Seq. No.: 00125 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 00:42
Peak Area (A-s): 0.091 Peak Height (A): 0.122
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.67

Replicate 2 Time: 00:45
Peak Area (A-s): 0.090 Peak Height (A): 0.133
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.62

Mean Conc (ug/L): 35.64 SD: 0.034 RSD(%): 0.10

QC sample is within range 31.50 - 38.50

Tl ID: CCB Seq. No.: 00126 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 00:48
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.59

Replicate 2 Time: 00:51
Peak Area (A-s): -0.005 Peak Height (A): 0.007
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -2.40

Mean Conc (ug/L): -0.90 SD: 2.118 RSD(%): 234.22

QC sample is within range -3.00 - 2.00

Tl ID: 9611G771-001 Seq. No.: 00127 A/S Pos.: 45 Date: 12/15/96

Replicate 1 Time: 00:53
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.67

Replicate 2 Time: 00:56
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.049

Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 16.63

Replicate 2 Time: 01:35
Peak Area (A-s): 0.044 Peak Height (A): 0.068
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 17.02

Mean Conc (ug/L): 16.83 SD: 0.276 RSD(%): 1.64

Recovery is 77.9%

T1 ID: ACCV Seq. No.: 00135 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 01:38
Peak Area (A-s): 0.096 Peak Height (A): 0.136
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 37.80

Replicate 2 Time: 01:41
Peak Area (A-s): 0.093 Peak Height (A): 0.132
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 36.53

Mean Conc (ug/L): 37.17 SD: 0.900 RSD(%): 2.42

QC sample is within range 31.50 - 38.50

T1 ID: CCB Seq. No.: 00136 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 01:44
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.08

Replicate 2 Time: 01:47
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.46

Mean Conc (ug/L): -0.19 SD: 0.381 RSD(%): 201.36

QC sample is within range -3.00 - 2.00

T1 ID: 9611G771-004 Seq. No.: 00137 A/S Pos.: 49 Date: 12/15/96

Replicate 1 Time: 01:50
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.15

Replicate 2 | Time: 01:53
Peak Area (A-s): 0.002 | Peak Height (A): 0.009
Background Pk Area (A-s): 0.028 | Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.13

Mean Conc (ug/L): -0.01 "U" SD: 0.192 RSD(%): 1795.10

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T1 ID: 9611G771-004 Seq. No.: 00138 A/S Pos.: 49 Date: 12/15/96

Replicate 1 | Time: 01:55
Peak Area (A-s): 0.043 | Peak Height (A): 0.059
Background Pk Area (A-s): 0.056 | Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 16.71

Replicate 2 | Time: 01:58
Peak Area (A-s): 0.041 | Peak Height (A): 0.060
Background Pk Area (A-s): 0.056 | Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 15.87

Mean Conc (ug/L): 16.29 SD: 0.597 RSD(%): 3.66

Recovery is 81.5% 81.4%

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T1 ID: 96GF345-MB1 Seq. No.: 00139 A/S Pos.: 50 Date: 12/15/96

Replicate 1 | Time: 02:01
Peak Area (A-s): -0.001 | Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 | Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.09

Replicate 2 | Time: 02:04
Peak Area (A-s): -0.001 | Peak Height (A): 0.009
Background Pk Area (A-s): -0.004 | Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.80

Mean Conc (ug/L): -0.94 SD: 0.200 RSD(%): 21.22

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T1 ID: 96GF345-MB1 Seq. No.: 00140 A/S Pos.: 50 Date: 12/15/96

Replicate 1 | Time: 02:06
Peak Area (A-s): 0.054 | Peak Height (A): 0.086
Background Pk Area (A-s): 0.025 | Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 21.15

Replicate 2 | Time: 02:09
Peak Area (A-s): 0.057 | Peak Height (A): 0.087
Background Pk Area (A-s): 0.024 | Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 22.38
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Mean Conc (ug/L): 21.76 108.8% SD: 0.874 RSD(%): 4.01

Recovery is 113.5%

T1 ID: 96GF345-LC1 2X Seq. No.: 00141 A/S Pos.: 51 Date: 12/15/96

Replicate 1 Time: 02:12
Peak Area (A-s): 0.068 Peak Height (A): 0.101
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 26.76

Replicate 2 Time: 02:15
Peak Area (A-s): 0.070 Peak Height (A): 0.104
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 27.29

Mean Conc (ug/L): 27.03 108.1% SD: 0.377 RSD(%): 1.40

T1 ID: 96GF345-LC1 2X Seq. No.: 00142 A/S Pos.: 51 Date: 12/15/96

Replicate 1 Time: 02:17
Peak Area (A-s): 0.122 Peak Height (A): 0.183
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 48.04

Replicate 2 Time: 02:20
Peak Area (A-s): 0.127 Peak Height (A): 0.181
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 50.15

Mean Conc (ug/L): 49.09 SD: 1.491 RSD(%): 3.04

Recovery is 110.3%

T1 ID: 9611G675-001 Seq. No.: 00143 A/S Pos.: 52 Date: 12/15/96

Replicate 1 Time: 02:23
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.86

Replicate 2 Time: 02:26
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.13

Mean Conc (ug/L): 0.37 SD: 0.705 RSD(%): 192.65

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T1 ID: 9611G675-001 Seq. No.: 00144 A/S Pos.: 52 Date: 12/15/96

Replicate 1 Time: 02:29
Peak Area (A-s): 0.058 Peak Height (A): 0.115
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 22.67

Replicate 2 Time: 02:31
Peak Area (A-s): 0.058 Peak Height (A): 0.112
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 22.45

Mean Conc (ug/L): 22.56 SD: 0.153 RSD(%): 0.68

112.8%

Recovery is 111.0%

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T1 ID: ACCV Seq. No.: 00145 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 02:34
Peak Area (A-s): 0.093 Peak Height (A): 0.117
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 36.82

Replicate 2 Time: 02:37
Peak Area (A-s): 0.090 Peak Height (A): 0.120
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.56

Mean Conc (ug/L): 36.19 SD: 0.893 RSD(%): 2.47

QC sample is within range 31.50 - 38.50

~~~~~~

T1 ID: CCB Seq. No.: 00146 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 02:40
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.09

Replicate 2 Time: 02:43
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.60

Mean Conc (ug/L): -0.85 SD: 0.347 RSD(%): 40.92

QC sample is within range -3.00 - 2.00
~~~~~~

Tl ID: 9611G675-001R Seq. No.: 00147 A/S Pos.: 53 Date: 12/15/96

Replicate 1 Time: 02:46
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.14

Replicate 2 Time: 02:49
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.64

Mean Conc (ug/L): -0.39 SD: 0.350 RSD(%): 89.52

Tl ID: 9611G675-001R Seq. No.: 00148 A/S Pos.: 53 Date: 12/15/96

Replicate 1 Time: 02:51
Peak Area (A-s): 0.056 Peak Height (A): 0.126
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 22.02

Replicate 2 Time: 02:54
Peak Area (A-s): 0.057 Peak Height (A): 0.126
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 22.06

Mean Conc (ug/L): 22.04 110.2% SD: 0.025 RSD(%): 0.11

Recovery is 112.2%

Tl ID: 9611G675-001S2X Seq. No.: 00149 A/S Pos.: 54 Date: 12/15/96

Replicate 1 Time: 02:57
Peak Area (A-s): 0.069 Peak Height (A): 0.131
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 26.91

Replicate 2 Time: 03:00
Peak Area (A-s): 0.071 Peak Height (A): 0.130
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 27.79

Mean Conc (ug/L): 27.35 109.4% SD: 0.621 RSD(%): 2.27

Tl ID: 9611G675-001S2X Seq. No.: 00150 A/S Pos.: 54 Date: 12/15/96

Replicate 1 Time: 03:03
Peak Area (A-s): 0.123 Peak Height (A): 0.264
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.156

Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 48.61

Replicate 2 Time: 03:05
Peak Area (A-s): 0.123 Peak Height (A): 0.280
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.160
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 48.77

Mean Conc (ug/L): 48.69 SD: 0.115 RSD(%): 0.24

Recovery is 106.7%

~~~~~~

Tl ID: 9611G675-002 Seq. No.: 00151 A/S Pos.: 55 Date: 12/15/96

Replicate 1 Time: 03:08
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.47

Replicate 2 Time: 03:11
Peak Area (A-s): -0.001 Peak Height (A): 0.012
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.95

Mean Conc (ug/L): -0.24 SD: 1.006 RSD(%): 414.17

~~~~~~

Tl ID: 9611G675-002 Seq. No.: 00152 A/S Pos.: 55 Date: 12/15/96

Replicate 1 Time: 03:14
Peak Area (A-s): 0.060 Peak Height (A): 0.120
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 23.24

Replicate 2 Time: 03:17
Peak Area (A-s): 0.057 Peak Height (A): 0.114
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 22.06

Mean Conc (ug/L): 22.65 113.2% SD: 0.831 RSD(%): 3.67

Recovery is 114.5%

~~~~~~

Tl ID: 9611G675-003 Seq. No.: 00153 A/S Pos.: 56 Date: 12/15/96

Replicate 1 Time: 03:20
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.06

Replicate 2 Time: 03:22
~~~~~~

Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.22

Mean Conc (ug/L): 0.08 SD: 0.192 RSD(%): 242.05

T1 ID: 9611G675-003 Seq. No.: 00154 A/S Pos.: 56 Date: 12/15/96

Replicate 1 Time: 03:25
Peak Area (A-s): 0.056 Peak Height (A): 0.134
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 21.95

Replicate 2 Time: 03:28
Peak Area (A-s): 0.057 Peak Height (A): 0.136
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 22.12

Mean Conc (ug/L): 22.04 SD: 0.122 RSD(%): 0.55

Recovery is 109.8% 110.2%

T1 ID: ACCV Seq. No.: 00155 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 03:31
Peak Area (A-s): 0.091 Peak Height (A): 0.130
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.68

Replicate 2 Time: 03:34
Peak Area (A-s): 0.090 Peak Height (A): 0.119
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 35.49

Mean Conc (ug/L): 35.59 SD: 0.136 RSD(%): 0.38

QC sample is within range 31.50 - 38.50

T1 ID: CCB Seq. No.: 00156 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 03:37
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.32

Replicate 2 Time: 03:39
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.23

Mean Conc (ug/L): -0.05 SD: 0.392 RSD(%): 822.27

QC sample is within range -3.00 - 2.00

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Tl ID: 9611G675-004 Seq. No.: 00157 A/S Pos.: 57 Date: 12/15/96

Replicate 1 Time: 03:42
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.51

Replicate 2 Time: 03:45
Peak Area (A-s): 0.005 Peak Height (A): 0.011
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.64

Mean Conc (ug/L): 0.06 SD: 2.227 RSD(%): 3547.84

~~~~~~

Tl ID: 9611G675-004 Seq. No.: 00158 A/S Pos.: 57 Date: 12/15/96

Replicate 1 Time: 03:48
Peak Area (A-s): 0.029 Peak Height (A): 0.054
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 10.88

Replicate 2 Time: 03:51
Peak Area (A-s): 0.026 Peak Height (A): 0.047
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 10.04

Mean Conc (ug/L): 10.46 SD: 0.593 RSD(%): 5.66

Recovery is 52.0% 52.3%

~~~~~~

Tl ID: 9611G675-005 Seq. No.: 00159 A/S Pos.: 58 Date: 12/15/96

Replicate 1 Time: 03:54
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.10

Replicate 2 Time: 03:57
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.09

Mean Conc (ug/L): -0.49 SD: 0.846 RSD(%): 171.10
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T1 ID: 9611G675-005 Seq. No.: 00160 A/S Pos.: 58 Date: 12/15/96

Replicate 1 Time: 04:00
Peak Area (A-s): 0.048 Peak Height (A): 0.088
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 18.83

Replicate 2 Time: 04:02
Peak Area (A-s): 0.047 Peak Height (A): 0.087
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 18.39

Mean Conc (ug/L): 18.61 SD: 0.310 RSD(%): 1.67

Recovery is 95.5% 93.0%

~~~~~~

T1 ID: 9611G675-006 Seq. No.: 00161 A/S Pos.: 59 Date: 12/15/96

Replicate 1 Time: 04:05
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.43

Replicate 2 Time: 04:08
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.28

Mean Conc (ug/L): -0.43 SD: 1.208 RSD(%): 281.99

~~~~~~

T1 ID: 9611G675-006 Seq. No.: 00162 A/S Pos.: 59 Date: 12/15/96

Replicate 1 Time: 04:11
Peak Area (A-s): 0.046 Peak Height (A): 0.103
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 18.04

Replicate 2 Time: 04:14
Peak Area (A-s): 0.048 Peak Height (A): 0.104
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 18.74

Mean Conc (ug/L): 18.39 SD: 0.492 RSD(%): 2.68

Recovery is 94.1% 92.0%

~~~~~~

T1 ID: 9611G675-007 Seq. No.: 00163 A/S Pos.: 60 Date: 12/15/96

Replicate 1 Time: 04:17

Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.60

Replicate 2 Time: 04:20
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.76

Mean Conc (ug/L): -1.18 SD: 0.817 RSD(%): 69.10

~~~~~~

Tl ID: 9611G675-007 Seq. No.: 00164 A/S Pos.: 60 Date: 12/15/96

Replicate 1 Time: 04:23
Peak Area (A-s): 0.059 Peak Height (A): 0.078
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 23.00

Replicate 2 Time: 04:25
Peak Area (A-s): 0.053 Peak Height (A): 0.093
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 20.68

Mean Conc (ug/L): 21.84 169.2% SD: 1.641 RSD(%): 7.51

Recovery is 115.1%

~~~~~~

Tl ID: ACCV Seq. No.: 00165 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 04:28
Peak Area (A-s): 0.089 Peak Height (A): 0.128
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 35.08

Replicate 2 Time: 04:31
Peak Area (A-s): 0.088 Peak Height (A): 0.129
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 34.83

Mean Conc (ug/L): 34.95 SD: 0.181 RSD(%): 0.52

QC sample is within range 31.50 - 38.50

~~~~~~

Tl ID: CCB Seq. No.: 00166 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 04:34
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.19
~~~~~~

Replicate 2 Time: 04:37
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.20

Mean Conc (ug/L): -0.69 SD: 0.696 RSD(%): 100.27

QC sample is within range -3.00 - 2.00

~~~~~~

Tl ID: 9611G675-008 Seq. No.: 00167 A/S Pos.: 61 Date: 12/15/96

Replicate 1 Time: 04:40
Peak Area (A-s): -0.005 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -2.58

Replicate 2 Time: 04:43
Peak Area (A-s): 0.000 Peak Height (A): 0.008
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.52

Mean Conc (ug/L): -1.55 "U" SD: 1.453 RSD(%): 93.75

~~~~~~

Tl ID: 9611G675-008 Seq. No.: 00168 A/S Pos.: 61 Date: 12/15/96

Replicate 1 Time: 04:46
Peak Area (A-s): 0.064 Peak Height (A): 0.112
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 24.85

Replicate 2 Time: 04:48
Peak Area (A-s): 0.061 Peak Height (A): 0.114
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 23.69

Mean Conc (ug/L): 24.27 121.4% SD: 0.822 RSD(%): 3.39

Recovery is 129.1%

~~~~~~

Tl ID: ACCV Seq. No.: 00169 A/S Pos.: 76 Date: 12/15/96

Replicate 1 Time: 04:51
Peak Area (A-s): 0.092 Peak Height (A): 0.123
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 36.23

Replicate 2 Time: 04:54
Peak Area (A-s): 0.092 Peak Height (A): 0.120
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.092
~~~~~~

Concentration (ug/L): 36.32

Mean Conc (ug/L): 36.28 SD: 0.068 RSD(%): 0.19

QC sample is within range 31.50 - 38.50

Tl ID: CCB Seq. No.: 00170 A/S Pos.: 77 Date: 12/15/96

Replicate 1 Time: 04:57
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.40

Replicate 2 Time: 05:00
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.78

Mean Conc (ug/L): -1.09 SD: 0.436 RSD(%): 39.89

QC sample is within range -3.00 - 2.00

WESTON
MANAGERS DESIGNERS/CONSULTANTS

MERCURY RAW DATA

WESTON Analytics Inorganics Section
Mercury Report

Date of Prep: 12/03/96
Date of Analysis: 12/03/96
Worksheet: GHGB022 Run Batch: 96HG022
Test: MHGTO Method: 245.5
Directory: INORGANICS Analyst: PFK
Instrument: HG4

RFW SAMPLE ID	TEST	INSTRUMENT READOUT ug/L	ug/100mL	DILUTION FACTOR	C/D	FINAL RESULT	CRDL EPA 0.200	UNITS	REPLICATE ORIG SAMPLE RESULT	REP % DIFF	SPIKE TCLP 200 TOTAL 1.00	SAMPLE SPIKE AMOUNT	% RECOV	LCS AMT LCS 2.00	% RECOV	SOILS PREP PREP BATCH	INITIAL SAMPLE WT.	FINAL VOL.	% SOLIDS
96HG022-ICV1	MHGLCS	2.0750	0.20750	1	1.0000	2.0750	0.2000	UG/L						2.0	103.8	96HG022			
96HG022-ICB1	MHGTO	-0.0313	-0.00313	1	1.0000	-0.0313 u	0.2000	UG/L								96HG022			
96HG022-CRA1	MHGLCS	0.1750	0.01750	1	1.0000	0.1750 u	0.2000	UG/L						0.2	87.5	96HG022			
96HG022-MB1	MHGTO	-0.0246	-0.00246	1	0.5000	-0.0123 u	0.1000	MG/KG								96HG022	0.20	100.00	100.0
96HG022-LC1	MHGLCS	2.0890	0.20890	1	0.5000	1.0445	0.1000	MG/KG						1.0	104.5	96HG022	0.20	100.00	100.0
*96116675-001	MHGTO	-0.0054	-0.00054	1	0.5314	-0.0029 u	0.1063	MG/KG								96HG022	0.27	100.00	69.7
96116675-001R	MHGTOR	0.0065	0.00065	1	0.6832	0.0044 u	0.1366	MG/KG	0.000	200.0						96HG022	0.21	100.00	69.7
96116675-001S	MHGTOS	0.8751	0.08751	1	0.6238	0.5459	0.1248	MG/KG	0.000		1	0.624	87.5			96HG022	0.23	100.00	69.7
96116675-002	MHGTO	-0.0272	-0.00272	1	0.5858	-0.0159 u	0.1172	MG/KG								96HG022	0.22	100.00	77.6
96116675-003	MHGTO	-0.0049	-0.00049	1	0.3592	-0.0018 u	0.0718	MG/KG								96HG022	0.29	100.00	96.0
96116675-004	MHGTO	-0.0126	-0.00126	1	0.6910	-0.0087 u	0.1382	MG/KG								96HG022	0.27	100.00	53.6
96116675-005	MHGTO	0.2325	0.02325	1	0.4655	0.1082	0.0931	MG/KG								96HG022	0.30	100.00	71.6
96HG022-CV1	MHGLCS	0.9754	0.09754	1	1.0000	0.9754	0.2000	UG/L						1.0	97.5	96HG022			
96HG022-CB1	MHGTO	-0.0319	-0.00319	1	1.0000	-0.0319 u	0.2000	UG/L								96HG022			
96116675-006	MHGTO	0.0424	0.00424	1	0.4880	0.0207 u	0.0976	MG/KG								96HG022	0.27	100.00	75.9
96116675-007	MHGTO	0.0070	0.00070	1	0.4008	0.0028 u	0.0802	MG/KG								96HG022	0.27	100.00	92.4
96116675-008	MHGTO	0.0418	0.00418	1	0.6242	0.0261 u	0.1248	MG/KG								96HG022	0.30	100.00	53.4
96HG022-CV2	MHGLCS	1.0170	0.10170	1	1.0000	1.0170	0.2000	UG/L						1.0	101.7	96HG022			
96HG022-CB2	MHGTO	-0.0317	-0.00317	1	1.0000	-0.0317 u	0.2000	UG/L								96HG022			

Paul F. Kolanyk
12/17/96

Cheryl L Boyd 12/13/96

Circle Method:
a. H2O - EPA 245.1 / SW846 7470
b. Soil/Solid EPA 245.5 / SW846 7471
c. Other - _____

Weston Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log

Page #: _____
Book #: 2108
Filename: GHGB022

Instrument: Leeman Labs PS200 (HG4) Wavelength: 253.7 nm Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: 991 ICV/CCV/LCS Source ID#: _____
Water Bath Temperature: Initial 95 C Final _____ C Equip.ID #: _____ Control Limits: 90 C to 95 C
Thermometer ID: _____ Correction Factor: _____ C HNO3 Lot #: _____ HCL Lot #: _____
H2SO4 Lot #: _____

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
STD 1	0.0 ppb STD	100 mls			
2	0.2 " "	"		CC=	0.9999
3	0.5 " "	"		M=	32854.9
4	1.0 " "	"		B=	987.96
5	3.0 " "	"		x'=	-0.030
6	5.0 " "	"			
					PFK 12/6/96

	No.	Batch		
QC 2	~~CCV~~ ICV	~~(LCS)~~ B022 (2ppb)	100 mls	
QC 1	~~CCB~~ ICB	~~(MB)~~	100 mls	
1	CRA (0.20ppb)		100 mls	
2	MB1		0.20	100.0
3	PFK 12/6/96 ~~96H~~ Solid LCS (2ppb)		0.20	100.0
4	96116675-001		0.27	69.7
5	-001R		0.21	69.7
6	-001S (1ppb)		0.23	69.7
7	-002		0.22	77.6
8	-003		0.29	96.0
9	-004		0.27	53.6
10	-005		0.30	71.6

	No.	Batch		
QC 2	CCV 1	~~(LCS)~~ B022 (1ppb)	100 mls	
QC 1	CCB 1	~~(MB)~~	100 mls	

Preparation Signature: Paul Kolmyk Date: 12/3/96 Time In: 1550 Time Out: 1620
Analyst Signature: Paul T. Kolmyk Date Analyzed: 12/3/96 V Date LIMS'd: _____
Reviewer Signature: Cheryl L Boyd Date: 12/13/96

RFW 21-21G-15108/A-7/96

Circle Method:
a. H2O - EPA 245.1 / SW846 7470
b. Soil/Solid - EPA 245.5 / SW846 7471
c. Other - _____

Weston Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log
(See pg 38)

Page #: 39
Book #: 2108
Filename: GHGB022 (cont.)

Instrument: Leeman Labs PS200 (HG4)
Wavelength: 253.7 nm
Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: _____
ICV/CCV/LCS Source ID#: _____
Water Bath Temperature: Initial _____ C Final _____ C Equip.ID #: _____
Control Limits: 90 C to 95 C
Thermometer ID: _____ Correction Factor: _____ C HNO3 Lot #: _____
HCL Lot #: _____
H2SO4 Lot #: _____

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
11	96116675-006	0.27	75.9		
12	-007	0.27	92.4		
13	-008	0.36	53.4		
14					PFK 12/6/96

		No.		Batch		
QC 2	CCV	2	(~~LCS~~)	B022 (1ppb)	100 mls	
QC 1	CCB	2	(~~MB~~)		100 mls	

PFK 12/6/96

		No.		Batch		
QC 2	CCV		(LCS)		100 mls	
QC 1	CCB		(MB)		100 mls	

Preparation Signature: Paul F. Klapyk Date: 12/3/96 Time In: 1550 Time Out: 1620
Analyst Signature: Paul F. Klapyk Date Analyzed: 12/3/96 Date LIMS'd: _____
Reviewer Signature: Cheryl L Boyd Date: 12/13/96

GHG-B022
Concentration

18:25:09 01 Dec 1996 Folder: 120396V Protocol: MERCURY VAPOR AUTOANALYZER Page 1

457

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

*** Standard: 1 Rep: 1 Seq: 0 18:25:09 01 Dec 1996 HG

Hg .0000 ppb 937
Ave. Int. = 937 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 18:27:28 01 Dec 1996 HG

Hg .2000 ppb 7411
Ave. Int. = 7411 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 18:29:47 01 Dec 1996 HG

Hg .5000 ppb 16968
Ave. Int. = 16968 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 18:32:06 01 Dec 1996 HG

Hg 1.000 ppb 34144
Ave. Int. = 34144 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 18:34:25 01 Dec 1996 HG

Hg 3.000 ppb 100440
Ave. Int. = 100440 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 18:36:47 01 Dec 1996 HG

Hg 5.000 ppb 164721
Ave. Int. = 164721 S. D. = 0

Paul F. Klamyk
12/3/96
Cheryl L Boyd 12/13/96

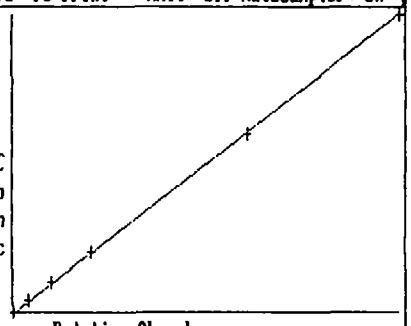
Protocol: MERCURY VAPOR AUTOANALYZER
Rev: 3.001 Time: 18:36:54 01 Dec 1996
Folder: 120396V Seq: 6 Print: On
User: KOLARCZYK Batch: Id: Std6Rep1 Cup: 1 00 Gas: 0.30 LPM
State: Idle Macro CLP3 79: F3 Print Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear	
S1	.0000	-.0014	-.0014	Quadratic	
S2	.2000	.1956	-.0044	WtdLinear	
S3	.5000	.4865	-.0135		C
S4	1.000	1.009	.0092	Accept	o
S5	3.000	3.027	.0269		n
S6	5.000	4.983	-.0167	StdAdd	c

A .0000000 r .999967
B 3.04348e-5 C -2.99618e-2



	Mean	%RSD	
S1	937	0	937
S2	7411	0	7411
S3	16968	0	16968
S4	34144	0	34144
S5	100440	0	100440
S6	164721	0	164721

New calibration coefficients stored

459

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

*** Check Standard: 2 Ck2 Seq: 6 18:39:11 01 Dec 1996 HG

IW

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.7	2.075	2.000	ppb	.0000

103.8%

*** Check Standard: 1 Ck1 Seq: 7 18:41:30 01 Dec 1996 HG

IB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0313	.2000	ppb	.0000

*** Sample ID: 01 Seq: 8 18:43:45 01 Dec 1996 HG

CRA

CRA

Hg .1750 ppb .0000 .1751

87.5%

*** Sample ID: 02 Seq: 9 18:45:58 01 Dec 1996 HG

MB1

MB1

Hg -.0246 L ppb .0000 -.0246

*** Sample ID: 03 Seq: 10 18:48:11 01 Dec 1996 HG

LCS

SOLID LC2

Hg 2.089 ppb .0000 2.089

104.5%

*** Sample ID: 04 Seq: 11 18:50:27 01 Dec 1996 HG

9611G675-001

Hg -.0054 L ppb .0000 -.0054

*** Sample ID: 05 Seq: 12 18:52:40 01 Dec 1996 HG

9611G675-001R

NC

Hg .0065 ppb .0000 .0065

*** Sample ID: 06 Seq: 13 18:54:54 01 Dec 1996 HG

9611G675-001S

87.5%

Hg .8751 ppb .0000 .8751

*** Sample ID: 07 Seq: 14 18:57:11 01 Dec 1996 HG

9611G675-002

Hg -.0272 L ppb .0000 -.0272

*** Sample ID: 08 Seq: 15 18:59:25 01 Dec 1996 HG

9611G675-003

Hg -.0049 L ppb .0000 -.0049

*** Sample ID: 09 Seq: 16 19:01:39 01 Dec 1996 HG

9611G675-004

Hg -.0126 L ppb .0000 -.0126

*** Sample ID: 10 Seq: 17 19:03:53 01 Dec 1996 HG

9611G675-005

Hg .2324 ppb .0000 .2325

460

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

*** Check Standard: 3  Ck3          Seq:  18      19:06:09 01 Dec 1996 HG
CV1 Line  Flag  %Rcv.   Found    True  Units      SD/RSD
    Hg          97.54    .9754   1.000  ppb        .0000     97.5%

CB1 *** Check Standard: 1  Ck1      Seq:  19      19:08:26 01 Dec 1996 HG
    Line  Flag  Found Range(+/-) Units      SD/RSD
    Hg         -.0319    .2000    ppb        .0000

    *** Sample ID: 11               Seq:  20      19:10:41 01 Dec 1996 HG
                            9611G675-006
    Hg    .0424   ppb       .0000     .0424

    *** Sample ID: 12               Seq:  21      19:12:54 01 Dec 1996 HG
                            9611G675-007
    Hg    .0070   ppb       .0000     .0071

    *** Sample ID: 13               Seq:  22      19:15:07 01 Dec 1996 HG
                            9611G675-008
    Hg    .0418   ppb       .0000     .0418

    *** Check Standard: 3  Ck3      Seq:  23      19:17:21 01 Dec 1996 HG
CV2 Line  Flag  %Rcv.   Found    True  Units      SD/RSD
    Hg          101.7    1.017   1.000  ppb        .0000     101.7%

CB2 *** Check Standard: 1  Ck1      Seq:  24      19:19:38 01 Dec 1996 HG
    Line  Flag  Found Range(+/-) Units      SD/RSD
    Hg         -.0317    .2000    ppb        .0000

    *** Check Standard: 3  Ck3      Seq:  25      19:21:54 01 Dec 1996 HG
    Line  Flag  %Rcv.   Found    True  Units      SD/RSD
    Hg          102.2    1.022   1.000  ppb        .0000     PFK 12/9/96

    *** Check Standard: 1  Ck1      Seq:  26      19:24:11 01 Dec 1996 HG
    Line  Flag  Found Range(+/-) Units      SD/RSD
    Hg         -.0298    .2000    ppb        .0000
```

aHGB022

19:36:19 01 Dec 1996 Folder: 120396V
Protocol: MERCURY VAPOR AUTOANALYZER

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

*** Standard: 1 Rep: 1 Seq: 0 18:25:09 01 Dec 1996 HG

Hg .0000 ppb 937
Ave. Int. = 937 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 18:27:28 01 Dec 1996 HG

Hg .2000 ppb 7411
Ave. Int. = 7411 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 18:29:47 01 Dec 1996 HG

Hg .5000 ppb 16968
Ave. Int. = 16968 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 18:32:06 01 Dec 1996 HG

Hg 1.000 ppb 34144
Ave. Int. = 34144 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 18:34:25 01 Dec 1996 HG

Hg 3.000 ppb 100440
Ave. Int. = 100440 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 18:36:47 01 Dec 1996 HG

Hg 5.000 ppb 164721
Ave. Int. = 164721 S. D. = 0

*** Check Standard: 2 Ck2 Seq: 6 18:39:11 01 Dec 1996 HG
Line Flag Intensities
Hg 69151

*** Check Standard: 1 Ck1 Seq: 7 18:41:30 01 Dec 1996 HG
Line Flag Intensities
Hg -44

*** Sample ID: 01 Seq: 8 18:43:45 01 Dec 1996 HG
CRA
Hg .1750 ppb 6736

*** Sample ID: 02 Seq: 9 18:45:58 01 Dec 1996 HG
MB1
Hg -.0246 L ppb 177

Paul T. Klamyk
12/3/96

Cheryl L Boyd 12/13/96

461

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

*** Sample ID: 03 Seq: 10 18:48:11 01 Dec 1996 HG
SOLID LC2
Hg 2.089 ppb 69626

*** Sample ID: 04 Seq: 11 18:50:27 01 Dec 1996 HG
9611G675-001
Hg -.0054 L ppb 808

*** Sample ID: 05 Seq: 12 18:52:40 01 Dec 1996 HG
9611G675-001R
Hg .0065 ppb 1197

*** Sample ID: 06 Seq: 13 18:54:54 01 Dec 1996 HG
9611G675-001S
Hg .8751 ppb 29737

*** Sample ID: 07 Seq: 14 18:57:11 01 Dec 1996 HG
9611G675-002
Hg -.0272 L ppb 91

*** Sample ID: 08 Seq: 15 18:59:25 01 Dec 1996 HG
9611G675-003
Hg -.0049 L ppb 824

*** Sample ID: 09 Seq: 16 19:01:39 01 Dec 1996 HG
9611G675-004
Hg -.0126 L ppb 572

*** Sample ID: 10 Seq: 17 19:03:53 01 Dec 1996 HG
9611G675-005
Hg .2324 ppb 8622

*** Check Standard: 3 Ck3 Seq: 18 19:06:09 01 Dec 1996 HG
Line Flag Intensities
Hg 33032

*** Check Standard: 1 Ck1 Seq: 19 19:08:26 01 Dec 1996 HG
Line Flag Intensities
Hg -65

*** Sample ID: 11 Seq: 20 19:10:41 01 Dec 1996 HG
9611G675-006
Hg .0424 ppb 2379

*** Sample ID: 12 Seq: 21 19:12:54 01 Dec 1996 HG
9611G675-007
Hg .0070 ppb 1216

463

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

*** Sample ID: 13 Seq: 22 19:15:07 01 Dec 1996 HG
9611G675-008

Hg	.0410	ppb	2358

*** Check Standard: 3 Ck3 Seq: 23 19:17:21 01 Dec 1996 HG

Line	Flag	Intensities
Hg		34410

*** Check Standard: 1 Ck1 Seq: 24 19:19:38 01 Dec 1996 HG

Line	Flag	Intensities
Hg		-58

WESTON
MANAGERS DESIGNERS/CONSULTANTS

CYANIDE RAW DATA

WESTON Environmental Metrics, Inc
Cyanide Worksheet - Midi-Distillation

Date of Prep: 11/30/96
Date of Analysis: 11/30/96

Filename: GCN309
Test: ICNTO
Directory: INORGANICS
CLP Technique: C

Prep Batch: 96GCN309
Method: ILM3.0
Analyst: BDW
Instrument: SPEC1001

CALIB DATA
SLOPE: 0.002
INTERCEPT: -0.001
CORRELATION COEFF.: 1.0000

CONC	READING	READBACK %RB
0	0.000 *	
10	0.018 *	99.9
20	0.038 *	102.1
40	0.076 *	100.6
100	0.186 *	97.6
200	0.385 *	100.7
400	0.766 *	100.0

RFW SAMPLE ID	TEST	INST. ABS	INITIAL RESULT	DILUTION FACTOR	C/D	RESULT	DETECTION LIMIT 10.00	UNITS	DUPLICATE ORIG SAMPLE RESULT	DUPLICATE REL % DIFF	SPIKE/LCS SPIKE 200.00 LCS 200.00	SPIKE/LCS SAMPLE SPIKE AMOUNT	SPIKE/LCS % RECOV	CALIBRATION ICV 100.00 CCV 200.00	CALIBRATION % RECOV	SAMPLE PREP PREP BATCH	SAMPLE PREP INITIAL SAMPLE WT/VOL	SAMPLE PREP FINAL VOL.	SAMPLE PREP % SOLIDS	SAMPLE PREP ANAL TIME	SAMPLE PREP ANAL DATE
S0	ICNTO	0.000	0.602	1	1.0000	0.602 u	10.000	UG/L								96GCN309	25	25		13:17	11/30/96
S10	ICNTO	0.018	9.985	1	1.0000	9.985 u	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
S20	ICNTO	0.038	20.411	1	1.0000	20.411	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
S40	ICNTO	0.076	40.221	1	1.0000	40.221	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
S100	ICNTO	0.186	97.563	1	1.0000	97.563	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
S200	ICNTO	0.385	201.302	1	1.0000	201.302	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
S400	ICNTO	0.766	399.916	1	1.0000	399.916	10.000	UG/L								96GCN309	25	25		00:00	11/30/96
96GCN309-ICV1	ICNTOL	0.199	104.340	1	1.0000	104.340	10.000	UG/L						100.0	104.3	96GCN309	25	25		13:19	11/30/96
96GCN309-ICB1	ICNTO	0.000	0.602	1	1.0000	0.602 u	10.000	UG/L								96GCN309	25	25		13:19	11/30/96
96GCN309-MB1	ICNTO	0.003	2.166	1	0.0455	0.098 u	0.455	MG/KG								96GCN309	1.1	50	100.0	00:00	11/30/96
96GCN309-LCS	ICNTOS	0.198	103.819	50	0.0485	251.988	24.272	MG/KG	0.000		302.00	302.00	83.4			96GCN309	1.03	50	100.0	00:00	11/30/96
SMR	ICNTO	0.389	203.387	1	1.0000	203.387	10.000	UG/L								96GCN309	50	50		00:00	11/30/96
9611G613-001	ICNTO	0.001	1.123	1	0.0474	0.053 u	0.474	MG/KG								96GCN309	1.21	50	87.1	00:00	11/30/96
9611G613-002	ICNTO	0.000	0.602	1	0.0519	0.031 u	0.519	MG/KG								96GCN309	1.02	50	94.5	00:00	11/30/96
9611G613-003	ICNTO	0.000	0.602	1	0.0438	0.026 u	0.438	MG/KG								96GCN309	1.26	50	90.6	00:00	11/30/96
9611G613-003	ICNTOR	0.003	2.166	1	0.0488	0.106 u	0.488	MG/KG	0.000	200.0						96GCN309	1.13	50	90.6	00:00	11/30/96
9611G613-003	ICNTOS	0.496	259.166	2	0.0536	27.772	1.072	MG/KG	0.000		500.00	26.79	103.7			96GCN309	1.03	50	90.6	00:00	11/30/96
9611G675-001	ICNTO	0.003	2.166	1	0.0608	0.132 u	0.608	MG/KG								96GCN309	1.18	50	69.7	00:00	11/30/96
9611G675-001	ICNTOR	0.001	1.123	1	0.0629	0.071 u	0.629	MG/KG	0.000	200.0						96GCN309	1.14	50	69.7	00:00	11/30/96
96GCN309-CCV1	ICNTOL	0.395	206.515	1	1.0000	206.515	10.000	UG/L						200.0	103.3	96GCN309	25	25		13:23	11/30/96
96GCN309-CCB1	ICNTO	0.000	0.602	1	1.0000	0.602 u	10.000	UG/L								96GCN309	25	25		13:23	11/30/96
9611G675-001	ICNTOS	0.490	256.038	2	0.0613	31.397	1.226	MG/KG	0.000		500.00	30.66	102.4			96GCN309	1.17	50	69.7	00:00	11/30/96
9611G675-002	ICNTO	0.001	1.123	1	0.0555	0.062 u	0.555	MG/KG								96GCN309	1.16	50	77.6	00:00	11/30/96
9611G675-003	ICNTO	0.000	0.602	1	0.0427	0.026 u	0.427	MG/KG								96GCN309	1.22	50	96.0	00:00	11/30/96
9611G675-004	ICNTO	0.051	27.188	1	0.0740	2.013	0.740	MG/KG								96GCN309	1.26	50	53.6	00:00	11/30/96
9611G675-005	ICNTO	0.003	2.166	1	0.0698	0.151 u	0.698	MG/KG								96GCN309	1	50	71.6	00:00	11/30/96
9611G675-006	ICNTO	0.016	8.943	1	0.0436	0.390 u	0.436	MG/KG								96GCN309	1.51	50	75.9	00:00	11/30/96
9611G675-007	ICNTO	0.000	0.602	1	0.0354	0.021 u	0.354	MG/KG								96GCN309	1.53	50	92.4	00:00	11/30/96
9611G675-008	ICNTO	0.028	15.198	1	0.0624	0.949	0.624	MG/KG								96GCN309	1.5	50	53.4	00:00	11/30/96
96GCN309-CCV2	ICNTOL	0.393	205.472	1	1.0000	205.472	10.000	UG/L						200.0	102.7	96GCN309	25	25		13:26	11/30/96
96GCN309-CCB2	ICNTO	0.000	0.602	1	1.0000	0.602 u	10.000	UG/L								96GCN309	25	25		13:26	11/30/96

ss: Caren D Williamson 12/6/96
Dr ani a Hay 12/10/96

RFW 21-21G-1555\C-10/96

Cyanide

Page: [illegible]
Book #: 2189

Method

a. EPA 335.2 b. S 9010A c. SM 4500CNC (Drinking Water)
d. Amenable CN - EPA 335.1; SM 4500CNG e. Reactive CN - S 7.3.3.2
f. CLP ILM03.0 ✓ ILM04.0 ____ ILC03.1 ____
g. SM 4500CN-I (Weak Acid Dissociable)

Calculations:

ug/L = ug/L(Curve) x 50 ml Final Vol / Smp.Size (ml) x Dil.
mg/kg"A" = ug/L(Curve) x 50 ml Final Vol / Smp.Size (g) x Dil. / 1000
mg/kg "d" = mg/kg "A" / % Solids (as decimal)

Standard Use	Conc. ug/L	Concentrate	ul	Diluent	Final Volume mls	Eppendorf ID	Time	Abs.
Calibration	0	WSI	0	0.25N NaOH	25		13:17	0.000
Calibration	5	WSI	25	0.25N NaOH	50	—		—
Calibration	10	WSI	25	0.25N NaOH	25	Red Dot		0.018
Calibration	20	WSI	50	0.25N NaOH	25	↓		0.038
Calibration	40	WSI	100	0.25N NaOH	25	↓		0.076
Calibration	100	WSI	250	0.25N NaOH	25	Orange Dot		0.186
Calibration	200	WSI	500	0.25N NaOH	25	Blue Dot		0.385
Calibration	400	WSI	1000	0.25N NaOH	25	Finnpipette	13:19	0.766
ICV	100	WSII	250	0.25N NaOH	25	Orange Dot		c.c 1.000
CCV	200	WSII	500	0.25N NaOH	25	Blue Dot		m 0.002
LCS (aqueous)	200	WSII	1000	Water	50	Finnpipette		y int. -0.001
LCS (soil)	502 mg/kg	ID: 2002	~1 g	Water	50			Limits: 38.1 - 185.7
Low Range (dist.)	40	WSI	200	Water	50	—		
Mid Range (dist.)	200	WSI	1000	Water	50	Finnpipette		
High Range (dist.)	400	WSI	2000	Water	50	—		
Matrix Spike (Water)	200	WSII	1000	Sample	50	—		
Matrix Spike (Water-CLP))	100	WSII	500	Sample	50	—		
Matrix Spike (Soil-335.2)	200	WSII	1000	Sample	50	—		
Matrix Spike (Soil-9010)	100	WSII	500	Sample	50	—		
Matrix Spike (Soil-CLP)	500	WSII	2500	Sample	50	Finnpipette, Blue Dot		
Post Spike (Water)	100	WSII	250	Smp. Dist.	25	—		
Post Spike (Soil)	500	WSII	1250	Smp. Dist.	25	—		
Working Std. I (WSI)	10000	Stock I	1000	Water	100	Finnpipette		
Working Std. II (WSII)	10000	Stock II	1000	Water	100	↓		

Stock Soln. I ID #: 1292-114-6 Stock Soln. II ID #: 1292-114-7

Preparation Time: Working Standards 8:55 Initial/Date BDW 11-30-96

Preparation Time: Calibration Standards/ICV/CCV 13:00 Initial/Date BDW 11-30-96

Reagent Traceability

Total & Reactive CN	ID #
1.25 N NaOH	—
51 % Magnesium Chloride	2190-5-10
50 % Sulfuric Acid	2190-5-20
0.4 N Sulfamic Acid	2190-5-21
0.25 N NaOH	2190-6-6
0.005 M Sulfuric Acid	—
Amenable	
Calcium Hypochlorite	—
Ascorbic Acid Soln.	—
Sulfide Treatment	
Cadmium Carbonate	—
0.062 M Bismuth Nitrate	—
Color Reagent	
Chloramine T	2190-3-15
Pyridine-Barbituric Acid	2190-6-9
Sodium Phosph. Monohydr.	2190-6-8
Titration	
0.0192 N Silver Nitrate	—
Rhodanine Indicator	—

Stock Solution Standardization

mg CN/L = (A-B) 1000 / 25

A = Avg. ml AgNO3 used for stock soln.
B = ml AgNO3 used for blank ____ ml
25 = mls of stock soln. used

	Stock I	Sock II
ml AgNO3		
"		
"		
(A) Avg. ml		
mg CN/L		

Acceptance Limits: 995 - 1005 mg/L

Standardization Date: 11-13-96
Page: 101

RFW 21-21G-1555\C-10/96

Cyanide

Page: 108
Book #: 2189
Prep Batch: 96GCN309
Filename: GCN309

Instrument: SK1001
Conditions: wavelength = 578.0 nm
path length = 1.0 cm

	Sample ID	*	Test Code	Sample Size (mls or g)	Analytical Dilution	Absorbance	% Solids	Result ug/L or mg/kg	% Rec RPD
ICV	(100 ug/L) Time: 13:19					0.194		104.340	104.3
ICB	(<10 ug/L) Time: ↓					-0.000		0.602	<10
1	96GCN309-MB1	-	ICB-TO	1.10	1	0.003	100.0	0.098	<10
2	↓ -LCS		5	1.03	50	0.198	100.0	251.988	83.4
3	SMR			Duals	1	0.389	—	203.287	101.7%
4	96116613-001 B			1.21		0.001	87.1	0.053	
5	-002 B			1.02		0.000	94.5	0.031	
6	-003 B			1.26		0.000	90.6	0.026	
7	-003 B		R	1.13		0.003		0.106	NC
8	-003B		S	1.03	2	0.496		27.772	103.7%
9	675.001			1.18	1	0.003	69.7	0.132	
10	-001		R	1.14		0.001		0.071	NC
CCV	(200 ug/L) Time: 13:23					0.395		206.515	103.3
CCB	(<10 ug/L) Time: ↓					0.000		0.602	<10
11	96116675.001	-	ICB-TO 5	1.17	2	0.490	69.7	31.397	102.4%
12	-002			1.16	1	0.001	77.6	0.062	
13	-003			1.22		0.000	96.0	0.026	
14	-004			1.26		0.051	53.6	2.013	
15	-005			1.00		0.003	71.6	0.151	
16	-006			1.51		0.016	75.9	0.390	
17	-007			1.53		0.000	92.4	0.021	
18	-008			1.50		0.028	53.4	0.949	
19									
20									
CCV	(200 ug/L) Time: 13:26					0.393		205.472	102.7%
CCB	(<10 ug/L) Time: ↓					-0.000		0.602	<10
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
CCV	(____ ug/L) Time:								
CCB	(<____ ug/L) Time:								

* Interference Check Column: + indicates that samples were treated for interferences - indicates that no treatment for interferences was required

Preparation Signature: [signature] Date: 11-30-96

Analyst Signature: [signature] Date: 11-30-96

Reviewer Signature: [signature] Date: 12/10/96

Prep Batch:

966CN309

Analyst Signature:

Date: 11-30-96

Test: ICNTO

Curve 13:17

ID# 3 0 CN
578.0NM .000 A

ID# 4 10 CN
578.0NM .018 A

ID# 5 20 CN
578.0NM .038 A

ID# 6 40 CN
578.0NM .076 A

ID# 7 100 CN
578.0NM .186 A

ID# 8 200 CN
578.0NM .385 A

ID# 9 400 CN
578.0NM .766 A

966CN309 13:19

ID# 10 ICV1 CN
578.0NM .199 A

ID# 11 ICB1 CN
578.0NM -.000 A

966CN309

ID# 12 MB1 CN
578.0NM 1.10 .003 A

ID# 13 LCS CN 1/50
578.0NM 1.03 .198 A

ID# 14 MRS CN
578.0NM .389 A

9611G613-001B

ID# 15 CN
578.0NM 1.21 .001 A

-002B 11-30-96

ID# 16 CN
578.0NM 1.02 .000 A

578.0NM 1.24 .000 A

ID# 18 -003 B R CN
578.0NM 1.13 .003 A

ID# 19 -003 B MS CN (1/2)
578.0NM 1.03 .496 A

9611G675-001
ID# 20 CN
578.0NM 1.18 .003 A

ID# 21 -001 R CN
578.0NM 1.14 .001 A

9611CN301 13:23
ID# 22 CCV1 CN
578.0NM .395 A

ID# 23 CCB1 CN
578.0NM .000 A

1.30 46 BDW
~~9666~~ 9611G675-001 MS
ID# 24 CN 1.17 (1/2)
578.0NM .490 A

ID# 25 -002 CN
578.0NM 1.16 .001 A

ID# 26 -003 CN
578.0NM 1.22 .000 A

ID# 27 -004 CN
578.0NM 1.26 .051 A

ID# 28 -005 CN
578.0NM 1.00 .003 A

ID# 29 -006 CN
578.0NM 1.51 .016 A

ID# 30 -007 CN
578.0NM 1.53 .000 A

ID# 31 -008 CN
578.0NM 1.50 .028 A

9611CN309 13:26
ID# 32 CCV2 CN
578.0NM .393 A

ID# 33 CCB2 CN
578.0NM -.000 A

WESTON
MANAGERS DESIGNERS/CONSULTANTS

DIGESTION INFORMATION

Weston Environmental Metrics, Inc.
Final Concentrations for Intermediate Standards
Metals Department

Intermediate Name	Elements	Final Concentration Standard	Final Concentration ILM03.0	Units
ICP Spike Solution	Ca, Mg, K, Na	1000	1000	ug/mL
	Al, Ba, As, Se, Tl	200	200	ug/mL
	Fe, B, Sr, Mo, Sn, Ti	100	100	ug/mL
	Co, Pb, Mn, Ni, V, Zn, Sb, Li	50	50	ug/mL
	Si	500	500	ug/mL
	Cr	20	20	ug/mL
	Cu	25	25	ug/mL
	Be, Cd, Ag	5.0	5.0	ug/mL
GFAA Predigestion Solution	As	4.0	4.0	ug/mL
	Pb	2.0	2.0	ug/mL
	Se	1.0	1.0	ug/mL
	Tl	5.0	5.0	ug/mL
	Cd	0.5	0.5	ug/mL
	Ag	2.0	2.0	ug/mL
	Cr	2.0	2.0	ug/mL
	Cu	2.0	2.0	ug/mL
ICP - ICV/CCV	Al, Ca, Mg, K, Na	50	40	ug/mL
	Fe	25	20	ug/mL
	Ba, Tl	10	8	ug/mL
	B, Cr, Cu, Co, Pb, Mn, Mo, Ni, Sr, Si, Sn, V, Zn, Ti, As, Se, Li	5.0	4.0	ug/mL
	Be, Cd	2.5	2.0	ug/mL
	Ag, Sb	1.0	0.8	ug/mL
ICP - CRI	Ca, Mg, K, Na	2.0	2.0	ug/mL
	Ba, Tl, Al	0.40	0.40	ug/mL
	B, Fe, Mo, Sr, Sn, Si, Ti, As, Se, Li	0.20	0.20	ug/mL
	Sb	0.12	0.12	ug/mL
	Co, Pb, V	0.10	0.10	ug/mL
	Ni	0.08	0.08	ug/mL
	Cu	0.05	0.05	ug/mL
	Mn	0.03	0.03	ug/mL
	Cr, Ag	0.02	0.02	ug/mL
	Cd, Be	0.01	0.01	ug/mL
	Zn	0.04	0.04	ug/mL
ICP - ISA	Al, Ca, Mg	500	500	ug/mL
	Fe	200	200	ug/mL
ICP - ISB	Al, Ca, Mg	500	500	ug/mL
	Fe	200	200	ug/mL
	As, Se	5.0	5.0	ug/mL
	Cd, Pb, Ag, Ni, Zn	1.0	1.0	ug/mL
	Ba, Be, Cr, Co, Cu, Mn, V,	0.5	0.5	ug/mL

Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

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Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Be 1,000 PPM	IV	K-BE01062	827	1/18/96	1/18/97	1/18/96	BH P20118C	YES
B 1,000 PPM		K-B01106	828					
Cd 1,000 PPM		K-CD01090	829					
Ca 10,000 PPM		K-CA01093	830			1/19/96	BH P20119A	
Cr 1,000 PPM		K-CR02042	831			1/18/96	BH P20118C	
Co 1,000 PPM		K-CO01084	832					
Cu 1,000 PPM		K-CU02016	833					
Fe 10,000 PPM		K-FE02082	834					
Pb 1,000 PPM		K-PB02074	835					
Li 1,000 PPM		K-LI01096	836					
Mg 10,000 PPM		K-MG02082	837					
Mn 1,000 PPM		K-MN02005	838					
Mo 1,000 PPM		K-MO01101	839					
Ni 1,000 PPM		K-NI01111	840					
K 1,000 PPM		K-QK01015	841					
Se 1,000 PPM		K-SE01073	842					
Ag 1,000 PPM		K-AG01105	843					
Na 1,000 PPM		K-NA02062	844					
Sr 1,000 PPM		K-SR01089	845					
Tl 1,000 PPM		K-TL01057	846			1/19/96	BH P20119A	
Sn 1,000 PPM		K-SN01074	847					
Ti 1,000 PPM		K-TI01117	848					
V 1,000 PPM		K-VO01018	849					
Zn 1,000 PPM		K-ZN01108	850			1/18/96	BH P20118C	
WGC-SPK-2A	Inorg. Ventures	L-MEB54041	851	2-1-96	2-1-97	2/9/96	BH P20209B	
WGC-SPK-2C		L-MEB54044	852					
ICP 200-7	HP/ENV. ERP	591036	853	3/12/96	4/1/97	4/15/96	BH P20415B/P20416A	YES
ICP 200-19		591030	854			4/15/96	BH	
Sc 1,000 PPM	K-SC02011	IV	855	3/19/96	3/19/97	3/21/96	BH P20321B	YES
Y 1,000 PPM	K-YO1058		856					
P 10,000 PPM	K-PO1088		857					
Y 1,000 PPM	L-YO1061	IV	858	3/25/96	3/25/97	4/9/96		YES
Sc 1,000 PPM	L-SC020A		859			4/9/96	BH P20409A	

Reviewer Signature: John L Wojak Date: 4/8/96

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
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Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
K 10,000 PPM	IV	K-K02050	860	3/27/96	3/27/97	4/15/96	BH P20415B	YES
Na 10,000 PPM		K-NA02042	861			4/16/96	BH P20416A	
WEMI-CCV-1	IV	L-MEB54041	862	4/9/96	4/3/97	4/30/96	BH P20430B	YES
WEMI-CCV-2		L-MEB54042	863				BH P20430C	YES
IV Ba 10,000	IV	K-BA01104	864	4/9/96	4/9/97	4/9/96	BH P20409BA	YES
WGC-spike C	IV	L-MEB54035	865	4/9/96	4/9/97	4/9/96	BH P20409BA	YES
HP1224-500-A	HP	690408	866	4/11/96	4/11/97	4/29/96	BH P20429B (MCR)	YES
B			867			BAD BATCH	NOT USED	
C			868			4/15/96	BH P20415B	
D			869		4/16/96	NOT USED; REPLACED BY #879 & 880		
Al 10,000 PPM		690206	870			4/16/96	BH P20416A	
Ca 10,000 PPM		690119	871			4/15/96	BH P20415B	
CRI-CRA-1	IV	K-MEB25095	872	4/15/96	4/15/97	4/15/96	BH P20415C	YES
CRI-CRA-2		K-MEB25073	873					
CRI-CRA-3		K-CICP04024	874					
CLP-ICS-A	IV	L-MEB25118	875	4/24/96	4/24/97			YES
CLP-ICS-A			876					
CLP-ICS-B4		K-MEB25107	877					
WEMI-CCV-2A	IV	L-MEB54102	878	4/29/96	4/29/97	4/30/96	BH P20430C	YES
HP 1238-A-500	HP	690413	879	4/30/96	4/30/97			YES
HP 1238-A-500 BLANK			880					
HP 1224-500-B		690415	881					
HP 1224-500-B BLANK			882					
CLP-60	IV	L-MEB55017	883	5/9/96	5/9/97	5/10/96	BH P20510A	YES
WEM-SPK-2	IV	L-MEB54150	884	5/10/96	5/10/97	6/14/96	BH P20614D	YES
Phosphorus 10,000 PPM		K-PO1088	885					
Selenium 1000 PPM	IV	K-SC02011	886	6/7/96	7/1/97	7/19/96	BH P20719B	YES
			887			7/18/96	BH P20718B	
			888					
			889					
			890			3/6/96	BH P20306B	
Ag 1,000 PPM	IV	K-AG01110	891	6/21/96	6/21/97	2/27/96	BH P20227B	YES
Al 10,000 PPM		K-AL03012	892			3/7/96	BH P20307B	

Reviewer Signature: John L Wojak Date: 7/9/96

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

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Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Ag 1,000 PPM	IV	K-AG01109	893	6/21/96	6/21/97	7/2/96	BH P207C8	YES
B 1,000 PPM		K-B01108	894					
Ba 1,000 PPM		L-BA01015	895					
Be 1,000 PPM		L-BE01017	896					
Ca 10,000 PPM		K-CA02067	897					
Cd 1,000 PPM		L-CD01014	898					
Co 1,000 PPM		L-CO01014	899					
Cr 1,000 PPM		K-CR02068	900					
Cu 1,000 PPM		L-CU01022	901					
Fe 10,000 PPM		K-FE02095	902					
K 10,000 PPM		K-K02050	903					
Li 1,000 PPM		L-LI02001	904					
Mg 10,000 PPM		K-MG02083	905					
Mn 1,000 PPM		L-MN02013	906					
Mo 1,000 PPM		K-MO01102	907					
Na 10,000 PPM		L-NA02070	908					
Ni 1,000 PPM		K-NI01112	909					
P 1,000 PPM		K-P01090	910					
Pb 1,000 PPM		L-PB02077	911					
Sb 1,000 PPM		K-SB02058	912					
Se 1,000 PPM		L-SE01015	913					
Si 1,000 PPM		L-SI02024	914			7/10/96	BH P207BC	
Sn 1,000 PPM		K-SN01021	915			7/2/96	BH P207C2	
Sr 1,000 PPM		L-SR01108	916					
Ti 1,000 PPM		L-TI01016	917					
Tl 1,000 PPM		L-TL01014	918					
V 1,000 PPM		K-V02010	919					
WGC-CRI-1		L-MEB5[illegible]05	920	6/22/96	6/22/97	6/24/96	[illegible] P0094A	
WGC-CRI-2		L-MEB5[illegible]06	921					
Zn 1,000 PPM	IV	K-ZN01109	922	7/8/96	8/1/97	7/9/96	BH P207C9	YES
Hg 1,000 PPM	IV	K-HG01126	923	7/12/96	7/8/97	7/12/96	[illegible] 96H4363	YES
Ag 10,000 PPM	IV	L-AG01014	924	8/2/96	8/2/97	8/2/96	BH P208[illegible]B	YES
WGC-SIRE-C	IV	L-MEB57130	925	8/15/96	8/15/97		BH P208[illegible]B	YES

Reviewer Signature: [signature] Date: 8/21/96

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

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Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Si 1000 PPM	HP	690508	926	8/14/96	8/14/97	9/5/96	P209050 BH	YES
Ti 1000 PPM		690712	927			9/4/96	P20904A BH	
Tl 1000 PPM			928			9/5/96	P209050 BH	
K 10,000 PPM	HP	690708	929	8/21/96	8/21/97	9/4/96	P20904A BH	YES
Na 10,000 PPM		690713	930					
Ag 1,000 PPM		690724	931					
Cd 1,000 PPM		690720	932					
Li 1,000 PPM		690614	933					
Mn 1,000 PPM		690627	934					
Mo 1,000 PPM		690627	935					
P 1,000 PPM		690708	936					
Sn 1,000 PPM		690718	937			9/4/96	P20904A BH	
Ti 1,000 PPM		690701	938					
V 1,000 PPM	[illegible]	690702	939					
MCS-01-5	ACCU STD	085-707	940					
MCS-02-5		085-708	941					
MCS-03R-5		045-713	942					
MCS-04R-5		045-715	943					
MCS-05R-5		045-715	944					
MCS-06-5		045-719	945					
Sb 1,000 PPM	HP	690501	946	9/23/96	8/23/97			YES
ICS SW-1		690606	947			9/5/96	P209050 BH	
ICS SW-2		690619	948					
ICSSW-3		690619	949			9/5/96	P209050 BH	
ICSSW-4		690619	950					
ICS SW-5		690619	951			9/5/96	P209050 BH	
WGC-CAL-1D	IV	L-MEB66016	952	8/27/96	9/1/97	9/4/96	P20904A BH	YES
WGC-CAL-1C		L-MEB66015	953					
CGSC1-5	IV	L-SC02020	954	9/3/96	9/1/97			YES
CGSC1-5	IV	L-SC02020	955					
Ca 10,000 P.P.M.	IV	L-CA02070	956	9/8/96	9/9/97			YES
Fe 10,000 P.P.M.		K-FE02095	957					
Cr 1000 P.P.M.		690822	958	9/11/96	9/11/97			YES

Reviewer Signature: [signature] Date: 9/13/96

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Fe 10,000 PPM	H.P	690717	959	9/11/96	9/11/97			YES
CLPP-ICS-A	I.V	L-MEB25147	960	9/17/96	9/17/97	9/26/96	BH/ P20926A	
			961					
			962					
			963					
CLPP-ICS-B		L-MEB25133	964					
			965					
CLPP-ICS-B4		L-CICP05024	966					
			967					
			968					
			969					
WGC-FCAL-1		L-MEB60065	970			9/26/96	BH/ P20926A	
Sb 1000 PPM		K-SB02038	971					
HP 1042-A-500	HP	690909	972	9/19/96	9/19/97			YES
HP 1027-A-500		690910	973			9/26/96	BH / P20926A	
HP 1027-B-500 AlBN		690910	974					
HP 1027-B-500 SbSn		690910	975					
HP-1027-D-500		690909	976					
[illegible] 1027-E-500		690909	977					
[illegible] 1,000 PPM		690529	978					
Tl 1,000 PPM		690529	979					
Si 1,000 PPM		690508	980			9/26/96	BH P20926D	
Hg 1000 ppm	High Purity	690826	981	9/30/96	9/30/97	9/30/96	PFX 96649521	YES
WGC-SPK-2A	I.V	L-MEB61092	982	10/11/96	10/11/97	10/22/96	BH P21022B	YES
WGC-SPK-2C		L-MEB 61093	983					
Sc 1000 PPM	I.V.	L-SC02020	984	11/5/96	11/1/97	11/5/96	BH P21105B	YES
CCV SOLUTION A	H.P.	#690530	985	11/18/96	11/18/97			YES
CCV SOLUTION A1		#691113	986					
CCV SOLUTION B		#691112	987					
RFW-ICPT-STD-1B	I.V.	L-MEB62123	988	11/18/96	11/18/97			YES
RFW-ICPT-STD-1C		L-MEB62124	989					
RFW-ICPT-STD-1D		L-MEB62125	990					
RFW-ICPT-STD-2A		L-MEB 62126	991					

Reviewer Signature: Jodi L Wojcik Date: 12-9-96

Form I

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 16

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 daily cal. stds.	8/26/96	776, 778, 779, 781, 797, 798 780 = 2x	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hamende	8/27/96
2.	Sb daily stds	8/27/96	2100-12-5	.3, 1.0, 3.0, 4.0, 5.0, 7.0, 10.0	100 mls	2% HNO_3	.3, 10, 30, 40, 50, 70 100 ppb	Debbie Kelly	8/28/96
3.	Sb daily QC	8/27/96	2100-12-6	2.5 ml 3.5 ml	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	8/28/96
4.	IC2 daily cal. std's	8/27/96	776, 778, 779, 781, 797, 798 780 = 2x	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hamende	8/28/96
5.	GFAA daily stds	8/27/96	2100-6-7	*	100 mls	2% HNO_3	*	Debbie Kelly	8/28/96
6.	Glaa daily QC	8/27/96	2100-6-8	2.5 ml 3.5 ml	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	8/28/96
7.	GFAA daily Stds	8/28/96	2100-~~6~~ 14-7	*	100 mls	2% HNO_3	*	Debbie Kelly	8/29/96
8.	GFAA daily QC	8/28/96	2100-~~6~~ 14-8	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	8/29/96

Reviewer Signature: Jude L Hogan Date: 8/29/96
*Refer to Table I

RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Sb daily Stds	8/28/96	2100-12-5	.3, 1.0, 3.0, 4.0, 5.0, 7.0, 10.0	100 mls each	2% HNO_3	3, 10, 30 40, 50 70, 100 ppb	Debbie Kelly	8/29/96
2.	Sb daily QC	8/28/96	2100-12-6	2.5 mls 3.5 mls	100 mls each	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	8/29/96
3.	IC2 CCV	8/28/96	#783 + 784 #805 #890 (ON TOP)	10 mls 5 mls 10 mls	1 l	1% HNO_3 5% HCl	*	B Hamende	~~8~~ 9/7/96 BH 8/28/96
4.	IC2 CRI	8/28/96	#920 + 921 #890 (ON TOP)	10 mls 10 mls	1 l	1% HNO_3 5% HCl	*	B Hamende	7/1/97
5.	IC2 ISA	8/28/96	#875 #890 (ON TOP)	100 mls 10 mls	1 l	1% HNO_3 5% HCl	*	B Hamende	4/24/97
6.	IC2 daily cal. std's	8/28/96	776, 778, 779, 781, 797, 798 780 = 2x	S3 = 1 ml S2 = 500 ul S1 = 200 ul	1 l	1% HNO_3 5% HCl	*	B Hamende	8/29/96
7.	GFAA DAILY STDS	8/29/96	2100-16-7	*	100 mls	2% HNO_3	*	[illegible]	8/30/96
8.	GFAA DAILY QC	8/29/96	2100-14-8	2.5 mls 3.5 mls	100 ml	2% HNO_3	25.00 ppb 35.00	[illegible]	8/30/96

Reviewer Signature: Jude L Hogan Date: 9/9/97
*Refer to Table I

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RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA daily std	9/5/96	2100-14-7	*	100 mls	2% HNO_3	*	Debbie Kelly	9/6/96
2.	GFAA daily QC	9/5/96	2100-14-8	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	9/6/96
3.	Sb spike solu for GFAA	9-5-96	#874	500 µl	100 ml	2% HNO_3	5ppm	[illegible]	1-18-97
4.	ICP daily cal std's	9/5/96	776,778,779,781, 797,798 780 = 2x ↗	S3 = 1ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hernandez	9/6/96
5.	ICP daily cal. std's.	9/6/96	776,778,779,781, 797,798 780 = 2x ↗	S3 = 1ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hernandez	9/7/96
6.	ICP std. ICV + CCV	9/6/96	952 + 953 892 954 ON TOP	10 mls 5 mls 10 mls	1 l	1% HNO_3 5% HCl	*	B Hernandez	7/1/97
7.	ICP ~~std~~ CLP ICV	9/6/96	952 + 953 892 954 (ON TOP)	8 mls 4 mls 10 mls	1 l	1% HNO_3 5% HCl	*	B Hernandez	7/1/97
8.	GFAA daily std	9/6/96	2100-14-7	*	100 ml	2% HNO_3	*	Eileen Dunk	9/7/96

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Date: 9/9/96

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA daily QC	9/6/96	2100-14-8 ED 9/6/96	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	9/7/96
2.	GFAA daily std	9/9/96	2100-14-7	*	100 ml	2% HNO_3	*	Eileen Dunk	9/10/96
3.	GFAA daily QC	9/9/96	2100-14-8	ED 9/9/96 2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	9/10/96
4.	ICP daily cal std's	9/9/96	776,778,779,781, 797,798 780 = 2x ↗	S3 = 1ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hernandez	9/10/96
5.	ICP daily cal. std's	9/10/96	776,778,779,781, 797,798 780 = 2x ↗	S3 = 1ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B Hernandez	9/11/96
6.	GFAA daily std	9/10/96	& 2100-14-7 ED 9/10/96	*	100 ml	2% HNO_3	*	Eileen Dunk	9/11/96
7.	GFAA daily QC	9/10/96	2100-14-8	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	9/11/96
8.	GFAA daily std	9/11/96	2100-14-7	*	100 mls	2% HNO_3	*	Debbie Kelly	9/12/96

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*Refer to Table I

Date: 9/23/96

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA DAILY STD	9/27/96	2100-23-6	*	100 mls	2% HNO_3	*	[signature]	9/28/96
2.	GFAA DAILY QC	9/27/96	2100-23-7	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.00 ppb 35.00 ↓	[signature]	9/28/96
3.	GFAA DAILY STD	9/30/96	2100-23-6	*	100 mls	2% HNO_3	*	[signature]	10/1/96
4.	GFAA DAILY QC	9/30/96	2100-23-7	2.50 mls 3.50 ↓	100 mls	2% HNO_3	25.00 ppb 35.00 ↓	[signature]	10/1/96
5.	IC2 daily cal std's	9/30/96	973, 974, 975, 976, 977 978 = 2X →	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/1/96
6.	GFAA DAILY STD	10/1/96	2100-23-6 *	*	100 mls	2% HNO_3	*	[signature]	10/2/96
7.	GFAA DAILY QC	10/1/96	2100-23-7	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.00 ppb 35.00 ↓	[signature]	10/2/96
8.	IC2 daily cal. std's	10/1/96	973, 974, 975, 976, 977 978 = 2X →	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/2/96

Reviewer Signature: Jodi L Wojcik Date: 10/4/96
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 daily cal. std. for (Si) only	10/1/96	#926	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/2/96
2.	GFAA Pre-digestion Spike	10-1-96	#883 #843, 900, 901	10 ml 2 ml	1000 ml	2% IPHNO3	* 2 ppm	[signature]	1-18-97
3.	ICP-Pre Digestion Spike	10-1-96	#851 852	20 ml 20 ml	200 ml	4% IPHNO3	* ↓	[signature]	2-1-97
4.	GFAA daily Std	10/2/96	2100-23-6	*	100 ml	2% HNO_3	*	Eileen Dunk	10/3/96
5.	GFAA daily QC	10/2/96	2100-23-7	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	10/3/96
6.	IC2 daily cal. std's	10/2/96	973, 974, 975, 976, 977 978 = 2X →	S3 = 1 ml S2 = 500 ul S1 = 200 ul	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/3/96
7.	IC2 CCV	10/3/96	951 953 892 954	10 MLS EACH 5 MLS 10 MLS OUTD	1 L	1% HNO_3 5% HCl	*	Douglas Hall	9/1/97
8.	IC2 DAILY cal STDS	10/3/96	973, 974, 975, 976 977 978 - 2X →	S3 = 1 ML S2 = 0.5 ML S1 = 0.2 ML	100 mls	10% HNO_3 5% HCl	*	Douglas Hall	10/4/96

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA daily QC	10/14/96	2100-31-4	2.5 ppb 3.5 ppb	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	10/15/96
2.	IC2 ISB	10/14/96	960 964 825,842	10 mls 10 mls 5 mls	1 l	1% HNO_3 5% HCl	*	B. Hamende	1/16/97
3.	~~IC2~~ Cd DAILY QC	10/14/96	2100-30-8	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.0 ppb 35.0 ↓	[illegible]	10/15/96
4.	Sb DAILY STD	10/14/96	2100-29-8	0.3, 1.0, 3.0 4.0, 5.0, 7.0 10.0 mls	100 mls	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	[illegible]	10/15/96
5.	Sb DAILY QC	10/14/96	2100-30-1	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.0 ppb 35.0 ↓	[illegible]	10/15/96
6.	IC2 daily cal. std.'s	10/15/96	973, 974, 975, 976, 977 978 = 2x ↗	S3 = 1.0 mls S2 = 0.5 mls S1 = 0.2 mls	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/16/96
7.	GFAA daily Std	10/15/96	2100-31-3	*	100 ml	2% HNO_3	*	Eileen Dunk	10/16/96
8.	GFAA daily QC	10/15/96	2100-31-4	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	10/16/96

Reviewer Signature: Jodi L Wojcik Date: 10-17-96
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 daily cal. std.'s	10/16/96	973, 974, 975, 976, 977 978 = 2x ↗	S3 = 1.0 mls S2 = 0.5 mls S1 = 0.2 mls	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/17/96
2.	GFAA daily std	10/16/96	2100-31-3	*	100 mls	2% HNO_3	*	Debbie Kelly	10/17/96
3.	GFAA daily QC	10/16/96	2100-31-4	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	10/17/96
4.	GFAA daily Std	10/17/96	2100-31-3	*	100 ml	2% HNO_3	*	Eileen Dunk	10/18/96
5.	GFAA daily QC	10/17/96	2100-31-4	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	10/18/96
6.	Sb daily Std	10/17/96	2100-29-8	0.3, 1.0, 3.0 4.0, 5.0, 7.0 10.0 mls	100 mls	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	Debbie Kelly	10/18/96
7.	Sb daily QC	10/17/96	2100-30-1	2.5 mls 3.5 mls	100 mls	2% HNO_3	25 ppb 35 ppb	Debbie Kelly	10/18/96
8.	IC2 CM STDS	10/17/96	952 953 892 955	10 MLS 5 MLS 10 MLS ONTO	100 mls	1% HNO_3 5% HCl	X	[illegible]	7/1/97

Reviewer Signature: Jodi L Wojcik Date: 10-18-96
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA daily std	10/18/96	2100-31-3	*	100 mls	2% HNO_3	*	Debbie Kelly	10/19/96
2.	GFAA daily QC	10/18/96	2100-31-4	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	10/19/96
3.	IC2 daily cal. std.'s	10/20/96	973,974,975,976, 977 978 = 2x →	S3 = 1.0 mls S2 = 0.5 mls S1 = 0.2 mls	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/21/96
4.	IC2 daily cal. std.'s	10/21/96	973,974,975,976, 977 978 = 2x →	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/22/96
5.	GFAA daily stds	10/21/96	2100-31-3	*	100 mls	2% HNO_3	*	Debbie Kelly	10/22/96
6.	GFAA daily QC	10/21/96	2100-31-4	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	10/22/96
7.	Sb daily stds	10/21/96	2100-29-8	0.3, 1.0, 3.0 4.0, 5.0, 7.0 10.0 mls	100 mls each	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	Debbie Kelly	10/22/96
8.	Sb daily QC	10/21/96	2100-30-1	2.5 mls 3.5 ↓ 10/21/96	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	10/22/96

Reviewer Signature: [signature] Date: 10/29/96
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 daily cal. std.'s	10/22/96	973,974,975,976, 977 978 = 2x →	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/23/96
2.	GFAA daily std	10/22/96	~~21-31-2~~ 2100-31-3 SD 10/22/96	*	100 ml	2% HNO_3	*	Eileen Dunk	10/23/96
3.	GFAA daily QC	10/22/96	2100-31-4	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen Dunk	10/23/96
4.	ICP Pre-Digestion Spike	10-22-96	#982 983	100 ml 100 ml	1000 ml	4% HNO_3	* *	[signature]	11-1-97
5.	ICP daily cal. std.'s	10/23/96	973,974,975,976, 977 (#926 separate) 978 = 2x →	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	B. Hamende	10/24/96
6.	GFAA DAILY STD	10/23/96	2100-31-3	*	100 mls	2% HNO_3	*	[signature]	10/24/96
7.	GFAA DAILY QC	10/23/96	2100-31-4	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25, 35 ppb ~~25 mls~~ ~~35 mls~~ 10/23/96	[signature]	10/24/96
8.	Sb DAILY STD	10/23/96	2100-29-8	0.3, 1.0, 3.0 4.0, 5.0, 7.0 10.0 mls	100 mls	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	[signature]	10/24/96

Reviewer Signature: [signature] Date: 10/29/96
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Sb DAILY STD	11/5/96	2100-29-8	0.3, 1.0, 2.0 4.0, 5.0, 7.0 10.0 ml	100 ml	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	[illegible]	11/6/96
2.	Sb DAILY QC	11/5/96	2100-30-1	2.5 ml 3.5 ↓	100 ml	2% HNO_3	25 ppb 35 ↓	[illegible]	11/6/96
3.	GFAA Daily Std	11/6/96	2100037-5	*	100 ml	2% HNO_3	*	Eileen [illegible]	11/7/96
4.	GFAA Daily QC	11/6/96	2100037-6	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen [illegible]	11/7/96
5.	ICP daily cal. std. 's	11/6/96	973, 974, 975, 976, 977 978 = 2X ↗	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 ml each	12 HNO_3 5% HCl	*	B. Fernandez	11/7/96
6.	Sb DAILY STD	11/6/96	2100-29-8	0.3, 1.0, 2.0 4.0, 5.0, 7.0 10.0 ml	100 ml	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	[illegible]	11/7/96
7.	Sb DAILY QC	11/6/96	2100-30-1	2.5 ml 3.5 ↓	100 ml	2% HNO_3	25 ppb 35 ↓	[illegible]	11/9/96
8.	GFAA daily Std	11/7/96	2100-37-5	*	100 ml	2% HNO_3	*	Eileen [illegible]	11/8/96

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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA daily QC	11/7/96	2100-37-6	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen [illegible]	11/8/96
2.	ICP DAILY CAL STDS	11/7/96	973, 974, 975, 976 977 978 - 2X ↗	S3 = 1.0 ml S2 = 0.5 S1 = 0.2 ↓	100 ml's each	12% HNO_3 5% HCl	*	Douglas [illegible]	11/8/96
3.	ICP - ISA	11/8/96	960 955 (ON TOP)	100 mls 10 mls	1 l	12 HNO_3 5% HCl	*	B. Fernandez	11/1/97
4.	ICP daily cal. std's	11/11/96	973, 974, 975, 976, 977, 978 = 2X ↗	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	12 HNO_3 5% HCl	*	B. Fernandez	11/12/96
5.	GFAA daily Std	11/11/96	2100-37-5	*	100 ml	2% HNO_3	*	Eileen [illegible]	11/12/96
6.	GFAA daily QC	11/11/96	2100-37-6	2.5 ml 3.5 ml	100 ml	2% HNO_3	25.00 ppb 35.00 ppb	Eileen [illegible]	11/12/96
7.	Hg QC Intermediate	11/11/96	923	0.2 mls	1000 mls	0.5% HNO_3	200 ppb	Paul T. [illegible]	11/12/96
8.	Hg STD Interm	11/11/96	981	0.1 mls	1000 mls	0.5% HNO_3	100 ppb	Paul T. [illegible]	11/12/96

Reviewer Signature: Jodi L Wojcik
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Hg Int + STD	11/21/96	991	100 ml	1 L	0.5% HNO3	100 ppb	[illegible]	11/22/96
2.	Hg Int QC	11/21/96	923	100 ml	1 L	0.5% HNO3	100 ppb	[illegible]	11/22/96
3.	GFAA DAILY STD	11/21/96	2100-37-5 (3) 11/22/96	*	100 ml	2% HNO3	*	[illegible]	11/22/96
4.	GFAA DAILY QC	11/21/96	2100-37-6	2.5 ml / 3.5	100 ml	2% HNO3	25 ppb / 35	[illegible]	11/22/96
5.	GFAA Sb DAILY STD	11/21/96	2100-42-1	0.3, 1.0, 3.0, 4.0, 6.0, 7.0, 10.0 ml	100 ml	2% HNO3	3, 10, 30, 40, 60, 70, 100 ppb	[illegible]	11/22/96
6.	SB DAILY QC	11/21/96	2100-42-2	2.5 ml / 3.5	100 ml	2% HNO3	25 ppb / 35	[illegible]	11/22/96
7.	GFAA INT. STD	11/22/96	#972	5.0 ml	500 ml	2% HNO3	1 ppm *	[illegible]	12/22/96
8.	GFAA INT. QC	11/22/96	#970	5.0 ml	500 ml	2% HNO3	1 ppm *	[illegible]	12/22/96

Reviewer Signature: [illegible]
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	SB DAILY STD	11/22/96	2100-42-1	0.3, 1.0, 3.0, 4.0, 6.0, 7.0, 10.0 ml	100 ml	2% HNO3	3, 10, 30, 40, 60, 70, 100 ppb	[illegible]	11/23/96
2.	SB DAILY QC	11/22/96	2100-42-2	2.5 ml / 3.5	100 ml	2% HNO3	25 ppb / 35	[illegible]	11/23/96
3.	ICP daily cal. std's	11/22/96	973, 974, 975, 976, 977, 978 = 2x	S3 = 1.0 ml, S2 = 0.5 ml, S1 = 0.2 ml	100 ml each	1% HNO3, 5% HCl	*	B. Fernandez	11/23/96
4.	ICP daily cal. std's	11/25/96	973, 974, 975, 976, 977, 978 = 2x	S3 = 1.0 ml, S2 = 0.5 ml, S1 = 0.2 ml	100 ml each	1% HNO3, 5% HCl	*	B. Fernandez	11/26/96
5.	GFAA DAILY STD	11/25/96	2100-42-7	*	100 ml	2% HNO3	*	[illegible]	11/26/96
6.	GFAA DAILY QC	11/25/96	2100-42-8	2.5 ml / 3.5	100 ml	2% HNO3	25.0 ppb / 35.0	[illegible]	11/26/96
7.	Sb DAILY STD	11/25/96	2100-42-1	0.3, 1.0, 3.0, 4.0, 6.0, 7.0, 10.0 ml	100 ml	2% HNO3	3, 10, 30, 40, 60, 70, 100 ppb	[illegible]	11/26/96
8.	Sb DAILY QC	11/25/96	2100-42-2	2.5 ml / 3.5	100 ml	2% HNO3	25.0 ppb / 350	[illegible]	11/26/96

Reviewer Signature: [illegible]
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	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Hg Int STD	11/25/96	981	100 ml	1 L	0.5% HNO_3	100 ppb	Paul Kolmogorov	11/26/96
2.	Hg Int QC	11/25/96	923	200 ml	1 L	0.5% HNO_3	200 ppb	Paul Kolmogorov	11/26/96
3.	ICZ daily cal. std.'s	11/26/96	973, 974, 975, 976, 977, 978 = 2X →	S3 = 1.0 ml, S2 = 0.5 ml, S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	[illegible]	11/27/96
4.	Hg Int STD	11/26/96	981	100 ml	1 L	0.5% HNO_3	100 ppb	Paul Kolmogorov	11/27/96
5.	Hg Int QC	11/26/96	923	200 ml	1 L	0.5% HNO_3	200 ppb	Paul Kolmogorov	11/27/96
6.	GFAA DAILY STD	11/26/96	2100-48-7	~~100~~ * 11/26/96	100 mls	2% HNO_3	*	[illegible]	11/27/96
7.	GFAA DAILY QC	11/28/96	2100-48-8	2.5 mls 3.5 L	100 mls	2% HNO_3	25.0 ppb 35.0 L	[illegible]	11/27/96
8.	Cd DAILY QC	11/26/96	2100-42-6	2.5 mls 3.5 L	100 mls	2% HNO_3	25.0 ppb 35.0 L	[illegible]	11/27/96

Reviewer Signature: Jodi L. Uojcik Date: 12/2/96
*Refer to Table I

RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 51

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	SD DAILY STD	11/26/96	2100-42-1	0.3, 1.0, 3.0, 4.0, 5.0, 7.0, 10.0 mls	100 mls	2% HNO_3	3, 10, 30, 40, 50, 70, 100 ppb	[illegible]	11/27/96
2.	SD DAILY QC	11/26/96	2100-42-2	2.5 mls 3.5 L	100 mls	2% HNO_3	25.0 ppb 35.0 L	[illegible]	11/27/96
3.	ICZ daily cal. std.'s	11/27/96	973, 974, 975, 976, 977, 978 = 2X →	S3 = 1.0 ml, S2 = 0.5 ml, S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	[illegible]	11/28/96
4.	GFAA DAILY STD	11/30/96	2100-48-7 *	*	100 mls	2% HNO_3	*	[illegible]	12/1/96 ~~11/31/96~~
5.	GFAA DAILY QC	11/30/96	2100-48-8	2.5 mls 3.5 L	100 mls	2% HNO_3	25.0 ppb 35.0 L	[illegible]	12/1/96 ~~11/31/96~~
6.	CCV for ICZ	12/2/96	952, 953, 892, 955 ON TOP	10 mls, 5 mls, 10 mls	~~100~~ BH 12/2/96 1 L	1% HNO_3 5% HCl	*	[illegible]	9/1/97
7.	ICZ daily cal. std.'s	12/2/96	973, 974, 975, 976, 977, 978 = 2X →	S3 = 1.0 ml, S2 = 0.5 ml, S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	[illegible]	12/3/96
8.	Hg Interm STD	12/2/96	981	100 ml	1 L	0.5% HNO_3	100 ppb	Paul Kolmogorov	12/3/96

Reviewer Signature: Jodi L. Uojcik Date: 12/4/96
*Refer to Table I

RFW 21-21G-15107/B-7/3/96

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Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 56

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Sb DAILY STD	12/11/96	2100-53-3	0.3, 1.0, 3.0 4.0, 5.0, 7.0 10.0 ml	100 ml	2% HNO_3	3, 10, 30 40, 50, 70 100 ppb	[signature]	12/12/96
2.	Sb DAILY QC	12/11/96	2100-53-4	2.5 ml 3.5 ↓	100 ml	2% HNO_3	25 ppb 35 ↓	[signature]	12/12/96
3.	Hg Int STD	12/11/96	981	100 ml	1 L	0.5% HNO_3	100 ppb	Paul Kolamk	12/12/96
4.	Hg Int QC	12/11/96	923	200 ml	1 L	0.5% HNO_3	200 ppb	Paul Kolamk	12/12/96
5.	GFAA daily stds	12/11/96	2100-48-7	*	100 mls	2% HNO_3	*	Debbie Kelly	12/12/96
6.	GFAA daily QC	12/11/96	2100-48-8	2.5 ml 3.5 ml	100 mls	2% HNO_3	25.00 ppb 35.00 ppb	Debbie Kelly	12/12/96
7.	Hg Int STD	12/12/96	981	100 ml	1 L	0.5% HNO_3	100 ppb	Paul Kolamk	12/13/96
8.	Hg Int QC	12/12/96	923	200 ml	1 L	0.5% HNO_3	200 ppb	Paul Kolamk	12/13/96

Reviewer Signature: Jodi L Wojcik
*Refer to Table I

Date: 12-23-96

RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 57

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 daily cal. std's	12/11/96	973, 974, 975, 976, 977 978 = 2x ↗	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	[signature]	12/12/96
2.	IC2 daily cal. std's.	12/12/96	973, 974, 975, 976, 977 978 = 2x ↗	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	[signature]	12/13/96
3.	GFAA daily stds	12/12/96 12 JAK	2100-48-7	*	100 mls	2% HNO_3	*	Debbie Kelly	12/13/96
4.	GFAA daily QC	12/12/96	2100-48-8	2.5 ml 3.5 mls	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	12/13/96
5.	GFAA daily stds	12/13/96	2100-48-7	*	100 mls	2% HNO_3	*	Debbie Kelly	12/14/96
6.	GFAA daily QC	12/13/96	2100-48-8	2.5 mls 3.5 mls	100 mls	2% HNO_3	25.0 ppb 35.0 ppb	Debbie Kelly	12/14/96
7.	10 ppm Pb	12/13/96	911	1 ml	100 ml	2% HNO_3	10 ppm	Jodi Wojcik	12/13/96 12/7/1/97
8.	IC2 CCV	12/14/96	952 + 953 892 955 (ON TOP)	10 mls 5 mls 10 mls	1 l	1% HNO_3 5% HCl	*	[signature]	9/1/97

Reviewer Signature: Jodi L. Wojcik
*Refer to Table I

Date: 12-23-96

RFW 21-21G-15107/B-7/3/96

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Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 58

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	IC2 CRI	12/16/96	920 + 921 984 (ON TOP)	10 mls 10 mls	1l	1% HNO_3 5% HCl	*	B. Amendola	7/1/97
2.	IC2 ISB	12/16/96	960 964 893 + 913 984 ON TOP	100 mls 10 mls 5 mls 10 mls	1l	1% HNO_3 5% HCl	*	B. Amendola	7/1/97
3.	IC2 daily cal. std.	12/16/96	973, 974, 975, 976 977 978 = 2x	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	1l	1% HNO_3 5% HCl	*	B. Amendola	12/17/96
4.	GFAA DAILY STD	12/16/96	2100-48-7	*	100 mls	2% HNO_3	*	[illegible]	12/17/96
5.	GFAA DAILY QC	12/16/96	2100-48-8	2.5 mls 3.5 L	100 mls	2% HNO_3	25.0 ppb 35.0 L	[illegible]	12/17/96
6.	Hg STD Int	12/16/96	981	100 ul	1 L	0.5% HNO_3	~~[illegible]~~ ppb 100 ppb 12/16/96	Paul Kalamyk	3/17/96
7.	Hg QC Int	12/16/96	923	200 ul	1 L	0.5% HNO_3	200 ppb	Paul Kalamyk	12/17/96
8.	IC2 daily cal. std.	12/17/96	973, 974, 975, 976, 977 978 = 2x	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100 mls each	1% HNO_3 5% HCl	*	B. Amendola	12/18/96

Reviewer Signature: [illegible] Date: 12/23/96
*Refer to Table I

RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 59

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Cd 1 ppm INT.	12/17/96	#898 (1000 ug/ml)	100 mls	100 mls	2% HNO_3	1 ppm Cd	[illegible]	1/17/96 ~~12/17~~ 12/17/96
2.	Cd 100 ppb INT.	12/17/96	2100-59-2	10 mls	100 mls	2% HNO_3	100 ppb Cd	[illegible]	7/17/96
3.	ICP SPECIAL SPIKE	12/17/96	891, 912, 887, 886, 888, 897, 890, 899, 901, 902, 911, 905, 906, 2100, 900, 903, 891, 908, 907, 909, 902	10, 5, 0.5, 0.2, 0.5, 0.5, 0.5, 0.5, 0.5, 0.1, 1.0, 1.0, 0.5, 1.0, 1.0, 0.5, 1.0, 1.0, 0.5, 0.5	100 mls	4% HNO_3	*	[illegible]	7/1/97
4.	GFAA DAILY STD	12/17/96	2100-48-7	*	100 mls	2% HNO_3	*	[illegible]	12/18/96
5.	GFAA DAILY QC	12/17/96	2100-48-8	2.5 mls 3.5 L	100 mls	2% HNO_3	25 ppb 35 L	[illegible]	12/18/96
6.	Cd DAILY QC	12/17/96	2100-59-2	2.5 mls 3.5 L	100 mls	2% HNO_3	2.5 ppb 3.5 L	[illegible]	12/18/96
7.	Hg STD Int	12/18/96	981	100 ul	1 L	0.5% HNO_3	100 ppb	Paul Kalamyk	12/19/96
8.	Hg STD QC Int	12/18/96	923	200 ul	1 L	0.5% HNO_3	200 ppb	Paul Kalamyk	12/19/96

Reviewer Signature: [illegible] Date: 12-23-96
*Refer to Table I

RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 62

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA Int Std	12/23/96	#972	5.0ml	500ml	2% HNO_3	1ppm*	Eileen Dunk	1/23/97
2.	GFAA Int QC	12/23/96	#970	5.0ml	500ml	2% HNO_3	1ppm*	Eileen Dunk	1/23/97
3.	GFAA daily Std	12/23/96	2100-62-1	*	100ml	2% HNO_3	*	Eileen Dunk	12/24/96
4.	GFAA daily QC	12/23/96	2100-62-2	2.5ml 3.5ml	100ml	2% HNO_3	25.00ppb 35.00ppb	Eileen Dunk	12/24/96
5.	LITO ISB SOLUTION	12/23/96	2100-58-2 #912	50 mls 25mls 1,000 ppm Sb	50mls	1% HNO_3 5% HCl	* + 0.5 PPM Sb	Douglas Lucas	12/ 7/1/97
6.	Hg STD	12/27/96	981	100ml	1L	0.5% HNO_3	100ppb	Paul Kolmyl	12/24/96
7.	Hg QC	12/23/96	923	200ml	1L	0.5% HNO_3	200ppb	Paul Kolmyl	12/24/96
8.	IC2 daily cal. Std. 12	12/26/96	973,974,975,976, 977 973 = 2x	S3 = 1.0 ml S2 = 0.5 ml S1 = 0.2 ml	100mls each	1% HNO_3 5% HCl	*	B Hernandez	12/27/96

Reviewer Signature: Jodi L Wojcik Date: 12-31-96
*Refer to Table I
RFW 21-21G-15107/B-7/3/96

Weston Environmental Metrics, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page No. 63

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	Hg STD	12/26/96	991	100ml	1L	0.5% HNO_3	100ppb	Paul Kolmyl	12/27/96
2.	Hg QC	12/26/96	923	200ml	1L	0.5% HNO_3	200ppb	Paul Kolmyl	12/27/96
3.	Hg STD	12/27/96	981	100ml	1L	0.5% HNO_3	100ppb	Paul Kolmyl	12/28/96
4.	Hg QC	12/27/96	923	200ml	1L	0.5% HNO_3	200ppb	Paul Kolmyl	12/28/96
5.	GFAA DAILY STD	12/30/96	2100-62-1	*	100 mls	2% HNO_3	*	Daniel Bolyn	12/31/96
6.	GFAA DAILY QC	12/30/96	2100-62-2	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.0 ppb 35.0 ↓	Daniel Bolyn	12/31/96
7.	Cd DAILY QC	12/30/96	2100-59-2	2.5 mls 3.5 ↓	100 mls	2% HNO_3	25.0 ppb 35.0 ↓	Daniel Bolyn	12/31/96
8.	IC2 CCV	12/30/96	~~2100~~ 2100-96 ~~952~~ 953 892 955	10 MLS each 5 MLS 10 MLS on top	1 l	1% HNO_3 5% HCl	*	Douglas Lucas	9/1/97

Reviewer Signature: Jodi L Wojcik Date: 12-31-96
*Refer to Table I
RFW 21-21G-15107/B-7/3/96

Reviewer: Carla Bonny Date: 12/23/96 Page #: 88

OP No. 21-21G-1505
Rev. 01; Eff. Date 12/15/94

WESTON Environmental Metrics, Inc.
ICAP/FAA Sample Digestion Record

Digestion Date: 12-8-96 Digestion Batch No: 96GI665 Client: USEPA Wilcox
Completion Date: ↓ Type of Prep: ICP Method: 3050 CLP Matrix: Soil
Parameters: HSL (-As, Se, Pb, Tl) Type of Analysis: Total Continued From:

Sample Number	Init. Wt/Vol g ml	Final Vol ml	pH <2>	% Solids	Parameters
96116675-001	1.14	200	N/A	69.7	
001R	1.18	↓	↓	↓	
0013	1.13				
002	1.50			77.6	
003	1.19			96.0	
004	1.31			53.6	
005	1.12			71.6	
006	1.18			75.9	
007	1.15			92.4	
008	1.27	↓	↓	53.4	
BM 12-8-96					
PB1	1.0	200	N/A	100	
LCS1	↓	↓	↓	↓	
BM 12-8-96 LCS2					

Start Time: ~~15:30~~ 16:00 BM 12-8-96
CLP

Standard Traceability:
Matrix Spike/Std.ID#'s Added:
ICP Soln 2100-35-4 2.0ml

LCS Spike / Std.ID#'s Added:
ICP Soln 2100-35-4 2.0ml

Temperature Monitoring:

Hot Plate #	1332	
Start Temp. C	90	
End Temp. C	91	

Preservative: Nitric Acid
Lot #: N/A

IPHNO3 K15033
H2O2 K06924
IPHCl J28033

Analyst : [signature] Date: 12-8-96 Updated:

Reviewer: Carla Bonny Date: 12/23/96 Page #: 89

Weston Environmental Metrics, Inc.
CLP - Sample Physical Description Log

OP No. 21-21G-1540
Rev. 01; Eff. Date: 05/03/95

Digestion Date: 12-8-96 Digestion Batch No.: 96GI665 Client: USEPA Wilcox

Refer to Book # 2197 Page 89 of the Sample Digestion Record

Sample Number	Color[1] Before	Color[1] After	Clarity[2] Before	Clarity[2] After	Texture[3] Before	Texture[3] After	Artifacts	Comments
96116675-001	Black	Yellow	N/A	N/A	Medium	N/A		Too like
002	↓	↓	↓	↓	↓	↓		↓
003	↓	↓	↓	↓	↓	↓		↓
004	↓	Orange	↓	↓	↓	↓		↓
005	↓	Yellow	↓	↓	↓	↓		↓
006	↓	↓	↓	↓	↓	↓		↓
007	↓	↓	↓	↓	↓	↓		↓
008	↓	↓	↓	↓	↓	↓		↓
BM 12-8-96								

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column and any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Sections.

[1]Color: Red, Blue, Yellow, Green, Orange, Violet, White, Colorless, Brown, Grey, Black.
[2]Clarity: Clear, Cloudy, Opaque.
[3]Texture: Fine (powdery), Medium (sand), Coarse (large crystals or rocks).

Analyst: [signature] Date: 12-8-96 Page # 212

Reviewer: [signature] Date: 12/9/96

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Reviewer: Carla Borner Date: 12/10/96 Updated: Page #: 48

OP No. 21-21G-1504
Rev. 01; Eff. Date 12/14/94

WESTON Environmental Metrics, Inc.
GFAA Sample Digestion Record

Digestion Date: 12-8-96 Digestion Batch No: 9.6GF 345 Client: USEPA-Wilcox
Completion Date: Type of Prep: AA Method: 3050 CLP Matrix: Soil
Parameters: As, Se, Pb, Tl Type of Analysis: Total Continued From:
Start Time: 16:00
CLP

Sample Number	Init. Wt/Vol g ml	Final Vol ml	pH <2>	% Solids	Parameters
96116-675-001	1.18	200	N/A	69.7	
001	1.05	↓	↓	↓	
001S	1.17				
002	1.31			77.6	
003	1.30			96.0	
004	1.30			53.6	
005	1.28			71.6	
006	1.30			75.9	
007	1.28			92.4	
008	1.44	↓	↓	53.4	
BM 12-8-96					
PB1	1.0	200	N/A	100	
LCS1	↓	↓	↓	↓	
BM12-8-96 ~~LCS2~~					

Standard Traceability:
Matrix Spike/Std.ID#'s Added:
GFAA Soln 2100-27-2 2.0 ml

LCS Spike /Std.ID#'s Added:
GFAA Soln 2100-27-2 2.0 ml

Temperature Monitoring:

Hot Plate #	889	
Start Temp. C	90	
End Temp. C	90	

Preservative: Nitric Acid
Lot #: N/A
1% HNO_3 K15033
H_2C_2 K06924

Analyst : Date: 12-8-96 Updated:
Reviewer: Carla Borner Date: 12/19/96 Page #: 4

Weston Environmental Metrics, Inc.
CLP - Sample Physical Description Log

OP No. 21-21G-1540
Rev. 01; Eff. Date: 05/03/95

Digestion Date: 12-8-96 Digestion Batch No.: 96GF345 Client: USEPA-Wilcox

Refer to Book # 2196 Page 49 of the Sample Digestion Record

Sample Number	Color[1] Before	Color[1] After	Clarity[2] Before	Clarity[2] After	Texture[3] Before	Texture[3] After	Artifacts	Comments
9611G675-001	Black	yellow	N/A	N/A	Medium	N/A		Tar like
002	↓	↓	↓	↓	↓	↓		↓
003	↓	↓	↓	↓	↓	↓		↓
004	↓	orange	↓	↓	↓	↓		↓
005	↓	yellow	↓	↓	↓	↓		↓
006	↓	↓	↓	↓	↓	↓		↓
007	↓	↓	↓	↓	↓	↓		↓
008	↓	↓	↓	↓	↓	↓		↓
BM 12-8-96								

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column and any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Sections.

[1]Color: Red, Blue, Yellow, Green, Orange, Violet, White, Colorless, Brown, Grey, Black.
[2]Clarity: Clear, Cloudy, Opaque.
[3]Texture: Fine (powdery), Medium (sand), Coarse (large crystals or rocks).

Analyst: [signature] Date: 12-8-96 Page # 210

Reviewer: Peter Bonner Date: 12/9/96

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Weston Environmental Metrics, Inc.
% Sol. / % Ash / % Vol. / % Mst.

Method: Solids 2540 G, Std. Methods 17Ed.	Detection Limit: 0.10%	LIMS Batch: 96GTS652

Codes:
TARE = B
WET = C
DRY = A
MUFFLE = D

Calculations:
% Solids = (A - B) / (C - B) X 100
% Ash "A" = (D - B) / (C - B) X 100
% Ash "D" = (D - B) / (A - B) X 100
% Volatiles = (A - D) / (A - B) X 100
% Moisture = 100 - % Solids

INSTRUMENT CHECKS

Control Limits: 10 +/-0.0005 g | 103-105°C | 550 +/-50°C

Balance #	Gram Wt.	Reading	Oven #	Pre Temp\Post Temp	Furnace #	Furnace Temp
106	10.0	10.0001	225	105.0°C 103.0°C		

I have verified that the weights obtained by the balance interface software match the readings from the analytical balance listed above.

Analyst Signature: Della [signature] Date: 12-5-96

Reviewer Signature: Lynn M. Biederman Date: 12/5/96

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
96GTS652-MB1	23	I%SOL	0.0		TARE:	1.2546			
					WET:	11.6820	12/04/96	17:13:32	DJT
					DRY:	1.2569	12/05/96	10:45:07	DJT
9611G675-001	24	I%SOL	69.7		TARE:	1.2491			
					WET:	10.3126	12/04/96	17:15:56	DJT
					DRY:	7.5659	12/05/96	10:44:14	DJT
9611G675-002	25	I%SOL	77.6		TARE:	1.2526			
					WET:	11.6087	12/04/96	17:16:43	DJT
					DRY:	9.2864	12/05/96	10:43:41	DJT
9611G675-003	26	I%SOL	96.0		TARE:	1.2642			
					WET:	10.9664	12/04/96	17:18:03	DJT
					DRY:	10.5771	12/05/96	10:44:25	DJT
9611G675-004	27	I%SOL	53.6		TARE:	1.2640			
					WET:	12.0169	12/04/96	17:20:29	DJT
					DRY:	7.0269	12/05/96	10:44:48	DJT

Weston Environmental Metrics, Inc.
% Sol. / % Ash / % Vol. / % Mst.

LIMS Batch: 96GTS652

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
9611G675-005	28	I%SOL	71.6		TARE:	1.2622			
					WET:	10.6971	12/04/96	17:21:44	DJT
					DRY:	8.0161	12/05/96	10:43:23	DJT
9611G675-006	29	I%SOL	75.9		TARE:	1.2650			
					WET:	11.6024	12/04/96	17:22:36	DJT
					DRY:	9.1078	12/05/96	10:42:34	DJT
9611G675-007	30	I%SOL	92.4		TARE:	1.2629			
					WET:	10.5920	12/04/96	17:23:24	DJT
					DRY:	9.8786	12/05/96	10:42:24	DJT
9611G675-008	31	I%SOL	53.4		TARE:	1.2538			
					WET:	11.6039	12/04/96	17:24:31	DJT
					DRY:	6.7855	12/05/96	10:44:37	DJT
9[illegible]G770-001	32	I%SOL	84.0		TARE:	1.2564			
					WET:	11.7927	12/04/96	17:25:35	DJT
					DRY:	10.1076	12/05/96	10:44:02	DJT
9611G789-001	33	I%SOL	55.6		TARE:	1.2560			
					WET:	10.7057	12/04/96	17:26:19	DJT
					DRY:	6.5086	12/05/96	10:43:52	DJT
9612G832-001	34	I%SOL	54.3		TARE:	1.2532			
					WET:	12.1494	12/04/96	17:27:13	DJT
					DRY:	7.1705	12/05/96	10:42:45	DJT
9612G833-001	35	I%SOL	55.9		TARE:	1.2549			
					WET:	11.5018	12/04/96	17:28:27	DJT
					DRY:	6.9827	12/05/96	10:42:57	DJT
9612G833-001R	36	I%SOLR	56.3	0.7	TARE:	1.2660			
					WET:	11.1208	12/04/96	17:29:24	DJT
					DRY:	6.8114	12/05/96	10:43:09	DJT

*** End of % Solids Report ***