Metcalf & Eddy
An Air & Water Technologies Company

019854

N60478.AR.000372
NWS EARLE
5090.3a

October 17, 1996

Naval Weapons Station Earle
Colts Neck, New Jersey 07722-5014

Attention: Mr. Gregory J. Goepfert, P.E.
Environmental Engineer

Dear Mr. Goepfert:

Enclosed for your review is the final report on remediation of the pistol ranges at Naval Weapons Station Earle.

Should you have any questions on this matter please call me.

Very truly yours,

Steven Biuso, P.E.
Sr. Project Manager
Metcalf & Eddy, Inc.

SB/sb

cc: A. Holcomb
M. Warminsky w/o encl.

U.S. Highway 22 West and Station Road, Branchburg, NJ 08876 • Mailing Address: PO Box 1500, Somerville, NJ 08876-1251
TEL: 908-685-6100 FAX: 908-685-6106/6103

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Metcalf & Eddy, Inc. 019854

PISTOL RANGE REMEDIATION
NAVAL WEAPONS STATION EARLE

Colts Neck NJ

October 17, 1996

NAVAL WEAPONS STATION EARLE
PISTOL RANGE REMEDIATION
FINAL REPORT

Introduction

As part of the Navy's ongoing program of environmental cleanup at Naval Weapons Station Earle, lead contamination at inactive pistol ranges was identified for remediation. The first step in the project was to perform treatability studies to evaluate the effectiveness of soil processing to remove lead from the soils. Clean-up goals for this project were 400 mg/kg total lead. The treatability study, performed during August 1996, and the ensuing soil processing work is described below.

Treatablitiy Study

Using five gallon samples collected from each of the two pistol ranges, material was wet screened into nine fractions. Fractions that exceeded a total lead level of 500 mg/kg total lead then underwent either a hand sort or gravity separation by jigging to remove particulate lead. After gravity separation, the "clean" portion of the fraction was analyzed for total lead and TCLP lead.

As a result of these separations, it was determined that up to 1,100 tons of material would require off-site disposal if only wet screening were performed. Test results further indicated that wet screening followed by gravity separation would render residual soil non-toxic and suitable for reuse. Recovered lead would likely be 80 percent or more metal and be suitable for recycling. The Treatability Study report is attached as Appendix A.

Based on the treatability study and the anticipated cost savings due to the reduced volume of material that would require off-site disposal, NWS-Earle staff elected to proceed using Metcalf & Eddy's soil washing system.

Soil Processing

The project was undertaken as an integrated team composed of Navy earth moving equipment and operators, and Metcalf & Eddy process equipment and process technicians. The soil washing system was set up adjacent to the north range berm. All process equipment was staged on 6 mil polyethylene sheeting and bermed with hay bales on the downslope side. Material was excavated from the south range and transported and stockpiled on the north range. Initial post excavation inspection of the south range indicated visible lead fragments both deeper and wider that was originally anticipated. Additional excavation beyond the three foot depth was performed to address this and post excavations samples were collected and analyzed after excavation was completed.

Material from the south range was processed first, with material from the north range

excavated and directly loaded into the soil washing plant. Treated materials were stockpiled on 6 mil plastic sheeting adjacent to the south range until laboratory analysis demonstrated that clean up goals had been attained.

The Hydro-Sep soil washing system was comprised of a multi-deck wet screening system, mineral jig for gravity separation, dewatering screw and associated conveyors and pumping systems. The system was set up and started operating on September 13, 1996 processing material from the south pistol range. Almost immediately, problems were encountered with fines and roots plugging the multi deck screens and binding in the pumping systems. Samples taken from the material being excavated had fine material (<150 mesh) representing over 12% of the sample. This compared to the treatability study samples which contained approximately 2% fines. The changed conditions was caused by the need for deeper excavation after the initial post excavation inspection revealed that visible lead remained.

To mitigate the problems being caused by the fines, modifications to the pumping system were made to include a clarifier to settle fines out. This was accomplished by modifying a roll-off bin with screens and adding polymer to settle out and contain all the fines and filter the water. As work progressed, accumulated silt was removed from the clarifier and placed into additional roll-offs brought in for that purpose. Production rates improved after these changes were made with peak rates of approximately 75 tons per hour being realized. Excessive amounts of silt being handled by the system did however result in significantly more down time than was originally anticipated. This was caused by the need to clean out the clarifier after every 2-3 hours of processing. Processing of material was essentially completed on September 27, 1996 after 13 days of processing, with a total of approximately 1,500 tons of material being processed. Of this 1500 tons, it is estimated that approximately 1,421 tons is suitable for reuse on-site, with approximately 70 tons being the fine material that will likely require off-site disposal, and 9 tons of recovered lead that will go to an off-site recycler.

Laboratory Analyses

Laboratory analyses were performed on soil samples for approximately every 100 yards of material processed. Results of all samples analyzed indicated total lead concentrations less than 100 mg/kg. Initial results from one sample had a higher value (978 mg/kg), but this sample was re-analyzed with a result of 92.2 mg/kg. Additional total lead analyses were performed on the sediments that were collected in the clarifier and fines storage bin. Results of these analyses ranged from a low of 1.8 mg/kg to a high of 2740 mg/kg. Additional analyses for TCLP lead are being performed by Foster Wheeler Environmental Corporation on some of the sediment samples to determine a suitable method for off-site disposal of sediments that exhibited total lead values of over 400 mg/kg.

Results of these analyses are included as Appendix B, and indicate that all of the soil processed, except some of the fines, are suitable for reuse on-site.

Conclusions

Metcalf & Eddy's Hydro-Sep soil washing system performed as predicted in the treatability study for the project. All soil, with the exception of the unanticipated fines, were rendered non-toxic and suitable for on-site reuse. While the number of processing days was somewhat greater than anticipated, this is attributed to the presence of fine material.

APPENDIX A

SOIL WASHING TREATABILITY STUDY

SOIL WASHING TREATABILITY STUDY

NAVAL WEAPONS STATION EARLE
PISTOL RANGE SAND BERM

Prepared for:

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Prepared by:

Metcalf & Eddy, Inc.

AUGUST 12, 1996

TREATABILITY STUDY SUMMARY

INTRODUCTION

Soil washing treatability study tests were performed on two samples of material from the Naval Weapons Station Earle. One sample was collected from the south pistol range, and the other was collected from the north pistol range.

The samples were analyzed separately with the goal to determine:

1. If screening alone would significantly reduce the volume of material requiring off-site disposal;

2. If screening and gravity separation would improve performance over screening alone;

3. If the residual soil was rendered non-hazardous (TCLP less than 5 mg/L) after processing.

SAMPLE DESCRIPTION

One five-gallon composite sample was collected from each range, and included material from the impact area, and areas above and below the impact area. The samples consisted of a relatively well graded sand, with cobbles/pebbles to approximately 1½ inches in diameter. The coarse fraction(s) contained visible particulate lead in the form of small caliber bullets/bullet fragments. The south berm consisted of coarser material with more visible lead, while the north berm consisted of finer material with less visible lead. In addition, empty

casings were observed, as well as glass fragments and minor debris. Some mid-size fractions contained "black sands," with the balance of the non-metallic material consisting of quartz.

TEST RESULTS

Each of the two samples was wet screened into nine fractions. Total lead analysis were conducted of each fraction to determine the effectiveness of screening alone. The 10 mesh by 28 mesh fraction of the south range sample was subsequently screened into 10 x 16, 16 x 20, and 20 x 20 mesh fractions to better quantify the contaminant distribution as the initial 10 x 28 mesh fraction represented the largest (approximately 48.6%) single fraction from the sample, it had total lead levels of 2,000 mg/kg and a TCLP lead concentration of 275 mg/L. Also, it appeared the lead was concentrated in the upper range of this fraction as evidenced by the low lead concentrations in the 28 mesh by 65 mesh fraction, and the high lead levels in the 10 mesh by 4 mesh fraction. These results are summarized in Table 1.

Fractions exceeding a total lead level of 500 mg/kg total lead then underwent either a hand sort (4 mesh plus fraction) or gravity separation by jigging to remove particulate lead.

After gravity separation, the "clean" (tails) portion of the fraction was analyzed for total lead and TCLP lead, with the results summarized in Table 2.

CONCLUSIONS AND RECOMMENDATIONS

Particulate lead was present in significant quantity down to and including the 20 x 28 mesh fraction of the south range and the ⅜ inch x ¾ inch fraction of the north range. As such, screening alone would require the 1 inch x 28 mesh and 150 mesh minus fractions of the south range, and the 1½ inch x ⅜ inch fraction of the north range be disposed of as

hazardous waste. These fractions represent 69.1 percent (829 tons ±) and 1.5 percent (18 tons) of the original south and north ranges respectively, on a dry weight basis. Since wet screening would be required to make the 150 mesh and 28 mesh cuts, 20 percent to 30 percent moisture can be anticipated in these fractions, increasing the potential disposal volume from a total of 847 tons to up to 1,100 tons. With current disposal costs ranging from $150 to $250/ton, the wet screen alone option may involve $165,000 to $290,000 in disposal costs, with an additional $10/ton ($24,000) for wet screening.

Wet screening followed by gravity separation resulted in all residual soil/sand being rendered non-toxic and suitable for reuse. Based on similar experience, the lead recovered is assumed to consist of approximately 80 percent metal and 20 percent sand, and this should have a residual salvage value to offset trucking charges. With current wet screen/gravity separation costs ranging from $60 to $75/ton, ($144,000 to $180,000), this alternative could save up to $134,000 over the screening/disposal option.

The projected mass balance and residual lead concentrations are summarized in Table 2, with the recommended block flow diagram outlined in Figure 1.

Metcalf & Eddy, Inc.
Treatability Study
'aval Weapons Station, Earle
ss Balance Summary

Date: 08-Oct-96

Table 1
Contaminant Distribution

South Berm

Fraction Description	Sample (grams) Fraction Weight	Weight Percent	Total (tons) Total Weight	Feed Rate tons/hr	Post Screen Total Pb (mg/kg)
Feed Soil	**29831.9**	**100.0%**	**1200**	**30.0**	
1 inch plus	162.9	0.5%	7		504
Cut Subtotal	**162.9**	**0.5%**	**7**	**0.2**	
3/4 Inch x 1 Inch	41.5	0.1%	2		300000
3/8 Inch x 3/4 Inch	1155.6	3.9%	46		810000
4 Mesh x 3/8 Inch	438.4	1.5%	18		190000
10 mesh x 4 mesh	3619.1	12.1%	146		23100
16 mesh x 10 mesh	4176	14.0%	168		2000
20 mesh x 16 mesh	4772	16.0%	192		2000
Cut Subtotal	**14202.6**	**47.6%**	**571**	**14.3**	
28 mesh x 20 mesh	5539.3	18.6%	223		2000
65 mesh x 28 mesh	8283.4	27.8%	333		161
150 mesh x 65 mesh	923.7	3.1%	37		460
150 mesh minus	720	2.4%	29		4430
Cut Subtotal	**15466.4**	**51.8%**	**622**	**15.6**	
al	**29831.9**	**100.0%**	**1200**	**30.0**	**Average 38529**

North Berm

Fraction Description	Sample (grams) Fraction Weight	Weight Percent	Total (tons) Total Weight	(tons) Feed Rate tons/hr	Post Screen Total Pb (mg/kg)
Feed Soil	**29260.5**	**100.0%**	**1200**	**60.0**	
11/2 Inch plus	101	0.3%	4		6
1 inch x 11/2 inch	79.3	0.3%	3		5
Cut Subtotal	**180.3**	**0.6%**	**7**	**0.4**	
3/4 Inch x 1 Inch	59	0.2%	2		5
3/8 Inch x 3/4 Inch	214.1	0.7%	9		20000
4 Mesh x 1 Inch	246.9	0.8%	10		30
10 mesh x 4 mesh	1465.5	5.0%	60		151
Cut Subtotal	**1985.5**	**6.8%**	**81**	**4.1**	
28 mesh x 10 mesh	12192.9	41.7%	500		5
65 mesh x 28 mesh	13520.9	46.2%	555		5
150 mesh x 65 mesh	827.9	2.8%	34		27
150 mesh minus	553	1.9%	23		174
Cut Subtotal	**27094.7**	**92.6%**	**1111**	**55.6**	
al	**29260.5**	**100.0%**	**1200**	**60.0**	**Average 163**

Combined Project	**Average 45.0**	**Average 19346**

Metcalf & Eddy, Inc.
Treatability Study
Naval Weapons Station, Earle
ss Balance Summary **Date: 08-Oct-96** **Table 2**
Contaminant Distribution

South Berm

Fraction Description	Sample (grams) Fraction Weight	Weight Percent	Total (tons) Total Weight	Feed Rate tons/hr	Post Gravity Total Pb (mg/kg)	TCLP Pb (mg/L)
Feed Soil	**29831.9**	**100.0%**	**1200**	**30.0**		
1 inch plus	162.9	0.5%	7		504	0.05
Cut Subtotal	**162.9**	**0.5%**	**7**	**0.2**		
3/4 Inch x 1 Inch	41.5	0.1%	2		1670	1.5
3/8 Inch x 3/4 Inch	1155.6	3.9%	46		*1000*	20.6
4 Mesh x 3/8 Inch	438.4	1.5%	18		180	2
10 mesh x 4 mesh	3619.1	12.1%	146		590	1.1
16 mesh x 10 mesh	4176	14.0%	168		23	2.5
20 mesh x 16 mesh	4772	16.0%	192		27	2.5
Cut Subtotal	**14202.6**	**47.6%**	**571**	**14.3**		
28 mesh x 20 mesh	5539.3	18.6%	223		*500*	2.5
65 mesh x 28 mesh	8283.4	27.8%	333		161	4.5
150 mesh x 65 mesh	923.7	3.1%	37		460	9.5
150 mesh minus	720	2.4%	29		4430	25.8
Cut Subtotal	**15466.4**	**51.8%**	**622**	**15.6**		
Total	**29831.9**	**100.0%**	**1200**	**30.0**	**Average 384**	**Average 4.3**

Note-Italics indicate estimated values

North Berm

Fraction Description	Sample (grams) Fraction Weight	Weight Percent	Total (tons) Total Weight	(tons) Feed Rate tons/hr	Post Gravity Total Pb (mg/kg)	TCLP Pb (mg/L)
Feed Soil	**29260.5**	**100.0%**	**1200**	**60.0**		
11/2 Inch plus	101	0.3%	4		6	0.5
1 inch x 11/2 inch	79.3	0.3%	3		5	0.5
Cut Subtotal	**180.3**	**0.6%**	**7**	**0.4**		
3/4 Inch x 1 Inch	59	0.2%	2		5	0.5
3/8 Inch x 3/4 Inch	214.1	0.7%	9		5	0.5
4 Mesh x 1 Inch	246.9	0.8%	10		30	0.5
10 mesh x 4 mesh	1465.5	5.0%	60		151	0.5
Cut Subtotal	**1985.5**	**6.8%**	**81**	**4.1**		
28 mesh x 10 mesh	12192.9	41.7%	500		5	0.5
65 mesh x 28 mesh	13520.9	46.2%	555		5	0.5
150 mesh x 65 mesh	827.9	2.8%	34		27	2
150 mesh minus	553	1.9%	23		174	0.5
Cut Subtotal	**27094.7**	**92.6%**	**1111**	**55.6**		
Total	**29260.5**	**100.0%**	**1200**	**60.0**	**Average 16**	**Average 0.5**

Combined Project	**Average 45.0**	**Average 200**	**Average 2.4**

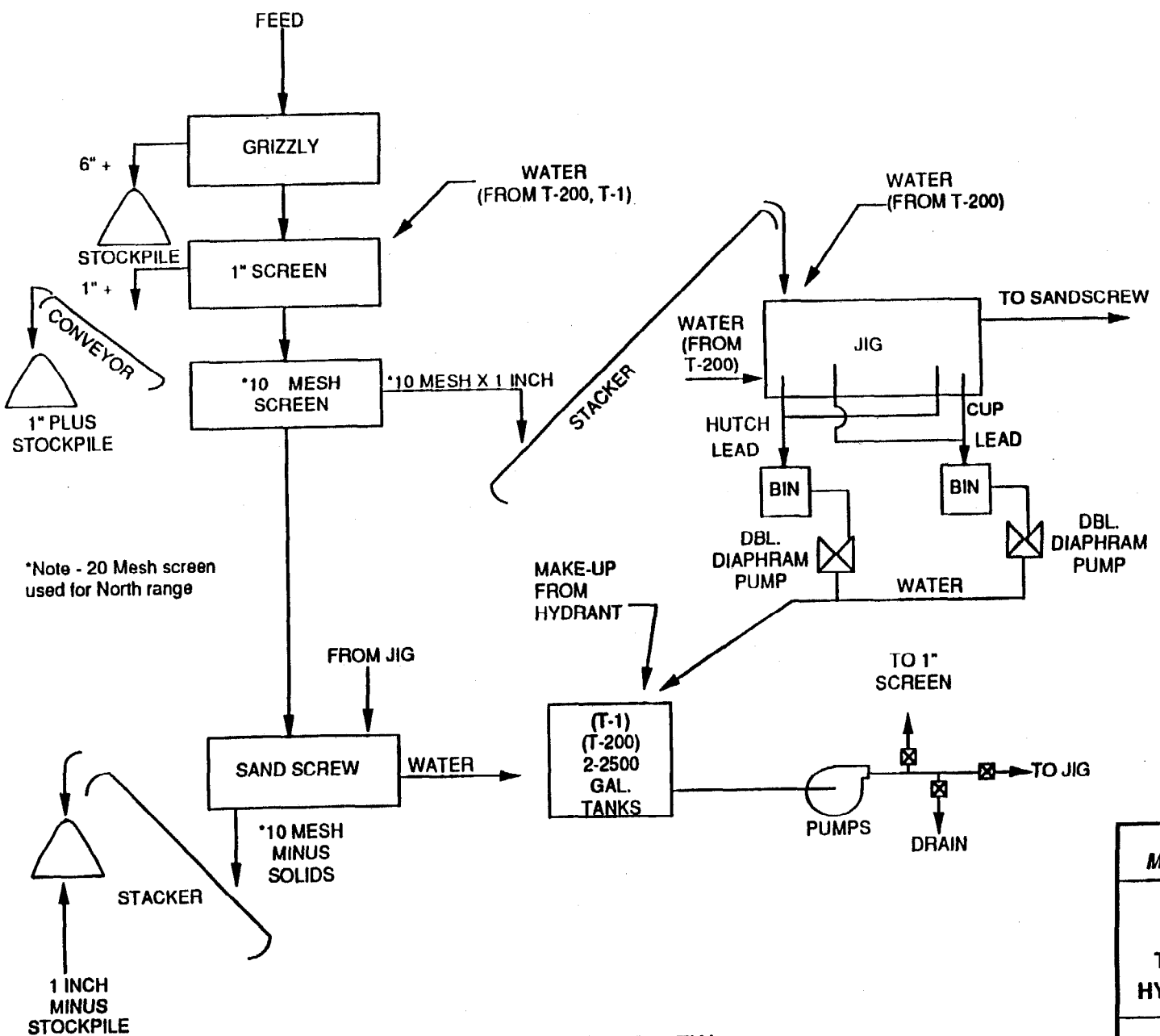

FIGURE 1

METCALF & EDDY, INC.

NAVAL WEAPONS STATION EARLE
TREATABILITY STUDY
HYDROSEP FLOWSHEET

08/06/96

M&E

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APPENDIX B

RESULTS OF LABORATORY ANALYSES

Summary of Soil Analyses for Total Lead (mg/kg)								
Sample No		Date		Result		Comment		
SR-20-PS		9/17/96		14.6				
SR-100-PS		9/20/96		38.3				
SR-200-PS		9/20/96		34.9				
SR-300-PS		9/20/96		66.2				
NR-100-PS*		9/23/96		978				
NR-100-PS**		9/23/96		92.2				
NR-200-PS		9/25/96		83.3				
SR-300-PS		9/25/96		21.4				
SR-500-PS		9/25/96		29.3				
PE-Oversize		10/2/96		104				
* - Sample had an initial result of 978 which appear out of control to laboratory personnel.								
** - Results of re-analysis of sample								
Summary of Sediment Analyses for Total Lead (mg/kg)								
SR-CLAR-SED		9/17/96		6.6				
SR-BIN-SED		9/17/96		59.8				
SR-CLAR-SED1		9/20/96		1510				
SR-BIN-SED1		9/20/96		360				
NR-BIN-SED		9/23/96		1.8				
SR-CLAR-SED2		9/23/96		2230				
NR-CLAR-SED		9/23/96		2740				
SR-CLAR-SED3		9/25/96		2220				
Summary of Post Excavation Sample Analyses for Total Lead (mg/kg)								
SR-PE-1		9/17/96		15.4				
SR-PE-2		9/17/96		176				
NR-PE-1		9/23/96		3.1				
NR-PE-2		10/2/96		9.8				

ACCUTEST.

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BRANCHBURG, NJ

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FOR
INORGANIC USEPA/CLP METHODS
(Multi-Media,Multi-Concentration)

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-PE-1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14601-1

Level (low/med): LOW Date Received: 09/17/96

% Solids: 89.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	15.4		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-PE-2

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14601-2

Level (low/med): LOW Date Received: 09/17/96

% Solids: 92.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	176		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: YELLOW/BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

2

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-20-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-1

Level (low/med): LOW Date Received: 09/17/96

% Solids: 87.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.6		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-2

Level (low/med): LOW Date Received: 09/17/96

% Solids: 22.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	6.6		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-BIN-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-3

Level (low/med): LOW Date Received: 09/17/96

% Solids: 88.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	59.8		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

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M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Earle NWS
Job/Project Location: Colts Neck, NJ
Job/Project Number: 019854
Samplers: (Signatures) [signature]
Recorder: (Signature)
Date: 9/13/96
Lab (Samples Sent To): Accutest

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil				COMPOSITE/GRAB	PRESERVATIVE (Y/N)	Total Lead							Total # Bottles	COMMENTS
9/13/96	10:30	SR-PE-1	Ground level S.R.		X	E14601-1			C	N	✓							1	Composite of 5 locations
9/13/96	10:45	SR-PE-2	Embankment S.R		X			-2	C	N	✓							1	Composite of 5 locations

72

Relinquished By: (Signature)	Date	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	9/17/96	0840					[signature]
Relinquished By: (Signature)	Date	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	9/17/96	0924	[signature]				
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: CLP Method and Deliverables 7 Day Turn	

Method of Shipment:

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

FULL/CLP [signature]

[illegible] RECEIVED [illegible] AT ACCUTEST

SO

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: EARLE NWS
Job/Project Location: COLTS NECK NJ
Job/Project Number: 619854
Samplers: (Signatures) [signature]
Recorder: (Signature) [signature]
Date: 9/16/96
Lab (Samples Sent To): ACCUTEST

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil				COMPOSITE/GRAB	PRESERVATIVE (Y/N)	TOTAL LEAD BY CLP	ANALYSIS REQUESTED						Total #	COMMENTS
9/15/96	13:00	SR-20-PS	PROCESSED SOIL		X	E1460	-1		6	N	X							1	N
9/16/96	14:00	SR-CLAR-SED	CLARIFIER SEDIMENT		X		-2		6	N	X	24HR TURNAROUND						1	
9/16/96	14:10	SR-BIN-SED	JIL BIN SEDIMENT		X		-3		6	N	X							1	

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	9/17/96	0840					[signature]
[signature]	9/17/96	0924	[signature]				
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: CLP METHOD + DELIVERABLES	
						FULLCLP per DJL MMB 9-17-96	

Method of Shipment:

Distribution: **Original** to Lab, **Copy 1** to Field Files, **Copy 2** to Project Manager

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VN BLANCON	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9 / 17 / 96	Military Time Seal Broken 0930
Accutest Job No.	Analytical Parameter/Fraction PB	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14601-1			
E14601-2			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/17/96	1030	PRINTED NAME R. VN BLANCON SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/17/96	1100	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/17/96	1145	PRINTED NAME Patel, Dipti S SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/17/96	15 00	PRINTED NAME Patel, Dipti S SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Digest Storage
9/17/96	15 15	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	ICP Analysis
9/17/96	17 15	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

MAF

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/17/96	Military Time Seal Broken 0930
Accutest Job No.	Analytical Parameter/Fraction	Pb

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14602-1			
E14602-2			
E14602-3			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/17/96	1030	PRINTED NAME R. VAN BLARCOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/17/96	1100	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/17/96	1145	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	storage
9/17/96	15 00	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	Digest Storage
9/17/96	15 15	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	ICP Analysis
9/17/96	17 15	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

MLF

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R-VN BLANCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9 / 17 / 96	Military Time Seal Broken 0930
Accutest Job No.	Analytical Parameter/Fraction % SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14601-1			
E14601-2			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/17/96	1030	PRINTED NAME R-VN BLANCOM SIGNATURE [signature]	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	STORAGE
9/17/96	1300	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	PRINTED NAME ~~Lou Sol~~ Lou Maclean SIGNATURE Lou Maclean	% Solids
9/17/96	1330	PRINTED NAME Lou Maclean SIGNATURE Lou Maclean	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R.VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/17/96	Military Time Seal Broken 0930
Accutest Job No.	Analytical Parameter/Fraction % SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14602-1			
E14602-2			
E14602-3			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/17/96	1030	PRINTED NAME R.VAN BLARCOM SIGNATURE	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/17/96	1300	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Lew MacLean SIGNATURE	% Solids
9/17/96	1330	PRINTED NAME Lew MacLean SIGNATURE	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INORGANIC METHODOLOGY SUMMARY - SOIL MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis.

A representative 1g (nominal weight) sample is digested with nitric acid and hydrogen peroxide. If the digestate is to be analyzed for Sb by graphite furnace AAS or any other metals by flame AAS or ICP, a final reflux with hydrochloric acid is also done. After digestion, the sample is filtered and brought up to the final volume with DI water. A separate aliquot of the sample is dried for the percent solids determination.

Metals by Graphite Furnace Atomic Absorption.

A representative aliquot of the digested soil sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector that measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of only the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals By Flame Atomic absorption.

For flame AAS, the digested soil sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

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Metals by Inductively Coupled Plasma (ICP)

Icp is a technique for simultaneous or sequential multielement determinations. The basis of this method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Soils.

A measured volume of sample is acid digested utilizing an autoclave. Mercury is the analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury is reduced to the elemental state and aerated from the solution in a closed system. The mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measure as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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Inorganics Conformance Summary
for Job E14601/E14602

Note 1: The results on the CLP forms may differ slightly from those on the raw data due to rounding differences.

Note 2: Comments on specific analysis results are listed by analysis type below. If no problems were encountered on a run, no comments are included below.

Note 3: The ICP analyses were done using the TJA Trace ICP. On this ICP, there are two lines for lead, antimony, and selenium. Two lines are used so that a background correction calculation can be applied and a single result reported. However, separate interfering element corrections are required for each line. On forms 11a and 11b, the corrections are shown for each line by entering two headings for each of the interfering elements.

Note 4: Due to space considerations, only abbreviations of the sources could be entered on forms 2A, 2B, 4 and 7. A full list of sources for all QC check standards follows this conformance summary.

ICP Analysis, 09/17/96, Soils:

1. The relative percent difference between the sample and the duplicate was high for lead for sample SR-BIN-SED. Therefore all associated samples were flagged with a * for lead. Note: This sample appeared to be a mostly homogeneous sandy soil, but did contain varying amounts of small black particulate.

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Standard Source Lots

Standard Sources

All regular metals-Inorganic Ventures: #L-MEB54104

Al, Ca, Fe, Mg, K, Na-Inorganic Venture: #L-MEB56113

Ag-MV Laboratories: #AgP11

V-MV Laboratories: #VP101

ICV & CCV Sources

All regular metals-Environmental Express: #690220

Ag-Ultra Scientific: #94701070

Al-MV Laboratories: #ALP101

Ba-MV Labs: #BAP1I

K-Spex: #K4-61K

Na-MV Labs: #NAP10L

Fe-Ultra Scientific: #1C-0130

Mg-Ultra Scientific: #1011201113

Ca-MV Laboratories: #W1295MS

REAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-29-96	Mg	MV LAB	P295 LMS	8-97	50	1000	ML
	AL		ALP 10J	6-97	50		
	Ca		W1295 MS	7-97	50		
	Fe		FEP10M	7-97	20		

REAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-20-96	Mg	MV labs	P295 LMB	8-97	50	1000	NS
	AL		ALP 10J	6-97	50		
	Ca		W129 SMJ	7-97	50		
	Fe		fe P10M	7-97	20		
	As	fisher	960121 A24	11-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	fisher	950335 A18	8-96	1.0		
	Sb	MV lab	8-83A5	1-97	1.0		
	Ag cd Ni Pb Zn Ba Be Co Cr	Environmd	5911B	6-97	10		
	Cu Mn V						

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRIA - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
6-25-96	AS	fisher	960121 A-24	11-97	0.4	100	NS
	TL	Baker	J02568	1-97	0.4	100	
	Pb	SPEX	4-98pb	6-96	0.12	100	
	Se	fisher	950335 A-18	8-96	0.20	100	
	Sb	fisher	940011 D-24	7-96	0.20	100	

REAGENT LOG-ICP STANDARDS

TANDARD NAME: CRI - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-1-96	Ba	MV LAB	BAP11	3-97	6.0	100	
	CO	MV LAB	COP1F	1-97	1.2 ~~1.6~~		
	Ag	MV LAB	AGP11	5-97	0.4		
	Sb	MV LAB	SBP11	3-97	2.4		
	B	Fisher Sc	955017-24	sep 1997	2.0		
	V	MV LAB Intern	VP10	10-22-93	2.0		
	MO	Fisher	953632b-24	Jun 1997	2.0		
	AS TL Pb SE	High Purity Std	591222	1-97	0.75		
	Ba As Mn Ni Be Se Co Na Cd	High Purity Std	591227	1-97	2.0		
	Pb Zn Cr TL Cu						

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INORGANICS COMPLETE SDG FILE (SCF) INVENTORY SHEET

LABORATORY NAME : ACCUTEST LABORATORY
CITY/STATE : DAYTON, NJ

CASE NO.: _____ SDG NO.: E14601/E14602 SDG NOS. TO FOLLOW: _____ SAS NO.:

CONTRACT NO.: SOW NO.: USEPA CLP INORGANICS SOW DOCUMENT IML 2.0

		PAGE NOs. FROM	TO	CHECK LAB	REGION
1.	Inventory Sheet (Form DC-2) (Do not Number)	20	21	✓	
2.	SDG Case Narrative	14	19	✓	
3.	Cover Page	22	22	✓	
4.	Inorganic Analysis Data Sheet (Form I-IN)	23	27	✓	
5.	Initial & Continuing Calibration Verification (Form IIA-IN)	28	29	✓	
6.	CRDL Standards for AA and ICP (Form IIB-IN)	30	30	✓	
7.	Blanks (Form III-IN)	31	32	✓	
8	ICP Interference Check Sample (Form IV-IN)	33	33	✓	
9.	Spike Sample Recovery (Form VA-IN)	34	34	✓	
.0.	Post Digest Spike Sample Recovery (Form VB-IN)	N/A	N/A	N/A	
.1.	Duplicates (Form VI-IN)	35	35	✓	
.2.	Laboratory Control Sample (Form VII-IN)	36	36	✓	
.3.	Standard Addition Results (Form VIII-IN)	N/A	N/A	N/A	
.4.	ICP Serial Dilutions (Form IX-IN)	37	37	✓	
.5.	Instrument Detection Limits (Form X-IN)	41	41	✓	
.6.	ICP Interelement Correction Factors (Form XIA-IN)	42	42	✓	
.7.	ICP interelement Correction Factors (Form XIB-IN)	43	45	✓	
.8.	ICP Linear Ranges (Form XII-IN)	46	46	✓	
.9.	Preparation Log (Form XIII-IN)	38	38	✓	
.0.	Analysis Run Log (Form XIV-IN)	39	40	✓	
1.	ICP Raw Data	47	92	✓	
2.	Furnace AA Raw Data	N/A	N/A	N/A	
3.	Flame AA Raw Data	N/A	N/A	N/A	
4.	Mercury Raw Data	N/A	N/A	N/A	
5.	Cyanide Raw Data	N/A	N/A	N/A	
6.	Preparation Logs Raw Data	93	94	✓	

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	PAGE NOs. FROM	TO	CHECK LAB	REGION
27. Percent Solids Determination Log	95	98	✓	
28. Traffic Report	N/A	N/A	–	
29. Region Shipping/Receiving Documents			–	
Airbill (No. of Shipments ____)	N/A	N/A	–	
Chain-of-Custody Records	6	7	✓	
Sample Tags	N/A	N/A	–	
Sample Log-In Sheet (Lab & DCI)	N/A	N/A	–	
SDG Cover Sheet	N/A	N/A	–	
30. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	N/A	N/A	–	
	N/A	N/A	–	
	N/A	N/A	–	
31. Internal Lab Sample Transfer Records & Tracking sheets (describe or list)	8	11	✓	
	N/A	N/A	–	
	N/A	N/A	–	
32. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	N/A	N/A	–	
Analysis Records	N/A	N/A	–	
Description	N/A	N/A	–	
33. Other Records (describe or list)				
Telephone Communication Log	N/A	N/A	–	
	N/A	N/A	–	
	N/A	N/A	–	

34. Comments:

Completed by : Nancy F. Cole (Lab) (Signature) Nancy F. Cole Inorganics Manager (Print Name & Title) 9/25/96 (Date)

Audited by : ____ (Region) (Signature) ____ (Print Name & Title) ____ (Date)

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

ıa. ame: ACCUTEST_____ Contract: NA_____

ıab Code: _____ Case No.: AN____ SAS No.: NA____ SDG No.: E14601/E14602

ɜOW No.: 3/90_

Client Sample No.	Lab Sample ID
SR-BIN-SED	E14602-3
SR-CLAR-SED	E14602-2
SR-PE-1	E14601-1
SR-PE-2	E14601-2
SR-20-PS	E14602-1

ʼere ICP interelement corrections applied ? Yes/No YES

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

ɔomments:

SEE_CONFORMANCE_SUMMARY_FOR_COMMENTS.

: certify that this data package is in compliance with the terms and ɔonditions of the contract, both technically and for completeness, for ɔther than the conditions detailed above. Release of the data contained .n this hardcopy data package ~~and in the computer readable data submitted on floppy diskette~~ has been authorized by the Laboratory Manager or the ʼanager's designee, as verified by the following signature. 9/24

ɜignature: Nancy F. Cole Name: Nancy F. Cole

ɔate: Sept. 24, 1996 Title: Inorganics Manager

COVER PAGE - IN ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-PE-1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14601-1

Level (low/med): LOW Date Received: 09/17/96

% Solids: 89.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	15.4		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-PE-2

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14601-2

Level (low/med): LOW Date Received: 09/17/96

% Solids: 92.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	176		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: YELLOW/BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-20-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-1

Level (low/med): LOW Date Received: 09/17/96

% Solids: 87.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.6		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-2

Level (low/med): LOW Date Received: 09/17/96

% Solids: 22.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	6.6		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-BIN-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601

Matrix (soil/water): SOIL Lab Sample ID: E14602-3

Level (low/med): LOW Date Received: 09/17/96

% Solids: 88.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	59.8		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.E14601/E1460

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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
[illegible]ium									NR
[illegible]omium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	982.56	98.3	2000.0	1908.77	95.4	1919.43	96.0	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ıab Name: ACCUTEST_____ Contract: NA_____

ıab Code: _____ Case No.: AN____ SAS No.: NA____ SDG No.E14601/E1460

nitial Calibration Source: SPEX/US/QC-1

ontinuing Calibration Source: SPEX/US/QC-1

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
C[illegible]ium									NR
[illegible]ium									NR
C[illegible]omium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				2000.0	1896.03	94.8	1898.93	94.9	P
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

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.E14601/E14602

AA CRDL Standard Source:

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	5.41	90.2	5.52	92.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No. E14601/E14602

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	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.E14601/E14602

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
P ium											NR
l llium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.0	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILM02.1

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No: NA SDG No.E14601/E14602

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	452256	449119.8	89.8	449397	449279.2	89.9
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	413854	413657.4	82.7	412676	411702.6	82.3
Chromium								
Cobalt								
Copper								
Iron	200000	200000	183560	183386.4	91.7	183072	182984.6	91.5
Lead	0	1000	-1	900.5	90.0	-2	885.2	88.5
Magnesium	500000	500000	500340	498466.1	99.7	500407	499085.0	99.8
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

SR-BIN-SEDS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.E14601/E1460

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

% Solids for Sample: 88.1

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	75-125	145.6322		59.7707		113.51	75.6		P
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:

FORM V (Part 1) - IN ILM02.1

6
DUPLICATES

CLIENT SAMPLE NO.

SR-BIN-SEDD

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: AN SAS No.: NA SDG No. E14601/E14602

atrix (soil/water): SOIL Level (low/med): LOW

Solids for Sample: 88.1 % Solids for Duplicate: 88.1

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		59.7707		108.6674		58.1	*	P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

7

LABORATORY CONTROL SAMPLE

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: AN____ SAS No.: NA____ SDG No. E14601/E146C

Solid LCS Source: EPA 228_____

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				70.4	63.3		37.3	100.0	89.9
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

SR-BIN-SEDL

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.E14601/E146C

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							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	263.29		258.26		1.9		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN

13
PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No.: E14601/E14602

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS-9-17	09/17/96	1.00	200
PBS-9-17	09/17/96	1.00	200
SR-20-PS	09/17/96	1.00	200
SR-BIN-SED	09/17/96	1.00	200
SR-BIN-SEDD	09/17/96	1.00	200
SR-BIN-SEDS	09/17/96	1.00	200
SR-CLAR-SED	09/17/96	1.00	200
SR-PE-1	09/17/96	1.00	200
SR-PE-2	09/17/96	1.00	200

FORM XIII - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: AN____

SAS No.: NA____ SDG No.:E14601/2

Instrument ID Number: TJA TRACE-Y__

Method: P_

Start Date: 09/17/96

End Date: 09/17/96

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
STANDARD A	1.00	1700		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
STANDARD B	1.00	1705		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
SNANDARD C	1.00	1709		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
STANDARD D	1.00	1712		_	_	X	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	_	X	X	_	X	_
STANDARD E	1.00	1716		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_
STANDARD F	1.00	1719		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_
STANDARD G	1.00	1721		X	_	_	_	_	_	X	_	_	_	X	_	X	_	_	_	X	_	_	X	_	_	_	_
ICV-1	1.00	1729		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB-1	1.00	1733		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV-1	1.00	1738		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
[illegible]-1	1.00	1742		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
[illegible]-1A	1.00	1750		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-1	1.00	1755		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICSA-1	1.00	1759		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
ICSAB-1	1.00	1804		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
CCV-2	1.00	1809		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-2	1.00	1813		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
PBS-9-17	1.00	1827		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSS-9-17	1.00	1832		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SEDD	1.00	1837		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SEDS	1.00	1841		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SED	1.00	1846		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SEDL	5.00	1850		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-PE-1	1.00	1855		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-PE-2	1.00	1900		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-20-PS	1.00	1904		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV-3	1.00	1909		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-3	1.00	1913		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-CLAR-SED	1.00	1918		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SEDD	1.00	1924		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SEDA	1.00	1928		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI-2A	1.00	1933		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_

FORM XIV - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: AN____

SAS No.: NA____ SDG No.E14601/E14602

Instrument ID Number: TJA TRACE-Y__

Method: P_

Start Date: 09/17/96

End Date: 09/17/96

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
CRI-2	1.00	1938																									
ICSA-2	1.00	1942		X						X				X	X	X											
ICSAB-2	1.00	1947		X						X				X	X	X											
CCV-4	1.00	1951													X												
CCB-4	1.00	1956													X												

FORM XIV - IN ILMO2.1

Instrument Detection Limits (Quarterly)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No. E14601/E14602

ICP ID Number: TJA_TRACE-Y_ Date: 06/20/96

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	22.0	P
Antimony	206.83		60	2.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	0.3	P
Beryllium	313.04		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	66.0	P
Chromium	267.72		10	0.7	P
Cobalt	228.62		50	0.7	P
Copper	324.75		25	0.7	P
Iron	271.44		100	24.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	15.0	P
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	15.0	P
Selenium	196.02		5	3.0	P
Silver	328.07		10	0.7	P
Sodium	588.99		5000	9.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		50	0.6	P
Zinc	213.86		20	1.0	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: AN SAS No.: NA SDG No. E14601/E14602

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AL
Aluminum	308.22	0.0000000	-0.0002400	-0.0001200	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000280	0.0000000	0.0000100
Arsenic	189.04	0.0000080	0.0000000	-0.0000100	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000060	0.0000000	0.0001550	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000030	0.0000000	-0.0000200	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000160	0.0000000	0.0000000	0.0000020	0.0000000
Iron	271.44	-0.0004800	-0.0000200	0.0000000	0.0000210	0.0000000
Lead	220.35	0.0004640	-0.0000100	0.0000570	0.0000020	-0.0002000
Magnesium	279.08	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Manganese	257.61	0.0000060	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000100	-0.0000400	0.0000000	0.0000070
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	-0.0008200	0.0000000	0.0000000	0.0000000	0.0009320
Thallium	190.86	0.0000000	-0.0000300	-0.0001000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000190	0.0000010	0.0001120	0.0000020	0.0000000

Comments: Be, Cd, Cr, Cu, Zn, As, Tl, Pb, Sb, Se modified 9/5/96; Mn, Ag modified 7/12; V modified 5/20.

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No. E14601/E14602

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CA	CO	CR	CR	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0127200	0.0074840	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	-0.0000800	0.0000000	0.0000570
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
pper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
on	271.44	0.0000000	0.0816000	0.0000000	-0.0000200	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0006240
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	-0.0000200	0.0000610	0.0000180	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0001450	0.0000000	-0.0000600
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0025200	0.0002920	0.0000000	-0.0000400
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0000800	0.0000030	0.0000000	0.0003820

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: AN____ SAS No.: NA____ SDG No. E14601/E14602

ICP ID Number: TJA TRACE-Y_ Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU_	FE_	MG_	MN_	MN_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000250	0.0000020	0.0000000	0.0000830
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001240
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0003700	0.0000000	0.0000000
Lead	220.35	-0.0000600	0.0000760	0.0000000	0.0001180	-0.0000600
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	0.0000000	-0.0002700	0.0000000	0.0001840	-0.0000800
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000090
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0007190
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: AN____ SAS No.: NA____ SDG No. E14601/E14602

ICP ID Number: TJA TRACE-Y_ Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : NI_	NI_	V__	V__	___
Aluminum	308.22	0.0000000	0.0000000	0.0030800	0.0000000	
Antimony	206.83	-0.0010600	0.0000000	0.0001110	-0.0068400	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001290	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	-0.0017200	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0002960	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0040000	
[illegible]n	271.44	0.0000000	0.0000000	0.0000000	0.0083200	
[illegible]d	220.35	0.0003510	0.0000180	-0.0012000	0.0002820	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001300	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0001520	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	0.0000000	0.0000000	0.0000150	0.0000000	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001980	
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	-0.0000900	0.0000000	0.0014400	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0042700	0.0000000	0.0002620	

Comments:

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: AN SAS No.: NA SDG No. E14601/E14602

ICP ID Number: TJA TRACE-Y Date: 06/25/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	50000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	1000000.0	P
Chromium	10.00	50000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	50000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	750000.0	P
Thallium	10.00	50000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Sep 18 1996, 03:00 pm

File ID: IC0917S1.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/17/96
Run ID: MA2273

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:29	MA2273-ICV1	1		
17:33	MA2273-ICB1	1		
17:38	MA2273-CCV1	1		
17:42	MA2273-CCB1	1		
17:50	MA2273-CRIA1	1		
17:55	MA2273-CRI1	1		
17:59	MA2273-ICSA1	1		
18:04	MA2273-ICSAB1	1		
18:09	MA2273-CCV2	1		
18:13	MA2273-CCB2	1		
18:27	MP2748-MB1	1		PBS-9-17
18:32	MP2748-LC1	1		LCSS-9-17
18:37	MP2748-D1	1		E14602-3D
18:41	MP2748-S1	1		E14602-3S
18:46	E14602-3	1		
18:50	MP2748-SD1	5		E14602-3L
18:55	E14601-1	1		
19:00	E14601-2	1		
19:04	E14602-1	1		
19:09	MA2273-CCV3	1		
19:13	MA2273-CCB3	1		
19:18	E14602-2	1		
19:24	MP2748-D1	1		E14602-3D Run for confirmation only.
19:28	ZZZZZZ	1		E14602-3PS Post digestion spike=0.5ml of 10ppm Pb into 10ml FV.
19:33	MA2273-CRIA2	1		
19:38	MA2273-CRI2	1		
19:42	MA2273-ICSA2	1		
19:47	MA2273-ICSAB2	1		
19:51	MA2273-CCV4	1		
19:56	MA2273-CCB4	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00002	-.00033	-.00004	-.00010	.00001	.00079	.00005
SDev	.00000	.00001	.00002	.00005	.00003	.00001	.00001
%RSD	7.1777	2.8378	61.385	47.342	214.55	1.7864	10.687
	.00002	-.00032	-.00002	-.00015	-.00001	.00077	.00004
#2	.00002	-.00034	-.00007	-.00006	.00004	.00079	.00005
#3	.00002	-.00034	-.00003	-.00008	.00001	.00080	.00005

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.00114	.00003	-.00011	.00012	-.00000	-.00075	.00108
SDev	.00002	.00003	.00000	.00001	.00007	.00028	.00040
%RSD	1.3090	95.948	.99662	6.1812	6750.4	37.568	36.810
#1	.00113	.00005	-.00011	.00013	.00007	-.00077	.00135
#2	.00116	.00002	-.00011	.00013	-.00008	-.00102	.00126
#3	.00114	.00000	-.00011	.00011	-.00004	-.00046	.00063

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	-.00019	-.00099	.00004	-.00023	.00065	.00323	.00002
SDev	.00009	.00041	.00015	.00004	.00012	.00004	.00000
%RSD	45.013	41.191	362.11	16.672	18.992	1.2219	.48842
#1	-.00027	-.00125	.00022	-.00023	.00070	.00319	.00002
#2	-.00020	-.00120	-.00007	-.00020	.00074	.00325	.00002
#3	-.00010	-.00052	-.00002	-.00027	.00051	.00324	.00002

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00017	.00007	.00006	.00010	.00036
SDev	.00001	.00005	.00003	.00003	.00001
%D	8.1284	63.723	55.419	24.239	2.4933
#1	.00017	.00002	.00002	.00009	.00035
#2	.00018	.00011	.00008	.00009	.00037
#3	.00015	.00008	.00007	.00013	.00037

IntStd	1	2	3	4	5	6	7

Elem		--					--
Wavlen	371.030	--	--	--	--	--	--
Avge	440949	--	--	--	--	--	--
SDev	2159.744	--	--	--	--	--	--
%RSD	.4897949	--	--	--	--	--	--
	443441	--	--	--	--	--	--
	439778	--	--	--	--	--	--

#3	439627	--	--	--	--	--	--

Method: EPA3 Standard: STDB

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00410	.04273	.09873	.03312	.02164	.01900	.01454
SDev	.00015	.00156	.00347	.00114	.00084	.00064	.00053
%RSD	3.5516	3.6547	3.5131	3.4370	3.8720	3.3775	3.6546
#1	.00419	.04379	.10117	.03385	.02222	.01940	.01489
#2	.00393	.04093	.09476	.03181	.02068	.01826	.01393
#3	.00417	.04346	.10026	.03370	.02203	.01935	.01481

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Avge	.03419	.00408	.00386	.00968	.02137	.04605	.06602
SDev	.00118	.00013	.00014	.00035	.00068	.00133	.00176
%RSD	3.4448	3.2582	3.7265	3.6546	3.1859	2.8827	2.6582
#1	.03503	.00417	.00395	.00993	.02179	.04681	.06716
#2	.03284	.00393	.00369	.00928	.02059	.04451	.06400
#3	.03469	.00414	.00393	.00984	.02174	.04662	.06689

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.04886	.05814	.03541	.01258	.03384	.04279	.00105
SDev	.00157	.00197	.00082	.00028	.00104	.00147	.00004
%RSD	3.2134	3.3883	2.3253	2.2678	3.0855	3.4275	3.6442
#1	.05023	.05979	.03597	.01269	.03447	.04369	.00108
#2	.04715	.05596	.03446	.01226	.03263	.04109	.00101
#3	.04919	.05868	.03579	.01280	.03441	.04357	.00107

Elem	Fe2714	Mg2790	Na5889
Avge	.03952	.03314	.00204
SDev	.00149	.00118	.00008
%RSD	3.7590	3.5645	4.0026
#1	.04049	.03393	.00210
#2	.03781	.03178	.00194
#3	.04027	.03371	.00207

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	435041	--	--	--	--	--	--
S	12655.02	--	--	--	--	--	--
%RSD	2.908929	--	--	--	--	--	--
#1	427425	--	--	--	--	--	--
#2	449649	--	--	--	--	--	--
#3	428048	--	--	--	--	--	--

Method: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00844	.08863	.20491	.06904	.04499	.03851	.03018
SDev	.00027	.00256	.00582	.00203	.00134	.00124	.00089
%RSD	3.1983	2.8914	2.8399	2.9445	2.9846	3.2181	2.9526
#1	.00832	.08748	.20246	.06806	.04431	.03791	.02978
#2	.00875	.09157	.21156	.07137	.04654	.03994	.03121
#3	.00826	.08685	.20072	.06768	.04413	.03769	.02957

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.07005	.00844	.00812	.02001	.04470	.09680	.13515
SDev	.00199	.00022	.00025	.00056	.00123	.00254	.00323
%RSD	2.8435	2.5952	3.0697	2.8197	2.7512	2.6273	2.3888
#1	.06906	.00831	.00800	.01976	.04402	.09569	.13328
#2	.07234	.00870	.00840	.02066	.04612	.09971	.13868
#3	.06873	.00833	.00795	.01962	.04397	.09501	.13329

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Avge	.10215	.12195	.07364	.02641	.06970	.07220	.00182
SDev	.00371	.00477	.00205	.00072	.00247	.00243	.00005
%RSD	3.6373	3.9088	2.7786	2.7243	3.5433	3.3712	2.7421
#1	.10046	.12011	.07249	.02594	.06832	.07102	.00180
#2	.10641	.12737	.07600	.02724	.07256	.07500	.00186
#3	.09958	.11839	.07242	.02605	.06824	.07059	.00178

Elem	Fe2714	Mg2790	Na5889
Avge	.06888	.05827	.00344
SDev	.00209	.00175	.00010
%RSD	3.0381	3.0054	2.7573
#1	.06797	.05743	.00340
#2	.07127	.06028	.00354
#3	.06739	.05709	.00336

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Avge	423361	--	--	--			
SDev	10376.18	--	--	--	--	--	--
%RSD	2.450905	--	--	--	--	--	--
#1	429322	--	--	--	--	--	--
#2	411380	--	--	--	--	--	--
#3	429382	--	--	--	--	--	--

Method: EPA3 Standard: STDD

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.04175	.45043	1.0177	.34718	.22586	.18739	.15181
SDev	.00279	.02984	.0649	.02204	.01469	.01171	.00973
%RSD	6.6698	6.6239	6.3794	6.3472	6.5062	6.2483	6.4119
#1	.04496	.48488	1.0926	.37262	.24283	.20091	.16305
#2	.04014	.43335	.97939	.33423	.21727	.18059	.14609
#3	.04015	.43306	.98102	.33468	.21748	.18066	.14629

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.34652	.12878	.22250	.49019	.66772	.50188	.13264
SDev	.02190	.01159	.01402	.02991	.03416	.02120	.00629
%RSD	6.3190	8.9984	6.3008	6.1014	5.1158	4.2233	4.7396
#1	.37181	.13687	.23868	.52472	.70717	.52632	.13990
#2	.33381	.13397	.21432	.47273	.64803	.48868	.12867
#3	.33395	.11551	.21448	.47311	.64797	.49063	.12915

Elem	1960/2	Na5889
Avge	.33966	.03597
SDev	.01423	.00202
%RSD	4.1886	5.6092
#1	.35606	.03830
#2	.33067	.03480
#3	.33224	.03482

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	417129	--	--	--	--	--	--
SDev	20944.88	--	--	--	--	--	--
%RSD	5.021204	--	--	--	--	--	--
#1	392952	--	--	--	--	--	--
#2	428665	--	--	--	--	--	--
#3	429769	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Ag3280	2068/1	2068/2
Avge	.05035	.72125	.44691
SDev	.00038	.02834	.00454

#1	.05078	.69425	.45204
#2	.05013	.73407	.44340
#3	.05013	.73542	.44529

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	426241	--	--	--	--	--	--
SDev	3976.759	--	--	--	--	--	--
%RSD	.9329845	--	--	--	--	--	--
#1	421654	--	--	--	--	--	--
#2	428725	--	--	--	--	--	--
#3	428343	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.04224
V	.00135
D	3.2053
#1	.04285
#2	.04318
#3	.04069

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	414830	--	--	--	--	--	--
SDev	13774.92	--	--	--	--	--	--
%RSD	3.320617	--	--	--	--	--	--
#1	404277	--	--	--	--	--	--
#2	409800	--	--	--	--	--	--
#3	430413	--	--	--	--	--	--

Method: EPA3 Standard: STDG

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.52996	.01368	.51848	.45770	.10918	.02775
SDev	.00321	.00007	.00325	.00272	.00022	.00010
%RSD	.60545	.49086	.62676	.59448	.19889	.35821
#1	.52627	.01362	.51497	.45483	.10895	.02764
#2	.53212	.01375	.52138	.46025	.10920	.02780
#3	.53147	.01367	.51909	.45800	.10939	.02782

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
		--	--	--	--	--	--

Avge	428119	--	--	--			
SDev	2214.683	--	--	--	--	--	--
%RSD	.5173058	--	--	--	--	--	--
#1	430630	--	--	--	--	--	--
#2	426445	--	--	--	--	--	--
	427281	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/17/96 17:29:08
Comment: 2
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0038	.98113	.98357	.98490	.98198	.96978	.98802
SDev	.0021	.00066	.00092	.00025	.00094	.00227	.00079
%RSD	.21122	.06718	.09358	.02546	.09599	.23393	.07993
#1	1.0057	.98174	.98428	.98464	.98278	.97188	.98892
#2	1.0015	.98123	.98389	.98491	.98221	.96737	.98766
	1.0042	.98043	.98253	.98515	.98094	.97008	.98747
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97581	0.44161	.97235	0.88257	0.93742	.95073	.98637
SDev	.00068	.00094	.00069	.00053	.00162	.00224	.00402
%RSD	.07001	.21297	.07100	.06232	.17241	.23534	.40764
#1	.97598	0.44270	.97287	0.88316	0.93581	.95169	.99072
#2	.97506	0.44107	.97156	0.88248	0.93740	.95232	.98278
#3	.97639	0.44107	.97261	0.88207	0.93905	0.94817	.98362
Errors	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98062	.90428	.89134	.95913	.95607	1.0422	1.0081
SDev	.00067	.00167	.00460	.00540	.00243	.0042	.0037
%RSD	.06868	.18473	.51639	.56340	.25428	.39850	.36395
	.97991	.90236	.89252	.96162	.95551	1.0461	1.0118
#2	.98125	.90536	.88627	.96285	.95873	1.0427	1.0080
#3	.98071	.90514	.89524	.95293	.95396	1.0378	1.0045
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						1.0000	1.0000
Range						5.0000	5.0000

Units	ppm	ppm	ppm	ppm	[illegible]	[illegible]	
Avge	1.0187	.96141	Q1.1784	.95005	.98256	.95712	Q.89567
SDev	.0069	.00485	.0062	.00709	.00089	.00326	.00296
%RSD	.68188	.50478	.52805	.74627	.09065	.34096	.33051
	1.0263	.96086	Q1.1833	.95823	.98353	.95758	Q.89582
	1.0128	.96652	Q1.1806	Q.94608	.98178	.96013	Q.89264
#3	1.0169	.95686	Q1.1714	Q.94583	.98237	.95366	Q.89855
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	427526	--	--	--	--	--	--
SDev	1426.509	--	--	--	--	--	--
%RSD	.3336660	--	--	--	--	--	--
	426078	--	--	--	--	--	--
	427570	--	--	--	--	--	--
#3	428930	--	--	--	--	--	--

Method: EPA3 Sample Name: ICB Operator:
Run Time: 09/17/96 17:33:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00032	.00077	.00051	.00049	.00157	.00054
SDev	.00013	.00018	.00021	.00032	.00054	.00005	.00011
%RSD	48.074	55.121	27.807	61.911	110.60	3.3229	20.525
#1	.00018	.00053	.00101	.00021	-.00010	.00154	.00066
#2	.00043	.00026	.00070	.00084	.00097	.00163	.00050
#3	.00022	.00018	.00060	.00048	.00060	.00154	.00045
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	-.00000	.00078	-.00260	-.00015	.00056	-.00414
SDev	.00113	.00009	.00056	.00020	.00115	.00084	.0011[illegible]
%RSD	241.76	22558.	71.667	7.7197	768.52	150.88	28.446
#1	-.00049	.00001	.00141	-.00241	-.00139	.00093	-.00366
#2	.00172	-.00009	.00061	-.00257	.00005	-.00041	-.00328
#3	.00018	.00009	.00033	-.00281	.00089	.00114	-.00548

Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00238	.00399	.00049	-.00060	-.00076	.01001	-.00413
SDev	.00026	.00145	.00081	.00099	.00174	.00625	.00699
%RSD	10.713	36.261	165.75	165.02	229.51	62.436	169.41
#1	.00264	.00567	.00112	-.00135	-.00009	.00288	-.00069
#2	.00237	.00320	.00077	-.00097	.00055	.01262	.00048
#3	.00213	.00311	-.00043	.00052	-.00274	.01453	-.01217
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00890	.00622	.00248	-.00155	.00023	-.00069	.00167
SDev	.00534	.00535	.02708	.00233	.00053	.00087	.00094
%RSD	59.947	85.933	1093.2	150.48	228.99	125.33	56.322
	.01336	.00125	-.02868	.00068	.00057	-.00049	.00265
#2	.01037	.01188	.02037	-.00136	.00051	.00006	.00150
#3	.00299	.00554	.01574	-.00397	-.00038	-.00164	.00077
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
Intstd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	438027	--	--	--	--	--	--
SDev	4220.590	--	--	--	--	--	--
%RSD	.9635465	--	--	--	--	--	--
#1	442669	--	--	--	--	--	--
#2	436990	--	--	--	--	--	--
#3	434421	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/17/96 17:38:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9284	1.9032	Q1.8999	1.9136	1.9105	1.9723	1.9236
SDev	.0004	.0077	.0068	.0062	.0059	.0017	.0054
%RSD	.02283	.40580	.35639	.32215	.30748	.08772	.28222
	[illegible]	[illegible]	[illegible]	1.9197	1.9168	1.9704	1.9234

#3	1.9279	Q1.8962	Q1.8942	1.9074	[illegible]	[illegible]	[illegible]

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9147	Q.22187	1.9591	Q1.6946	1.9320	1.9116	1.9155
SDev	.0045	.00033	.0048	.0050	.0055	.0007	.0045
%RSD	.23408	.14918	.24374	.29291	.28538	.03633	.23249
#1	1.9182	Q.22225	1.9636	Q1.6998	1.9383	1.9110	1.9203
#2	1.9163	Q.22166	1.9595	Q1.6941	1.9290	1.9124	1.9147
#3	1.9097	Q.22169	1.9541	Q1.6899	1.9285	1.9115	1.9115

Errors	QC Pass	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
e	1.9054	1.8141	1.7824	1.9330	1.9096	39.466	39.097
.v	.0126	.0046	.0026	.0119	.0121	.030	.162
%RSD	.65985	.25107	.14748	.61534	.63276	.07533	.41442
#1	1.9198	1.8189	1.7839	1.9439	1.9217	39.432	39.271
#2	1.8993	1.8135	1.7839	1.9348	1.9095	39.479	39.072
#3	1.8969	1.8099	1.7793	1.9203	1.8976	39.487	38.950

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.830	39.428	Q37.437	39.780	1.9088	1.9174	Q1.7929
SDev	.129	.094	.062	.051	.0098	.0120	.0031
%RSD	.33322	.23824	.16636	.12782	.51487	.62556	.17273
#1	38.959	39.525	Q37.508	39.816	1.9200	1.9291	Q1.7955
#2	38.830	39.422	Q37.392	39.802	1.9046	1.9180	Q1.7938
#3	38.700	39.337	Q37.411	39.722	1.9018	1.9051	Q1.7895

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
tStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	429013	--	--	--	--	--	--
SDev	875.5400	--	--	--	--	--	--
%RSD	.2040826	--	--	--	--	--	--

#2	429003	--	--	--	--	--	
#3	428142	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
R[illegible] Time: 09/17/96 17:42:55
C[illegible]ent:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00043	.00087	.00028	.00028	.00167	.00059
SDev	.00012	.00023	.00025	.00064	.00065	.00034	.00016
%RSD	42.476	52.317	28.887	227.43	230.11	20.124	26.838
#1	.00022	.00067	.00114	-.00046	-.00047	.00206	.00076
#2	.00042	.00041	.00084	.00068	.00064	.00149	.00056
#3	.00021	.00022	.00064	.00062	.00068	.00147	.00045
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	.00500	.00500	.05000	.01000	.02500	.01500

[illegible]lem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00045	-.00020	.00060	-.00242	-.00010	.00163	-.00345
SDev	.00090	.00009	.00036	.00021	.00063	.00146	.00198
%RSD	197.97	47.334	60.242	8.5842	623.51	89.437	57.302
#1	-.00094	-.00009	.00101	-.00238	.00034	.00229	-.00329
#2	.00058	-.00028	.00041	-.00223	-.00082	.00265	-.00136
#3	-.00100	-.00022	.00036	-.00264	.00018	-.00004	-.00370
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.03000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00208	.00303	.00205	.00055	-.00190	.01157	.00063
SDev	.00225	.00199	.00037	.00427	.00219	.00040	.00033
%RSD	108.22	65.624	17.949	774.02	115.18	3.4170	52.596
#1	.00431	.00527	.00164	.00424	-.00234	.01188	.00092
#2	-.00018	.00240	.00234	.00155	.00047	.01112	.00027
#3	.00210	.00143	.00217	-.00413	-.00384	.01170	.00069
[illegible]rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
[illegible]alue						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Se[illegible]68
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00911	.00557	.00944	.00617	.00026	-.00107	.00239
SDev	.00630	.01214	.01698	.00587	.00085	.00252	.00046
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.354

#1	.01619	-.00782	-.00721	[illegible]	[illegible]		
#2	.00411	.01584	.02673	.00573	-.00055	.00085	.00238
#3	.00702	.00870	.00879	.00053	.00019	-.00392	.00194
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	436314	--	--	--	--	--	--
SDev	1569.592	--	--	--	--	--	--
%RSD	.3597389	--	--	--	--	--	--
#1	434927	--	--	--	--	--	--
#2	438018	--	--	--	--	--	--
#3	435998	--	--	--	--	--	--

M [illegible]od: EPA3 Sample Name: CRIA Operator:
R Time: 09/17/96 17:50:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	-.00004	.00020	-.00004	.00083	.00145	.00012
SDev	.00000	.00003	.00014	.00033	.00038	.00037	.00004
%RSD	.89369	74.660	67.602	867.93	46.560	25.736	29.974
#1	.00025	-.00001	.00036	.00028	.00116	.00184	.00016
#2	.00025	-.00004	.00015	-.00038	.00041	.00110	.00010
#3	.00025	-.00007	.00010	-.00002	.00091	.00141	.00010
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	-.00021	-.00061	-.00186	.01733	.02125	.00542
SDev	.00045	.00040	.00047	.00005	.00100	.00094	.00239
%RSD	171.59	193.35	76.337	2.8924	5.7437	4.4206	44.057
#1	-.00042	.00025	-.00008	-.00184	.01702	.02146	.00810
#2	-.00061	-.00046	-.00100	-.00183	.01653	.02023	.00459
#3	.00025	-.00041	-.00074	-.00193	.01844	.02207	.00355
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .02000 30.000	QC Pass .02000 30.000	NOCHECK

[illegible]	[illegible]	[illegible]	[illegible]	196071	196072	Al3082	Ca3179

Avge	.00537	.00874	.00739	.00742	[illegible]	[illegible]	[illegible]
SDev	.00124	.00019	.00075	.00238	.00240	.00263	.00776
%RSD	23.009	2.1653	9.9225	32.142	23.138	12.064	120.69
#1	.00410	.00862	.00843	.00789	.00823	.02438	.00253
#2	.00545	.00896	.00697	.00953	.01298	.02196	-.01082
#3	.00657	.00865	.00736	.00483	.00996	.01912	-.01100
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00937	-.01132	.00797	.03566	.00541	.00942	.00799
SDev	.00647	.00508	.00457	.00047	.00021	.00211	.00046
%RSD	69.048	44.830	57.364	1.3127	3.8034	22.361	5.7154
#1	.01651	-.00570	.00626	.03603	.00546	.00813	.00851
#2	.00391	-.01270	.00450	.03582	.00519	.01184	.00765
#3	.00768	-.01557	.01315	.03513	.00559	.00827	.00781
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	427572	--	--	--	--	--	--
SDev	472.2387	--	--	--	--	--	--
%RSD	.1104465	--	--	--	--	--	--
#1	427465	--	--	--	--	--	--
#2	427163	--	--	--	--	--	--
#3	428089	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/17/96 17:55:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37238	.00913	.00951	.09411	.01965	.04815	.02798
SDev	.00663	.00009	.00020	.00123	.00009	.00107	.00046
%RSD	1.7799	.93628	2.1143	1.3023	.43074	2.2262	1.6435
#1	.36557	.00907	.00931	.09275	.01956	.04694	.02753
#2	.37276	.00909	.00952	.09448	.01968	.04849	.02796
#3	.37881	.00923	.00971	.09512	.01972	.04900	.02845
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07237	.01740	.09369	.03221	.18665	.18282	.18700
SDev	.00105	.00009	.00123	.00053	.00303	.00358	.00268
%RSD	1.4414	.53526	1.3173	1.6621	1.6248	1.9597	1.4357
#1	.07236	.01732	.09234	.03171	.18421	.17925	.18409
#2	.07218	.01736	.09396	.03215	.18569	.18279	.18754
#3	.07408	.01750	.09476	.03278	.19004	.18642	.18938
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18757	.10712	.10331	.17718	.18531	.01569	-.00191
SDev	.00129	.00057	.00160	.00303	.00292	.00567	.00776
%RSD	.68696	.53374	1.5522	1.7103	1.5753	36.132	405.92
#1	.18660	.10663	.10169	.17726	.18233	.00929	.00112
#2	.18709	.10775	.10334	.17411	.18544	.01770	-.01073
#3	.18903	.10697	.10490	.18017	.18817	.02007	.00388
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00901	-.01245	.01834	.06708	.18741	.18262	.10459
SDev	.00775	.00353	.00551	.00124	.00170	.00256	.00114
%RSD	86.050	28.359	30.032	1.8429	.90665	1.4029	1.0942
#1	.01007	-.00863	.01746	.06569	.18578	.18066	.10333
#2	.00078	-.01559	.01332	.06750	.18726	.18168	.10462
#3	.01618	-.01313	.02424	.06805	.18917	.18552	.10561
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	427365	--	--	--	--	--	--
SDev	6311.372	--	--	--	--	--	--
%RSD	1.476811	--	--	--	--	--	--
#1	433988	--	--	--	--	--	--
#2	426687	--	--	--	--	--	--
#3	421420	--	--	--	--	--	--

Run Time: 05/17/96 17:55:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00758	-.00019	.00236	.00089	.00016	-.00660	-.00031
SDev	.00015	.00006	.00017	.00027	.00043	.00007	.00007
%RSD	2.0410	32.031	7.2696	29.920	267.62	1.1348	22.593
#1	.00770	-.00026	.00254	.00118	.00050	-.00657	-.00035
#2	.00764	-.00016	.00231	.00081	.00031	-.00655	-.00023
#3	.00741	-.00016	.00221	.00067	-.00032	-.00669	-.00035
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00106	-.00023	-.00205	-.00632	.00154	0.00810	.00294
SDev	.00049	.00036	.00059	.00011	.00191	.00068	.00417
%RSD	46.525	156.30	28.627	1.7725	124.25	8.3755	141.72
#1	-.00050	-.00019	-.00266	-.00641	.00374	0.00861	.00360
#2	-.00122	.00011	-.00199	-.00620	.00031	0.00836	.00675
#3	-.00145	-.00061	-.00149	-.00636	.00057	0.00733	-.00152
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00313	.00205	-.00156	-.00170	.00380	452.26	413.65
SDev	.00227	.00284	.00155	.00352	.00523	9.62	7.91
%RSD	72.619	138.34	98.892	207.26	137.58	2.1273	1.9115
#1	-.00321	.00049	-.00269	-.00140	-.00014	463.36	422.92
#2	-.00535	.00034	.00020	.00167	.00181	447.06	410.31
#3	-.00081	.00533	-.00220	-.00536	.00973	446.35	408.34
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.56	500.34	.02101	-.40443	-.00108	.00199	-.00034
SDev	3.69	9.96	.00648	.00838	.00020	.00264	.00110
%RSD	2.0080	1.9903	30.854	2.0731	18.060	132.88	321.57
#1	187.80	511.81	.02821	-.41411	-.00092	-.00054	-.00161
#2	181.79	495.32	.01916	-.39966	-.00130	.00178	.00026
#3	181.09	493.89	.01565	-.39951	-.00102	.00472	.00032

Value	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
E	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	404597	--	--	--	--	--	--
SDev	7363.745	--	--	--	--	--	--
%RSD	1.820018	--	--	--	--	--	--
#1	396095	--	--	--	--	--	--
#2	408935	--	--	--	--	--	--
#3	408762	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/17/96 18:04:29
Comment:
Mr : CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47840	.46544	.90028	.45369	.45553	.49488	.46091
SDev	.00039	.00121	.00255	.00120	.00130	.00070	.00103
%RSD	.08099	.25911	.28317	.26475	.28581	.14154	.22700
#1	.47871	.46671	.90279	.45454	.45691	.49420	.46195
#2	.47796	.46430	.89770	.45231	.45433	.49482	.45986
#3	.47852	.46533	.90036	.45421	.45534	.49560	.46092
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.89662	.88984	.45516	.83836	.97920	.91504	.91944
SDev	.00293	.00095	.00042	.00149	.00197	.00718	.00379
%RSD	.32721	.10716	.09275	.17748	.20161	.78478	.41172
#1	.89991	.89057	.45560	.83995	.97861	.90774	.92381
#2	.89569	.88876	.45476	.83700	.98140	.91531	.91734
#3	.89427	.89020	.45511	.83815	.97758	.92209	.91717
ors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NULCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	[illegible]3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.89101	.92251	.91033	.94376	.92690	449.12	413.66
SDev	.00537	.00151	.00143	.00560	.00989	.38	1.30

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#1	.88535	.92077	.91198	.94745	.92184	449.35	415.10
#2	.89190	.92335	.90949	.94653	.92056	448.69	412.59
#3	.89577	.92341	.90952	.93732	.93830	449.32	413.28
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.39	498.47	.00844	-.40713	.90050	.93253	.91440
SDev	.44	1.10	.01887	.00056	.00237	.00476	.00045
%RSD	.23914	.22143	223.65	.13838	.26331	.51053	.04947
#1	183.84	499.54	.02992	-.40675	.89818	.93038	.91493
#2	182.96	497.34	-.00545	-.40687	.90039	.92923	.91412
#3	183.36	498.51	.00084	-.40778	.90292	.93799	.91417

Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	20.000			20.000	20.000	20.000
IntStd	1	2	3	4	5	6	7
Type	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	408000	--	--	--	--	--	--
SDev	938.0087	--	--	--	--	--	--
%RSD	.2299039	--	--	--	--	--	--
#1	406934	--	--	--	--	--	--
#2	408369	--	--	--	--	--	--
#3	408698	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/17/96 18:09:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9111	1.9213	1.9036	1.9229	1.9250	1.9672	1.9350
SDev	.0042	.0054	.0060	.0031	.0040	.0063	.0032
%RSD	.21925	.27850	.31644	.16160	.20689	.32268	.16421
#1	1.9068	1.9268	1.9095	1.9252	1.9286	1.9603	1.9370
#2	1.9152	1.9211	1.9040	1.9242	1.9259	1.9729	1.9366
#3	1.9114	1.9161	Q1.8975	1.9194	1.9207	1.9684	1.9313
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2074
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9252	1.99141	1.9734	Q1.6940	1.9380	1.9161	1.9344

%RSD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
#1	1.9303	Q.22065	1.9741	Q1.6976	1.9361	1.9142	1.9360
#2	1.9274	Q.22126	1.9757	Q1.6953	1.9397	1.9233	1.9390
#3	1.9189	Q.22230	1.9703	Q1.6892	1.9382	1.9108	1.9278
Errors	QC Pass	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9119	1.8192	1.7860	1.9410	1.9070	39.460	39.403
SDev	.0069	.0075	.0040	.0041	.0056	.096	.191
%RSD	.36201	.41119	.22529	.20897	.29473	.24383	.48573

#1	1.9135	1.8164	1.7858	1.9364	1.9024	39.384	39.601
#2	1.9179	1.8276	1.7901	1.9432	1.9133	39.566	39.388
#3	1.9044	1.8135	1.7821	1.9436	1.9054	39.427	39.219
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.099	39.825	Q36.940	39.500	1.9194	1.9184	Q1.7971
SDev	.118	.126	.043	.177	.0066	.0048	.0051
%RSD	.30090	.31606	.11542	.44749	.34275	.24849	.28512
#1	39.208	39.923	Q36.936	39.425	1.9212	1.9137	Q1.7960
#2	39.115	39.869	Q36.985	39.702	1.9250	1.9233	Q1.8026
#3	38.974	39.683	Q36.900	39.374	1.9122	1.9181	Q1.7925
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Intsty	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	432564	--	--	--	--	--	--
SDev	719.4611	--	--	--	--	--	--
%RSD	.1663249	--	--	--	--	--	--
#1	433387	--	--	--	--	--	--
#2	432248	--	--	--	--	--	--
	432056	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:

Run Time: 09/17/96 18:13:43

Comment:

Mode: CONC Corr. Factor: 1

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	.00043	.00086	.00078	.00072	.00214	.00057
SDev	.00021	.00031	.00029	.00030	.00037	.00022	.00018
%RSD	52.020	72.109	33.548	39.266	51.080	10.514	31.701
#1	.00063	.00078	.00119	.00047	.00035	.00195	.00073
	.00041	.00035	.00075	.00108	.00108	.00208	.00061
#3	.00020	.00017	.00064	.00079	.00072	.00239	.00038
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	-.00024	.00032	-.00238	-.00086	.00391	-.00261
SDev	.00041	.00019	.00014	.00021	.00124	.00122	.00066
%RSD	111.22	79.729	45.061	8.6538	144.16	31.268	25.387
#1	.00081	-.00004	.00048	-.00216	.00038	.00434	-.00202
#2	.00000	-.00043	.00027	-.00241	-.00209	.00486	-.00249
#3	.00029	-.00025	.00021	-.00257	-.00086	.00253	-.00332
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00224	.00362	.00150	-.00025	-.00023	.04345	.05185
SDev	.00073	.00246	.00065	.00391	.00161	.02916	.03420
%RSD	32.760	68.023	43.656	1557.6	705.51	67.113	65.961
#1	.00156	.00544	.00075	.00269	.00043	.07707	.09070
#2	.00215	.00082	.00193	.00124	-.00206	.02820	.03858
#3	.00302	.00459	.00182	-.00469	.00095	.02507	.02627
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02118	.05151	.00244	.00418	.00065	-.00022	.00222
SDev	.00726	.01576	.03181	.00565	.00027	.00123	.00060
%RSD	34.276	30.602	1305.8	135.20	41.480	558.23	27.055
#1	.02924	.06953	-.03427	.01047	.00039	.00120	.00252
	.01514	.04474	.01980	.00258	.00062	-.00095	.00157
#3	.01918	.04026	.02178	-.00050	.00093	-.00091	.00276
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

Mode	%Counts	NoUsed	NoUsed	NoUsed	--		
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	440235	--	--	--	--	--	--
SDev	1387.460	--	--	--	--	--	--
%RSD	.3151632	--	--	--	--	--	--
#1	440848	--	--	--	--	--	--
#2	441211	--	--	--	--	--	--
#3	438647	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2748-MB1 Operator:
Run Time: 09/17/96 18:27:48
Comment:

Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00002	.00035	.00037	.00173	.00234	.00040
SDev	.00025	.00004	.00008	.00049	.00094	.00011	.00013
%RSD	107.41	156.72	24.063	129.84	54.129	4.5902	32.567
	.00049	.00001	.00034	.00061	.00274	.00237	.00055
#2	-.00001	-.00002	.00026	-.00018	.00089	.00222	.00032
#3	.00022	-.00007	.00043	.00070	.00156	.00243	.00033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00018	-.00065	-.00217	-.00004	.00008	.00025
SDev	.00013	.00075	.00038	.00024	.00116	.00281	.00270
%RSD	56.728	403.27	58.063	11.176	2707.0	3620.7	1069.9
#1	.00008	.00103	-.00107	-.00191	.00048	.00175	.00334
#2	.00027	-.00040	-.00053	-.00239	-.00137	-.00317	-.00167
#3	.00031	-.00007	-.00034	-.00222	.00076	.00166	-.00092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NoCheck
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	.00128	.00201	-.00506	.00266	.01732	.04596
SDev	.00161	.00258	.00185	.00266	.00178	.01033	.00969
%RSD	200.76	201.22	92.286	52.500	66.876	59.614	21.082
#1	-.00080	-.00165	.00412	-.00199	.00318	.02847	.05715
#2	.00242	.00229	.00066	-.00665	.00411	.00808	.04017
#3	.00078	.00320	.00125	-.00655	.00068	.01542	.04059
Errors	NoCheck	NoCheck	NoCheck	NoCheck	NoCheck	LC Pass	LC Pass

Low							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02123	.01710	.04387	.02168	.00064	.00010	.00178
SDev	.00382	.00569	.02209	.01145	.00042	.00164	.00051
%RSD	17.983	33.260	50.347	52.821	66.145	1613.2	28.764
#1	.02316	.02167	.06923	.03468	.00061	.00147	.00222
#2	.02369	.01073	.03350	.01730	.00108	.00055	.00122
#3	.01683	.01889	.02887	.01307	.00024	-.00171	.00191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	431702	--	--	--	--	--	--
SDev	6143.884	--	--	--	--	--	--
%RSD	1.423178	--	--	--	--	--	--
#1	424649	--	--	--	--	--	--
#2	435893	--	--	--	--	--	--
#3	434563	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2748-LC1 Operator:
Run Time: 09/17/96 18:32:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.73781	.57343	.39105	.49007	.31275	.80874	1.3151
SDev	.00095	.00176	.00147	.00197	.00099	.00011	.0040
%RSD	.12881	.30654	.37477	.40217	.31674	.01308	.30552
#1	.73890	.57147	.38967	.48789	.31177	.80871	1.3107
#2	.73715	.57487	.39259	.49172	.31375	.80886	1.3183
#3	.73739	.57395	.39090	.49059	.31273	.80866	1.3162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31659	.35868	.44923	.45586	.31965	.42465	.32144
SDev	.00163	.00073	.00165	.00157	.00070	.00510	.00220
%RSD	.51568	.20319	.36678	.34493	.21857	1.2005	.68540
#1	.31549	.35831	.44745	.45432	.32028	.41880	.31936
	[illegible]	[illegible]	[illegible]	.45747	.31977	.42817	.32122

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31415	.16354	.15712	.67263	.66987	26.076	16.878
SDev	.00117	.00307	.00023	.00081	.00442	.049	.074
%RSD	.37210	1.8799	.14698	.12064	.66037	.18809	.44069
#1	.31290	.16611	.15722	.67313	.66611	26.076	16.796
#2	.31521	.16437	.15685	.67306	.67475	26.129	16.941
#3	.31433	.16013	.15728	.67169	.66876	26.031	16.896
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.251	11.496	15.018	.82247	.31660	.67081	.15927
SDev	.170	.038	.111	.00282	.00133	.00301	.00098
%RSD	.35276	.32902	.74050	.34251	.41988	.44873	.61393
#1	48.076	11.460	15.127	.82370	.31507	.66847	.15919
#2	48.419	11.535	15.021	.82446	.31723	.67420	.15937
#3	48.255	11.492	14.905	.81925	.31749	.66975	.15824
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	458626	--	--	--	--	--	--
SDev	739.3531	--	--	--	--	--	--
%RSD	.1612105	--	--	--	--	--	--
#1	457908	--	--	--	--	--	--
#2	459385	--	--	--	--	--	--
#3	458585	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2748-D1 Operator:

See rerun for confirm

Run Time: 09/17/96 18:37:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00404	-.00006	-.00012	.00060	.00697	.02885	.02175
SDev	.00021	.00005	.00004	.00017	.00029	.00054	.00021
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.97134

#1	.00400	-.00001	-.00015	.00070	.00709	.02834	.02151
#2	.00384	-.00008	-.00007	.00069	.00717	.02880	.02189
#3	.00427	-.00009	-.00014	.00040	.00664	.02942	.02186
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
[illegible]h	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.00049	.00559	.00377	.00004	-.00124	.48691
SDev	.00073	.00017	.00011	.00076	.00166	.00160	.00663
%RSD	102.05	35.394	1.9353	20.161	3883.9	128.77	1.4034
#1	-.00002	.00032	.00555	.00307	-.00044	.00060	.47905
#2	.00145	.00067	.00571	.00366	.00189	-.00218	.49141
#3	.00073	.00048	.00551	.00458	-.00133	-.00215	.49027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
[illegible]m	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
[illegible]ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47454	.00770	.00619	-.01018	.00549	.66361	.16620
SDev	.00479	.00149	.00114	.00299	.00255	.01050	.01670
%RSD	1.0096	19.333	18.379	29.415	46.559	1.5820	10.049
#1	.46923	.00930	.00490	-.01351	.00755	.65326	.14692
#2	.47852	.00636	.00707	-.00770	.00628	.66332	.17639
#3	.47588	.00745	.00659	-.00934	.00263	.67425	.17529
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6965	.02831	.09173	.05075	.47869	.00029	.00671
SDev	.0479	.00152	.01229	.00437	.00545	.00151	.00028
%RSD	1.0197	5.3693	13.399	8.6198	1.1377	528.47	4.1840
#1	4.6425	.02710	.07965	.04664	.47252	.00056	.00638
#2	4.7340	.03001	.10422	.05025	.48284	.00164	.00685
#3	4.7130	.02780	.09132	.05535	.48070	-.00134	.00689
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
[illegible]gh	900.00	900.00	135.00	675.00	45.000	45.000	45.000
[illegible]w	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	430416	--	--	--	--	--	--
[illegible]	[illegible]	--	--	--	--	--	--

#1	433051	--	--	--	--	--	--
#2	428216	--	--	--	--	--	--
#3	429981	--	--	--	--	--	--

Me d: EPA3 Sample Name: MP2748-S1 Operator:

Run Time: 09/17/96 18:41:37

Comment:

Mode: CONC Corr. Factor: 1

See p.5 for pb

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8391	.04639	.04787	.47841	.20016	.25697	.49282
SDev	.0286	.00091	.00127	.00988	.00413	.00404	.00970
%RSD	1.5536	1.9542	2.6452	2.0648	2.0649	1.5733	1.9679
#1	1.8182	.04568	.04678	.47055	.19686	.25350	.48496
#2	1.8717	.04741	.04926	.48950	.20480	.26141	.50366
#3	1.8275	.04608	.04758	.47518	.19883	.25601	.48984
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47457	.04238	.49074	.43172	1.8364	1.8592	.63374
SDev	.01022	.00073	.00910	.00796	.0324	.0361	.00611
%RSD	2.1524	1.7209	1.8532	1.8438	1.7616	1.9439	.96480
#1	.46711	.04161	.48336	.42558	1.8147	1.8260	.63526
#2	.48621	.04306	.50090	.44071	1.8736	1.8977	.65896
#3	.47038	.04248	.48795	.42887	1.8209	1.8540	.64702
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.63538	.42959	.42340	1.8014	1.7563	2.6884	.16954
SDev	.00945	.00657	.00433	.0235	.0261	.0419	.00911
%RSD	1.4873	1.5296	1.0231	1.3060	1.4836	1.5584	5.3764
#1	.63067	.42384	.42286	1.7933	1.7386	2.6588	.15932
#2	.64626	.43675	.42797	1.8279	1.7862	2.7363	.17684
#3	.62922	.42817	.41936	1.7829	1.7441	2.6700	.17245
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	[illegible]	[illegible]	[illegible]	[illegible]	.64152	1.7714	.42548

%RSD	2.1393	6.0443	20.406	2.3252	1.2479	[illegible]	[illegible]
#1	3.5223	.05057	.08236	.03750	.63888	1.7569	.42320
#2	3.6688	.05696	.07327	.03928	.65051	1.8001	.43091
#3	3.5566	.05502	.05436	.03825	.63517	1.7570	.42231
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	432193	--	--	--	--	--	--
SDev	4076.720	--	--	--	--	--	--
%RSD	.9432637	--	--	--	--	--	--
#1	434494	--	--	--	--	--	--
#2	427486	--	--	--	--	--	--
#3	434599	--	--	--	--	--	--

Method: EPA3 Sample Name: E14602-3 Operator:
Run Time: 09/17/96 18:46:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00608	-.00012	-.00015	.00208	.00921	.02267	.02078
SDev	.00012	.00003	.00011	.00044	.00021	.00033	.00025
%RSD	1.9626	30.202	73.849	21.235	2.2348	1.4713	1.1837
#1	.00622	-.00010	-.00021	.00170	.00901	.02234	.02050
#2	.00599	-.00009	-.00002	.00256	.00942	.02267	.02092
#3	.00604	-.00016	-.00021	.00197	.00919	.02301	.02093
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00054	.01271	.00425	.00162	.00218	.26834
SDev	.00051	.00040	.00034	.00008	.00056	.00261	.00180
%RSD	68.642	74.273	2.7013	1.8070	34.265	119.96	.67184
#1	.00062	.00009	.01233	.00421	.00118	.00467	.26669
#2	.00131	.00068	.01300	.00420	.00143	.00240	.26828
#3	.00031	.00085	.01279	.00434	.00224	-.00054	.27047
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	[illegible]	-.00000	-.05000	-.02000	-.01000	-.00500	

Elem	220372	206871	206872	[illegible]			
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26065	.00403	.00246	-.00998	.00549	.91407	.14711
Sdev	.00459	.00091	.00039	.00180	.00201	.00477	.00080
%RSD	1.7613	22.704	15.901	18.001	36.691	.52196	.54417
#1	.25641	.00505	.00204	-.01101	.00503	.91439	.14671
#2	.26000	.00373	.00282	-.00791	.00769	.90915	.14658
#3	.26553	.00330	.00250	-.01103	.00374	.91868	.14803
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.5292	.03471	.11450	.10219	.26330	.00035	.00299
Sdev	.0341	.00293	.00040	.00033	.00366	.00192	.00019
%RSD	.96484	8.4289	.34497	.32203	1.3912	545.28	6.2217
#1	3.4961	.03245	.11476	.10204	.25992	-.00030	.00306
#2	3.5275	.03365	.11468	.10196	.26278	.00251	.00314
	3.5642	.03801	.11404	.10257	.26720	-.00116	.00278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	432720	--	--	--	--	--	--
Sdev	1449.999	--	--	--	--	--	--
%RSD	.3350897	--	--	--	--	--	--
#1	433435	--	--	--	--	--	--
#2	433673	--	--	--	--	--	--
#3	431051	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2748-SD1 Operator:
Run Time: 09/17/96 18:50:50
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00663	-.00083	-.00048	.00211	.01199	.02872	.02066
Sdev	.00001	.00010	.00094	.00112	.00096	.00088	.00020
%RSD	.15463	11.485	193.21	53.033	7.9739	3.0653	.94737
#1	.00662	-.00093	-.00154	.00122	.01094	.02888	.02044
#2	.00663	-.00074	-.00013	.00175	.01220	.02777	.02078
#3	.00663	-.00084	.00022	.00337	.01282	.02951	.02078

High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z2037/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
e	.00076	-.00155	.00901	-.00593	L-.01045	-.00109	.26199
v	.00292	.00160	.00231	.00042	.00701	.00900	.00287
%RSD	386.57	103.22	25.635	7.1627	67.093	824.08	1.0943
#1	-.00159	-.00332	.00718	-.00551	L-.01727	L-.00583	.26481
#2	.00403	-.00021	.00825	-.00594	-.00327	L-.00673	.26208
#3	-.00017	-.00112	.01161	-.00636	L-.01080	.00928	.25908
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25623	.01599	.00685	-.03949	.02327	.82586	.73049
SDev	.00363	.01434	.00574	.01968	.00844	.01002	.00078
%RSD	1.4176	89.670	83.732	49.833	36.245	1.2136	.10739
-	.25965	.01092	.00091	-.04305	.03176	.82973	.72958
#2	.25242	.00487	.00728	-.01828	.01489	.83337	.73093
#3	.25664	.03217	.01236	-.05715	.02318	.81448	.73095
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.4791	-.01460	.19256	.13015	.25827	.00245	.00997
SDev	.0349	.01466	.03219	.00097	.00293	.00536	.00793
%RSD	1.0027	100.41	16.716	.74526	1.1348	218.54	79.483
#1	3.4631	-.02206	.16026	.12903	.26148	.00693	.00432
#2	3.4550	-.02404	.19278	.13069	.25575	.00393	.00556
#3	3.5191	.00229	.22464	.13072	.25757	-.00349	.01904
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
Avge	434557	--	--	--	--	--	--
SDev	287.2670	--	--	--	--	--	--
%RSD	.0661057	--	--	--	--	--	--
#1	434889	--	--	--	--	--	--
#2	434396	--	--	--	--	--	--
				--	--	--	--

Method: EPA3 Sample Name: E14601-1 Operator:
Run Time: 09/17/96 18:55:26
Comment:
Mode: CONC Corr. Factor: 1

n	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00390	-.00021	-.00013	-.00032	.00438	.01053	.00640
SDev	.00015	.00003	.00006	.00008	.00014	.00037	.00006
%RSD	3.9137	13.723	45.924	24.138	3.1542	3.5342	.89173
#1	.00395	-.00019	-.00012	-.00023	.00447	.01020	.00633
#2	.00372	-.00020	-.00008	-.00034	.00446	.01046	.00644
#3	.00401	-.00024	-.00020	-.00039	.00422	.01094	.00641

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3713
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	-.00020	.00410	.00101	-.00170	-.00321	.07125
SDev	.00069	.00030	.00027	.00007	.00175	.00220	.00181
%RSD	87.278	149.51	6.5044	7.4461	102.96	68.586	2.5373
#1	.00156	-.00030	.00412	.00102	-.00218	-.00275	.07163
#2	.00060	.00014	.00435	.00093	.00024	-.00127	.06923
#3	.00022	-.00043	.00382	.00107	-.00317	L-.00560	.07283

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06757	.00112	.00138	-.00836	.00484	.64937	.22452
SDev	.00043	.00122	.00112	.00239	.00156	.00526	.00206
%RSD	.63267	109.11	80.895	28.604	32.177	.80941	.91880
#1	.06720	.00029	.00220	-.00709	.00542	.64978	.22356
#2	.06746	.00055	.00184	-.00686	.00602	.64392	.22309
#3	.06804	.00253	.00011	-.01111	.00307	.65441	.22588

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9693	.06199	.09073	.04382	.06882	.00046	.00131
SDev	.0101	.00190	.00805	.00033	.00079	.00183	.00034
%RSD	.51234	3.0594	8.8693	.75323	1.1479	398.80	26.814
#1	1.9588	.06272	.10002	.04357	.06870	.00127	.00158
	[illegible]	[illegible]	[illegible]	.04370	.06809	.00174	.00142

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00500	-.00500	-.00500

Std	1	2	3	4	5	6	7
Value	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	435570	--	--	--	--	--	--
SDev	2834.711	--	--	--	--	--	--
%RSD	.6508045	--	--	--	--	--	--
#1	436853	--	--	--	--	--	--
#2	437537	--	--	--	--	--	--
#3	432321	--	--	--	--	--	--

Method: EPA3 Sample Name: E14601-2 Operator:
Run Time: 09/17/96 19:00:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01694	-.00014	-.00094	.00053	.01858	.11125	.04333
SDev	.00002	.00002	.00007	.00052	.00064	.00026	.00003
%RSD	.09741	16.547	7.5284	97.047	3.3533	.23469	.06651
#1	.01692	-.00012	-.00101	.00113	.01953	.11099	.04335
#2	.01694	-.00016	-.00087	.00022	.01914	.11152	.04333
#3	.01695	-.00014	-.00094	.00023	.01828	.11125	.04330

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00185	.00122	.03477	.04261	.00403	-.00262	.83160
SDev	.00023	.00035	.00012	.00020	.00127	.00261	.00237
%RSD	12.227	29.025	.35027	.46002	31.443	99.582	.28503
#1	.00162	.00153	.03482	.04273	.00260	.00015	.83434
#2	.00208	.00130	.03463	.04272	.00448	-.00297	.83010
#3	.00184	.00083	.03486	.04239	.00502	L-.00503	.83037

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ti3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.80473	.00791	.00710	-.00507	.00542	6.7942	.68199
SDev	.00227	.00174	.00107	.00446	.00012	.0116	.00068

#1	.80305	.00598	.00595	-.00052	.00529	6.7891	.68121
#2	.80382	.00840	.00805	-.00944	.00552	6.8074	.68228
#3	.80731	.00935	.00730	-.00527	.00545	6.7860	.6824[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.415	.23006	.41476	.17498	.81370	.00194	.00739
SDev	.020	.00212	.01593	.00073	.00122	.00141	.00123
%RSD	.11479	.92075	3.8418	.41970	.15039	72.680	16.616
#1	17.410	.23169	.43269	.17493	.81350	.00337	.00597
#2	17.398	.23081	.40221	.17574	.81260	.00055	.00810
#3	17.437	.22766	.40939	.17427	.81502	.00190	.00800
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
Std	1	2	3	4	5	6	7
mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	437332	--	--	--	--	--	--
SDev	385.7862	--	--	--	--	--	--
%RSD	.0882136	--	--	--	--	--	--
#1	437773	--	--	--	--	--	--
#2	437166	--	--	--	--	--	--
#3	437057	--	--	--	--	--	--

Method: EPA3 Sample Name: E14602-1 Operator:
Run Time: 09/17/96 19:04:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05711	.00029	-.00037	.00148	.02710	.03507	.10084
SDev	.00040	.00003	.00027	.00014	.00030	.00022	.00026
%RSD	.69420	8.6160	73.029	9.3490	1.1091	.63161	.25926
#1	.05754	.00028	-.00067	.00156	.02731	.03490	.10085
#2	.05703	.00032	-.00028	.00156	.02725	.03532	.10109
#3	.05676	.00027	-.00015	.00132	.02676	.03499	.10057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
	[illegible]	[illegible]	[illegible]	Zn2138	As1890	Tl1908	220371

Avge	.00429	.00005	.02709	[illegible]	[illegible]	[illegible]	[illegible]
SDev	.00078	.00014	.00026	.00103	.00134	.00267	.00219
%RSD	18.177	289.16	.95427	.42707	7.0666	116.59	3.3244
#1	.00507	.00020	.02679	.24053	.01783	-.00473	.06849
#2	.00351	-.00008	.02727	.24053	.01870	.00056	.06526
	.00428	.00002	.02720	.23876	.02046	-.00271	.06431
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06264	.00323	.00188	-.01171	.00510	10.060	5.0683
SDev	.00221	.00304	.00145	.00085	.00111	.068	.0186
%RSD	3.5263	94.119	77.330	7.2819	21.673	.67256	.36773
#1	.06014	.00041	.00308	-.01095	.00454	10.136	5.0635
#2	.06348	.00646	.00026	-.01155	.00439	10.035	5.0889
#3	.06432	.00283	.00229	-.01263	.00638	10.008	5.0525
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.567	.96327	1.1985	.11534	.06379	-.00048	.00234
SDev	.044	.00315	.0211	.00103	.00074	.00049	.00014
%RSD	.32743	.32668	1.7624	.89211	1.1648	102.95	5.8673
#1	13.566	.96491	1.2229	.11653	.06294	-.00060	.00221
#2	13.612	.96525	1.1669	.11473	.06409	-.00090	.00234
#3	13.524	.95964	1.1856	.11477	.06434	.00006	.00248
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	441425	--	--	--	--	--	--
SDev	999.4510	--	--	--	--	--	--
%RSD	.2264145	--	--	--	--	--	--
	441460	--	--	--	--	--	--
#2	440409	--	--	--	--	--	--
#3	442407	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:

Run Time: 09/17/96 19:09:13

Comment:

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.8769	1.9285	Q1.8838	1.9258	1.9309	1.9558	1.9365
SDev	.0055	.0057	.0066	.0046	.0053	.0069	.0051
%RSD	.29545	.29757	.34932	.23968	.27382	.35276	.26422
#1	Q1.8831	1.9349	Q1.8908	1.9310	1.9361	1.9727	1.9446
#2	Q1.8724	1.9266	Q1.8828	1.9242	1.9311	1.9589	1.9371
#3	Q1.8753	1.9239	Q1.8777	1.9221	1.9255	1.9659	1.9348
Errors	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9103	Q.21895	1.9851	Q1.6748	1.9197	1.9032	1.9306
SDev	.0045	.00079	.0049	.0046	.0049	.0088	.0165
%RSD	.23552	.36095	.24884	.27220	.25562	.46067	.97876
#1	1.9150	Q.21982	1.9908	Q1.6797	1.9252	1.9120	1.9463
#2	1.9099	Q.21872	1.9825	Q1.6740	1.9157	Q1.8945	1.9036
#3	1.9061	Q.21829	1.9820	Q1.6706	1.9183	1.9031	1.9352
Errors	QC Pass	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8789	1.8122	1.7495	1.9323	1.8697	39.335	39.622
SDev	.0059	.0051	.0194	.0107	.0095	.134	.145
%RSD	.31406	.27995	1.1066	.55184	.50950	.34105	.36725
#1	1.8849	1.8175	1.7635	1.9445	1.8601	39.485	39.771
#2	1.8731	1.8074	1.7274	1.9254	1.8614	39.227	39.619
#3	1.8788	1.8117	1.7575	1.9268	1.8676	39.293	39.480
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.256	39.848	Q36.201	39.060	Q1.8960	Q1.8906	Q1.7704
SDev	.104	.114	.322	.171	.0101	.0098	.0145
%RSD	.26431	.28687	.89069	.43865	.53529	.51965	.81627
#1	39.367	39.976	Q36.565	39.257	1.9053	1.9016	Q1.7815
#2	39.241	39.810	Q35.954	38.968	Q1.8852	Q1.8828	Q1.7640
#3	39.161	39.758	Q36.083	38.954	Q1.8976	Q1.8873	Q1.7755
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail	QC Fail
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntSto	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
[illegible]	436528	--	--	--	--	--	--
[illegible]	396.7921	--	--	--	--	--	--
%RSD	.0908973	--	--	--	--	--	--
#1	436288	--	--	--	--	--	--
#2	436986	--	--	--	--	--	--
#3	436310	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:

Run Time: 09/17/96 19:13:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.00026	.00070	.00046	.00041	.00213	.00044
[illegible]V	.00015	.00035	.00017	.00052	.00048	.00116	.00006
[illegible]D	57.480	135.82	24.486	114.06	116.33	54.318	14.537
#1	.00014	.00065	.00089	-.00009	-.00003	.00080	.00050
#2	.00042	.00011	.00065	.00052	.00035	.00290	.00043
#3	.00020	.00000	.00056	.00095	.00093	.00269	.00038
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3571
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	-.00028	-.00013	-.00261	-.00064	.00268	-.00299
SDev	.00040	.00019	.00132	.00007	.00107	.00309	.00064
%RSD	497.22	65.760	1002.8	2.7192	166.31	115.37	21.422
#1	.00037	-.00041	.00139	-.00253	-.00096	.00449	-.00367
#2	-.00040	-.00038	-.00088	-.00265	-.00152	.00444	-.00240
#3	-.00021	-.00007	-.00090	-.00265	.00055	-.00089	-.00290
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00206	.00302	.00076	-.00112	-.00110	-.03951	.00383
SDev	.00059	.00201	.00088	.00281	.00149	.03462	.00652
%RSD	28.653	66.678	115.31	251.55	135.55	87.632	170.14
#1	.00240	.00513	.00010	.00177	-.00026	-.07948	.01136
#2	.00239	.00281	.00176	-.00384	-.00022	-.01924	-.00001
#3	.00138	.00112	.00042	-.00129	-.00281	-.01980	.00015

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK			
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00505	.01170	.00647	-.00034	.00040	-.00109	.00153
SDev	.00204	.00958	.02812	.00210	.00042	.00139	.00076
%RSD	40.516	81.825	434.35	624.04	106.56	127.70	49.874
#1	.00635	.00114	-.02564	.00099	.00040	.00043	.00179
#2	.00611	.01415	.01841	.00076	.00082	-.00141	.00212
#3	.00269	.01981	.02665	-.00275	-.00003	-.00229	.00067
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
e	460101	--	--	--	--	--	--
v	36586.04	--	--	--	--	--	--
%RSD	7.951734	--	--	--	--	--	--
#1	502345	--	--	--	--	--	--
#2	439357	--	--	--	--	--	--
#3	438602	--	--	--	--	--	--

Method: EPA3 Sample Name: E14602-2 Operator:
Run Time: 09/17/96 19:18:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00408	-.00016	-.00002	-.00003	.00595	.00791	.00707
SDev	.00013	.00002	.00019	.00036	.00034	.00005	.00007
%RSD	3.0853	9.6229	1132.3	1156.6	5.7036	.58471	.98846
#1	.00400	-.00015	.00017	.00038	.00622	.00791	.00700
#2	.00422	-.00015	-.00001	-.00017	.00606	.00786	.00706
#3	.00401	-.00018	-.00021	-.00030	.00557	.00795	.00714
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00059	.00012	.00448	-.00002	-.00061	-.00281	.00934
SDev	.00053	.00011	.00026	.00009	.00100	.00138	.00125
%RSD	89.682	88.320	5.6864	392.05	164.19	49.342	13.425

#2	.00062	.00004	.00464	[illegible]	[illegible]	[illegible]	[illegible]
#3	.00111	.00009	.00463	-.00011	-.00174	-.00121	.00833

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00660	.00184	.00127	-.01080	.00579	2.3220	.07629
SDev	.00104	.00128	.00069	.00245	.00058	.0093	.00772
%RSD	15.840	69.937	54.072	22.689	9.9910	.39884	10.113
#1	.00548	.00036	.00206	-.01360	.00543	2.3246	.08058
#2	.00756	.00246	.00080	-.00903	.00645	2.3117	.06739
#3	.00676	.00269	.00095	-.00977	.00547	2.3296	.08091

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2706	.01102	.24280	.03357	.00754	.00028	.00147
SDev	.0277	.00038	.01517	.00051	.00044	.00111	.00009
%RSD	.52621	3.4431	6.2502	1.5231	5.8241	395.22	6.2545
#1	5.2390	.01140	.25725	.03412	.00726	-.00089	.00151
#2	5.2614	.01101	.24415	.03311	.00804	.00131	.00137
#3	5.2913	.01064	.22699	.03348	.00731	.00041	.00154

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	433147	--	--	--	--	--	--
SDev	455.0564	--	--	--	--	--	--
%RSD	.1050583	--	--	--	--	--	--
#1	433446	--	--	--	--	--	--
#2	433371	--	--	--	--	--	--
#3	432623	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2748-D1 Operator:
Run Time: 09/17/96 19:24:10
Comment:
Mode: CONC Corr. Factor: 1

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Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]	[illegible]	[illegible]	[illegible]	.00073	.00699	.02870	.02126

%RSD	.17111	6.9796	[illegible]	[illegible]	[illegible]	[illegible]	
#1	.00373	-.00021	-.00001	.00092	.00707	.02860	.02117
#2	.00372	-.00024	-.00017	.00036	.00656	.02870	.02131
#3	.00373	-.00021	.00018	.00092	.00735	.02879	.02129
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	.00047	.00523	.00158	.00109	-.00293	.48543
SDev	.00068	.00037	.00035	.00005	.00156	.00072	.00298
%RSD	99.082	78.857	6.6094	3.1755	143.09	24.605	.61356
#1	.00114	.00078	.00493	.00155	.00273	-.00246	.48767
#2	-.00009	.00006	.00561	.00154	.00094	-.00376	.48636
#3	.00101	.00058	.00516	.00163	-.00039	-.00257	.48205
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.6000	45.000	18.000	9.0000	45.000	
	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46707	.00652	.00540	-.00970	.00652	.63421	.13574
SDev	.00164	.00148	.00115	.00464	.00214	.00514	.00772
%RSD	.35069	22.667	21.262	47.828	32.895	.81008	5.6901
#1	.46524	.00502	.00582	-.00739	.00855	.63974	.14460
#2	.46760	.00658	.00628	-.00667	.00428	.63329	.13107
#3	.46838	.00798	.00410	-.01504	.00672	.62959	.13149
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6558	.02860	.09623	.04276	.47321	.00113	.00579
SDev	.0157	.00376	.01241	.00022	.00064	.00193	.00053
%RSD	.33796	13.162	12.894	.50609	.13538	170.46	9.1454
#1	4.6376	.02755	.10747	.04299	.47273	.00326	.00557
#2	4.6643	.02547	.08292	.04256	.47393	.00065	.00639
#3	4.6655	.03278	.09836	.04272	.47296	-.00051	.00541
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Avge	437564	--	--	--	--	--	
SDev	507.2764	--	--	--	--	--	--
%RSD	.1159318	--	--	--	--	--	--
#1	437221	--	--	--	--	--	--
#2	438147	--	--	--	--	--	--
	437325	--	--	--	--	--	--

Method: EPA3 Sample Name: E14602-SPS PB Operator:
Run Time: 09/17/96 19:28:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00926	-.00025	.00007	.00170	.00834	.02208	.01885
SDev	.00011	.00004	.00018	.00033	.00045	.00014	.00013
%RSD	1.1538	15.009	268.62	19.504	5.4137	.63722	.69008
#1	.00933	-.00022	.00002	.00183	.00863	.02204	.01877
#2	.00931	-.00024	.00026	.00194	.00857	.02197	.01879
	.00913	-.00029	-.00008	.00132	.00782	.02224	.01900
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.00042	.01227	.00565	-.00011	-.00224	.81574
SDev	.00135	.00050	.00013	.00007	.00137	.00114	.00351
%RSD	360.85	116.83	1.0758	1.3098	1244.1	50.857	.43095
#1	.00162	.00068	.01234	.00561	-.00142	-.00354	.81566
#2	.00056	.00074	.01211	.00560	.00130	-.00140	.81216
#3	-.00106	-.00015	.01234	.00573	-.00021	-.00178	.81919
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.78442	.00488	.00241	-.01001	.00559	.82433	.15115
SDev	.00460	.00080	.00111	.00505	.00366	.00507	.00719
%RSD	.58612	16.291	46.218	50.420	65.536	.61494	4.7575
	.78094	.00561	.00369	-.00428	.00139	.82313	.14670
#2	.78268	.00403	.00191	-.01376	.00813	.81997	.15945
#3	.78963	.00501	.00164	-.01198	.00725	.82989	.14730
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	53 Pass
High						900.00	900.00
Low						-.20000	-5.0000

Units	ppm	ppm	ppm	ppm	ppm		
Avge	3.2223	.02806	.11375	.10387	.79487	.00041	.00325
SDev	.0118	.00263	.01272	.00097	.00401	.00077	.00095
%RSD	.36589	9.3570	11.178	.93034	.50416	188.01	29.213
	3.2110	.02670	.12838	.10393	.79259	-.00048	.00434
	3.2214	.03108	.10537	.10288	.79252	.00085	.00263
#3	3.2345	.02639	.10750	.10481	.79950	.00086	.00278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	433366	--	--	--	--	--	--
SDev	962.4086	--	--	--	--	--	--
%RSD	.2220777	--	--	--	--	--	--
	433452	--	--	--	--	--	--
#2	434282	--	--	--	--	--	--
#3	432363	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/17/96 19:33:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	-.00034	.00012	.00012	.00063	.00258	.00009
SDev	.00013	.00004	.00012	.00016	.00024	.00013	.00006
%RSD	155.46	10.731	106.57	135.12	37.886	5.0522	69.874
#1	.00024	-.00031	.00025	.00023	.00070	.00271	.00016
#2	.00001	-.00038	.00010	.00018	.00082	.00245	.00009
#3	.00001	-.00034	.00000	-.00006	.00036	.00257	.00003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00043	.00000	-.00156	-.00220	.01882	.02006	.00545
SDev	.00048	.00012	.00021	.00000	.00039	.00214	.00170
%RSD	110.62	3032.9	13.193	.00289	2.0663	10.660	31.233
#1	.00009	.00001	-.00136	-.00220	.01902	.02232	.00402
#2	-.00085	.00012	-.00177	-.00220	.01837	.01807	.00734
#3	-.00054	-.00012	-.00156	-.00220	.01907	.01979	.00500

Value					.02000	.02000	
Range					30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A[illegible]	.00553	.00782	.00768	.00541	.00886	-.02600	.01059
S[illegible]	.00090	.00140	.00049	.00247	.00188	.00218	.00770
%RSD	16.228	17.972	6.3882	45.719	21.220	8.3682	72.703
#1	.00604	.00811	.00823	.00470	.00809	-.02350	.01520
#2	.00606	.00629	.00728	.00337	.00749	-.02700	.01487
#3	.00449	.00905	.00755	.00816	.01101	-.02750	.00170
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01071	-.01214	.01160	.02988	.00553	.00773	.00774
SDev	.00530	.00225	.00499	.00040	.00092	.00208	.00068
%RSD	49.476	18.493	43.027	1.3510	16.621	26.846	8.7951
[illegible]	.01588	-.01105	.01456	.03032	.00539	0.00696	.00821
#2	.00530	-.01065	.01439	.02959	.00651	0.00614	0.00696
#3	.01094	-.01473	.00584	.02967	.00469	.01008	.00807
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	431165	--	--	--	--	--	--
SDev	674.3570	--	--	--	--	--	--
%RSD	.1564033	--	--	--	--	--	--
#1	430444	--	--	--	--	--	--
#2	431780	--	--	--	--	--	--
#3	431272	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/17/96 19:38:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36270	.00883	.00907	.09422	.01960	.04943	.02796
SDev	.00027	.00007	.00016	.00013	.00020	.00009	.00014
%RSD	.07480	.77169	1.7248	.13663	1.0010	.18222	.49198
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01941	.04951	.02794

#3	.36245	.00875	.00890	.09403	.01980	.04988	[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07212	.01720	.09313	.03123	.18163	.18209	.18891
SDev	.00078	.00019	.00088	.00012	.00146	.00221	.00087
%RSD	1.0869	1.0862	.94030	.37076	.80365	1.2144	.45938
#1	.07198	.01705	.09338	.03134	.18323	.16075	.18941
#2	.07296	.01741	.09386	.03111	.18037	.18088	.18791
#3	.07141	.01714	.09216	.03125	.18128	.18464	.18942

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	220372	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18181	.10515	.10141	.17952	.17979	-.02778	.00980
SDev	.00134	.00150	.00123	.00308	.00365	.00026	.00779
%RSD	.73723	1.4243	1.2603	1.7173	2.0313	.93155	130.18
#1	.18111	.10405	.10138	.18304	.18057	-.02803	.00103
#2	.18338	.10455	.10270	.17821	.18300	-.02761	.01483
#3	.18098	.10686	.10014	.17731	.17582	-.02751	.00160
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00731	-.01377	.01515	.06330	.18420	.17972	.10267
SDev	.00955	.00084	.01333	.00029	.00060	.00294	.00033
%RSD	130.65	6.0938	89.512	.45432	.32868	1.6334	.36135
#1	-.00087	-.01471	-.00005	.06355	.18389	.18141	.10225
#2	.01780	-.01309	.02601	.06337	.18490	.18142	.10333
#3	.00499	-.01350	.01948	.06299	.18381	.17633	.10240
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
StSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	432568	--	--	--	--	--	--
SDev	1629.026	--	--	--	--	--	--
%RSD	.3765945	--	--	--	--	--	--

#2	431925	--	--	--	--	--	--
#3	431358	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/17/96 19:4[illegible]:40
[illegible]nt:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00727	-.00045	.00315	.00068	.00031	-.00549	-.00066
SDev	.00017	.00001	.00012	.00019	.00019	.00002	.00007
%RSD	2.3469	1.6405	3.8109	27.864	63.447	.36541	10.120
#1	.00740	-.00045	.00309	.00058	.00028	-.00547	-.00065
#2	.00733	-.00044	.00329	.00090	.00051	-.00549	-.00073
#3	.00708	-.00045	.00307	.00056	.00013	-.00551	-.00060
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00142	.00013	-.00371	-.00706	.00239	0.00706	.00320
SDev	.00121	.00036	.00019	.00009	.00152	.00280	.00217
%RSD	85.251	266.43	5.1971	1.2415	63.306	32.626	67.882
#1	-.00189	-.00028	-.00394	-.00701	.00407	0.00812	.00377
#2	-.00233	.00032	-.00361	-.00716	.00113	.00441	.00508
#3	-.00005	.00032	-.00359	-.00700	.00197	0.00663	.00084
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2066/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00401	.00078	-.00079	.00212	.00457	449.40	412.68
SDev	.00224	.00385	.00176	.00357	.00048	1.32	.44
%RSD	55.953	491.09	222.50	168.36	10.562	.33928	.10556
#1	-.00418	-.00354	.00054	.00207	.00502	450.95	413.10
#2	-.00616	.00385	-.00012	.00571	.00406	449.33	412.70
#3	-.00169	.00205	-.00278	-.00142	.00463	447.91	412.23
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.07	500.41	.02167	-.40557	-.00157	.00377	-.00025
SDev	.23	.31	.00347	.00172	.00079	.00103	.00128
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.222	516.01

#1	18[illegible].33	500.73	.02089	-.40743	-.00151	.00400	[illegible]
#2	18[illegible].00	500.40	.01867	-.40326	-.00240	.00463	.00122
#3	18[illegible].89	500.10	.02546	-.40404	-.00082	.00263	-.00116
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	100.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	411604	--	--	--	--	--	--
SDev	2196.194	--	--	--	--	--	--
%RSD	.5335700	--	--	--	--	--	--

#1	409116	--	--	--	--	--	--
#2	412421	--	--	--	--	--	--
#3	413274	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/17/96 19:47:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Be4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46536	.46341	.87765	.45154	.45479	.49664	.46836
SDev	.00171	.00213	.00470	.00148	.00256	.00243	.00217
%RSD	.36806	.46376	.53531	.32740	.56225	.49308	.47316
#1	.46494	.46184	.87399	.45070	.45378	.49495	.46747
#2	.46390	.46252	.87600	.45068	.45289	.49502	.46810
#3	.46724	.46586	.88295	.45325	.45769	.49944	.46147
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.87976	.85952	.45565	.81764	.96331	.90069	.92136
SDev	.00471	.00302	.00242	.00434	.00209	.00864	.00163
%RSD	.53510	.35149	.53178	.53077	.21689	.95890	.17660
	.87520	.85776	.45379	.81503	.96307	.89382	.92167
#2	.87947	.85780	.45477	.81525	.96135	.89787	.91956
#3	.88460	.86301	.45839	.82265	.96551	.91039	.92276
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Avge	.86721	.91721	.89382	.95519	.90281	449.26	411.70
SDev	.00981	.01239	.00404	.00254	.00863	2.33	2.06
%RSD	1.1315	1.3510	.45186	.26637	.95626	.51941	.50064
#1	.85693	.90502	.89004	.95669	.89286	447.93	410.26
	.86824	.91681	.89336	.95225	.90730	447.94	410.78
	.87647	.92979	.89807	.95662	.90828	451.97	414.06
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	182.98	499.08	.02019	-.40968	.88526	.92027	.90163
SDev	.98	2.59	.01094	.00155	.00670	.00542	.00682
%RSD	.53734	.51893	54.160	.37937	.75669	.58884	.75596
#1	182.25	497.23	.03237	-.40889	.87851	.91413	.89504
#2	182.60	497.98	.01122	-.40869	.88535	.92229	.90118
#3	184.10	502.04	.01698	-.41147	.89191	.92429	.90865
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	20.000			20.000	20.000	20.000

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	413414	--	--	--	--	--	--
SDev	1878.867	--	--	--	--	--	--
%RSD	.4544755	--	--	--	--	--	--
#1	412755	--	--	--	--	--	--
#2	415334	--	--	--	--	--	--
#3	411954	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/17/96 19:51:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	01.8492	1.9366	01.8768	1.9315	1.9400	1.9585	1.9456
SDev	.0165	.0124	.0120	.0122	.0128	.0163	.0123
%RSD	.89397	.63811	.63931	.62932	.66091	.83102	.63147
#1	01.8674	1.9508	01.8925	1.9453	1.9546	1.9761	1.9595
#2	01.8351	1.9283	01.8701	1.9222	1.9306	1.9439	1.9360
#3	01.8451	1.9307	01.8738	1.9270	1.9349	1.9556	1.9414
Errors	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value					1.0000	1.0000	1.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9092	0.21572	1.9932	Q1.6691	1.9159	1.9063	1.9500
SDev	.0152	.00097	.0138	.0113	.0119	.0074	.0128
%	.79715	.44809	.69460	.67681	.62018	.38719	.65477
#1	1.9263	0.21669	2.0088	Q1.6819	1.9297	1.9148	1.9652
#2	Q1.8972	0.21476	1.9822	Q1.6606	1.9093	1.9017	1.9420
#3	1.9040	0.21571	1.9887	Q1.6647	1.9089	1.9023	1.9443
Errors	QC Pass	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179

units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8732	1.8087	1.7442	1.9436	1.8538	39.314	39.638
SDev	.0138	.0129	.0122	.0152	.0165	.415	.284
%RSD	.73516	.71554	.69833	.78333	.88903	1.0553	.71216
#1	1.8890	1.8229	1.7583	1.9612	1.8702	39.774	40.153
	1.8636	1.7976	1.7369	1.9350	1.8372	38.970	39.670
#3	1.8669	1.8056	1.7375	1.9347	1.8538	39.196	39.673
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.448	40.173	Q35.524	38.610	Q1.8989	Q1.8837	Q1.7657
SDev	.266	.303	.553	.386	.0134	.0156	.0123
%RSD	.67329	.75542	1.5632	.99945	.70780	.82674	.69738
#1	39.752	40.518	Q36.151	39.050	1.9144	1.9005	Q1.7798
#2	39.261	39.948	Q35.092	38.330	Q1.8898	Q1.8698	Q1.7571
#3	39.332	40.056	Q35.331	38.449	Q1.8927	Q1.8808	Q1.7602
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail	QC Fail
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Ave	441887	--	--	--	--	--	--
Dev	2734.681	--	--	--	--	--	--
%RSD	.6188648	--	--	--	--	--	--
#1	439134	--	--	--	--	--	--
#2	444603	--	--	--	--	--	--
#3	441923	--	--	--	--	--	--

Method: EPA Sample Name: [illegible]
Run Time: 09/17/96 19:56:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00003	.00083	.00092	.00062	.00331	.00041
Sdev	.00013	.00014	.00024	.00005	.00034	.00046	.00011
%RSD	40.238	403.90	28.621	5.7442	56.016	13.971	25.780
#1	.00039	.00019	.00107	.00087	.00087	.00384	.00054
#2	.00039	.00001	.00083	.00092	.00075	.00302	.00035
#3	.00017	-.00009	.00060	.00098	.00022	.00306	.00035
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	.00027	-.00080	-.00268	-.00026	.00307	-.00290
SDV	.00021	.00058	.00062	.00017	.00208	.00327	.00204
SD	28.133	215.79	76.486	6.1792	800.69	106.64	70.395
#1	.00078	.00092	-.00009	-.00251	.00214	0.00599	-.00091
#2	.00091	.00005	-.00116	-.00268	-.00138	-.00046	-.00281
#3	.00051	-.00017	-.00116	-.00284	-.00154	.00367	-.00490
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba4554
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	.00339	.00102	.00148	.00045	-.00664	.03465
Sdev	.00060	.00198	.00097	.00703	.00154	.02180	.01500
%RSD	63.323	58.297	96.033	474.04	343.42	599.23	27.433
#1	.00044	.00503	.00203	.00813	.00090	.01830	.06348
#2	.00161	.00394	.00087	.00219	-.00127	-.00392	.06315
#3	.00081	.00120	.00012	-.00587	.00171	-.02530	.03733
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02070	.06021	.01756	.00131	-.00031	.00081	.00182
Sdev	.01703	.01182	.01953	.00422	.00069	.00221	.00129
%RSD	82.277	19.638	111.23	320.86	221.91	272.76	70.607
#1	.03998	.07127	-.00499	.00532	.00001	.00332	.00306
#2	.01446	.06161	.02885	.00171	.00016	-.00010	.00191
#3	.00767	.04775	.02882	-.00309	-.00110	-.00080	.00049

Errors	[illegible]	[illegible]					
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00500	.00500	.00500

Intstd	1	2	3	4	5	6	7
e	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	445024	--	--	--	--	--	--
SDev	641.0281	--	--	--	--	--	--
%RSD	.1440435	--	--	--	--	--	--
#1	444297	--	--	--	--	--	--
#2	445267	--	--	--	--	--	--
#3	445508	--	--	--	--	--	--

Pb

CLP

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... : 2748	PREP DATE..... : 9/17/96
METHOD BLANK..... : 2748	PREP TIME START : 11:20
	PREP TIME END : 16:40
LAB CONTROL CHECK : 2748	——>SOURCE LOT # : ERA# 228
MATRIX DUPE..... : 2748	——>LAB SAMPLE ID : E14602-3
MATRIX SPIKE ... : 2748	——>LAB SAMPLE ID : E14602-3

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP2748 MB1				200ml	10ml 1:1 HNO3	
	MP 2748 LC1	1.0008g				5ml conc HNO3	
	MP 2748 B1					5ml H_2O_2	
	MP 2748 S1	1.00g				5ml 1:1	2.0ml HPS + 2.0ml Ag
	MP 2748 D1	1.00g				HCl	
	MP 2748 SD1						
1	E14601-1	1.009	89.5	0.895			
2	E14601-2		92.7	0.927			
3	E14602-1		87.4	0.874			
4	E14602-2		22.9	0.229			
5	E14602-3		88.1	0.881			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→	SB						2.0ml HPS + 2.0ml Ag

this line is use for any additional QC requirements

SIGNATURE Dipti DATE 9/17/96

COMMENTS MP 2748

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E14601-1	Brown	Clear NS none			Medium	
E14601-2	Yellow/Brown	Clear NS none			Medium	
E14602-1	Tan	Clear NS none			Medium/sand	
E14602-2	Brown	Clear NS none			Medium/watery	
E14602-3	Tan	Clear NS none			Medium/sand	

Date of sample preparation: 9/17/96 Sample prepared by: [illegible]

Comments:

Accutest New Jersey

DATA REVIEW REPORT (rev01)

Worknum: GN5912

Sep 18, 1996 09:42 am

Function: GENCHEM

Analyst: LEN Instrument: NONE Run Date: 17-SEP-96

Sample	Tag	Parameter	CAS No.	M	Type	Result	Units	Qual	Text	RDL	R.T.	Prod
E14602-1		Wet Weight (Total)		N	RAW	8.05	g					%SOL
E14602-1		Tare Weight		N	RAW	1.3	g					%SOL
E14602-1		Dry Weight (Total)		N	RAW	7.2	g					%SOL
E14602-1		Solids, Percent		Y	REG	87.4	%					%SOL
E14602-1		Moisture, Percent		N	REG	12.6	%					%SOL
E14602-2		Wet Weight (Total)		N	RAW	7.72	g					%SOL
E14602-2		Tare Weight		N	RAW	1.31	g					%SOL
E14602-2		Dry Weight (Total)		N	RAW	2.78	g					%SOL
E14602-2		Solids, Percent		Y	REG	22.9	%					%SOL
E14602-2		Moisture, Percent		N	REG	77.1	%					%SOL
E14602-3		Wet Weight (Total)		N	RAW	9.89	g					%SOL
E14602-3		Tare Weight		N	RAW	1.31	g					%SOL
E14602-3		Dry Weight (Total)		N	RAW	8.87	g					%SOL
E14602-3		Solids, Percent		Y	REG	88.1	%					%SOL
E14602-3		Moisture, Percent		N	REG	11.9	%					%SOL
GN5912-D1		Wet Weight (Total)		N	RAW	10.13	g					%SOL
GN5912-D1		Tare Weight		N	RAW	1.3	g					%SOL
GN5912-D1		Dry Weight (Total)		N	RAW	9.01	g					%SOL
GN5912-D1		Solids, Percent		Y	REG	87.3	%					%SOL
GN5912-D1		Moisture, Percent		N	REG	12.7	%					%SOL

%SOLIDS
METHOD REFERENCE: EPA 160.3M
MDL: 2.0
UNITS: %

Steve 1/15-(9/17) Exp 08/01 (9/18)

ANALYST: Lam
DATE: 9-17-96

SAMPLE ID	G (WET) TOTAL WT (B)	G TARE WT (A)		G (WET) SAMP WT	G (DRY) TOTAL WT (C)	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 G14602-1	8.05	1.30	E		7.20		87.4	
G14602-1 DUP	10.13	1.30	F		9.01		87.3	
2 G14602-2	7.72	1.31	C		2.78			
3 G14602-3	9.89	1.31	H		8.87			
4								
5								
6								
7								
8								
9								
10								
1								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1 G14602-3	9.89	1.31	H		8.86			
REDRY 2								

COMMENTS:

QC REVIEW: DATE: 96

12/7/90

Accutest New Jersey

DATA REVIEW REPORT (rev01)

Worknum: GN5911

Sep 18, 1996 09:41 am

Function: GENCHEM

Analyst: LEN Instrument: NONE Run Date: 17-SEP-96

Sample	Tag	Parameter	CAS No.	M	Type	Result	Units	Qual	Text	RDL	R.T.	Prod
E14601-1		Wet Weight (Total)		N	RAW	9.5	g					%SOL
E14601-1		Tare Weight		N	RAW	1.3	g					%SOL
E14601-1		Dry Weight (Total)		N	RAW	8.64	g					%SOL
E14601-1		Solids, Percent		Y	REG	89.5	%					%SOL
E14601-1		Moisture, Percent		N	REG	10.5	%					%SOL
E14601-2		Wet Weight (Total)		N	RAW	9.8	g					%SOL
E14601-2		Tare Weight		N	RAW	1.3	g					%SOL
E14601-2		Dry Weight (Total)		N	RAW	9.18	g					%SOL
E14601-2		Solids, Percent		Y	REG	92.7	%					%SOL
E14601-2		Moisture, Percent		N	REG	7.3	%					%SOL
GN5911-D1		Wet Weight (Total)		N	RAW	7.11	g					%SOL
GN5911-D1	1	Wet Weight (Total)		N	RAW	7.11	g					%SOL
GN5911-D1		Tare Weight		N	RAW	1.29	g					%SOL
GN5911-D1	1	Tare Weight		N	RAW	1.29	g					%SOL
GN5911-D1		Dry Weight (Total)		N	RAW	8.54	g					%SOL
GN5911-D1	1	Dry Weight (Total)		N	RAW	6.54	g					%SOL
GN5911-D1		Solids, Percent		Y	REG	124.6	%					%SOL
GN5911-D1		Solids, Percent		Y	RPD	32.8	%	*				%SOL
GN5911-D1	1	Solids, Percent		Y	REG	90.2	%					%SOL
GN5911-D1	1	Solids, Percent		Y	RPD	0.8	%					%SOL
GN5911-D1		Moisture, Percent		N	REG	-24.6	%					%SOL
GN[illegible]-D1		Moisture, Percent		N	RPD	-497.9	%					%SOL
G[illegible]D1	1	Moisture, Percent		N	REG	9.8	%					%SOL
[illegible]-D1	1	Moisture, Percent		N	RPD	6.9	%	*				%SOL

%SOLIDS
METHOD REFERENCE: EPA 160.3M
MDL: 2.0
UNITS: %

Start 1115 (9/17) ANALYST: Lam
End 0800 (9/18) DATE: 9-17-96

GW 5911 (B) ~~Lwr I~~ 104°C (A) Clp 17.0 (C)

SAMPLE ID	G (WET) TOTAL WT	G TARE WT		G (WET) SAMP WT	G (DRY) TOTAL WT	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 E-14601-1	9.50	1.30	A		8.64		89.5	
E14601-1 DUP	7.11	1.29	B	6.54	~~8.54~~ 8.54 Lm		90.0	
2 E14601-2	9.80	1.30	C		9.18			
3								
4								
5								
6								
7								
8								
9								
10								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1 E14601-2	9.80	1.30	C		9.18			
REDRY 2								

COMMENTS: Lab

QC REVIEW: _____ DATE: 98

12/7/90

Naval Weapon Station Earle
Hydro-Sep Run Summary
Date: By:
08-Oct-96 MFW

Table 1

Date	Run Start	Run Stop	Run Time	RUN TOTAL															Process Rate (tons/ho	Total Process (tons)
				P cessed Sand			Jig Sand			1 inch plus			Fines Cak			Lead Concentrate				
				Truck Count (25 cy loads)	Volume (cy)	Weight (tons)	Bin Count (2.5 cy bins)	Volume (cy)	Weight (tons)	Bin Count 2.5 cy bins)	Volume (cy)	Weight (tons)	Rolloff Count (20 cy rolloffs)	Volume (cy)	Weight (tons)	Drum Count (20 gal. drums)	Volume (gal)	Weight (tons)		
13-Sep-96	1400	1600	2	0.5	12.5	19	0	0	0	0	0	0	0	0	0	0.25	5	0.1	9	19
14-Sep-96	1300	1400	1	0.5	12.5	19	0	0	0	0	0	0	0	0	0	0.25	5	0.1	19	19
15-Sep-96	1100	1200	1	0.5	12.5	19	1	2.5	4	0	0	0	0	0	0	0.25	5	0.1	23	23
16-Sep-96	800	1200	4	3	75	113	3	7.5	11	1	2.5	4	0.66	13.2	16	1	20	0.6	36	144
17-Sep-96	1000	1100	1	1	25	38	1	2.5	4	1	2.5	4	0.67	13.4	16	0.5	10	0.3	61	61
18-Sep-96	800	1100	3	3	75	113	3	7.5	11	2	5	8	0.67	13.4	16	0.5	10	0.3	49	148
	1300	1500	2	2	50	75	2	5	8	1	2.5	4	0.67	13.4	16	0.5	10	0.3	51	103
19-Sep-96	1300	1700	4	3	75	113	2	5	8	1	2.5	4	0.67	13.4	16	1	20	0.6	35	140
20-Sep-96	1000	1400	4	5	125	188	2	5	8	2	5	8	0.67	13.4	16	2	40	1.1	55	220
21-Sep-96	900	1300	4	6	150	225	2	5	8	1	2.5	4	0.67	13.4	16	1	20	0.6	63	253
23-Sep-96	900	1000	1	1	25	38	1	2.5	4	0	0	0	0	0	0	0	0	0.0	41	41
24-Sep-96	900	1100	2	3	75	113	3	7.5	11	2	5	8	0.67	13.4	16	3	60	1.7	75	149
26-Sep-96	900	1200	3	3	75	113	3	7.5	11	1	2.5	4	0.67	13.4	16	6	120	3.4	49	147
27-Sep-96	1000	1100	1	1	25	38	1	2.5	4	1	2.5	4	0	0	0	3	60	1.7	47	47
				Total	813	1219	Total	60	90	Total	33	49	Total	120	144	Total	385.0	11.0	Total	1513

ACCUTEST

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OCT 02 199
METCALF & EDDY, INC.
BRANCHBURG, NJ

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FOR
INORGANIC USEPA/CLP METHODS
(Multi-Media, Multi-Concentration)

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-1

Level (low/med): LOW Date Received: 09/20/96

% Solids: 54.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1510		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-2

Level (low/med): LOW Date Received: 09/20/96

% Solids: 77.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	38.3		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-200-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-3

Level (low/med): LOW Date Received: 09/20/96

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	34.9		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-300-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-4

Level (low/med): LOW Date Received: 09/20/96

% Solids: 79.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	66.2		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-BIN-SED1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-5

Level (low/med): LOW Date Received: 09/20/96

% Solids: 91.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	360		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

30

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: EARLE NWS
Job/Project Location: COLTS NECK NJ
Job/Project Number: 019855

Samplers: (Signatures) [signature]
Recorder: (Signature) [signature]
Date: 9/20/96

Lab (Samples Sent To): ACCUTEST

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil				COMPOSITE/GRAB	PRESERVATIVE (Y/N)	TOTAL LEAD (BY CLP METHODS)							Total #	COMMENTS
9/17/96	11:00	SR-CLAR-SED1	CLARIFIER		X	E14721-1			G	N	X		←	24 HR	TURN				OK!
9/17/96	14:00	SR-100-PS	PROCESS SOIL		X			-2	G	N	X		←	14 DAY	TURN				
9/18/96	15:00	SR-200-PS	PROCESS SOIL		X			-3	G	N	X		←	14 DAY	TURN				
9/19/96	14:10	SR-300-PS	PROCESS SOIL		X			-4	G	N	X		←	14 DAY	TURN				
9/18/96	9:30	SR-BIN-SED1	JG BIN SEDIMENT		X			-5	G	N	X		←	24 HR	TURN				

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	9/20/96	0912					[signature]
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	9/20/96	1018	[signature]				
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
						FULL/OLD paper previous job. NVB 9.20.96	

Method of Shipment:

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager.

50

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARICOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/20/96	Military Time Seal Broken 1010
Accutest Job No.	Analytical Parameter/Fraction PD	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14721-1			
E14721-2			
E14721-3			
E14721-4			
E14721-5			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/20/96	1100	PRINTED NAME R. VAN BLARICOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/20/96	1300	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/20/96	1400	PRINTED NAME Patel Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/20/96	18 00	PRINTED NAME Patel Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Digest storage
9/20/96	18 15	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	ICP analysis
9/20/96	20 00	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

SO

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/20/96	Military Time Seal Broken 1040
Accutest Job No.	Analytical Parameter/Fraction 90 SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14721-1			
E14721-2			
E14721-3			
E14721-4			
E14721-5			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/20/96	1100	PRINTED NAME R. VAN BLARCOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/23/96	0400	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Len MacLean SIGNATURE Len MacLean	To Solex
9/23/96	0930	PRINTED NAME Len MacLean SIGNATURE Len MacLean	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

ACCUTEST.

INORGANIC METHODOLOGY SUMMARY - SOIL MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis.

A representative 1g (nominal weight) sample is digested with nitric acid and hydrogen peroxide. If the digestate is to be analyzed for Sb by graphite furnace AAS or any other metals by flame AAS or ICP, a final reflux with hydrochloric acid is also done. After digestion, the sample is filtered and brought up to the final volume with DI water. A separate aliquot of the sample is dried for the percent solids determination.

Metals by Graphite Furnace Atomic Absorption.

A representative aliquot of the digested soil sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector that measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of only the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals By Flame Atomic absorption.

For flame AAS, the digested soil sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

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Metals by Inductively Coupled Plasma (ICP)

Icp is a technique for simultaneous or sequential multielement determinations. The basis of this method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Soils.

A measured volume of sample is acid digested utilizing an autoclave. Mercury is the analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury is reduced to the elemental state and aerated from the solution in a closed system. The mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measure as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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Inorganics Conformance Summary
for Job E14721

Note 1: The results on the CLP forms may differ slightly from those on the raw data due to rounding differences.

Note 2: Comments on specific analysis results are listed by analysis type below. If no problems were encountered on a run, no comments are included below.

Note 3: The ICP analyses were done using the TJA Trace ICP. On this ICP, there are two lines for lead, antimony, and selenium. Two lines are used so that a background correction calculation can be applied and a single result reported. However, separate interfering element corrections are required for each line. On forms 11a and 11b, the corrections are shown for each line by entering two headings for each of the interfering elements.

Note 4: Due to space considerations, only abbreviations of the sources could be entered on forms 2A, 2B, 4 and 7. A full list of sources for all QC check standards follows this conformance summary.

ICP Analysis, 09/20/96, Soils:

1. The relative percent difference between the sample and the duplicate was high for lead for sample SR-200-PS. Therefore all associated samples were flagged with a * for lead. Note: This sample appeared to be a mostly homogeneous sandy soil, but did contain varying amounts of small black particulate.

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Standard Source Lots

Standard Sources

All regular metals-Inorganic Ventures: #L-MEB54104

Al, Ca, Fe, Mg, K, Na-Inorganic Venture: #L-MEB56113

Ag-MV Laboratories: #AgP11

V-MV Laboratories: #VP101

ICV & CCV Sources

All regular metals-Environmental Express: #690220

Ag-Ultra Scientific: #94701070

Al-MV Laboratories: #ALP101

Ba-MV Labs: #BAP1I

K-Spex: #K4-61K

Na-MV Labs: #NAP10L

Fe-Ultra Scientific: #1C-0130

Mg-Ultra Scientific: #1011201113

Ca-MV Laboratories: #W1295MS

EAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-29-96	Mg	MV LAB	P295 LMS	8-97	50	1000	ML
	AL		ALP 10J	6-97	50		
	Ca		W1295 MS	7-97	50		
	Fe		FEP10M	7-97	20		

AGENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-20-96	Mg	MV labs	P29J LMB	8-97	50	1000	NS
	AL		ALP 10J	6-97	50		
	Ca		W129 SMJ	7-97	50		
	Fe		fe P10M	7-97	20		
	As	fisher	960121 A24	11-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	fisher	950335 A18	8-96	1.0		
	Sb	MV lab	8-83AJ	1-97	1.0		
	Ag cd Ni Pb Zn Ba Be Co Cr	Environmd	5911B	6-97	10		
	Cu Mn V						

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRIA - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
6-25-96	AS	fisher	960121 A-24	11-97	0.4	100	NS
	TL	Baker	J02568	1-97	0.4	100	
	Pb	SPEX	4-398PB	6-96	0.12	100	
	Se	fisher	950335 A-18	8-96	0.20	100	
	Sb	fisher	940011 D-24	7-96	0.20	100	

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRI - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-1-96	Ba	MV LAB	BAP11	3-97	60	100	
	CO	MV LAB	COP1F	1-97	1.2 ~~1.6~~		
	Ag	MV LAB	AGP11	5-97	0.4		
	Sb	MV LAB	SBP11	3-97	2.4		
	B	Fisher Sc	955017-24	sep 1997	2.0		
	V	MV LAB Intern	VP10	10-22-93	2.0		
	MO	Fisher	9536326-24	Jun 1997	2.0		
	AS TL Pb Se	High Purity Std	591222	1-97	0.75		
	Ba As Mn Ni Be Se Co Na Cd	High Purity Std	591227	1-97	2.0		
	Pb Zn Cr TL Cu						

ACCUTEST

INORGANICS COMPLETE SDG FILE (SCF) INVENTORY SHEET

LABORATORY NAME : ACCUTEST LABORATORY
CITY/STATE : DAYTON, NJ

CASE NO.: _____ SDG NO.: _____ SDG NOS. TO FOLLOW: _____
SAS NO.:

CONTRACT NO.: SOW NO.: USEPA CLP INORGANICS SOW DOCUMENT IML 2.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Inventory Sheet (Form DC-2) (Do not number)	17	18	✓	
2. SDG Case Narrative	11	16	✓	
3. Cover Page	19	19	✓	
4. Inorganic Analysis Data Sheet (Form I-IN)	20	24	✓	
5. Initial & Continuing Calibration Verification (Form IIA-IN)	25	26	✓	
6. CRDL Standards for AA and ICP (Form IIB-IN)	27	27	✓	
7. Blanks (Form III-IN)	28	29	✓	
ICP Interference Check Sample (Form IV-IN)	30	30	✓	
9. Spike Sample Recovery (Form VA-IN)	31	31	✓	
10. Post Digest Spike Sample Recovery (Form VB-IN)	N/A	N/A	N/A	
11. Duplicates (Form VI-IN)	32	32	✓	
12. Laboratory Control Sample (Form VII-IN)	33	33	✓	
13. Standard Addition Results (Form VIII-IN)	N/A	N/A	N/A	
14. ICP Serial Dilutions (Form IX-IN)	34	34	✓	
15. Instrument Detection Limits (Form X-IN)	38	38	✓	
16. ICP Interelement Correction Factors (Form XIA-IN)	39	39	✓	
17. ICP Interelement Correction Factors (Form XIB-IN)	40	42	✓	
18. ICP Linear Ranges (Form XII-IN)	43	43	✓	
19. Preparation Log (Form XIII-IN)	35	35	✓	
20. Analysis Run Log (Form XIV-IN)	36	37	✓	
21. ICP Raw Data	44	88	✓	
22. Furnace AA Raw Data	N/A	N/A	N/A	
23. Flame AA Raw Data	N/A	N/A	N/A	
. Mercury Raw Data	N/A	N/A	N/A	
.. Cyanide Raw Data	N/A	N/A	N/A	
26. Preparation Logs Raw Data	89	90	✓	

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ACCUTEST

	PAGE NOs. FROM	TO	CHECK LAB	REGION
27. Percent Solids Determination Log	91	92	✓	
28. Traffic Report	N/A	N/A	-	
29. Region Shipping/Receiving Documents				
Airbill (No. of Shipments_____)	N/A	N/A	-	
Chain-of-Custody Records	6	6		
Sample Tags	N/A	N/A	-	
Sample Log-In Sheet (Lab & DC1)	N/A	N/A	-	
SDG Cover Sheet	N/A	N/A	-	
30. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	
31. Internal Lab Sample Transfer Records & Tracking sheets (describe or list)	7	8	✓	
	N/A	N/A	-	
	N/A	N/A	-	
32. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	N/A	N/A	-	
Analysis Records	N/A	N/A	-	
Description	N/A	N/A	-	
33. Other Records (describe or list)				
Telephone Communication Log	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	

34. Comments:

Completed by : Nancy F. Cole — Nancy F. Cole Inorganics Manager — 10/1/96

(Lab) (Signature) (Print Name & Title) (Date)

Audited by : _____ _____ _____

(Region) (Signature) (Print Name & Title) (Date)

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

ame: ACCUTEST_____ Contract: NA_____

ab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.:E14721__

OW No.: 3/90_

Client Sample No.	Lab Sample ID
_SR-BIN-SED1__	__E14721-5____
SR-CLAR-SED1	__E14721-1____
_SR-100-PS____	__E14721-2____
_SR-200-PS____	__E14721-3____
_SR-300-PS____	__E14721-4____

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:
_____SEE_CONFORMANCE_SUMMARY_FOR_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. 9/30

Signature: Nancy F. Cole Name: Nancy F. Cole

Date: Sept. 30, 1996 Title: Inorganics Manager

COVER PAGE - IN ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED1

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No.: NA SDG No.: E14721

atrix (soil/water): SOIL Lab Sample ID: E14721-1

evel (low/med): LOW Date Received: 09/20/96

Solids: 54.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1510		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-2

Level (low/med): LOW Date Received: 09/20/96

% Solids: 77.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	38.3		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-200-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-3

Level (low/med): LOW Date Received: 09/20/96

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	34.9		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-300-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-4

Level (low/med): LOW Date Received: 09/20/96

% Solids: 79.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	66.2		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-BIN-SED1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Matrix (soil/water): SOIL Lab Sample ID: E14721-5

Level (low/med): LOW Date Received: 09/20/96

% Solids: 91.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	360		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/BROWN Clarity Before: Texture: SANDY

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14721

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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	1000.0	1022.31	102.2	2000.0	1961.89	98.1	1975.02	98.8	P
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

FORM II (PART 1) - IN

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ıab Name: ACCUTEST_____ Contract: NA_____

ıab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14721__

:nitial Calibration Source: SPEX/US/QC-1

:ontinuing Calibration Source: SPEX/US/QC-1

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
' yllium									NR
mium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				2000.0	1972.98	98.6	1965.06	98.3	P
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

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

AA CRDL Standard Source:

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.13	102.2	6.61	110.2
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

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	1.0	U	1.0	U	1.0	U	1.2	B	0.478	B	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

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			1.0	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

ICP INTERFERENCE CHECK SAMPLE

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No: NA SDG No.: E14721

CP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	456358	461300.0	92.3	454184	460307.9	92.1
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	416748	414917.7	83.0	414917	420431.9	84.1
Chromium								
Cobalt								
Copper								
Iron	200000	200000	184065	184388.3	92.2	183519	186377.7	93.2
Lead	0	1000	0	931.5	93.2	1	936.8	93.7
Magnesium	500000	500000	500083	499911.6	100.0	498580	504227.4	100.8
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

SR-200-PSS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

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

% Solids for Sample: 94.9

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	75-125	162.5016		34.8641		105.37	121.1		P
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:

FORM V (Part 1) - IN ILMO2.1

6
DUPLICATES

CLIENT SAMPLE NO.

SR-200-PSD

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

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

% Solids for Sample: 94.9 % Solids for Duplicate: 94.9

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		34.8641		45.6733		26.8	*	P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN

ILMO2.1

7

LABORATORY CONTROL SAMPLE

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14721

Solid LCS Source: EPA 228_____

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				70.4	64.9		37.3	100.0	92.2
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

SR-200-PSL

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

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							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	165.43		164.49		0.6		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN

ILM02.1

13
PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS-9-20	09/20/96	1.00	200
PBS-9-20	09/20/96	1.00	200
SR-100-PS	09/20/96	1.00	200
SR-200-PS	09/20/96	1.00	200
SR-200-PSD	09/20/96	1.00	200
SR-200-PSS	09/20/96	1.00	200
SR-300-PS	09/20/96	1.00	200
SR-BIN-SED1	09/20/96	1.00	200
SR-CLAR-SED1	09/20/96	1.00	200

FORM XIII - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.: E14721

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/20/96

End Date: 09/20/96

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
STANDARD A	1.00	1911		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
STANDARD B	1.00	1916		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
STANDARD C	1.00	1919		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
STANDARD D	1.00	1923		_	_	X	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	_	X	X	_	X	_
STANDARD E	1.00	1927		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_
STANDARD F	1.00	1930		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_
STANDARD G	1.00	1932		X	_	_	_	_	_	X	_	_	_	X	_	X	_	_	_	X	_	_	X	_	_	_	_
ICV-1	1.00	1935		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB-1	1.00	1940		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
-1	1.00	1945		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-1	1.00	1949		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-1A	1.00	1954		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-1	1.00	1958		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICSA-1	1.00	2003		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
ICSAB-1	1.00	2008		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
CCV-2	1.00	2012		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-2	1.00	2017		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
PBS-9-20	1.00	2024		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSS-9-20	1.00	2029		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-200-PSD	1.00	2033		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-200-PSS	1.00	2038		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-200-PS	1.00	2042		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-200-PSL	5.00	2047		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-CLAR-SED1	1.00	2052		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-100-PS	1.00	2056		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-300-PS	1.00	2101		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV-3	1.00	2105		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-3	1.00	2110		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-BIN-SED1	1.00	2115		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
SR-200-PSD	1.00	2120		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-2A	1.00	2125		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI-2	1.00	2132		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

FORM XIV - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.:E14721

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/20/96

End Date: 09/20/96

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
ICSA-2	1.00	2141		X						X				X	X	X											
ICSAB-2	1.00	2145		X						X				X	X	X											
CCV-4	1.00	2150													X												
CCB-4	1.00	2154													X												

FORM XIV - IN ILM02.1

Instrument Detection Limits (Quarterly)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA_TRACE-Y_ Date: 06/27/96

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	22.0	P
Antimony	206.83		60	2.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	0.3	P
Beryllium	313.04		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	66.0	P
Chromium	267.72		10	0.7	P
Cobalt	228.62		50	0.7	P
Copper	324.75		25	0.7	P
Iron	271.44		100	24.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	15.0	P
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	15.0	P
Selenium	196.02		5	3.0	P
Silver	328.07		10	0.7	P
Sodium	588.99		5000	9.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		50	0.6	P
Zinc	213.86		20	1.0	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AL
Aluminum	308.22	0.0000000	-0.0002400	-0.0001200	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000280	0.0000000	0.0000100
Arsenic	189.04	0.0000080	0.0000000	-0.0000100	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000060	0.0000000	0.0001550	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000030	0.0000000	-0.0000200	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000160	0.0000000	0.0000000	0.0000020	0.0000000
Iron	271.44	-0.0004800	-0.0000200	0.0000000	0.0000210	0.0000000
Lead	220.35	0.0004640	-0.0000100	0.0000570	0.0000020	-0.0002000
Magnesium	279.08	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Manganese	257.61	0.0000060	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000100	-0.0000400	0.0000000	0.0000070
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	-0.0008200	0.0000000	0.0000000	0.0000000	0.0009320
Thallium	190.86	0.0000000	-0.0000300	-0.0001000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000190	0.0000010	0.0001120	0.0000020	0.0000000

Comments:
Be, Cd, Cr, Cu, Zn, As, Tl, Pb, Sb, Se modified 9/5/96; Mn, Ag modified 7/12; V modified 5/20.

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CA	CO	CR	CR	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0127200	0.0074840	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	-0.0000800	0.0000000	0.0000570
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0816000	0.0000000	-0.0000200	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0006240
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	-0.0000200	0.0000610	0.0000180	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0001450	0.0000000	-0.0000600
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0025200	0.0002920	0.0000000	-0.0000400
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0000800	0.0000030	0.0000000	0.0003820

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	FE	MG	MN	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000250	0.0000020	0.0000000	0.0000830
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001240
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0003700	0.0000000	0.0000000
Lead	220.35	-0.0000600	0.0000760	0.0000000	0.0001180	-0.0000600
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	0.0000000	-0.0002700	0.0000000	0.0001840	-0.0000800
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000090
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0007190
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : NI	NI	V	V	
Aluminum	308.22	0.0000000	0.0000000	0.0030800	0.0000000	
Antimony	206.83	-0.0010600	0.0000000	0.0001110	-0.0068400	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001290	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	-0.0017200	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0002960	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0040000	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0083200	
Lead	220.35	0.0003510	0.0000180	-0.0012000	0.0002820	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001300	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0001520	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	0.0000000	0.0000000	0.0000150	0.0000000	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001980	
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	-0.0000900	0.0000000	0.0014400	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0042700	0.0000000	0.0002620	

Comments:

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14721

ICP ID Number: TJA TRACE-Y Date: 06/25/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	50000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	1000000.0	P
Chromium	10.00	50000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	50000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	750000.0	P
Thallium	10.00	50000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

INSTRUMENT RUN LOG
ICP and GF Analyses

Login Number: E14721
Account: MENJ - Metcalf & Eddy
Project: MENJ4548 - Earle Naval Weapons Station, Colts Neck,

File ID: IC0920S2.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/20/96
Run ID: MA2294

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:35	MA2294-ICV1	1		
19:40	MA2294-ICB1	1		
19:45	MA2294-CCV1	1		
19:49	MA2294-CCB1	1		
19:54	MA2294-CRIA1	1		
19:58	MA2294-CRI1	1		
20:03	MA2294-ICSA1	1		
20:08	MA2294-ICSAB1	1		
20:12	MA2294-CCV2	1		
20:17	MA2294-CCB2	1		
20:24	MP2766-MB1	1		PBS-9-20
20:29	MP2766-LC1	1		LCSS-9-20
20:33	MP2766-D1	1		E14721-3D
20:38	MP2766-S1	1		E14721-3S
20:42	E14721-3	1		
20:47	MP2766-SD1	5		E14721-3L
20:52	E14721-1	1		
20:56	E14721-2	1		
21:01	E14721-4	1		
21:05	MA2294-CCV3	1		
21:10	MA2294-CCB3	1		
21:15	E14721-5	1		
21:20	MP2766-D1	1		E14721-3D Run for confirmation only.
21:25	MA2294-CRIA2	1		
21:32	MA2294-CRI2	1		
21:41	MA2294-ICSA2	1		
21:45	MA2294-ICSAB2	1		
21:50	MA2294-CCV4	1		
21:54	MA2294-CCB4	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00002	-.00038	-.00003	-.00008	.00001	.00107	.00003
SDev	.00000	.00001	.00003	.00000	.00002	.00002	.00000
%RSD	.61561	1.9708	110.69	4.3971	131.58	1.7421	4.4133
#1	.00002	-.00037	-.00004	-.00007	.00001	.00106	.00003
#2	.00002	-.00038	.00001	-.00008	.00003	.00110	.00003
#3	.00002	-.00038	-.00006	-.00008	-.00000	.00107	.00003

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.00079	-.00000	-.00016	.00002	.00002	-.00048	.00022
SDev	.00007	.00003	.00000	.00000	.00007	.00019	.00056
%RSD	9.3967	719.37	2.0817	13.694	307.60	39.356	256.94
#1	.00086	-.00004	-.00016	.00002	-.00005	-.00070	-.00056
	.00071	.00001	-.00016	.00002	.00010	-.00035	.00024
	.00078	.00002	-.00016	.00002	.00002	-.00039	.00075

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.00000	-.00050	.00006	-.00027	.00054	.00399	.00002
SDev	.00013	.00053	.00016	.00003	.00014	.00004	.00000
%RSD	5570.5	106.05	256.00	11.328	26.416	1.0042	.61361

#3	-.00018	-.00073	.00024	-.00028	.00001	.00401	.00002

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00020	.00008	.00006	.00008	.00022
SDev	.00005	.00003	.00003	.00001	.00000

%RSD	22.761	40.090	46.367	13.953	.79249
#1	.00025	.00005	.00003	.00009	.00022
#2	.00020	.00011	.00008	.00009	.00022
#3	.00016	.00010	.00006	.00007	.00022

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	394549	--	--	--	--	--	--
SDev	2435.906	--	--	--	--	--	--
%RSD	.6173905	--	--	--	--	--	--
#1	397302	--	--	--	--	--	--
#2	392674	--	--	--	--	--	--
#3	393670	--	--	--	--	--	--

Method: EPA3 Standard: STD8

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00483	.04040	.08972	.03037	.02064	.02040	[illegible]
SDev	.00003	.00026	.00042	.00021	.00017	.00017	[illegible]
%RSD	.77876	.65681	.46906	.70047	.80349	.85073	[illegible]

#2	.00481	.04017	.08930	.03021	.02050	.02030	.01403
#3	.00437	.04069	.09015	.03061	.02082	.02060	.01421

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.03145	.00385	.00381	.00895	.01928	.04362	.06056
SDev	.00011	.00004	.00003	.00005	.00013	.00074	.00017
%RSD	.34918	1.0760	.70715	.58906	.69080	1.6881	.27680
#1	.03141	.00385	.00380	.00893	.01924	.04280	.06064
#2	.03136	.00381	.00379	.00891	.01917	.04384	.06037
#3	.03157	.00389	.00384	.00901	.01943	.04422	.06067

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.04456	.05432	.03221	.01141	.03186	.04330	.00102
SDev	.00072	.00063	.00011	.00014	.00045	.00031	.00001
%RSD	1.6100	1.1655	.34521	1.2150	1.4020	.71157	.57372
#1	.04414	.05395	.03230	.01138	.03139	.04313	.00102
#2	.04415	.05397	.03209	.01129	.03194	.04312	.00101
#3	.04539	.05506	.03225	.01156	.03227	.04366	.00103

Elem	Fe2714	Mg2790	Na5889
Avge	.03843	.03380	.00199
SDev	.00025	.00026	.00001
%RSD	.64804	.78560	.35390
#1	.03847	.03372	.00199
#2	.03816	.03357	.00199
#3	.03865	.03409	.00198

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	390722	--	--	--	--	--	--
SDev	3346.508	--	--	--	--	--	--
%RSD	.8564926	--	--	--	--	--	--
#1	392027	--	--	--	--	--	--
#2	393220	--	--	--	--	--	--
#3	386920	--	--	--	--	--	--

Method: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00875	.08201	.18077	.06148	.04162	.04036	.02848
SDev	.00003	.00031	.00044	.00020	.00015	.00013	.00009
%RSD	.34009	.37510	.24298	.32232	.34864	.31649	.32508
#1	.00878	.08236	.18127	.06171	.04179	.04050	.02859
#2	.00873	.08191	.18056	.06140	.04154	.04028	.02843
#3	.00874	.08177	.18047	.06133	.04154	.04029	.02843

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1

AMSD	.30232	.27438	.33666	.21333	.19274	.24303	1.0251
#1	.06290	.00782	.00789	.01800	.03903	.08943	.12243
#2	.06288	.00781	.00785	.01794	.03891	.08929	.12021
#3	.06256	.00778	.00784	.01792	.03889	.08900	.12041
Elem	2203/1	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.09071	.11161	.06538	.02359	.06427	.07064	.00171
SDev	.00016	.00008	.00026	.00008	.00007	.00021	.00001
%RSD	.20113	.07408	.40547	.33488	.11468	.30004	.38587
#1	.09079	.11154	.06568	.02352	.06434	.07085	.00172
#2	.09086	.11170	.06518	.02368	.06419	.07042	.00171
#3	.09052	.11159	.06528	.02357	.06427	.07064	.00171

Elem	Fe2714	Mg2790	Na5889
Avge	.06475	.05729	.00327
SDev	.00019	.00023	.00001
%RSD	.28714	.40560	.31294
#1	.06484	.05756	.00328
#2	.06487	.05721	.00326
#3	.06453	.05711	.00327

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	386362	--	--	--	--	--	--
SDev	601.9477	--	--	--	--	--	--
%RSD	.1557989	--	--	--	--	--	--
#1	385681	--	--	--	--	--	--
#2	386582	--	--	--	--	--	--
#3	386823	--	--	--	--	--	--

Method: EPA3 Standard: STDD

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.04262	.40846	.88957	.30516	.20653	.19186	.14107
SDev	.00013	.00181	.00447	.00133	.00099	.00059	.00057
%RSD	.29674	.44217	.50216	.43451	.48139	.30712	.40106
#1	.04277	.40656	.88471	.30376	.20547	.19250	.14047
#2	.04258	.40868	.89048	.30533	.20670	.19172	.14114
#3	.04252	.41015	.89350	.30640	.20744	.19135	.14159

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.30765	.08304	.19166	.44680	.59484	.44866	.11654
SDev	.00081	.00032	.00061	.00077	.00099	.00236	.00038
%RSD	.26422	.37977	.31752	.17258	.16668	.52627	.32159
#1	.30709	.08371	.19104	.44660	.59378	.44599	.11622

Elem	1960/2	Na5889
Avge	.31329	.03711
SDev	.00197	.00027
%RSD	.62988	.72461
	.31101	.03739
#2	.31443	.03708
#3	.31442	.03685

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385539	--	--	--	--	--	--
SDev	1127.624	--	--	--	--	--	--
%RSD	.2924799	--	--	--	--	--	--
#1	386759	--	--	--	--	--	--
#2	385323	--	--	--	--	--	--
#3	384535	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Ag3280	2068/1	2068/2
Avge	.03710	.52306	.31213
SDev	.00044	.02521	.00401
%RSD	1.1893	4.8199	1.2839
#1	.03659	.49395	.30752
#2	.03736	.53728	.31474
#3	.03734	.53795	.31414

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390735	--	--	--	--	--	--
SDev	4544.803	--	--	--	--	--	--
%RSD	1.163141	--	--	--	--	--	--
#1	395973	--	--	--	--	--	--
#2	388400	--	--	--	--	--	--
#3	387833	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.04077
SDev	.00009
%RSD	.22019
#1	.04070

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	386419	--	--	--	--	--	--
SDev	4219.149	--	--	--	--	--	--
%RSD	1.091859	--	--	--	--	--	--
#1	381799	--	--	--	--	--	--
#2	390068	--	--	--	--	--	--
#3	387390	--	--	--	--	--	--

Method: EPA3 Standard: STDG

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.53019	.01328	.50244	.46339	.10793	.02749
SDev	.00205	.00007	.00152	.00055	.00044	.00009
%RSD	.38607	.52888	.30246	.11758	.40732	.31261
#1	.52786	.01336	.50419	.46393	.10763	.02740
#2	.53168	.01323	.50152	.46284	.10844	.02756
#3	.53104	.01324	.50160	.46338	.10774	.02752

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	384466	--	--	--	--	--	--
SDev	1481.702	--	--	--	--	--	--
%RSD	.3853925	--	--	--	--	--	--
#1	385757	--	--	--	--	--	--
#2	384792	--	--	--	--	--	--
#3	382848	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/20/96 19:35:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0307	1.0167	1.0183	1.0215	1.0138	1.0026	1.0185
Dev	.0050	.0030	.0026	.0027	.0028	.0044	.0030
%RSD	.48621	.29082	.25476	.26560	.27645	.43783	.29400
#1	1.0249	1.0133	1.0153	1.0184	1.0105	.99755	1.0150
#2	1.0341	1.0178	1.0201	1.0233	1.0152	1.0037	1.0208
#3	1.0330	1.0189	1.0195	1.0228	1.0156	1.0045	1.0204
	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0143	.50187	1.0049	1.0289	.96252	.98987	1.0196
SDev	.0032	.00136	.0020	.0027	.00754	.00466	.0072
%RSD	.31907	.27035	.20345	.25810	.78367	.47074	.70212
#1	1.0105	.50036	1.0026	1.0260	.95400	.98484	1.0125
#2	1.0162	.50298	1.0061	1.0295	.96833	.99074	1.0197
#3	1.0161	.50226	1.0061	1.0312	.96525	.99404	1.0268
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0236	1.0194	1.0056	1.0191	1.0237	Q1.0637	1.0326
SDev	.0025	.0077	.0084	.0086	.0058	.0071	.0028
%RSD	.24599	.75683	.83316	.84104	.56288	.67126	.26651
#1	1.0243	1.0106	.99737	1.0093	1.0171	Q1.0565	1.0353
#2	1.0208	1.0228	1.0053	1.0252	1.0264	Q1.0708	1.0298
#3	1.0257	1.0249	1.0141	1.0227	1.0276	Q1.0639	1.0325
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass
Value						1.0000	1.0000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0354	1.0025	Q1.0641	1.0208	1.0223	1.0222	1.0102
SDev	.0061	.0016	.0095	.0082	.0033	.0066	.0080
%RSD	.58466	.15758	.89665	.80456	.32184	.63933	.79243
#1	1.0418	1.0043	Q1.0597	1.0272	1.0204	1.0145	1.0018
#2	1.0346	1.0015	Q1.0751	1.0235	1.0208	1.0260	1.0112
#3	1.0298	1.0017	Q1.0576	1.0115	1.0261	1.0260	1.0177
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389012	--	--	--	--	--	--
SDev	2276.567	--	--	--	--	--	--
%RSD	.5852183	--	--	--	--	--	--
#1	391585	--	--	--	--	--	--
#2	388190	--	--	--	--	--	--
#3	387260	--	--	--	--	--	--

Run time: 09/20/96 19:40:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00039	.00018	.00017	.00039	.00045	.00035	.00021
SDev	.00015	.00009	.00016	.00052	.00064	.00023	.00011
%RSD	37.312	49.988	93.822	133.61	142.67	65.067	50.963
#1	.00022	.00027	.00035	.00001	-.00019	.00030	.00032
#2	.00047	.00017	.00004	.00017	.00045	.00061	.00011
#3	.00047	.00010	.00013	.00098	.00110	.00015	.00019
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00121	.00014	-.00018	.00039	-.00086	-.00064	.00352
SDev	.00065	.00022	.00044	.00006	.00160	.00089	.00144
%RSD	54.128	159.61	241.74	15.910	185.44	137.96	40.970
#1	.00060	.00005	.00024	.00046	.00082	-.00111	.00455
#2	.00190	-.00002	-.00015	.00035	-.00104	.00038	.00187
#3	.00112	.00038	-.00064	.00036	-.00236	-.00120	.00413
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00057	-.00150	.00247	.00203	-.00021	.01977	.00558
SDev	.00230	.00328	.00102	.00282	.00166	.00462	.00833
%RSD	406.04	218.67	41.428	138.84	790.57	23.393	149.34
#1	-.00105	-.00034	.00357	.00094	-.00212	.01447	.01520
#2	.00194	.00105	.00155	.00523	.00085	.02299	.00082
#3	-.00258	-.00520	.00228	-.00008	.00064	.02185	.00071
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00127	.00976	.01475	.01343	.00082	.00055	.0011[illegible]
SDev	.01474	.00114	.00921	.00587	.00113	.00171	.00126
%RSD	1162.8	11.691	62.436	43.706	138.28	307.90	107.80
#1	.01462	.01009	.00461	.01997	.00084	-.00106	[illegible]
#2	-.00393	.00850	.02258	.01171	.00194	.00233	[illegible]
#3	[illegible]	[illegible]	.01706	.00861	-.00082	.00042	-.00015

Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
de	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
pm	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	390745	--	--	--	--	--	--
SDev	1844.909	--	--	--	--	--	--
%RSD	.4721513	--	--	--	--	--	--
#1	392858	--	--	--	--	--	--
#2	389452	--	--	--	--	--	--
#3	389926	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/20/96 19:45:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9727	1.9667	1.9607	1.9624	1.9578	2.0068	1.9631
SDev	.0045	.0016	.0020	.0026	.0032	.0067	.0027
%RSD	.22894	.08310	.09983	.13467	.16425	.33379	.13532
#1	1.9779	1.9685	1.9625	1.9651	1.9611	2.0144	1.9660
#2	1.9709	1.9662	1.9586	1.9624	1.9575	2.0044	1.9626
#3	1.9694	1.9653	1.9611	1.9598	1.9547	2.0017	1.9607

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9657	.24341	1.9923	1.9500	1.9741	1.9081	1.9513
SDev	.0024	.00061	.0033	.0031	.0022	.0038	.0054
%RSD	.12420	.25215	.16411	.15890	.10947	.19199	.27773
#1	1.9669	.24366	1.9959	1.9534	1.9765	1.9623	1.9564
#2	1.9673	.24386	1.9913	1.9491	1.9736	1.9567	1.9534
#3	1.9629	.24271	1.9896	1.9474	1.9723	1.9552	1.9451

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NUCMECH
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9672	2.0173	1.9924	1.9735	1.9685	39.6381	[illegible]
SDev	.0127	.0101	.0039	.0077	.0134	.149	.071
%RSD	.64613	.50152	.19433	.39005	.70663	.37704	[illegible]

#3	1.9582	2.0122	1.9899	1.9646	1.9552	39.509	39.479
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.273	39.692	40.614	39.798	1.9619	1.9702	2.0008
SDev	.088	.087	.323	.172	.0099	.0115	.0059
%RSD	.22333	.21963	.79426	.43166	.50474	.58231	.29656
#1	39.374	39.784	40.986	39.944	1.9730	1.9813	2.0076
#2	39.220	39.681	40.415	39.841	1.9589	1.9709	1.9973
#3	39.225	39.610	40.440	39.608	1.9538	1.9584	1.9973
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	384378	--	--	--	--	--	--
SDev	614.6032	--	--	--	--	--	--
%RSD	.1598955	--	--	--	--	--	--
#1	383770	--	--	--	--	--	--
#2	384365	--	--	--	--	--	--
#3	384999	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/20/96 19:49:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.00010	.00025	.00049	.00053	.00078	.00020
SDev	.00015	.00013	.00022	.00043	.00024	.00024	.00010
%RSD	99.535	134.24	87.744	87.561	44.639	30.157	50.858
#1	-.00002	.00024	.00049	.00032	.00044	.00102	.00031
#2	.00023	.00006	.00005	.00018	.00035	.00078	.00011
#3	.00024	-.00001	.00022	.00098	.00080	.00055	.00019
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Se2071
						ppm	ppm

%RSD	47.971	195.95	353.58	11.131	1054.6	302.19	10 .45
#1	.00074	.00127	.00058	.00057	.00275	0.00504	.0 103
#2	.00042	.00051	-.0000	.00047	-.00066	.00166	.0 060
	.00116	-.00046	-.00013	.00047	-.00290	-.00280	.0 303
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NO CHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	A13082	Ce.179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00091	-.00042	-.00016	.00696	-.00056	.01193	-.00482
SDev	.00132	.00212	.00114	.00419	.00451	.00989	.00838
%RSD	146.11	504.54	699.33	60.222	808.70	82.896	173.73
#1	-.00001	-.00249	-.00016	.00555	-.00554	.00165	-.00045
#2	-.00028	.00175	-.00130	.01168	.00325	.01276	.00046
#3	-.00243	-.00053	.00097	.00366	.00062	.02137	-.01449
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00477	.00390	.00741	.00890	.00016	.00196	-.00023
SDev	.01209	.00216	.00428	.00561	.00018	.00396	.00070
%RSD	253.64	55.489	57.766	63.083	112.11	201.68	305.55

#1	.01872	.00198	.00311	.01480	.00037	-.00183	-.00092
#2	-.00243	.00348	.00745	.00825	.00003	0.00607	-.00027
#3	-.00199	.00625	.01166	.00364	.00008	.00165	.00045
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391804	--	--	--	--	--	--
SDev	2800.369	--	--	--	--	--	--
%RSD	.7147378	--	--	--	--	--	--
#1	394918	--	--	--	--	--	--
#2	391000	--	--	--	--	--	--
#3	389493	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:

Run Time: 09/20/96 19:54:19

Comment:

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.00000	.00005	-.00007	.00126	.00085	.00032
SDev	.00000	.00006	.00006	.00020	.00023	.00004	.00004
%RSD	1.2301	1410.6	129.58	272.14	18.428	5.4469	12.647
	.00025	.00006	.00012	-.00007	.00106	.00080	.00034
#2	.00026	-.00003	.00000	.00013	.00152	.00089	.00027
#3	.00025	-.00002	.00002	-.00028	.00121	.00089	.00034
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00287	.00010	-.00015	.00195	.01692	.01764	.00953
SDev	.00113	.00025	.00015	.00007	.00192	.00090	.00158
%RSD	39.539	240.39	103.74	3.5070	11.344	5.1025	16.531
#1	.00160	-.00002	-.00003	.00203	.01743	.01723	.01056
#2	.00323	-.00006	-.00009	.00191	.01480	.01702	.00772
#3	.00378	.00039	-.00032	.00191	.01854	.01867	.01032
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00441	.00619	.00863	.00587	.01039	.02197	.01725
SDev	.00055	.00224	.00120	.00188	.00350	.00178	.00020
%RSD	12.445	36.141	13.911	32.110	33.734	8.1102	1.1611
#1	.00501	.00644	.00983	.00546	.00800	.02014	.01705
#2	.00395	.00829	.00742	.00792	.01442	.02206	.01743
#3	.00426	.00383	.00864	.00422	.00875	.02370	.01726
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Be1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00063	-.00201	.01072	.01678	.00614	.00890	.00784
SDev	.00582	.00141	.00271	.00026	.00084	.00292	.00083
%RSD	922.69	70.070	25.296	1.5626	13.710	32.768	10.656
#1	.00365	-.00355	.01065	.01708	.00688	.00718	.00872
#2	.00172	-.00078	.00805	.01667	.00523	.01227	.00773
#3	-.00726	-.00171	.01347	.01659	.00630	.00726	.00706
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

Elem	[illegible]	--	--	--	--	--	--
Wavlen	271.030	--	--	--	--	--	--
Avge	385412	--	--	--	--	--	--
SDev	713.1960	--	--	--	--	--	--
%RSD	.1850477	--	--	--	--	--	--
#1	386135	--	--	--	--	--	--
#2	384709	--	--	--	--	--	--
#3	385393	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/20/96 19:58:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38167	.00944	.00955	.09654	.02058	.04855	.02856
SDev	.00095	.00002	.00023	.00095	.00063	.00039	.00001
%RSD	.24987	.25884	2.3626	.98069	3.0359	.80942	.03446
#1	.38158	.00945	.00959	.09651	.02075	.04887	.02856
#2	.38266	.00941	.00930	.09560	.01988	.04867	.02855
#3	.38076	.00945	.00974	.09749	.02110	.04811	.02857
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07564	.02012	.09566	.04095	.18866	.18761	.19343
SDev	.00046	.00048	.00057	.00022	.00354	.04116	.00381
%RSD	.60822	2.3789	.59939	.53943	1.8748	.61716	1.9719
#1	.07611	.02021	.09560	.04070	.18480	.18671	.19606
#2	.07519	.01961	.09511	.04106	.19175	.18722	.18903
#3	.07561	.02055	.09626	.04110	.18942	.18892	.19516
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18539	.11403	.11424	.18360	.19232	.02470	.01727
SDev	.00265	.00333	.00337	.00578	.00174	.00229	.00026
%RSD	1.4016	2.9182	2.9469	3.1469	.90373	9.2674	1.4739
#1	.19005	.11232	.11259	.18462	.19432	.02734	.01734
#2	.19166	.11766	.11202	.18880	.19111	.02319	.01723
#3	.18647	.11190	.11811	.17738	.19154	.02358	.01703
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02052	-.00186	.02407	.09202	.19076	.18544	.11419
SDev	.00814	.00322	.00770	.00100	.00134	.00228	.00178
%RSD	39.678	173.30	31.979	1.0814	.70468	1.2012	1.5584
#1	.02231	-.00122	.03160	.09287	.19208	.19111	.11252
#2	.01163	-.00534	.01622	.09226	.19082	.19036	.11398
#3	.02761	.00099	.02440	.09092	.18939	.18685	.11606
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385356	--	--	--	--	--	--
SDev	905.4187	--	--	--	--	--	--
%RSD	.2349564	--	--	--	--	--	--
#1	384393	--	--	--	--	--	--
#2	385485	--	--	--	--	--	--
#3	386190	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/20/96 20:03:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00833	-.00020	-.00040	.00080	-.00005	-.00693	-.00115
SDev	.00012	.00001	.00020	.00031	.00025	.00009	.00005
%RSD	1.4338	2.5637	49.275	38.535	509.33	1.3415	4.2696
#1	.00819	-.00019	-.00061	.00098	-.00033	-.00684	-.00117
#2	.00839	-.00020	-.00022	.00044	.00009	-.00692	-.00119
#3	.00840	-.00020	-.00037	.00098	.00010	-.00703	-.00110
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00092	.00079	-.00168	-.00013	-.00130	.00083	.01333
SDev	.00061	.00064	.00017	.00021	.00101	.00160	.00145
%RSD	66.109	80.799	10.066	154.76	78.101	193.45	10.733
				-.00194	-.00226	-.00083	.01313

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00659	.00070	-.00351	-.00885	-.00044	456.36	416.75
SDev	.00142	.00173	.00179	.00230	.00205	1.07	1.05
%RSD	21.611	248.62	50.918	25.942	469.52	.23414	.25185
#1	-.00757	-.00123	-.00246	-.01146	-.00196	456.56	417.47
#2	-.00496	.00211	-.00250	-.00715	.00190	457.31	415.54
#3	-.00725	.00121	-.00557	-.00795	-.00125	455.20	417.23
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	184.06	500.08	.02329	-.37573	.00009	-.00322	-.00209
SDev	.25	.85	.00590	.00044	.00070	.00202	.00118
%RSD	.13519	.16921	25.351	.11695	789.31	62.571	56.316
#1	184.25	500.92	.02442	-.37568	-.00065	Q-.00510	-.00203
#2	183.78	499.23	.01690	-.37619	.00074	-.00109	-.00094
#3	184.16	500.10	.02855	-.37531	.00017	-.00346	-.00329
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass

Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	367426	--	--	--	--	--	--
SDev	1027.094	--	--	--	--	--	--
%RSD	.2795374	--	--	--	--	--	--
#1	366268	--	--	--	--	--	--
#2	368226	--	--	--	--	--	--
#3	367785	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/20/96 20:08:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50066	.47738	.93055	.46735	.46751	.52022	.47012
[illegible]	[illegible]	.00165	.00322	.00240	.00207	.00189	.00117

#1	.50122	.47730	.93082	.46741	.46773	.52121	[illegible]
#2	.50111	.47580	.92720	.46491	.46534	.52142	[illegible]
#3	.49961	.47903	.93363	.46972	.46945	.51804	[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	[illegible]
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93460	1.0114	.46620	.97579	1.0027	.92399	.94380
SDev	.00300	.0022	.00132	.00159	.0018	.00476	.00851
%RSD	.32123	.21975	.28383	.16255	.18425	.51545	.90173
#1	.93446	1.0134	.46724	.97583	1.0006	.92069	.94842
#2	.93166	1.0118	.46471	.97419	1.0033	.92183	.93398
#3	.93766	1.0090	.46665	.97736	1.0041	.92945	.94900
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92528	1.0291	1.0304	.95748	.95558	461.30	414.92
SDev	.00740	.0064	.0057	.00378	.00494	1.47	1.88
%RSD	.79934	.61829	.54972	.39501	.51741	.31822	.45210
#1	.92233	1.0224	1.0368	.95556	.95285	462.62	413.49
#2	.93370	1.0351	1.0260	.96184	.95261	461.56	412.82
#3	.91982	1.0297	1.0284	.95505	.96129	459.72	416.44
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	[illegible]
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	184.39	499.91	.01419	-.36860	.93148	.95623	1.0000
SDev	.54	.95	.00636	.00050	.00218	.00277	.0018
%RSD	.29383	.19006	44.811	.13568	.23189	.28964	.17280
#1	184.56	500.43	.02148	-.36895	.93104	.95377	1.0320
#2	183.78	498.82	.00977	-.36883	.93382	.95570	1.0291
#3	184.82	500.49	.01133	-.36803	.92956	.95923	1.0289
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	20.000			20.000	20.000	20.000
Initsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

#1	366494	--	--	--	--	--	--
#2	367680	--	--	--	--	--	--
#3	366533	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/20/96 20:12:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9820	1.9835	1.9743	1.9764	1.9731	2.0146	1.9759
SDev	.0016	.0036	.0021	.0021	.0038	.0018	.0029
%RSD	.08048	.18136	.10665	.10556	.19295	.08811	.14785
#1	1.9811	1.9833	1.9730	1.9752	1.9728	2.0162	1.9757
#2	1.9810	1.9872	1.9767	1.9788	1.9770	2.0127	1.9790
#3	1.9838	1.9800	1.9732	1.9753	1.9694	2.0148	1.9731
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9762	.24437	2.0083	1.9618	1.9829	1.9740	1.9660
SDev	.0022	.00009	.0018	.0010	.0020	.0071	.0079
%RSD	.11170	.03614	.08744	.04867	.09959	.36173	.40326
#1	1.9776	.24445	2.0074	1.9624	1.9846	1.9657	1.9626
#2	1.9773	.24428	2.0103	1.9622	1.9833	1.9775	1.9751
#3	1.9736	.24438	2.0071	1.9607	1.9807	1.9787	1.9603
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9795	2.0230	2.0087	1.9835	1.9761	39.783	39.757
SDev	.0027	.0025	.0072	.0083	.0059	.092	.107
%RSD	.13860	.12166	.35863	.42075	.29881	.23021	.26989
#1	1.9807	2.0222	2.0005	1.9740	1.9715	39.864	39.804
#2	1.9814	2.0258	2.0118	1.9897	1.9828	39.683	39.832
#3	1.9763	2.0210	2.0138	1.9868	1.9741	39.802	39.634
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

%RSD	.22133	.20929	.90062	.37718	.21120	.32261	.24600
#1	39.565	40.102	39.135	39.872	1.9747	1.9723	2.0077
#2	39.610	40.021	38.628	39.614	1.9794	1.9851	2.0165
#3	39.441	39.934	39.303	39.876	1.9710	1.9784	2.0162
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	383912	--	--	--	--	--	--
SDev	1272.497	--	--	--	--	--	--
%RSD	.3314557	--	--	--	--	--	--
#1	385295	--	--	--	--	--	--
#2	382791	--	--	--	--	--	--
#3	383649	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/20/96 20:17:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00012	.00015	.00050	.00040	.00075	.00020
SDev	.00001	.00014	.00021	.00022	.00019	.00014	.00017
%RSD	5.0808	119.54	139.10	43.141	48.580	18.367	87.121
#1	.00021	.00028	.00026	.00075	.00059	.00074	.00038
#2	.00022	.00007	.00027	.00035	.00040	.00062	.00018
#3	.00023	.00001	-.00009	.00041	.00020	.00089	.00004
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	-.00021	.00009	.00034	-.00179	.00028	-.00066
SDev	.00078	.00008	.00047	.00019	.00192	.00087	.00163
%RSD	188.16	36.243	527.47	56.837	107.48	313.03	247.98
#1	-.00028	-.00025	.00062	.00057	-.00092	-.00007	-.00180
#2	.00126	-.00025	-.00028	.00022	-.00399	.00126	.00121
#3	.00026	-.00012	-.00009	.00024	-.00045	-.00036	-.00138
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	[illegible]
Value	.00000	.00000	.00000	.00000	.00000	.00000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00125	.00236	-.00059	.00090	-.00064	.03314	.02010
SDev	.00102	.00091	.00086	.00339	.00352	.00462	.00803
%RSD	81.211	38.773	147.11	374.98	549.90	13.947	39.936
#1	.00242	.00317	-.00158	-.00088	-.00430	.03837	.02936
#2	.00070	.00137	-.00009	-.00122	.00272	.03143	.01520
#3	.00063	.00254	-.00009	.00481	-.00034	.02962	.01574
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01543	.04338	.00229	.00756	.00064	-.00011	.00041
SDev	.00876	.01305	.01135	.00529	.00057	.00263	.00040
%RSD	56.729	30.088	495.30	70.023	89.203	2432.2	95.716
#1	.02330	.05805	-.00511	.01355	.00104	-.00314	.00002
#2	.01701	.03905	.01536	.00559	.00089	.00143	.00041
#3	.00600	.03305	-.00337	.00353	-.00001	.00139	.00081
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	393300	--	--	--	--	--	--
SDev	2663.084	--	--	--	--	--	--
%RSD	.6771120	--	--	--	--	--	--
#1	396152	--	--	--	--	--	--
#2	392871	--	--	--	--	--	--
#3	390878	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2766-MB1 Operator:
Run Time: 09/20/96 20:24:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	-.00006	-.00020	-.00009	.00245	.00217	.00065
SDev	.00001	.00002	.00019	.00036	.00050	.00023	.00004
%RSD	.92042	31.795	95.468	396.11	20.450	10.827	5.904
#1	.00073	-.00006	-.00034	-.00004	.00236	.00205	.00063
#2	.00071	-.00005	-.00029	-.00047	.00200	.00201	.00062

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	.00051	-.00013	.00438	-.00118	-.00343	.00729
SDev	.00034	.00072	.00042	.00010	.00087	.00257	.00073
%RSD	75.337	142.08	323.08	2.3411	73.755	75.111	10.079
#1	.00054	.00021	-.00027	.00428	-.00217	-.00182	.00644
#2	.00073	-.00002	-.00046	.00437	-.00088	L-.00639	.00762
#3	.00007	.00132	.00034	.00448	-.00050	-.00206	.00779
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00009	-.00188	.00160	-.01091	.00593	.09967	.07801
SDev	.00112	.00158	.00213	.00055	.00209	.00630	.00052
%RSD	1234.7	83.793	133.25	5.0486	35.213	6.3198	.66765
#1	.00097	-.00086	-.00077	-.01027	.00806	.10632	.07857
#2	-.00125	-.00370	.00222	-.01125	.00388	.09380	.07791
#3	.00001	-.00109	.00333	-.01120	.00585	.09889	.07755
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02654	.01641	.03564	.06136	.00239	.00034	.00043
SDev	.01148	.00449	.00476	.00094	.00058	.00156	.00134
%RSD	43.265	27.367	13.344	1.5293	24.357	456.14	295.41
#1	.02795	.01411	.03540	.06098	.00282	.00197	-.00079
#2	.01442	.01354	.03101	.06066	.00173	-.00114	.00027
#3	.03725	.02159	.04051	.06242	.00262	.00019	.00188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387922	--	--	--	--	--	--
SDev	1194.835	--	--	--	--	--	--
%RSD	.3080093	--	--	--	--	--	--
				--	--	--	--

Method: EPA3 Sample Name: MP2766-LC1 Operator:
Run Time: 09/20/96 20:29:08
Comment:
Type: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.76266	.59202	.41163	.50227	.31355	.82890	1.2890
SDev	.00339	.00186	.00167	.00144	.00080	.00565	.0042
%RSD	.44479	.31410	.40519	.28680	.25516	.68123	.32311
#1	.75921	.59069	.41077	.50097	.31282	.82295	1.2850
#2	.76279	.59414	.41355	.50382	.31440	.82956	1.2933
#3	.76599	.59123	.41057	.50203	.31342	.83418	1.2888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32547	.34135	.43328	.51173	.32576	.43640	.32965
SDev	.00163	.00143	.00097	.00256	.00124	.00532	.00320
%RSD	.50065	.41767	.22400	.49954	.38044	1.2203	.97148
#1	.32488	.33975	.43227	.50918	.32687	.43124	.32858
#2	.32731	.34181	.43421	.51430	.32598	.44188	.33325
#3	.32421	.34248	.43337	.51172	.32442	.43607	.32712

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.40500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32171	.14826	.14779	.66220	.65957	22.213	16.793
SDev	.00240	.00320	.00328	.00460	.00344	.151	.073
%RSD	.74610	2.1618	2.2175	.69514	.52080	.67863	.43406
#1	.31932	.14460	.14453	.65923	.65567	22.053	16.746
#2	.32170	.15054	.15109	.66750	.66088	22.233	16.877
#3	.32412	.14965	.14773	.65986	.66215	22.353	16.756

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.129	10.960	14.610	.96247	.32438	.06046	.14796
SDev	.102	.038	.052	.00947	.00170	.00322	.00320
%RSD	.28310	.34868	.35831	.98395	.52495	.48761	2.1605

#3	36.102	10.900	14.668	.97218	.32914	.66141	.14639

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	5.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	410199	--	--	--	--	--	--
SDev	385.6462	--	--	--	--	--	--
%RSD	.0940144	--	--	--	--	--	--
#1	410640	--	--	--	--	--	--
#2	409925	--	--	--	--	--	--
#3	410032	--	--	--	--	--	--

See rerun for confi.

Method: EPA3 Sample Name: MP2766-D1 Operator:
Run Time: 09/20/96 20:33:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00601	-.00002	-.00014	-.00014	.00737	.02846	.01911
SDev	.00019	.00002	.00010	.00035	.00030	.00030	.00025
%RSD	3.1882	130.77	69.319	256.96	4.0284	1.0591	1.3228
#1	.00623	-.00002	-.00022	.00017	.00765	.02863	.01940
#2	.00590	.00000	-.00016	-.00052	.00706	.02811	.01901
#3	.00590	-.00004	-.00003	-.00006	.00740	.02863	.01893

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00068	.00863	.02698	.00126	-.00285	.22116
SDev	.00055	.00027	.00020	.00042	.00119	.00153	.00175
%RSD	99.282	39.181	2.3260	1.5601	94.599	53.784	.79311
#1	.00085	.00099	.00840	.02745	.00001	-.00111	.22304
#2	.00068	.00054	.00875	.02663	.00138	-.00399	.21956
#3	-.00008	.00051	.00875	.02686	.00238	-.00346	.22088

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOUSED
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00813	[illegible]	[illegible]

#1	.21740	.00023	.00394	-.00864	.00520	1.0525	.52444
#2	.21412	-.00069	.00369	.00149	.01093	1.0277	.51682
#3	.21191	.00221	.00222	.00132	.00625	1.0321	.51674
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0464	.17611	.09950	.05952	.21673	.00417	.00240
SDev	.0303	.00408	.01048	.00086	.00229	.00320	.00028
%RSD	.99340	2.3155	10.536	1.4375	1.0564	76.770	11.505
#1	3.0803	.18071	.08807	.06050	.21930	.00061	.00272
#2	3.0222	.17293	.10867	.05918	.21596	.00681	.00225
#3	3.0366	.17469	.10175	.05889	.21492	.00508	.00224
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390637	--	--	--	--	--	--
SDev	2819.908	--	--	--	--	--	--
%RSD	.7218742	--	--	--	--	--	--
#1	387381	--	--	--	--	--	--
#2	392238	--	--	--	--	--	--
#3	392292	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2766-S1 Operator:
Run Time: 09/20/96 20:38:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9586	.04813	.04914	.48881	.20628	.27755	.52156
SDev	.0038	.00024	.00023	.00188	.00110	.00065	.00228
%RSD	.19477	.50440	.46767	.38388	.53144	.23605	.43702
#1	1.9629	.04841	.04940	.49095	.20754	.27830	.52415
#2	1.9573	.04799	.04904	.48745	.20578	.27718	.52068
#3	1.9557	.04799	.04898	.48802	.20553	.27715	.51986
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01000

Units	ppm	ppm	p m	ppm	ppm	ppm	ppm
Avge	.49053	.04811	.00263	.52867	1.8973	1.9170	.77106
SDev	.00096	.00032	.00178	.00182	.0077	.0051	.00456
%RSD	.19561	.65907	.65380	.34407	.40747	.26795	.59201
	.49141	.04840	.00457	.53076	1.9055	1.9152	.77570
#2	.49068	.04815	.00225	.52772	1.8901	1.9228	.77090
#3	.48951	.04777	.00108	.52751	1.8964	1.9131	.76657
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.77104	.46109	.46053	1.8269	1.8100	3.5146	1.2983
SDev	.00247	.00160	.00044	.0066	.0119	.0069	.0195
%RSD	.32061	.34775	.09499	.36117	.65760	.19581	1.5047
#1	.77020	.46104	.46042	1.8316	1.8142	3.5187	1.3181
#2	.76911	.45952	.46102	1.8297	1.7966	3.5185	1.2976
#3	.77383	.46272	.46016	1.8193	1.8193	3.5067	1.2791
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2928	.47980	.11300	.07272	.77107	1.8157	.46074
SDev	.0221	.00264	.01269	.00028	.00120	.0069	.00026
%RSD	.51558	.54990	11.233	.38537	.15613	.38264	.05686
#1	4.3181	.48248	.09865	.07258	.77205	1.8200	.46065
#2	4.2832	.47973	.11758	.07304	.76973	1.8076	.46054
#3	4.2771	.47720	.12277	.07253	.77144	1.8193	.46103
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390423	--	--	--	--	--	--
SDev	1205.240	--	--	--	--	--	--
%SD	.3087011	--	--	--	--	--	--
#1	389141	--	--	--	--	--	--
#2	390595	--	--	--	--	--	--
#3	391533	--	--	--	--	--	--

Mode: LONG Conv. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00647	.00004	-.00024	-.00045	.00845	.02488	.15892
SDev	.00013	.00002	.00018	.00035	.00010	.00018	.00060
%RSD	2.0474	54.572	75.744	78.503	1.2315	.74036	.37733
#1	.00644	-.00004	-.00042	-.00027	.00852	.02481	.15960
#2	.00661	-.00001	-.00006	-.00022	.00850	.02509	.15870
#3	.00635	-.00006	-.00025	-.00085	.00833	.02475	.15846
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.00047	.00906	.02271	.00095	-.00253	.16854
SDev	.00115	.00019	.00027	.00003	.00163	.00140	.00130
%RSD	180.27	40.386	2.9603	.15279	171.94	55.381	.76996
#1	.00161	.00031	.00919	.02269	.00268	-.00405	.16717
#2	.00093	.00041	.00924	.02275	-.00057	-.00225	.16871
#3	-.00063	.00068	.00875	.02269	.00075	-.00129	.16974
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16385	.00029	.00123	-.00766	.00462	1.1818	.78239
SDev	.00123	.00319	.00257	.00504	.00116	.0048	.00884
%RSD	.75336	1095.4	209.22	65.842	25.159	.40965	1.1293
#1	.16476	.00101	-.00167	-.01327	.00581	1.1844	.78245
#2	.16433	.00307	.00322	-.00617	.00349	1.1847	.79119
#3	.16244	-.00320	.00213	-.00353	.00455	1.1762	.77352
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.3804	.29803	.13259	.06636	.16543	.00055	.00093
SDev	.0073	.00096	.00421	.00049	.00048	.00122	.00203
%RSD	.21499	.32168	3.1790	.74288	.28893	223.84	217.90
#1	3.3876	.29863	.13495	.06588	.16559	-.00053	-.00076
#2	3.3801	.29830	.13510	.06687	.16582	.00029	.00319
#3	3.3733	.29697	.12772	.06634	.16490	.00188	[illegible]
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

Instrc	1	2	3	4	5	6	7
Mode	*counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wlen	371.030	--	--	--	--	--	--
Ave	391264	--	--	--	--	--	--
SDev	2073.689	--	--	--	--	--	--
%RSD	.5299969	--	--	--	--	--	--
#1	388958	--	--	--	--	--	--
#2	391860	--	--	--	--	--	--
#3	392975	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2766-SD1 Operator:
Run Time: 09/20/96 20:47:34
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00801	-.00053	-.00045	.00033	.01167	.02875	.15101
SDev	.00076	.00016	.00074	.00057	.00181	.00096	.00173
%RSD	9.4394	30.427	161.72	171.80	15.516	3.3396	1.1450
#1	.00856	-.00071	-.00112	.00062	.01372	.02983	.15300
#2	.00715	-.00045	-.00058	-.00032	.01028	.02840	.15008
#3	.00833	-.00043	.00033	.00069	.01101	.02801	.14994
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00027	.00287	.00811	.02828	-.00761	L-.00706	.17352
SDev	.00658	.00024	.00118	.00032	.00736	.00842	.00447
%RSD	2458.0	8.3147	14.557	1.1264	96.758	119.25	2.5730
#1	-.00568	.00261	.00699	.02842	L-.01599	L-.01591	.17055
#2	.00705	.00308	.00800	.02850	-.00461	.00086	.17135
#3	-.00218	.00291	.00934	.02791	-.00222	L-.00614	.17865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NUCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15981	.00065	.01262	-.01169	.01225	1.2360	.77620
SDev	.00447	.01259	.00242	.02073	.00991	.0216	.01034
%RSD	2.7950	1937.5	19.208	177.24	80.915	1.7442	1.3318
#1	.16059	-.00360	.01541	-.03562	.00804	1.2613	.78811
#2	[illegible]	[illegible]	.01131	.00003	.02356	1.2250	.77080

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb.068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.2687	.27080	.19716	.15791	.16450	.00436	.00872
SDev	.0328	.01148	.00477	.00017	.00177	.01113	.00409
%RSD	1.0033	4.2382	2.4181	.10651	1.0747	255.04	46.891
#1	3.2938	.28245	.19356	.15779	.16404	L-.00641	.00917
#2	3.2316	.25950	.20257	.15811	.16645	.01582	.01257
#3	3.2808	.27045	.19536	.15785	.16301	.00369	.00443
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntSto	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387300	--	--	--	--	--	--
SDev	3236.383	--	--	--	--	--	--
%RSD	.8356263	--	--	--	--	--	--
#1	383569	--	--	--	--	--	--
#2	388987	--	--	--	--	--	--
#3	389345	--	--	--	--	--	--

Method: EPA3 Sample Name: E14721-1 Operator:
Run Time: 09/20/96 20:52:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05224	.00021	.00019	.00133	.04572	.60009	.18174
SDev	.00102	.00006	.00005	.00031	.00124	.01049	.00380
%RSD	1.9511	26.692	24.455	23.571	2.7166	1.7483	2.0901
#1	.05342	.00016	.00014	.00166	.04715	.61200	.18611
#2	.05167	.00027	.00022	.00128	.04489	.59220	.17985
#3	.05164	.00020	.00023	.00104	.04511	.59607	.17925
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00459	.00589	.07579	.25212	.00945	L-.00501	4.1067
SDev	.00003	.00036	.00145	.00459	.00032	.00105	.0847

#1	.00455	.00629	.07745	.25742	.00961	L-.00577	4.0040
#2	.00461	.00579	.07472	.24953	.00932	-.00381	4.0061
#3	.00460	.00558	.07520	.24941	.00921	L-.00545	4.0096

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1447	.01890	.02221	-.00292	.00689	12.853	3.2522
SDev	.0996	.00418	.00152	.00453	.00186	.224	.0635
%RSD	2.4036	22.111	6.8223	154.99	26.962	1.7406	1.9522
#1	4.2590	.01586	.02388	-.00711	.00838	13.108	3.3255
#2	4.0992	.02366	.02183	.00189	.00748	12.693	3.2164
#3	4.0760	.01716	.02092	-.00356	.00481	12.756	3.2148
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.550	1.1597	.55056	.15635	4.1321	.00364	.02112
SDev	.671	.0282	.00674	.00195	.0945	.00183	.00139
%RSD	2.1280	2.4341	1.2242	1.2501	2.2864	50.303	6.5600
#1	32.323	1.1923	.54382	.15836	4.2409	.00324	.02123
#2	31.213	1.1434	.55056	.15445	4.0849	.00564	.02246
#3	31.114	1.1433	.55730	.15623	4.0706	.00204	.01969
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	388739	--	--	--	--	--	--
SDev	7302.354	--	--	--	--	--	--
%RSD	1.878470	--	--	--	--	--	--
#1	380308	--	--	--	--	--	--
#2	392861	--	--	--	--	--	--
#3	393049	--	--	--	--	--	--

Method: EPA3 Sample Name: E14721-2 Operator:
Run Time: 09/20/96 20:56:45
Comments:
Mode: CONC Corr. Factor: 1

[illegible]	[illegible]	[illegible]	Na2853	Cr2677	Cu3247	Mn2576

SDev	.00022	.00000	.00017	.00059	.00051	.00041	.00018
%RSD	3.3563	108.89	133.67	406.19	3.1004	1.4590	.87670
#1	.00672	-.00009	.00007	.00006	.01717	.02875	.02118
	.00633	-.00002	-.00025	-.00081	.01631	.02845	.02092
	.00635	-.00001	-.00019	.00031	.01625	.02793	.02083
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.00097	.01076	.01842	.00470	L-.00509	.15438
SDev	.00121	.00060	.00025	.00024	.00103	.00115	.00406
%RSD	277.01	62.072	2.3487	1.2990	21.882	22.584	2.6277
#1	.00127	.00129	.01070	.01868	.00549	-.00499	.15863
#2	-.00095	.00028	.01054	.01821	.00354	L-.00629	.15054
#3	.00099	.00134	.01104	.01837	.00507	-.00400	.15398
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14531	.00004	.00237	-.00613	.00542	1.7759	.79250
SDev	.00218	.00265	.00098	.00127	.00042	.0139	.01670
%RSD	1.4982	6840.9	41.349	20.657	7.7967	.78210	2.1071
#1	.14281	-.00126	.00236	-.00747	.00510	1.7913	.80275
#2	.14640	.00309	.00336	-.00596	.00527	1.7721	.80151
#3	.14674	-.00171	.00139	-.00496	.00590	1.7644	.77323
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.557	.37653	.10771	.16788	.14836	.00160	.00161
SDev	.110	.00699	.01226	.00088	.00072	.00069	.00150
%RSD	.95579	1.8566	11.380	.52234	.48583	43.207	93.154
#1	11.684	.38376	.12185	.16788	.14810	.00093	.00117
#2	11.498	.36960	.10117	.16875	.14780	.00155	.00328
3	11.488	.37602	.10010	.16700	.14917	.00231	.00038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Avge	39[illegible]	--	--	--	--	--	--
SDev	3933.677	--	--	--	--	--	--
%RSD	1.[illegible]278	--	--	--	--	--	--
#1	386790	--	--	--	--	--	--
	394009	--	--	--	--	--	--
#3	393108	--	--	--	--	--	--

Method: EPA3 Sample Name: E14721-4 Operator:
Run Time: 09/20/96 21:01:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00382	-.00013	-.00023	-.00052	.00559	.10642	.08033
SDev	.00007	.00004	.00016	.00065	.00048	.00195	.00145
%RSD	1.8317	31.237	67.986	125.72	8.6454	1.8341	1.8043
#1	.00381	-.00009	-.00009	-.00111	.00511	.10590	.07994
#2	.00375	-.00012	-.00020	.00018	.00607	.10477	.07911
#3	.00389	-.00018	-.00041	-.00063	.00559	.10857	.08193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	-.00005	.00566	.01615	-.00186	-.00445	.26742
SDev	.00115	.00011	.00019	.00017	.00217	.00252	.00245
%RSD	1515.8	227.89	3.4148	1.0740	116.73	56.689	.91660
#1	-.00093	.00002	.00584	.01611	.00056	-.00244	.26599
#2	.00134	-.00018	.00545	.01601	-.00231	-.00727	.26602
#3	-.00018	.00002	.00569	.01634	-.00364	-.00363	.27025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26183	.00259	.00272	-.01205	.00595	.87859	.32832
SDev	.00172	.00090	.00103	.00320	.00061	.02605	.01412
%RSD	.65716	34.805	37.883	26.535	10.251	2.9651	4.3000
#1	.26139	.00361	.00249	-.01560	.00663	.87316	.32280
#2	.26037	.00227	.00384	-.01116	.00576	.85967	.31779
#3	.26373	.00189	.00182	-.00940	.00545	.90592	.34436
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
						-.20000	-5.0000

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2380	.10230	.07521	.09947	.26372	-.00003	.00269
SDev	.0813	.00387	.00876	.00200	.00194	.00066	.00076
%RSD	1.9182	3.7796	11.649	2.0083	.73634	2430.3	28.022
	4.2108	.09786	.06541	.09881	.26295	-.00075	.00288
#2	4.1737	.10495	.07795	.09788	.26228	.00015	.00334
#3	4.3293	.10407	.08228	.10171	.26593	.00053	.00166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	388630	--	--	--	--	--	--
SDev	5172.645	--	--	--	--	--	--
%RSD	1.330996	--	--	--	--	--	--
#1	388896	--	--	--	--	--	--
#2	393664	--	--	--	--	--	--
#3	383329	--	--	--	--	--	--

Method: EPA3 **Sample Name: CCV** **Operator:**
Run Time: 09/20/96 21:05:56

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9802	1.9857	1.9722	1.9771	1.9737	2.0143	1.9751
SDev	.0099	.0004	.0006	.0011	.0008	.0124	.0013
%RSD	.50071	.01802	.03123	.05714	.03813	.61436	.06376
#1	1.9696	1.9861	1.9724	1.9777	1.9743	2.0014	1.9737
#2	1.9892	1.9855	1.9726	1.9778	1.9729	2.0261	1.9762
#3	1.9819	1.9854	1.9715	1.9758	1.9740	2.0153	1.9755
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9799	.24488	2.0078	1.9604	1.9864	1.9691	1.9745
SDev	.0012	.00121	.0022	.0032	.0160	.0113	.0144
%RSD	.06076	.49553	.11184	.16344	.80380	.57636	.72775
#1	1.9808	.24353	2.0054	1.9568	1.9722	1.9561	1.9586
#2	1.9805	.24588	2.0099	1.9630	2.0037	1.9741	1.9783
#3	1.9788	.24523	2.0081	1.9614	1.9833	1.9771	1.9868

Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9722	2.0161	2.0021	1.9776	1.9668	39.787	39.913
SDev	.0111	.0023	.0097	.0144	.0053	.215	.046
%RSD	.56093	.11401	.48368	.72708	.26757	.54092	.11537
#1	1.9848	2.0138	1.9910	1.9641	1.9612	39.544	39.967
#2	1.9641	2.0162	2.0088	1.9927	1.9676	39.973	39.879
#3	1.9677	2.0184	2.0066	1.9761	1.9716	39.784	39.900
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.561	39.946	39.087	39.853	1.9730	1.9704	2.0068
SDev	.023	.063	.128	.195	.0037	.0073	.0071
%RSD	.05711	.15694	.32674	.48906	.18877	.37055	.35394
#1	39.537	39.875	39.050	39.665	1.9761	1.9621	1.9986
#2	39.567	39.993	39.230	40.055	1.9689	1.9760	2.0113
#3	39.581	39.971	38.982	39.840	1.9740	1.9731	2.0105
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387902	--	--	--	--	--	--
SDev	1948.443	--	--	--	--	--	--
%RSD	.5023028	--	--	--	--	--	--
#1	390130	--	--	--	--	--	--
#2	386517	--	--	--	--	--	--
#3	387059	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/20/96 21:10:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00025	.00038	.00008	-.00005	.00038-	.00028
SDev	.00013	.00019	.00007	.00078	.00060	.00021	.00021
%RSD	46.298	75.001	19.812	958.61	1721.3	54.781	75.641

#3	.00021	.00008	.00035	.00048	.00039	.00019	.00010
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	-.00027	-.00014	.00044	-.00184	.00377	.00034
SDev	.00076	.00049	.00058	.00023	.00147	.00240	.00341
%RSD	93.379	182.39	410.88	51.864	80.189	63.529	1016.2
#1	.00003	-.00031	.00050	.00044	-.00263	Q.00607	-.00138
#2	.00086	-.00074	-.00031	.00068	-.00274	.00396	-.00188
#3	.00155	.00024	-.00061	.00022	-.00014	.00129	.00426
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00153	.00070	-.00026	.00348	.00058	.00451	.00383
SDev	.00329	.00382	.00283	.00534	.00298	.00743	.00831
%RSD	214.47	545.87	1076.1	153.57	514.12	164.89	216.77
#1	.00420	.00257	.00063	-.00267	.00360	-.00307	.01343
#2	.00254	.00322	-.00343	.00608	.00049	.01179	-.00109
#3	-.00214	-.00369	.00201	.00702	-.00236	.00480	-.00083

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00253	.01037	-.00300	.01022	.00116	.00156	.00008
SDev	.00456	.00638	.00647	.00600	.00118	.00080	.00125
%RSD	178.82	61.561	215.90	58.692	101.57	50.929	1658.2
#1	.00095	.00310	-.00806	.01680	.00238	.00153	.00129
#2	-.00771	.01506	-.00521	.00879	.00109	.00237	-.00120
#3	-.00089	.01294	.00429	.00506	.00001	.00078	.00013
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	397966	--	--	--	--	--	--
SDev	1461.395	--	--	--	--	--	--
[illegible]	[illegible]	--	--	--	--	--	--

#2	33/760	--	--	--	--	--	--
#3	296618	--	--	--	--	--	--

Method: BrA3 Sample Name: E14721-5 Operator:
Date Time: 09/20/96 21:15:09
Comment:
Mode: CUNC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00635	-.00008	-.00013	-.00000	.00692	1.5475	.04902
SDev	.00010	.00002	.00022	.00084	.00032	.0096	.00011
%RSD	1.5792	19.067	164.78	181380.	4.6453	.62020	.21645
#1	.00624	-.00007	.00002	-.00075	.00655	1.5584	.04914
#2	.00643	-.00010	-.00004	-.00017	.00710	1.5402	.04900
#3	.00638	-.00007	-.00039	.00091	.00710	1.5440	.04893
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00472	.00084	.00356	.02111	.00104	-.00189	1.6387
SDev	.00045	.00022	.00022	.00021	.00162	.00068	.0216
%RSD	9.4870	26.759	6.2123	.98698	156.55	35.914	1.3207
#1	.00524	.00095	.00348	.02089	.00288	-.00227	1.6137
#2	.00445	.00058	.00381	.02113	.00041	-.00111	1.6507
#3	.00448	.00098	.00339	.02131	-.00018	-.00230	1.6517
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6527	.01178	.01409	-.00517	.00698	.49843	.50625
SDev	.0070	.00078	.00166	.00090	.00126	.00314	.00386
%RSD	.42632	6.5968	11.771	17.373	18.055	.62954	.76343
#1	1.6564	.01113	.01356	-.00619	.00840	.50149	.50995
#2	1.6571	.01156	.01277	-.00479	.00655	.49522	.50656
#3	1.6446	.01264	.01595	-.00452	.00599	.49857	.50224
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960-	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.203	.19175	.05715	.08122	1.6481	.00295	.01334
[illegible]	[illegible]	[illegible]	[illegible]	.00117	.0064	.00054	.00134

#1	12.256	.18791	.05897	.07992	1.6422	.00356	.01277
#2	12.184	.19307	.06954	.08157	1.6550	.00279	.01288
#3	12.168	.19427	.07195	.08218	1.6470	.00251	.01467
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389211	--	--	--	--	--	--
SDev	2520.611	--	--	--	--	--	--
%RSD	.6476213	--	--	--	--	--	--
#1	386802	--	--	--	--	--	--
#2	389000	--	--	--	--	--	--
#3	391830	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2766-D1 Operator:
Run Time: 09/20/96 21:20:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00598	-.00003	-.00015	-.00046	.00731	.02860	.01913
SDev	.00025	.00001	.00009	.00010	.00027	.00018	.00008
%RSD	4.2120	37.058	57.313	21.212	3.6351	.64684	.44005
#1	.00569	-.00003	-.00013	-.00036	.00743	.02872	.01923
#2	.00613	-.00002	-.00008	-.00055	.00700	.02870	.01906
#3	.00612	-.00004	-.00025	-.00045	.00749	.02839	.01912
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn3072
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	.00073	.00857	.02699	-.00047	L-.00580	.21884
SDev	.00100	.00050	.00016	.00017	.00159	.00227	.00270
%RSD	121.26	68.730	1.8763	.64973	338.09	42.883	1.2336
#1	.00136	.00038	.00846	.02685	-.00036	-.00292	.21591
#2	.00144	.00131	.00850	.02719	.00106	L-.00553	.22122
#3	-.00033	.00051	.00876	.02694	-.00211	L-.00744	.21940
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2903/2	2068/1	2068/2	1960/1	1960/2	A13082	[illegible]

SDev	.00386	.00292	.00170	.00306	.00119	.0064	.00180
%RSD	1.5642	192.00	98.282	41.186	13.058	.62905	.34667
#1	.21791	.00324	-.00013	-.00945	.01016	1.0270	.51915
#2	.21208	-.00185	.00296	-.00391	.00782	1.0210	.51632
#3	.21787	.00318	.00263	-.00891	.00939	1.0142	.51579
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0512	.17257	.10368	.05729	.21694	.00363	.00174
SDev	.0111	.00189	.00359	.00049	.00165	.00031	.00097
%RSD	.36302	1.0951	3.4620	.86315	.76180	8.5451	55.552
#1	3.0632	.17365	.10782	.05673	.21727	.00365	.00101
#2	3.0489	.17367	.10166	.05746	.21515	.00394	.00137
#3	3.0414	.17039	.10155	.05767	.21840	.00331	.00283
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	392069	--	--	--	--	--	--
SDev	1160.653	--	--	--	--	--	--
%RSD	.2960330	--	--	--	--	--	--
#1	390743	--	--	--	--	--	--
#2	392561	--	--	--	--	--	--
#3	392902	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/20/96 21:25:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00014	-.00005	.00006	.00113	.00084	.00016
SDev	.00000	.00001	.00020	.00020	.00063	.00018	.00009
%RSD	1.7021	5.6754	362.83	329.21	55.796	21.676	58.381
#1	.00023	-.00014	-.00027	-.00016	.00045	.00072	.00011
#2	.00024	-.00014	-.00001	.00024	.00169	.00105	.00026
#3	.00023	-.00013	.00012	.00011	.00124	.00074	.00011
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00176	.00043	-.00030	.00157	.01716	.01484	[illegible]
SDev	.00040	.00011	.00050	.00007	.00108	.00231	.00071
%RSD	22.540	25.349	168.96	4.5183	6.3122	15.577	[illegible]
#1	.00138	.00035	-.00085	.00152	.01726	.01647	.00869
#2	.00217	.00038	-.00016	.00165	.01819	0.01215	.00810
#3	.00172	.00055	.00012	.00153	.01603	.01586	.00728
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00587	.00791	.00723	.00652	.00969	.00522	.01089
SDev	.00074	.00116	.00061	.00084	.00449	.00373	.00904
%RSD	12.661	14.653	8.5110	12.881	46.302	71.412	83.010
#1	.00502	.00895	.00723	.00560	.01323	.00730	.00045
#2	.00634	.00813	.00784	.00724	.01121	.00745	.01620
#3	.00626	.00666	.00661	.00672	.00464	.00092	.01601
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00114	-.00410	.01434	.01260	.00661	.00865	.00748
SDev	.00331	.00369	.00634	.00020	.00034	.00289	.00072
%RSD	290.43	90.050	44.171	1.5595	5.2131	33.356	9.6525
#1	-.00240	-.00503	.00880	.01241	.00626	.01070	.00782
#2	.00415	-.00003	.02125	.01259	.00695	.00990	.00796
#3	.00167	-.00724	.01298	.01281	.00662	0.00535	0.00665
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390041	--	--	--	--	--	--
SDev	931.4313	--	--	--	--	--	--
%RSD	.2388036	--	--	--	--	--	--
#1	391039	--	--	--	--	--	--
#2	389195	--	--	--	--	--	--
#3	389888	--	--	--	--	--	--

Run Time: 09/20/96 21:32:08
Comments:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36642	.00868	.00930	.09507	.01743	.04457	.02740
SDev	.00141	.00004	.00007	.00080	.00077	.00040	.00026
%RSD	.38396	.43034	.80590	.84247	4.4240	.89605	.95370
#1	.36773	.00872	.00923	.09588	.01661	.04417	.02774
#2	.36494	.00866	.00938	.09505	.01814	.04457	.02730
#3	.36659	.00866	.00928	.09428	.01753	.04497	.02725
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07404	Q.00155	.09119	.03867	.18220	.18476	.18268
SDev	.00108	.00027	.00008	.00041	.00249	.00343	.00055
%RSD	1.4580	17.159	.08569	1.0638	1.3667	1.8554	.30012
#1	.07527	Q.00174	.09126	.03911	.18301	.18773	.18220
#2	.07358	Q.00168	.09110	.03859	.18418	.18100	.18328
#3	.07326	Q.00125	.09120	.03830	.17940	.18554	.18256
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	220372	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17932	.09906	.10434	.19202	.18813	-.00128	-.00087
SDev	.00534	.00658	.00167	.00307	.00278	.00251	.00012
%RSD	2.9785	6.6383	1.5994	1.5964	1.4758	196.11	13.406
#1	.17341	.09256	.10283	.19090	.18621	-.00384	-.00099
#2	.18074	.09892	.10613	.18968	.18687	-.00116	-.00087
#3	.18381	.10571	.10407	.19549	.19132	.00117	-.00076
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na8183	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.00219	.00959	.07612	.18047	.18944	.1020[illegible]
SDev	.00218	.00376	.01088	.00024	.00366	.00284	.00273
%RSD	1231.6	171.58	113.43	.31272	2.0300	1.4986	2.7100
#1	.00137	-.00165	.01219	.07626	.17637	.18779	.09943
#2	.00150	.00587	.01894	.07584	.18161	.18762	.10[illegible]
#3	[illegible]	[illegible]	[illegible]	[illegible]	.18342	.19272	.10[illegible]

Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

Intsec	1	2	3	4	5	6	7
Type	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Unit	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	396791	--	--	--	--	--	--
SDev	515.5182	--	--	--	--	--	--
%RSD	.1299218	--	--	--	--	--	--
#1	397304	--	--	--	--	--	--
#2	396796	--	--	--	--	--	--
#3	396273	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/20/96 21:41:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00847	-.00027	-.00041	-.00033	-.00084	-.00738	-.00142
SDev	.00016	.00002	.00028	.00061	.00081	.00024	.00001
%RSD	1.8564	6.8528	69.399	187.57	96.168	3.2046	.53556
#1	.00858	-.00025	-.00072	.00009	-.00025	-.00711	-.00141
#2	.00854	-.00027	-.00017	-.00103	-.00177	-.00755	-.00143
#3	.00829	-.00029	-.00033	-.00004	-.00051	-.00748	-.00142

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	.00500	.00500	.05000	.01000	.04000	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	-.00009	-.00278	.00087	-.00028	.00122	.01463
SDev	.00008	.00055	.00059	.00010	.00210	.00041	.00300
%RSD	19.215	585.49	21.408	11.330	740.31	33.882	20.483
#1	-.00033	.00029	-.00247	.00098	-.00072	.00166	.01145
#2	-.00048	-.00073	-.00346	.00082	-.00214	.00084	.01504
#3	-.00037	.00015	-.00240	.00081	.00200	.00116	.01740

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NUCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00593	.00197	-.00159	-.00987	.00087	404.18	414.92
SDev	.00067	.00461	.00421	.00150	.00633	.67	1.71
%RSD	11.381	234.08	265.51	15.194	724.02	.14[illegible]	[illegible]

#6	-.00629	-.00007	-.00291	-.00920	-.00088	455.72	414.52
Errors	NOCHECK	NOCHECK	NOCHEC	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.52	498.58	.00468	-.38150	.00095	-.00269	-.00038
SDev	.46	.49	.00922	.00030	.00062	.00375	.00186
%RSD	.24975	.09769	196.91	.07859	66.006	139.77	486.57
#1	184.03	499.14	.01519	-.38163	.00041	.00154	-.00089
#2	183.14	498.32	-.00201	-.38172	.00080	-.00395	.00168
#3	183.39	498.28	.00086	-.38116	.00163	@-.00564	-.00194
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	371432	--	--	--	--	--	--
SDev	856.3015	--	--	--	--	--	--
%RSD	.2305404	--	--	--	--	--	--
#1	370444	--	--	--	--	--	--
#2	371901	--	--	--	--	--	--
#3	371952	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/20/96 21:45:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49891	.48341	.93996	.47355	.47321	.51719	.47355
SDev	.00271	.00308	.00669	.00299	.00300	.00283	.00290
%RSD	.54232	.63803	.71139	.63112	.63461	.54716	.60664
#1	.50199	.48647	.94733	.47675	.47619	.52024	.47652
#2	.49691	.48030	.93429	.47083	.47016	.51464	.47264
#3	.49784	.48347	.93825	.47308	.47325	.51670	.47349
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn3071
			ppm	ppm	ppm	ppm	ppm

%RSD	.56641	.67967	.59568	.57238	.31748	.20586	1.0128
#1	.94489	1.0186	.47290	.96735	1.0169	.93461	.96331
#2	.93425	1.0051	.46730	.97672	.99827	.98001	.95376
#3	.93988	1.0091	.46996	.98279	1.0077	.98321	.94419
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92828	1.0260	1.0291	.96991	.94659	460.31	420.43
SDev	.00383	.0011	.0083	.00795	.00260	2.59	2.53
%RSD	.41299	.10918	.80682	.81990	.27513	.56287	.60204
#1	.92579	1.0257	1.0371	.97837	.94908	463.24	422.95
#2	.92635	1.0250	1.0297	.96878	.94680	458.33	417.89
#3	.93269	1.0272	1.0205	.96259	.94389	459.36	420.45
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.38	504.23	.01975	-.36985	.93683	.95437	1.0281
SDev	1.19	2.87	.00881	.00188	.00143	.00436	.0053
%RSD	.63700	.56909	44.592	.50724	.15212	.45741	.51373
#1	187.57	507.09	.01549	-.37193	.93838	.95885	1.0333
#2	185.20	501.35	.01387	-.36829	.93557	.95414	1.0282
#3	186.37	504.24	.02987	-.36934	.93655	.95013	1.0223
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	20.000			20.000	20.000	20.000
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	368683	--	--	--	--	--	--
SDev	762.2723	--	--	--	--	--	--
%RSD	.2067555	--	--	--	--	--	--
1	367961	--	--	--	--	--	--
2	369480	--	--	--	--	--	--
#3	368608	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:

Run Time: 09/20/96 21:50:15

Comment:

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9555	1.9762	1.9930	1.9695	1.9644	1.9891	1.9654
SDev	.0063	.0070	.0071	.0067	.0068	.0047	.0058
%RSD	.15552	.35423	.35621	.33914	.34690	.23494	.29563
	1.9513	1.9805	1.9623	1.9709	1.9670	1.9851	1.9664
#2	1.9577	1.9704	1.9558	1.9623	1.9567	1.9942	1.9592
#3	1.9561	1.9839	1.9699	1.9754	1.9695	1.9879	1.9706
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9661	.24190	1.9955	1.9487	1.9770	1.9598	1.9621
SDev	.0048	.00085	.0044	.0052	.0090	.0101	.0041
%RSD	.24439	.35013	.21843	.26665	.45308	.51441	.21085
#1	1.9631	.24119	1.9943	1.9488	1.9710	1.9602	1.9621
#2	1.9635	.24167	1.9919	1.9435	1.9727	1.9496	1.9580
#3	1.9716	.24284	2.0004	1.9539	1.9873	1.9697	1.9663
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9665	2.0025	1.9885	1.9732	1.9493	39.294	39.639
SDev	.0063	.0034	.0041	.0059	.0048	.081	.183
%RSD	.32061	.16877	.20831	.29981	.24491	.20576	.46190
#1	1.9704	1.9999	1.9930	1.9737	1.9493	39.220	39.740
#2	1.9592	2.0013	1.9849	1.9670	1.9440	39.380	39.420
#3	1.9699	2.0063	1.9876	1.9788	1.9541	39.283	39.750
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.347	39.783	38.025	39.301	1.9651	1.9573	1.9932
SDev	.120	.058	.095	.112	.0054	.0052	.0025
%RSD	.30568	.14646	.24983	.28413	.27556	.26326	.12734
1	39.359	39.812	37.981	39.176	1.9677	1.9575	1.9953
#2	39.221	39.715	38.134	39.394	1.9588	1.9520	1.9904
#3	39.461	39.820	37.960	39.332	1.9687	1.9623	1.9938
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Y	--	--	--	--	--	--
Wavl	371.030	--	--	--	--	--	--
Avge	390598	--	--	--	--	--	--
SDev	619.0400	--	--	--	--	--	--
%	.1584865	--	--	--	--	--	--
#1	391307	--	--	--	--	--	--
#2	390325	--	--	--	--	--	--
#3	390163	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/20/96 21:54:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00057	.00045	.00048	.00084	.00037	.00083	.00050
SDev	.00024	.00049	.00038	.00025	.00023	.00034	.00047
%RSD	42.430	108.24	78.432	29.475	61.372	41.211	93.167
#1	.00085	.00101	.00089	.00063	.00023	.00102	.00105
#2	.00043	.00025	.00038	.00078	.00063	.00043	.00023
#3	.00043	.00010	.00016	.00111	.00024	.00103	.00023
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3713
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	.00017	.00048	.00077	-.00190	.00191	.00033
SDev	.00043	.00016	.00089	.00037	.00150	.00086	.00146
%RSD	142.46	92.047	185.48	48.250	79.037	45.052	419.84
#1	.00004	.00033	.00151	.00120	-.00147	.00282	.00091
#2	.00080	.00001	-.00002	.00055	-.00357	.00110	.00144
#3	.00006	.00018	-.00004	.00056	-.00066	.00182	-.00131
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00094	.00087	.00083	.00007	.00323	.03217	.03752
SDev	.00256	.00139	.00085	.00368	.00074	.01357	.02929
%RSD	271.72	159.80	101.81	5469.9	22.913	42.183	78.050
#1	.00153	.00245	.00173	.00431	.00247	.04641	.07024
#2	.00316	-.00017	.00052	-.00209	.00394	.03072	.02857
#3	-.00186	.00033	.00018	-.00202	.00329	.01938	.01375

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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	QC Pass	QC Pass

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02510	.06538	.00650	.01506	.00077	.00220	.00086
SDev	.01327	.02529	.00775	.01259	.00219	.00081	.00101
%	52.856	38.677	119.17	83.591	285.58	36.732	117.07
#1	.04004	.09365	.01516	.02938	.00135	.00310	.00203
#2	.01467	.05757	.00020	.01005	.00261	.00195	.00031
#3	.02061	.04492	.00415	.00575	-.00165	.00154	.00025
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	401223	--	--	--	--	--	--
SDev	4673.793	--	--	--	--	--	--
%RSD	1.164886	--	--	--	--	--	--
#1	406612	--	--	--	--	--	--
#2	398786	--	--	--	--	--	--
#3	398272	--	--	--	--	--	--

CLP

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... : 2766	PREP DATE..... : 9/20/96
METHOD BLANK..... : 2766	PREP TIME START : 12:50
	PREP TIME END : 19:00
LAB CONTROL CHECK : 2766 ——>SOURCE LOT # : ERA# 228	
MATRIX DUPE..... : 2766 ——>LAB SAMPLE ID : E14721-3	
MATRIX SPIKE ... : 2766 ——>LAB SAMPLE ID : E14721-3	

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP 2766 MB1				200ml	10ml HNO3	
	MP 2766 LC1	1.00	59.100	1.00		5ml conc HNO3	
	MP 2766 S1	1.00	94.9	0.949		5ml HNO3	2.0ml HPS + 2.0ml Ag
	MP 2766 D1	1.00	94.9	0.949		5ml HNO3	
	MP 2766 SD1					WC	
	B1						
1	E14721-1	1.00g	54.9	0.549			
2	E14721-2		77.5	0.775			
3	E14721-3		94.9	0.949			
4	E14721-4		79.7	0.797			
5	E14721-5		91.5	0.915			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→	SB						2.0ml HPS + 2.0ml Ag

this line is use for any additional QC requirements

SIGNATURE Gipti DATE 9/20/96
COMMENTS MP 2766

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E14721-1	Brown	yellow		clear	Medium	
E14721-2	Tan/Brown	yellow			Sandy	
E14721-3	Tan/Brown	yellow			Sandy	
E14721-4	Tan/Brown	yellow			Sandy	
E14721-5	Tan/Brown	yellow			Sandy	

Date of sample preparation: 9/20/96 Sample prepared by: Digita

Comments:

Accutest New Jersey

DATA REVIEW REPORT (rev01)

Worknum: GN5964

Sep 23, 1996 10:46 am

Function: GENCHEM

Analyst: LEN Instrument: NONE Run Date: 20-SEP-96

Sample	Tag	Parameter	CAS No.	M	Type	Result	Units	Qual	Text	RDL	R.T.	Prod
E14721-1		Wet Weight (Total)		N	RAW	8.02	g					%SOL
E14721-1		Tare Weight		N	RAW	1.3	g					%SOL
E14721-1		Dry Weight (Total)		N	RAW	4.99	g					%SOL
E14721-1		Solids, Percent		Y	REG	54.9	%					%SOL
E14721-1		Moisture, Percent		N	REG	45.1	%					%SOL
E14721-2		Wet Weight (Total)		N	RAW	6.49	g					%SOL
E14721-2		Tare Weight		N	RAW	1.3	g					%SOL
E14721-2		Dry Weight (Total)		N	RAW	5.32	g					%SOL
E14721-2		Solids, Percent		Y	REG	77.5	%					%SOL
E14721-2		Moisture, Percent		N	REG	22.5	%					%SOL
E14721-3		Wet Weight (Total)		N	RAW	9.66	g					%SOL
E14721-3		Tare Weight		N	RAW	1.31	g					%SOL
E14721-3		Dry Weight (Total)		N	RAW	9.23	g					%SOL
E14721-3		Solids, Percent		Y	REG	94.9	%					%SOL
E14721-3		Moisture, Percent		N	REG	5.1	%					%SOL
E14721-4		Wet Weight (Total)		N	RAW	10.89	g					%SOL
E14721-4		Tare Weight		N	RAW	1.31	g					%SOL
E14721-4		Dry Weight (Total)		N	RAW	8.95	g					%SOL
E14721-4		Solids, Percent		Y	REG	79.7	%					%SOL
E14721-4		Moisture, Percent		N	REG	20.3	%					%SOL
E[illegible]		Wet Weight (Total)		N	RAW	8.94	g					%SOL
E1[illegible]-5		Tare Weight		N	RAW	1.3	g					%SOL
E14721-5		Dry Weight (Total)		N	RAW	8.29	g					%SOL
E14721-5		Solids, Percent		Y	REG	91.5	%					%SOL
E14721-5		Moisture, Percent		N	REG	8.5	%					%SOL
GN5964-D1		Wet Weight (Total)		N	RAW	7.39	g					%SOL
GN5964-D1		Tare Weight		N	RAW	1.32	g					%SOL
GN5964-D1		Dry Weight (Total)		N	RAW	4.77	g					%SOL
GN5964-D1		Solids, Percent		Y	REG	56.8	%					%SOL
GN5964-D1		Moisture, Percent		N	REG	43.2	%					%SOL

ETHOD REFERENCE: EPA 160.3M
DL: 2.0
NITS: % GN5964 ~~test~~ Clp 104°C Start 1230 -7/20 Ems 1000 9/21 9/23

SAMPLE ID	G (WET) TOTAL WT (B)	G TARE WT (A)		G (WET) SAMP WT	G (DRY) TOTAL WT (C)	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 E14721-1	8.02	1.30	1		4.99			
E14721-1 DUP	7.39	1.32	D		4.77			
2 E14721-2	6.49	1.30	2		5.32			
3 E14721-3	9.66	1.31	3		9.23			
4 E14721-4	10.89	1.31	4		8.95			
5 E14721-5	8.80	1.30	5		8.29			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1								
REDRY 2								

COMMENTS:

QC REVIEW: 9-23-96 DATE: 32

12/7/9

ACCUTEST

RECEIVED
OCT 07 1996
METCALF & EDDY, INC.
BRANCHBURG NJ

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED2

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-1

Level (low/med): LOW Date Received: 09/23/96

% Solids: 39.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2230			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-BIN-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-2

Level (low/med): LOW Date Received: 09/23/96

% Solids: 95.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/YELLO Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-3

Level (low/med): LOW Date Received: 09/23/96

% Solids: 93.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	978			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-3R

Level (low/med): LOW Date Received: 09/23/96

% Solids: 93.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	92.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-PE-1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-4

Level (low/med): LOW Date Received: 09/23/96

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/YELLO Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

CLAR-AQ

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): WATER Lab Sample ID: E14776-5

Level (low/med): LOW Date Received: 09/23/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	156			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: NONE Clarity Before: CLEAR Texture:

Color After: NONE Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-CLAR-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-6

Level (low/med): LOW Date Received: 09/23/96

% Solids: 28.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2740			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: EARLE NWS
Job/Project Location: COLTS NECK NJ
Job/Project Number: 019858
Samplers: (Signatures)
Recorder: (Signature)
Date: 9/23/96
Lab (Samples Sent To): ACCUTEST

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	TOTAL LEAD (CLP METHOD)	DISSOLVED LEAD (CLP METHOD)	Total #	COMMENTS
9/20/96	15:10	SR-CLAR-SED2	CLARIFIER		X	6	N	X		←	24HR TURN
9/21/96	14:10	NR-BIN-SED	JIG BIN SEDIMENT		X	6	N	X		←	24HR TURN
9/21/96	14:00	NR-100-PS	PROCESS SOIL		X	6	N	X		←	14 DAY TURN
9/23/96	9:00	NR-PE-1	NORTH RANGE POST EXCAVATION		X	6	N	X		←	24HR TURN
9/23/96	9:00	CLAR-AQ	PROCESS WATER	X		6	N		X	←	TO BE LAB FILTERED
9/23/96	10:10	NR-CLAR-SED	CLARIFIER		X	6	N	X		←	24HR TURN
											24HR TURN

7N!

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
	9/23/96	11:20			9/23/96	12:25	
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: CLP METHODS	

Method of Shipment: PICK UP AT SITE

FULL CLP

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

Accutest
Job Change Order

Request Date/Time:	9/24/96 @ 4:30	**Accutest Job No.**	E14776
Client:	Metcalf & Eddy	**Client Project:**	Earle Naval Weapons
Phone #:		**CSR:**	DJM

Sample #:	**Change:**
E14776-3	**Re-log sample for Lead analysis**
	RUSH !!!!!!! 24 hour TAT
NR-100 PS	

Sample #:	**Change:**

Sample #:	**Change:**

Sample #:	**Change:**

Sample #:	**Change:**

Sample #:	**Change:**

Above Changes Per: Beth Brodo **Date:** 9/24/96

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative

50

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name M. Popow	Title Sample Manager
Field Sample Seal No. N/A	Date Broken 09/23/96	Military Time Seal Broken 1230
Accutest Job No. E14776	Analytical Parameter/Fraction Pb	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14776-1			
-2			
-3			
-4			
-6			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/23/96	1245	PRINTED NAME M Popow SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	storage
9/23/96	1400	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/23/96	1500	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/23/96	20 00	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naim Sedrak SIGNATURE Naim Sedrak	Digest + Storage ICP Analysis
9/24/96	30 00	PRINTED NAME Naim Sedrak SIGNATURE Naim Sedrak	PRINTED NAME Naim Sedrak SIGNATURE Naim Sedrak	storage.
9/25/96	0810	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	E14776-3 Metals Prep
9/96	1000	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/25/96	15 00	PRINTED NAME Patel, Dipti S SIGNATURE D. S. Patel	PRINTED NAME Naim Sedrak SIGNATURE Naim Sedrak	Digest Storage

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name	Title
Field Sample Seal No.	Date Broken ___/___/___	Military Time Seal Broken
Accutest Job No.	Analytical Parameter/Fraction	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14776-3			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/25/96	15 15	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	ICP Analysis
9/25/96	17 15	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	floor
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name M. Papow	Title Sample Manager
Field Sample Seal No. N/A	Date Broken 09/23/96	Military Time Seal Broken 1230
Accutest Job No. E14776	Analytical Parameter/Fraction Diss. Pb.	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14776-5			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/23/96	1245	PRINTED NAME M. Papow SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	storage
9/23/96	1400	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/23/96	1500	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/23/96	20 00	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	Digest storage
9/24/96	00 30	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	ICP Analysis
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name M. Pagow	Title Sample Manager
Field Sample Seal No. N/A	Date Broken 09 / 23 / 96	Military Time Seal Broken 1230
Accutest Job No. E14776	Analytical Parameter/Fraction % Solids	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14776-1			
-2			
-3			
-4			
-6			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/23/96	1245	PRINTED NAME M. Pagow SIGNATURE [signature]	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	storage
9/24/96	0900	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	PRINTED NAME Sedigheh Gherelbash SIGNATURE [signature]	% Solid analysis
9/24/96	1000	PRINTED NAME Sedigheh Gherelbash SIGNATURE [signature]	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	Storage
9/30/96	1550	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	PRINTED NAME Sedigheh Gherelbash SIGNATURE [signature]	% solid analysis
9/30/96	1630	PRINTED NAME Sedigheh Gherelbash SIGNATURE [signature]	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME	PRINTED NAME	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name M. Pappow	Title Sample Manager
Field Sample Seal No. N/A	Date Broken 09/23/96	Military Time Seal Broken 1230
Accutest Job No. E14776	Analytical Parameter/Fraction Lab. Filter/preservation	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14776-5			

M+E

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/23/96	1245	PRINTED NAME M Pappow SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	storage
9/23/96	1400	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D.S. Patel	Filtered/Preserved
9/23/96	1500	PRINTED NAME Patel, Dipti S. SIGNATURE D.S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
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		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INORGANIC METHODOLOGY SUMMARY - WATER MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "Test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis

For samples to be analyzed by furnace AAS, a well mixed aliquot of sample is digested with nitric acid. The sample is filtered, if necessary, and then brought up to the final volume with DI water.

For samples to be analyzed by ICP or flame AAS, a well mixed aliquot of sample is digested with nitric acid and hydrochloric acid. The sample is filtered, if necessary, and then brought up to the final volume with DI water.

Metals by Graphite Furnace Atomic Absorption

A representative aliquot of the digested water sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector the measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals by Atomic Absorption

For flame AAS, the digested water sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

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Metals by Inductively Coupled Plasma (ICP)

ICP is a technique for simultaneous or sequential multielement determinations. The basis of the method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radiofrequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace atomic absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Waters

A measured volume of sample is acid digested utilizing a water bath. Mercury is then analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measured as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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INORGANIC METHODOLOGY SUMMARY - SOIL MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis.

A representative 1g (nominal weight) sample is digested with nitric acid and hydrogen peroxide. If the digestate is to be analyzed for Sb by graphite furnace AAS or any other metals by flame AAS or ICP, a final reflux with hydrochloric acid is also done. After digestion, the sample is filtered and brought up to the final volume with DI water. A separate aliquot of the sample is dried for the percent solids determination.

Metals by Graphite Furnace Atomic Absorption.

A representative aliquot of the digested soil sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector that measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of only the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals By Flame Atomic absorption.

For flame AAS, the digested soil sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

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Metals by Inductively Coupled Plasma (ICP)

Icp is a technique for simultaneous or sequential multielement determinations. The basis of this method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Soils.

A measured volume of sample is acid digested utilizing an autoclave. Mercury is the analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury is reduced to the elemental state and aerated from the solution in a closed system. The mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measure as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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Inorganics Conformance Summary
for Job E14776

Note 1: The results on the CLP forms may differ slightly from those on the raw data due to rounding differences.

Note 2: Comments on specific analysis results are listed by analysis type below. If no problems were encountered on a run, no comments are included below.

Note 3: The ICP analyses were done using the TJA Trace ICP. On this ICP, there are two lines for lead, antimony, and selenium. Two lines are used so that a background correction calculation can be applied and a single result reported. However, separate interfering element corrections are required for each line. On forms 11a and 11b, the corrections are shown for each line by entering two headings for each of the interfering elements.

Note 4: Due to space considerations, only abbreviations of the sources could be entered on forms 2A, 2B, 4 and 7. A full list of sources for all QC check standards follows this conformance summary.

Note 5: Sample CLAR-AQ was filtered upon receipt at the lab by client request. The sample was filtered through a 0.45 um filter and then preserved to a pH of less than 2 with nitric acid. A filter blank was done along with the sample.

ICP Analysis, 09/25/96, Soils:

1. Sample NR-100-PS was redigested and reanalyzed on this run as per client request. The lead results for the reanalysis were approximately 10 times lower than the lead results from the initial digestion and analysis. This sample appeared to be a mostly homogeneous sandy soil, but did contain varying amounts of small black particulate.

2. Bad analytical replicates were obtained on the initial analysis of the ICV. The ICV was immediately rerun and all CLP QC requirements were met.

3. The autosampler cup ran out of sample during the third replicate for the ICSA. Additional sample was poured and the ICSA was reanalyzed. All results were reported from this reanalysis.

Percent Solids, 09/24/96:

1. No drying times were recorded on this analysis so all solids were reanalyzed on 09/30/96.

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Standard Source Lots

Standard Sources

All regular metals-Inorganic Ventures: #L-MEB54104

Al, Ca, Fe, Mg, K, Na-Inorganic Venture: #L-MEB56113

Ag-MV Laboratories: #AgP11

V-MV Laboratories: #VP101

ICV & CCV Sources

All regular metals-Environmental Express: #690220

Ag-Ultra Scientific: #94701070

Al-MV Laboratories: #ALP101

Ba-MV Labs: #BAP1I

K-Spex: #K4-61K

Na-MV Labs: #NAP10L

Fe-Ultra Scientific: #1C-0130

Mg-Ultra Scientific: #1011201113

Ca-MV Laboratories: #W1295MS

AGENT LOG-ICP STANDARDS

STANDARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-29-96	Mg	MV LAB	P295 LMS	8-97	50	1000	ML
	AL		ALP 10J	6-97	50		
	Ca		W1295 MS	7-97	50		
	Fe		FEP10M	7-97	20		

EAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-20-96	Mg	MV labs	P29J LM8	8-97	50	1000	NS
	AL		ALP 10J	6-97	50		
	Ca		W129 SMJ	7-97	50		
	Fe		fe P10M	7-97	20		
	As	fisher	960124 A24	11-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	fisher	950335 A18	8-96	1.0		
	Sb	MV lab	8-83A5	1-97	1.0		
	Ag Cd Ni Pb Zn Ba Be Co Cr	Environmd	5911B	6-97	10		
	Cu Mn V						

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRIA - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
6-25-96	AS	fisher	960121 A-24	11-97	0.4	100	NS
	TL	Baker	J02568	1-97	0.4	100	
	Pb	SPEX	4-98Pb	6-96	0.12	100	
	Se	fisher	950335 A-18	8-96	0.20	100	
	Sb	fisher	940011 D-24	7-96	0.20	100	

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRI - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-1-96	Ba	MV LAB	BAP11	3-97	6.0	100	
	CO	MV LAB	COP1F	1-97	1.2 ~~1.6~~		
	Ag	MV LAB	AGP11	5-97	0.4		
	Sb	MV LAB	SBP11	3-97	2.4		
	B	Fisher Sc	955017-24	sep 1997	2.0		
	V	MV LAB Intern	VP10	10-22-93	2.0		
	MO	Fisher	9536326-24	Jun 1997	2.0		
	AS TL Pb Se	High Purity Std	591222	1-97	0.75		
	Ba As Mn Ni Be Se Co Na Cd	High Purity Std	591227	1-97	2.0		
	Pb Zn Cr TL Cu						

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INORGANICS COMPLETE SDG FILE (SCF) INVENTORY SHEET

LABORATORY NAME : ACCUTEST LABORATORY
CITY/STATE : DAYTON, NJ

CASE NO.: _____ SDG NO.: E1477b SDG NOS. TO FOLLOW: _____
SAS NO.:

CONTRACT NO.: SOW NO.: USEPA CLP INORGANICS SOW DOCUMENT IML 2.0

	PAGE NOs. FROM	TO	CHECK LAB	REGION
1. Inventory Sheet (Form DC-2) (Do not number)	25	26	✓	
2. SDG Case Narrative	19	24	✓	
3. Cover Page	27	27	✓	
4. Inorganic Analysis Data Sheet (Form I-IN)	28	34	✓	
5. Initial & Continuing Calibration Verification (Form IIA-IN)	35	39	✓	
6. CRDL Standards for AA and ICP (Form IIB-IN)	40	41	✓	
7 Blanks (Form III-IN)	42	46	✓	
CP Interference Check Sample (Form IV-IN)	47	48	✓	
9. Spike Sample Recovery (Form VA-IN)	49	50	✓	
10. Post Digest Spike Sample Recovery (Form VB-IN)	N/A	N/A	N/A	
11. Duplicates (Form VI-IN)	51	52	✓	
12. Laboratory Control Sample (Form VII-IN)	53	54	✓	
13. Standard Addition Results (Form VIII-IN)	N/A	N/A	N/A	
14. ICP Serial Dilutions (Form IX-IN)	55	56	✓	
15. Instrument Detection Limits (Form X-IN)	63	63	✓	
16. ICP Interelement Correction Factors (Form XIA-IN)	64	64	✓	
17. ICP Interelement Correction Factors (Form XIB-IN)	65	67	✓	
18. ICP Linear Ranges (Form XII-IN)	68	68	✓	
19. Preparation Log (Form XIII-IN)	59	59	✓	
20. Analysis Run Log (Form XIV-IN)	60	62	✓	
21. ICP Raw Data	69	164	✓	
22. Furnace AA Raw Data	N/A	N/A	N/A	
23. Flame AA Raw Data	N/A	N/A	N/A	
Mercury Raw Data	N/A	N/A	N/A	
. Cyanide Raw Data	N/A	N/A	N/A	
26. Preparation Logs Raw Data	165	171	✓	

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	PAGE NOs. FROM	TO	CHECK LAB	REGION
27. Percent Solids Determination Log	172	172	✓	
28. Traffic Report	N/A	N/A	-	
29. Region Shipping/Receiving Documents				
Airbill (No. of Shipments_____)	N/A	N/A	-	
Chain-of-Custody Records	8	9	✓	
Sample Tags	N/A	N/A	-	
Sample Log-In Sheet (Lab & DC1)	N/A	N/A	-	
SDG Cover Sheet	N/A	N/A	-	
30. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	
31. Internal Lab Sample Transfer Records & Tracking sheets (describe or list)	10	14	✓	
	N/A	N/A	-	
	N/A	N/A	-	
32. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	N/A	N/A	-	
Analysis Records	N/A	N/A	-	
Description	N/A	N/A	-	
33. Other Records (describe or list)				
Telephone Communication Log	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	

34. Comments:

Completed by : Nancy F. Cole — Nancy F. Cole Inorganics Manager — 10/4/96
(Lab) (Signature) (Print Name & Title) (Date)

Edited by : _____ _____ _____
(Region) (Signature) (Print Name & Title) (Date)

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.:E14776__

SOW No.: 3/90_

Client Sample No.	Lab Sample ID
_CLAR-AQ_____	__E14776-5____
_NR-BIN-SED___	__E14776-2____
_NR-CLAR-SED__	__E14776-6____
_NR-PE-1_____	__E14776-4____
_NR-100-PS____	__E14776-3____
SR-CLAR-SED2	__E14776-1____

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:

SEE_CONFORMANCE_SUMMARY_FOR_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. NFC 10/2

Signature: Nancy F. Cole Name: Nancy F. Cole

Date: Oct. 2, 1996 Title: Inorganics Manager

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED2

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-1

Level (low/med): LOW Date Received: 09/23/96

% Solids: 39.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2230			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-BIN-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-2

Level (low/med): LOW Date Received: 09/23/96

% Solids: 95.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/YELLO Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-3

Level (low/med): LOW Date Received: 09/23/96

% Solids: 93.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	978			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-100-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-3R

Level (low/med): LOW Date Received: 09/23/96

% Solids: 93.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	92.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: MEDIUM

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-PE-1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-4

Level (low/med): LOW Date Received: 09/23/96

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN/YELLO Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

CLAR-AQ

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): WATER Lab Sample ID: E14776-5

Level (low/med): LOW Date Received: 09/23/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	156			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: NONE Clarity Before: CLEAR Texture:

Color After: NONE Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-CLAR-SED

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Matrix (soil/water): SOIL Lab Sample ID: E14776-6

Level (low/med): LOW Date Received: 09/23/96

% Solids: 28.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2740			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

34

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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	1000.0	998.92	99.9	2000.0	1966.49	98.3	1970.23	98.5	P
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

FORM II (PART 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14776

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	1961.42	98.1	1940.66	97.0	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14776___

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	1948.82	97.4			P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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	1000.0	987.08	98.7	2000.0	2017.01	100.9	2018.03	100.9	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	2012.47	100.6	2013.44	100.7	P
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

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14776

AA CRDL Standard Source: _____

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.82	113.7	5.82	97.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14776__

AA CRDL Standard Source: _____

ICP CRDL Standard Source: HPS/SPEX____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	7.17	119.5	6.57	109.5
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
[illegible]um											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U	1.0	B	1.010	B	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.4	B	1.2	B			1.000	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14776__

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									0.402	B	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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
[illegible]um											NR
[illegible]yllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U	-1.0	B	0.200	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

BLANKS

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14776__

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			-1.3	B							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	459145	465544.6	93.1	462491	467727.4	93.5
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	415523	420494.6	84.1	413445	413964.2	82.8
Chromium								
Cobalt								
Copper								
Iron	200000	200000	183422	186178.0	93.1	181942	182681.6	91.3
Lead	0	1000	1	940.9	94.1	1	926.1	92.6
Magnesium	500000	500000	498150	504255.8	100.9	499416	500983.7	100.2
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	507348	517333.7	103.5	505157	515330.8	103.1
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
ılcium	500000	500000	413760	419283.0	83.9	413287	420351.0	84.1
ıromium								
Cobalt								
Copper								
Iron	200000	200000	183319	187884.9	93.9	183546	188729.2	94.4
Lead	0	1000	0	979.8	98.0	-1	977.0	97.7
Magnesium	500000	500000	508623	522410.6	104.5	508718	522609.1	104.5
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

CLAR-AQS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	652.5900		155.8300		500.00	99.4		P
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:

FORM V (Part 1) - IN ILMO2.1

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

NR-PE-1S

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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

% Solids for Sample: 96.3

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	75-125	102.3281		3.0903		103.84	95.6		P
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:

6
DUPLICATES

CLIENT SAMPLE NO.

CLAR-AQD

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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

Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
obalt								NR
opper								NR
Iron								NR
Lead		155.8300		161.8100		3.8		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN

ILMO2.1

6
DUPLICATES

CLIENT SAMPLE NO.

NR-PE-1D

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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

% Solids for Sample: 96.3 % Solids for Duplicate: 96.3

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	0.6	3.0903		2.7082		13.2		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

7

LABORATORY CONTROL SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Solid LCS Source: EPA 228

Aqueous LCS Source: SPEX/QC-19

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
[illegible]ium									
[illegible]omium									
Cobalt									
Copper									
Iron									
Lead	500.0	500.02	100.0	70.4	63.8		37.3	100.0	90.6
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

7

LABORATORY CONTROL SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14776

Solid LCS Source: EPA 228

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
[illegible]cium									
[illegible]omium									
Cobalt									
Copper									
Iron									
Lead				70.4	65.2		37.3	100.0	92.6
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

CLAR-AQL

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	155.83		163.32		4.8		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

NR-PE-1L

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

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							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	14.88		16.85		13.2		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CLAR-AQ	09/23/96		100
CLAR-AQD	09/23/96		100
CLAR-AQS	09/23/96		100
LCSW-9-23	09/23/96		100
PBW1-9-23	09/23/96		100
PBW2-9-23	09/23/96		100

FORM XIII - IN ILMO2.1

13

PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS-9-23	09/23/96	1.00	200
NR-100-PS	09/23/96	1.00	200
NR-BIN-SED	09/23/96	1.00	200
NR-CLAR-SED	09/23/96	1.00	200
NR-PE-1	09/23/96	1.00	200
NR-PE-1D	09/23/96	1.00	200
NR-PE-1S	09/23/96	1.00	200
PBS-9-23	09/23/96	1.00	200
SR-CLAR-SED2	09/23/96	1.00	200

FORM XIII - IN ILM02.1

13

PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS-9-25	09/25/96	1.00	200
NR-100-PS	09/25/96	1.00	200
PBS- 9-25	09/25/96	1.00	200

FORM XIII - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.:E14776__

Instrument ID Number: TJA TRACE-Y__ Method: P_

Start Date: 09/23/96 End Date: 09/24/96

Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
				Analytes																							
STANDARD A	1.00	2149		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
STANDARD B	1.00	2153		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
STANDARD C	1.00	2157		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	X	X	X	X	_
STANDARD D	1.00	2201		_		X	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	_	X	X	_	X	_
STANDARD E	1.00	2205		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_
STANDARD F	1.00	2208		_	_	_	_	_	_	X	_	_	_	X	_	X	_	_	_	X	_	_	X	_	_	_	_
STANDARD G	1.00	2210		X	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICV-1	1.00	2213		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB-1	1.00	2218		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
(1	1.00	2222		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-1	1.00	2227		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-1A	1.00	2244		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CRI-1	1.00	2249		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICSA-1	1.00	2253		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
ICSAB-1	1.00	2258		X	_	_	_	_	_	X	_	_	_	X	X	X	_	_	_	_	_	_	_	_	_	_	_
CCV-2	1.00	2303		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-2	1.00	2307		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
PBW1-9-23	1.00	2316		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
PBW2-9-23	1.00	2320		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSW-9-23	1.00	2325		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CLAR-AQD	1.00	2330		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CLAR-AQS	1.00	2334		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CLAR-AQ	1.00	2339		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CLAR-AQL	5.00	2343		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
PBS-9-23	1.00	2348		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSS-9-23	1.00	2353		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV-3	1.00	2357		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB-3	1.00	0002		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
NR-PE-1D	1.00	0006		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
NR-PE-1S	1.00	0011		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
NR-PE-1	1.00	0016		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
NR-PE-1L	5.00	0020		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.:E14776

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/23/96

End Date: 09/24/96

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
SR-CLAR-SED2	1.00	0025													X												
NR-BIN-SED	1.00	0029													X												
NR-100-PS	1.00	0034													X												
NR-CLAR-SED	1.00	0039													X												
NR-PE-1A	1.00	0107																									
CCV-4	1.00	0111													X												
CCB-4	1.00	0116													X												
CRI-2A	1.00	0128													X												
CRI-2	1.00	0132																									
[illegible]-2	1.00	0137		X						X				X	X	X											
[illegible]AB-2	1.00	0141		X						X				X	X	X											
CCV-5	1.00	0146													X												
CCB-5	1.00	0151													X												

FORM XIV - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.: E14776

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/25/96

End Date: 09/25/96

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
STANDARD A	1.00	1405		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STANDARD B	1.00	1410		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD C	1.00	1414		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD D	1.00	1418				X	X	X	X		X	X	X		X		X		X		X		X	X		X	
STANDARD E	1.00	1423			X																	X					
STANDARD F	1.00	1426																							X		
STANDARD G	1.00	1429		X						X				X		X				X			X				
ICV-1	1.00	1447																									
ICV-1	1.00	1456													X												
[illegible]1	1.00	1501													X												
[illegible]-1	1.00	1507													X												
CCB-1	1.00	1512													X												
CRI-1A	1.00	1517													X												
CRI-1	1.00	1522																									
ICSA-1	1.00	1530		X						X				X	X	X											
ICSAB-1	1.00	1535		X						X				X	X	X											
CCV-2	1.00	1540													X												
CCB-2	1.00	1545													X												
PBS- 9-25	1.00	1616													X												
LCSS-9-25	1.00	1621													X												
NR-100-PS	1.00	1626													X												
CCV-3	1.00	1631													X												
CCB-3	1.00	1636													X												
CRI-2A	1.00	1642													X												
CRI-2	1.00	1650																									
ICSA-2	1.00	1706																									
ICSA-2	1.00	1712		X						X				X	X	X											
ICSAB-2	1.00	1717		X						X				X	X	X											
CCV-4	1.00	1722													X												
CCB-4	1.00	1727													X												

FORM XIV - IN ILMO2.1

Instrument Detection Limits (Quarterly)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA_TRACE-Y_ Date: 06/27/96

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	22.0	P
Antimony	206.83		60	2.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	0.3	P
Beryllium	313.04		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	66.0	P
Chromium	267.72		10	0.7	P
Cobalt	228.62		50	0.7	P
Copper	324.75		25	0.7	P
Iron	271.44		100	24.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	15.0	P
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	15.0	P
Selenium	196.02		5	3.0	P
Silver	328.07		10	0.7	P
Sodium	588.99		5000	9.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		50	0.6	P
Zinc	213.86		20	1.0	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y_ Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AL_
Aluminum	308.22	0.0000000	-0.0002400	-0.0001200	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000280	0.0000000	0.0000100
Arsenic	189.04	0.0000080	0.0000000	-0.0000100	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000060	0.0000000	0.0001550	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000030	0.0000000	-0.0000200	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000160	0.0000000	0.0000000	0.0000020	0.0000000
Iron	271.44	-0.0004800	-0.0000200	0.0000000	0.0000210	0.0000000
Lead	220.35	0.0004640	-0.0000100	0.0000570	0.0000020	-0.0002000
Magnesium	279.08	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Manganese	257.61	0.0000060	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000100	-0.0000400	0.0000000	0.0000070
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	-0.0008200	0.0000000	0.0000000	0.0000000	0.0009320
Thallium	190.86	0.0000000	-0.0000300	-0.0001000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000190	0.0000010	0.0001120	0.0000020	0.0000000

Comments: Be, Cd, Cr, Cu, Zn, As, Tl, Pb, Sb, Se modified 9/5/96; Mn, Ag modified 7/12; V modified 5/20.

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CA	CO	CR	CR	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0127200	0.0074840	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	-0.0000800	0.0000000	0.0000570
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0816000	0.0000000	-0.0000200	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0006240
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	-0.0000200	0.0000610	0.0000180	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0001450	0.0000000	-0.0000600
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0025200	0.0002920	0.0000000	-0.0000400
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0000800	0.0000030	0.0000000	0.0003820

Comments:

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	FE	MG	MN	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000250	0.0000020	0.0000000	0.0000830
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001240
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0003700	0.0000000	0.0000000
Lead	220.35	-0.0000600	0.0000760	0.0000000	0.0001180	-0.0000600
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	0.0000000	-0.0002700	0.0000000	0.0001840	-0.0000800
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000090
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0007190
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : NI	NI	V	V	
Aluminum	308.22	0.0000000	0.0000000	0.0030800	0.0000000	
Antimony	206.83	-0.0010600	0.0000000	0.0001110	-0.0068400	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001290	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	-0.0017200	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0002960	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0040000	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0083200	
Lead	220.35	0.0003510	0.0000180	-0.0012000	0.0002820	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001300	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0001520	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	0.0000000	0.0000000	0.0000150	0.0000000	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001980	
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	-0.0000900	0.0000000	0.0014400	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0042700	0.0000000	0.0002620	

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14776

ICP ID Number: TJA TRACE-Y Date: 06/25/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	50000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	1000000.0	P
Chromium	10.00	50000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	50000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	750000.0	P
Thallium	10.00	50000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Sep 25 1996, 09:34 am

File ID: IC0923M3.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/23/96
Run ID: MA2306

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:13	MA2306-ICV1	1		
22:18	MA2306-ICB1	1		
22:22	MA2306-CCV1	1		
22:27	MA2306-CCB1	1		
22:44	MA2306-CRIA1	1		
22:49	MA2306-CRI1	1		
22:53	MA2306-ICSA1	1		
22:58	MA2306-ICSAB1	1		
23:03	MA2306-CCV2	1		
23:07	MA2306-CCB2	1		
23:16	MP2785-MB1	1		PBW1-9-23
23:20	MP2785-MB2	1		PBW2-9-23 Filter blank.
23:25	MP2785-LC1	1		LCSW-9-23
23:30	MP2785-D1	1		E14776-5D
23:34	MP2785-S1	1		E14776-5S
23:39	E14776-5	1		
23:43	MP2785-SD1	5		E14776-5L
23:48	MP2784-MB1	1		PBS-9-23
23:53	MP2784-LC1	1		LCSS-9-23
23:57	MA2306-CCV3	1		
00:02	MA2306-CCB3	1		
00:06	MP2784-D1	1		E14776-4D
00:11	MP2784-S1	1		E14776-4S
00:16	E14776-4	1		
00:20	MP2784-SD1	5		E14776-4L
00:25	E14776-1	1		
00:29	E14776-2	1		
00:34	E14776-3	1		
00:39	E14776-6	1		
01:07	ZZZZZZ	1		E14776-4PS
01:11	MA2306-CCV4	1		
01:16	MA2306-CCB4	1		

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Sep 25 1996, 09:34 am

File ID: IC0923M3.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/23/96
Run ID: MA2306

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:28	MA2306-CRIA2	1		
01:32	MA2306-CRI2	1		
01:37	MA2306-ICSA2	1		
01:41	MA2306-ICSAB2	1		
01:46	MA2306-CCV5	1		
01:51	MA2306-CCB5	1		

Refer to raw data for calibration curve and standards.

Method LPA3 Standard: 5 PM

n	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00006	-.00037	-.00005	-.00004	.00003	.00109	.00002
SDev	.00006	.00001	.00005	.00003	.00002	.00001	.00000
%RSD	2.9076	2.0299	85.630	76.287	80.490	1.1368	21.157
#1	.00006	-.00036	-.00006	-.00006	.00003	.00108	.00002
#2	.00006	-.00037	-.00001	-.00001	.00004	.00110	.00003
#3	.00006	-.00038	-.00010	-.00006	.00000	.00110	.00002

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.00025	.00002	-.00017	.00001	-.00001	-.00042	.00058
SDev	.00006	.00003	.00000	.00000	.00005	.00006	.00073
%RSD	22.490	162.67	2.7908	31.861	627.64	13.168	125.74
#1	.00026	-.00001	-.00017	.00001	-.00005	-.00041	.00045
#2	.00036	.00005	-.00017	.00001	-.00002	-.00037	-.00008
#3	.00024	.00002	-.00018	.00001	.00005	-.00048	.00136

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	-.00015	-.00077	.00012	-.00018	.00052	.00410	.00002
SDev	.00028	.00037	.00016	.00014	.00019	.00007	.00000
%RSD	187.87	47.544	129.90	75.418	36.863	1.6649	5.9152
#1	-.00005	-.00073	.00028	-.00026	.00059	.00405	.00002
#2	.00007	-.00042	-.00004	-.00025	.00031	.00408	.00002
	-.00046	-.00115	.00012	-.00002	.00067	.00418	.00002

Elem	Fe2714	Mg2790	K 7664	Na5889	Na6589
Avge	.00014	.00010	.00024	.00059	.01503

[illegible]	.00009	.00001	.00002	.00004	.00013
[illegible]	50.461	11.555	5.9701	6.6795	.85615
[illegible]	.00016	.00010	.00023	.00058	.01497
[illegible]	.00022	.00011	.00025	.00064	.01493
[illegible]	.00005	.00009	.00025	.00056	.01517

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	393860	--	--	--	--	--	--
SDev	6878.307	--	--	--	--	--	--
%RSD	1.746382	--	--	--	--	--	--
#1	399372	--	--	--	--	--	--
#2	396057	--	--	--	--	--	--
#3	386152	--	--	--	--	--	--

Method: EPA3 Standard: STD8

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00439	.04003	.08843	.02995	.02046	.02036	.01395
SDev	.00004	.00050	.00100	.00034	.00027	.00018	.00016
%RSD	.90495	1.2490	1.1337	1.1354	1.3172	.87530	1.1296
	.00443	.04060	.08956	.03034	.02077	.02057	.01418
[illegible]	.00436	.03983	.08806	.02983	.02035	.02024	.01388
#3	.00437	.03965	.08766	.02969	.02026	.02027	.01383

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn3072
Avge	.03064	.00377	.00476	.00884	.01887	.04268	.05976
SDev	.00041	.00007	.00006	.00009	.00010	.00040	.00019
%RSD	1.3354	1.7410	1.2053	1.0148	.54428	.93061	.31809
#1	.03102	.00384	.00482	.00854	.01897	.04307	.05997
#2	.03070	.00376	.00474	.00879	.01889	.04227	.05962
#3	.03021	.00371	.00472	.00878	.01877	.04272	.05968

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.04402	.05453	.03210	.01144	.03171	.04357	.00102
SDev	.00040	.00060	.00017	.00021	.00065	.00034	.00001
%RSD	.91554	1.0996	.53373	1.8792	2.0467	.79198	1.3634
#1	.04448	.05522	.03234	.01167	.03235	.04396	.00104
#2	.04384	.05414	.03200	.01125	.03173	.04331	.00102
#3	.04374	.05423	.03201	.01139	.03105	.04343	.00101

Elem	Fe2714	Mg2790	Na5889
Avge	.03841	.03376	.00242
SDev	.00041	.00039	.00004
%RSD	1.0583	1.1637	1.6027
#1	.03887	.03421	.00241
#2	.03827	.03357	.00246
#3	.03809	.03350	.00239

Std	1	2	3	4	5	6	7
Type	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	386804	--	--	--	--	--	--
SDev	3571.177	--	--	--	--	--	--
%RSD	.9185032	--	--	--	--	--	--
#1	384697	--	--	--	--	--	--
#2	390537	--	--	--	--	--	--
#3	391178	--	--	--	--	--	--

Method: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00860	.08015	.17456	.05935	.04053	.03935	.02759
SDev	.00003	.00035	.00088	.00030	.00015	.00011	.00011
%RSD	.40580	.43874	.50484	.50902	.38351	.27265	.41366
#1	.00864	.08055	.17557	.05968	.04071	.03947	.02772
#2	.00859	.07997	.17417	.05928	.04046	.03930	.02754
#3	.00858	.07992	.17394	.05909	.04043	.03927	.02751

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Avge	.06038	.00742	.00962	.01725	.03747	.08504	.11733
SDev	.00026	.00012	.00004	.00006	.00019	.00036	.00119
%RSD	.43261	1.5830	.42586	.35674	.51201	.42328	1.0122
#1	.06068	.00755	.00966	.01736	.03758	.08538	.11870
#2	.06024	.00737	.00960	.01725	.03755	.08507	.11553
#3	.06021	.00734	.00959	.01725	.03725	.08467	.11578

Elem	220372	206871	206872	196071	196072	Al3082	Ba3179
Avge	.08713	.10781	.06325	.02270	.06183	.06919	.00168
SDev	.00004	.00085	.00045	.00011	.00050	.00027	.00001
%RSD	.04488	.78710	.71320	.49996	.47988	.38877	.55750
#1	.08712	.10845	.06370	.02283	.06217	.06950	.00155
#2	.08710	.10812	.06280	.02266	.06168	.06904	.00168
#3	.08718	.10685	.06324	.02261	.06163	.06903	.00180

Elem	Fe2714	Mg2790	Na5889
Avge	.06284	.08871	.00368
SDev	.00030	.00028	.00005
%RSD	.47561	.50920	1.2895
#1	.06399	.08603	.00370
#2	.06348	.08855	.00368
#3	.06343	.08883	.00361

Std	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	391696	--	--	--	--	--	--
	1313.915	--	--	--	--	--	--
	.3354425	--	--	--	--	--	--
#1	390182	--	--	--	--	--	--
#2	392538	--	--	--	--	--	--
#3	392368	--	--	--	--	--	--

Method: EPA3 Standard: STDD

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.04226	.40345	.87230	.29922	.20378	.18897	.13851
SDev	.00076	.00534	.01029	.00363	.00258	.00315	.00173
%RSD	1.8094	1.3233	1.1795	1.2136	1.2646	1.6688	1.2513
#1	.04314	.40960	.88418	.30341	.20676	.19261	.14051
#2	.04181	.40067	.86674	.29712	.20234	.18707	.13752
#3	.04183	.40007	.86599	.29712	.20225	.18724	.13750

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.30167	.08135	.18694	.43342	.58302	.43955	.11416
SDev	.00411	.00099	.00236	.00488	.00792	.00508	.00145
%RSD	1.3633	1.2214	1.2634	1.1257	1.3589	1.1561	1.2732
#1	.30641	.08250	.18967	.43904	.59216	.44538	.11585
#2	.29942	.08078	.18554	.43023	.57810	.43722	.11320
	.29917	.08077	.18562	.43100	.57881	.43604	.11348

Elem	1960/2	Na5889
Avge	.30791	.04842
SDev	.00154	.00051
%RSD	.49934	1.0552
#1	.30967	.04900
#2	.30684	.04807
#3	.30721	.04817

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	388738	--	--	--	--	--	--
SDev	4674.006	--	--	--	--	--	--
%RSD	1.202431	--	--	--	--	--	--
#1	383855	--	--	--	--	--	--
#2	391086	--	--	--	--	--	--
#3	391771	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Hg2280	2068/1	2068/2
Avge	.06611	.31897	.30826
SDev	.00030	.01053	.00267
%RSD	.45886	2.0295	.86624

	.03640	.50661	.31121
	.03587	.52502	.30601
#3	.03600	.52509	.30757

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390043	--	--	--	--	--	--
SDev	3499.650	--	--	--	--	--	--
%RSD	.8972481	--	--	--	--	--	--
#1	386166	--	--	--	--	--	--
#2	392969	--	--	--	--	--	--
#3	390993	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.04016
SDev	.00011
%RSD	.28214
#1	.04025
#2	.04003
	.04021

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387379	--	--	--	--	--	--
SDev	9164.772	--	--	--	--	--	--
%RSD	2.365841	--	--	--	--	--	--
#1	376804	--	--	--	--	--	--
#2	393013	--	--	--	--	--	--
#3	392320	--	--	--	--	--	--

Method: EPA3 Standard: STD6

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.52078	.01291	.49077	.45040	.10713	.02720
SDev	.00124	.00004	.00096	.00097	.00048	.00005
%RSD	.23894	.27966	.20044	.21530	.44914	.31578
#1	.52082	.01295	.49188	.45147	.10750	.02715
#2	.52201	.01289	.49051	.45013	.10732	.02730
#3	.51952	.01288	.48994	.44959	.10659	.02715

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Max %	371.030	--	--	--	--	--	--
Avg	388337	--	--	--	--	--	--
	712.8572	--	--	--	--	--	--
[illegible]	.1835665	--	--	--	--	--	--
#1	388872	--	--	--	--	--	--
#2	388612	--	--	--	--	--	--
#3	387528	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/23/96 22:13:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0306	1.0014	.99710	1.0009	.99922	.99392	1.0022
SDev	.0050	.0033	.00452	.0047	.00476	.00528	.0039
%RSD	.48160	.33417	.45332	.46724	.47659	.53130	.38764
#1	1.0361	1.0053	1.0022	1.0063	1.0047	.99984	1.0066
#2	1.0291	.99938	.99369	.99828	.99701	.99226	1.0000
#3	1.0265	.99958	.99539	.99815	.99597	.98968	.99982
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99305	0.54190	0.84863	1.0051	.95986	.96286	.99576
SDev	.00499	.00300	.00389	.0036	.00634	.00692	.00530
%RSD	.50226	.55384	.45864	.35509	.66080	.71825	.53732
#1	.99875	0.54500	0.85312	1.0091	.96633	.97082	1.0008
#2	.99090	0.54171	0.84659	1.0041	.95959	.95827	.99017
#3	.98949	0.53900	0.84619	1.0021	.95366	.95951	.99628
Errors	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0004	1.0005	.98669	.96227	.97039	01.0630	1.0262
SDev	.0068	.0060	.00813	.00355	.00505	.0105	.0049
%RSD	.68104	.59688	.82447	.36851	.52028	.98609	.47968
#1	1.0082	1.0072	.99598	.96527	.97502	01.0766	1.0313
#2	.99931	.99883	.98087	.96635	.96626	01.0621	1.0257
#3	.99786	.99563	.98321	.96318	.96889	01.0562	1.0215
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass
Value						1.0000	1.0000
Range						5.0000	5.0000

Elem	Mg2790	Mg2790	K 7664	Na5889	Pb[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0311	.97343	0.91986	1.0100	.99[illegible]2	.967[illegible]2	.99132
SDev	.0056	.00655	.02052	.0210	.00621	.00445	.00723
%RSD	.54428	.67307	2.2305	2.0780	.62111	.45909	.73517
#1	1.0329	.98034	0.93892	1.0342	1.0008	.97248	.99973
#2	1.0248	.97272	0.89814	.99953	.99364	.96367	.98687
#3	1.0356	.96729	0.92252	.99632	.99737	.96701	.98736
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391998	--	--	--	--	--	--
SDev	1683.807	--	--	--	--	--	--
%RSD	.4295451	--	--	--	--	--	--
#1	390239	--	--	--	--	--	--
#2	392159	--	--	--	--	--	--
#3	393595	--	--	--	--	--	--

[illegible]od: EPA3 Sample Name: ICB Operator:
[illegible] Time: 09/23/96 22:18:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	.00012	.00010	-.00019	.00011	.00003	.00013
SDev	.00010	.00008	.00010	.00055	.00053	.00006	.00007
%RSD	527.03	68.431	107.45	294.25	487.47	16.920	53.[illegible]
#1	.00010	.00021	.00020	-.00048	-.00022	.00009	[illegible]
#2	-.00008	.00007	-.00000	.00045	.00072	.00007	.00015
#3	-.00007	.00007	.00009	-.00053	-.00017	.00042	.00006
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Fe[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00077	-.00027	-.00041	.00166	-.00047	.00030	.00009
SDev	.00042	.00079	.00022	.00013	.00201	.00136	.00499
%RSD	54.241	290.98	52.958	7.8529	425.65	448.46	5309.8
	.00059	-.00100	-.00016	.00173	-.00129	.00118	-.00280
	.00047	.00057	-.00053	.00175	-.00195	-.00125	.00081
#3	.00124	-.00039	-.00054	.00151	.00182	.00097	-.00270
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOUNCL

[illegible]	.00000	.00000	.00000	.00000	.00000	.00000	
[illegible]ue	.04000	.01000	.03000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00098	-.00059	-.00401	-.00125	-.00387	.00300
SDev	.00272	.00571	.00278	.00436	.00539	.00736	.00076
%RSD	3818.7	580.68	472.00	108.84	431.04	190.22	25.341
#1	.00221	.00267	-.00280	-.00776	.00433	-.01093	.00212
#2	-.00299	-.00538	.00254	.00077	-.00637	.00376	.00341
#3	.00100	.00566	-.00150	-.00502	-.00177	-.00443	.00347
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00627	-.00198	-.00133	.02794	.00012	-.00215	-.00005
SDev	.00777	.00437	.01269	.00697	.00040	.00224	.00093
%RSD	123.95	221.30	950.79	24.933	335.83	104.34	1920.0
#1	-.00053	-.00388	-.01355	.02211	.00057	.00036	-.00096
#2	-.00317	.00303	.01178	.03565	-.00002	-.00397	-.00008
#3	-.01512	-.00508	-.00223	.02605	-.00019	-.00283	.00090
[illegible]ors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
[illegible]ue	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	397640	--	--	--	--	--	--
SDev	2486.866	--	--	--	--	--	--
%RSD	.6254063	--	--	--	--	--	--
#1	400509	--	--	--	--	--	--
#2	396311	--	--	--	--	--	--
#3	396100	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/23/96 22:22:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9725	1.9738	1.9560	1.9617	1.9570	2.0092	1.9624
SDev	.0034	.0026	.0046	.0042	.0038	.0031	.002[illegible]
%RSD	.17151	.13204	.23732	.21430	.19414	.15517	.12130
#1	1.9764	1.9723	1.9524	1.9579	1.9541	2.0124	1.9605
#2	1.9703	1.9768	1.9616	1.9662	1.9614	2.0088	1.9653

#3	1.9708	1.9723	1.9663	1.9611	1.9557	2.0062	1.9615
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2209/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9620	.24331	Q1.6885	1.9460	1.9677	1.9580	1.9640
SDev	.0035	.00027	.0011	.0019	.0063	.0149	.0106
%RSD	.17638	.10980	.06637	.09897	.31943	.76330	.53803
#1	1.9594	.24325	Q1.6876	1.9447	1.9609	1.9409	1.9762
#2	1.9659	.24361	Q1.6897	1.9482	1.9734	1.9647	1.9587
#3	1.9606	.24308	Q1.6882	1.9451	1.9687	1.9684	1.9572
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9677	2.0023	2.0015	1.9620	1.9595	39.231	39.337
SDev	.0026	.0038	.0055	.0149	.0088	.009	.109
%RSD	.13200	.18814	.27505	.75734	.44746	.02323	.27820
#1	1.9649	2.0066	2.0070	1.9730	1.9579	39.230	39.230
#2	1.9700	2.0006	2.0015	1.9451	1.9517	39.241	39.449
#3	1.9681	1.9996	1.9960	1.9680	1.9690	39.222	39.332
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.974	39.428	38.980	39.842	1.9665	1.9504	2.0017
SDev	.048	.036	.125	.104	.0021	.0098	.0049
%RSD	.12223	.09080	.32098	.26029	.10656	.50199	.24281
#1	38.931	39.395	39.118	39.739	1.9667	1.9580	2.0066
#2	39.025	39.466	38.951	39.946	1.9663	1.9495	2.0012
#3	38.967	39.422	38.873	39.841	1.9645	1.9667	1.9974
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Value	371.030	--	--	--	--	--	--
Avge	390.379	--	--	--	--	--	--
SDev	2076.365	--	--	--	--	--	--
%RSD	.53168889	--	--	--	--	--	--

#1	3e8001	--	--	--	--	--	--
	392009	--	--	--	--	--	--
	391048	--	--	--	--	--	--

Method: EPA3 Sample Name: L .B Operator:
Run Time: 09/23/96 22:27:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.00025	.00030	-.00009	.00014	.00041	.00030
SDev	.00014	.00010	.00015	.00015	.00067	.00021	.00009
%RSD	45.499	41.305	50.889	172.20	468.75	51.960	28.221
#1	.00040	.00037	.00048	-.00006	.00013	.00065	.00035
#2	.00038	.00020	.00024	.00005	.00082	.00026	.00035
#3	.00015	.00018	.00019	-.00026	-.00052	.00031	.00020
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z2037/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	-.00013	-.00038	.00025	-.00116	-.00005	-.00086
SDev	.00105	.00016	.00031	.00014	.00034	.00386	.00163
%RSD	257.09	139.85	83.113	54.277	29.310	7521.5	211.58
#1	-.00050	.00002	-.00012	.00034	-.00077	.00246	.00120
#2	.00150	-.00032	-.00029	.00032	-.00135	.00188	-.00151
#3	.00033	-.00008	-.00072	.00009	-.00135	-.00449	-.00229
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	Z203/2	2068/1	2065/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00137	.00023	-.00059	-.00468	.00128	-.00671	.00037
SDev	.00100	.00294	.00203	.00206	.00267	.00180	.00023
%RSD	72.664	1279.9	341.69	44.081	208.24	26.781	6.8672
#1	.00038	-.00285	.00116	-.00231	.00246	-.00705	.00357
#2	.00137	.00054	-.00013	-.00570	.00318	-.00476	.00316
#3	.00237	.00300	-.00281	-.00605	-.00178	-.00831	.00317
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00073	-.00149	.00341	.01005	.00067	-.00060	-.00030
SDev	.00426	.00428	.00722	.00484	.00021	.00218	.00050
%RSD	582.62	286.40	211.44	48.137	31.142	319.60	165.73

#1	.00232	-.00371	-.00214	.01232	.00069	.00039	-.00016
#2	.00083	.00344	.01157	.00449	.00043	.00024	.00011
#3	-.00555	-.00421	.00081	.01333	.00086	-.00318	-.00086
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	5.0000	5.0000	5.0000	.00500	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	396648	--	--	--	--	--	--
SDev	737.0898	--	--	--	--	--	--
%RSD	.1858298	--	--	--	--	--	--
#1	395797	--	--	--	--	--	--
#2	397049	--	--	--	--	--	--
#3	397097	--	--	--	--	--	--

Metnod: EPA3 Sample Name: CRIA Operator:
Run Time: 09/23/96 22:44:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	-.00002	-.00002	-.00017	.00069	.00010	.00009
SDev	.00001	.00003	.00014	.00027	.00005	.00051	.00009
%RSD	91.356	150.15	620.17	161.27	7.0247	519.77	90.601
#1	.00002	.00001	.00004	-.00048	.00064	.00040	.00014
#2	.00000	-.00006	.00007	-.00007	.00074	.00038	.00014
#3	.00001	-.00001	-.00018	.00004	.00069	-.00049	-.00000
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3491
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	.00018	-.00071	.00059	.01879	.01416	.00422
SDev	.00068	.00037	.00035	.00012	.00250	.00058	.00110
%RSD	100.15	207.14	50.062	19.710	13.337	4.0919	27.331
#1	.00038	.00024	-.00081	.00059	.01723	.01466	.00552
#2	.00145	-.00022	-.00032	.00070	.01690	.01429	.00343
#3	.00020	.00051	-.00101	.00047	.02163	0.01353	.00369
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.00808	.01297	.01146	.00547	.01204	-.00820	.00543
SDev	.00081	.00109	.00116	.00527	.00145	.00415	.00019
[illegible]	9.9795	8.3732	10.102	96.321	12.011	50.644	3.5103
#1	.00901	.01232	.01255	.01095	.01270	-.00491	.00562
#2	.00756	.01423	.01159	.00043	.01304	-.00682	.00524
#3	.00767	.01237	.01024	.00505	.01039	-.01287	.00544
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00767	-.00625	.03994	-.04747	.00683	.00987	.01198
SDev	.00957	.00182	.00102	.00650	.00092	.00196	.00088
%RSD	124.78	29.175	2.5501	13.693	13.506	19.871	7.3226
#1	-.00802	-.00623	.04016	-.04477	0.00789	.01214	.01249
#2	.00207	-.00444	.04083	-.04276	.00622	.00886	.01249
#3	-.01706	-.00808	.03883	-.05489	.00637	.00863	.01097
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
[illegible]e	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
[illegible]m	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389866	--	--	--	--	--	--
SDev	597.2696	--	--	--	--	--	--
%RSD	.1531987	--	--	--	--	--	--
#1	389287	--	--	--	--	--	--
#2	390480	--	--	--	--	--	--
#3	389831	--	--	--	--	--	--

Method: EPA3 Sample Name: LRI Operator: -
Run Time: 09/23/96 22:49:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2286	Cu2286	Cr2677	Cu3247	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38080	.00935	.00961	.09594	.01982	.04748	.02840
SDev	.00110	.00006	.00010	.00087	.00084	.00011	.00012
%RSD	.28811	.61605	1.0121	.91148	4.2218	.23414	.40281
#1	.38088	.00929	.00950	.09610	.02006	.04758	.02839
#2	.38185	.00938	.00966	.09499	.01889	.04751	.02841
#3	.37966	.00939	.00968	.09672	.02051	.04736	.02857
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07467	.01860	.08157	.03920	.18701	.18633	[illegible]
SDev	.00070	.00099	.00036	.00012	.00100	.00332	.00403
%RSD	.94062	5.3151	.44736	.31355	.53219	1.7794	2.1020
#1	.07513	.01830	.08132	.03907	.18612	.18336	.19344
#2	.07503	.01779	.08139	.03921	.18684	.18998	.18703
#3	.07386	.01970	.08199	.03932	.18809	.18624	.19446
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19317	.11234	.10945	.18681	.19294	-.00220	.00542
SDev	.00215	.00131	.00150	.00559	.00093	.00078	.00040
%RSD	1.1124	1.1695	1.3702	2.9901	.48321	35.598	7.3059
#1	.19100	.11265	.11057	.18481	.19206	-.00155	.00565
#2	.19321	.11348	.10774	.18249	.19285	-.00307	.00497
#3	.19530	.11091	.11004	.19312	.19392	-.00198	.00565
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00128	-.00655	-.00697	.00890	.19270	.19092	.11043
SDev	.00441	.00334	.01163	.01273	.00206	.00239	.00081
%RSD	344.81	51.063	166.83	143.08	1.0702	1.2501	.72985
#1	-.00246	-.00485	-.00910	.01238	.19185	.18966	.11128
#2	-.00497	-.01040	-.01739	.01953	.19119	.18942	.10967
#3	.00360	-.00439	.00558	-.00521	.19505	.19367	.11034
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	389896	--	--	--	--	--	--
SDev	1243.332	--	--	--	--	--	--
%RSD	.3188878	--	--	--	--	--	--
	389174	--	--	--	--	--	--
	391332	--	--	--	--	--	--
#3	389183	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/23/96 22:53:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00821	-.00014	.00011	-.00014	-.00053	-.00777	-.00167
SDev	.00007	.00004	.00041	.00024	.00022	.00039	.00005
%RSD	.91415	26.156	362.27	165.68	26.085	4.9834	2.8035
#1	.00813	-.00016	-.00026	.00012	-.00096	-.00785	-.00164
#2	.00827	-.00015	.00005	-.00020	-.00058	-.00734	-.00173
#3	.00825	-.00009	.00056	-.00034	-.00094	-.00810	-.00165
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	-.00003	-.00305	.00072	.00165	Q-.00556	.01628
SDev	.00059	.00048	.00017	.00004	.00273	.00089	.00382
%RSD	665.34	1417.4	5.5691	5.1002	165.46	15.940	23.473
#1	.00070	-.00040	-.00290	.00074	-.00136	-.00472	.01276
#2	-.00048	-.00021	-.00302	.00068	.00236	Q-.00649	.01572
#3	.00005	.00051	-.00324	.00075	.00395	Q-.00546	.02034
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00630	-.00038	.00030	.00209	.00357	459.14	415.52
SDev	.00182	.00384	.00405	.00209	.00290	.93	.24
%RSD	28.855	1006.9	1366.2	99.674	81.081	.20274	.05855
#1	-.00663	.00262	-.00319	.00414	.00654	460.17	415.78
#2	-.00433	-.00470	.00474	.00217	.00344	458.92	415.[illegible]
#3	-.00792	.00094	-.00066	-.00003	.00075	458.35	415.48
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	[illegible]

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.42	498.15	.00567	-.29513	.00126	.00310	[illegible]
SDev	.22	1.00	.00696	.00120	.00128	.00263	[illegible]
%RSD	.12096	.20146	122.62	.40771	101.28	84.663	[illegible]
	183.67	499.31	.01201	-.29494	-.00013	Q.00576	[illegible]
#2	183.24	497.64	.00678	-.29404	.00239	.00303	[illegible]
#3	183.36	497.51	-.00177	-.29642	.00153	.00051	[illegible]
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass

Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NO USED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	372367	--	--	--	--	--	--
SDev	1987.425	--	--	--	--	--	--
%RSD	.5337269	--	--	--	--	--	--
#1	370101	--	--	--	--	--	--
#2	373188	--	--	--	--	--	--
#3	373813	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/23/96 22:58:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50130	.48173	.93493	.47047	.47146	.52147	.47421
SDev	.00418	.00375	.00687	.00441	.00470	.00365	.00364
%RSD	.83398	.77824	.73524	.93632	.99765	.69941	.76735
#1	.50602	.48566	.94185	.47510	.47657	.52517	.47806
#2	.49977	.47819	.92810	.46633	.46731	.52135	.47082
#3	.49809	.48135	.93485	.47000	.47049	.51788	.47374
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93848	1.0271	.40185	.98150	1.0047	.93256	.93371
SDev	.00746	.0066	.00308	.00677	.0119	.00941	.00650
%RSD	.79475	.64031	.76546	.68970	1.1841	1.0092	.66645
#1	.94658	1.0346	.40535	.98925	1.0163	.93063	.96101
#2	.93190	1.0242	0.39957	.97673	.99256	.92430	.94865
#3	.93695	1.0224	.40064	.97852	1.0052	.94282	.95176
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93445	1.0312	1.0274	.96703	.95891	465.54	420.49
SDev	.01076	.0171	.0090	.00383	.01012	3.55	3.67
%RSD	1.1515	1.6602	.87634	.39658	1.0556	.76189	.87[illegible]
#1	.94641	1.0509	1.0378	.96740	.97060	469.61	[illegible]
#2	.92556	1.0195	1.0213	.96302	.95286	463.95	[illegible]

#3	.93139	1.0233	1.0232	.97067	.95328	463.07	420.09
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.18	504.26	.01258	-.31473	.94090	.96163	1.0287
SDev	1.52	3.96	.00942	.00891	.00935	.00700	.0117
%RSD	.81729	.78519	74.905	2.8320	.99385	.72805	1.1380
#1	187.84	508.76	.02233	-.31686	.95131	.96955	1.0422
#2	184.85	501.32	.00353	-.30495	.93319	.95626	1.0208
#3	185.84	502.68	.01187	-.32239	.93821	.95909	1.0232
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	371373	--	--	--	--	--	--
SDev	4482.076	--	--	--	--	--	--
%RSD	1.206892	--	--	--	--	--	--
	366206	--	--	--	--	--	--
#2	373706	--	--	--	--	--	--
#3	374208	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/23/96 23:03:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2286	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9696	1.9662	1.9608	1.9695	1.9656	2.0083	1.9664
SDev	.0031	.0021	.0032	.0023	.0025	.0046	.0012
%RSD	.15663	.10809	.16297	.11682	.12794	.23113	.06155
#1	1.9710	1.9851	1.9591	1.9671	1.9638	2.0101	1.9674
#2	1.9661	1.9687	1.9646	1.9717	1.9664	2.0033	1.9657
#3	1.9718	1.9848	1.9588	1.9696	1.9649	2.0121	1.9666
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn3721
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9709	.24221	01.6938	1.9456	1.9774	1.9667	1.9717
SDev	.0069	.00030	.0005	.0004	.0101	.0070	.0046
%RSD	.34992	.12175	.02798	.01846	.51139	.35742	.23364

#[illegible]	1.9652	[illegible]	Q1.6933	1.9460	1.9661	1.9587	1.9770
[illegible]	1.9766	.24209	Q1.6942	1.9456	1.9684	1.9719	1.9697
#3	1.9725	.24199	Q1.6940	1.9452	1.9808	1.9694	1.9684

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9695	1.9964	1.9936	1.9613	1.9569	39.194	39.376
SDev	.0033	.0022	.0023	.0071	.0035	.060	.076
%RSD	.16617	.10961	.11583	.35959	.17737	.15245	.19264
#1	1.9680	1.9953	1.9919	1.9552	1.9594	39.254	39.402
#2	1.9671	1.9989	1.9962	1.9596	1.9529	39.135	39.434
#3	1.9732	1.9949	1.9927	1.9690	1.9583	39.194	39.290

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.088	39.580	38.659	39.547	1.9702	1.9583	1.9945
SDev	.048	.075	.127	.070	.0019	.0034	.0022
%RSD	.12170	.18880	.32964	.17737	.09837	.17251	.11272
#1	39.094	39.666	38.782	39.543	1.9710	1.9580	1.9930
#2	39.133	39.528	38.668	39.479	1.9680	1.9551	1.9971
#3	39.038	39.548	38.527	39.619	1.9716	1.9619	1.9930

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	392509	--	--	--	--	--	--
SDev	380.5343	--	--	--	--	--	--
%RSD	.0969491	--	--	--	--	--	--
#1	392805	--	--	--	--	--	--
#2	392643	--	--	--	--	--	--
#3	392080	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
[illegible] Time: 09/23/96 23:07:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576

units	pm	ppm	ppm	ppm	ppm	ppm	ppm
a	.00006	.00023	.00028	-.00021	-.00006	.00076	.00061
s	.00025	.00017	.00012	.00025	.00003	.00016	.00016
%RSD	20.30	77.509	43.733	120.38	52.014	20.712	34.760
#1	.00034	.00043	.00043	-.00049	-.00008	.00072	.00049
#2	-.00008	.00015	.00020	-.00016	-.00007	.00065	.00020
#3	-.00008	.00010	.00023	.00001	-.00002	.00096	.00020
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00027	-.00000	-.00040	.00021	.00056	.00288	-.00061
SDev	.00039	.00036	.00011	.00011	.00249	.00248	.00133
%RSD	142.80	26655.	26.205	53.772	447.91	86.126	218.39
#1	-.00023	.00005	-.00040	.00032	.00201	0.00510	-.00185
#2	.00010	-.00039	-.00030	.00021	-.00232	.00020	.00080
#3	-.00067	.00033	-.00051	.00010	.00198	.00335	-.00079
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	.00113	.00023	.00170	-.00049	.00934	.03338
SDev	.00087	.00284	.00263	.00027	.00348	.01073	.01464
%RSD	164.55	250.37	1153.6	15.996	707.56	114.81	43.841
#1	.00153	.00420	-.00189	.00178	-.00393	.02091	.04777
#2	.00001	.00058	-.00061	.00192	-.00056	.00738	.03387
#3	.00004	-.00139	.00318	.00140	.00302	-.00027	.01831
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02157	.04163	-.00117	.01148	.00019	.00026	.00050
SDev	.01166	.01885	.00564	.00836	.00034	.00226	.00039
%RSD	54.036	45.287	332.96	72.761	179.96	876.29	181.42
#1	.03372	.06309	-.00591	.00184	.00044	-.00201	[illegible]
#2	.02053	.03406	-.00066	.01597	.00032	.00028	[illegible]
#3	.01048	.02774	.00460	.01664	-.00020	.00250	.00167
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	5.0000	5.0000	5.0000	.00500	.00500	.00500
IntStd	1	2	3	4	5	6	7

Mode	#Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
[illegible]	Y	--	--	--	--	--	--
[illegible]en	371.030	--	--	--	--	--	--
Avge	397678	--	--	--	--	--	--
Sdev	1858.246	--	--	--	--	--	--
%RSD	.4670392	--	--	--	--	--	--
#1	400021	--	--	--	--	--	--
#2	396713	--	--	--	--	--	--
#3	396900	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-MB1 Operator:
Run Time: 09/23/96 23:16:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	-.00000	.00005	.00002	.00060	.00133	.00072
SDev	.00010	.00004	.00023	.00025	.00030	.00035	.00008
%RSD	16.649	4217.1	472.46	1308.4	49.980	26.554	10.515
#1	.00052	-.00001	-.00012	-.00000	.00039	.00107	.00067
#2	.00061	-.00004	-.00005	-.00022	.00046	.00119	.00069
#3	.00072	.00004	.00032	.00028	.00094	.00174	.00081
[illegible]ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
[illegible]gh	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	-.00003	-.00069	.00379	-.00131	-.00099	.00290
SDev	.00083	.00098	.00040	.00005	.00151	.00235	[illegible]
%RSD	196.80	3091.3	57.465	1.2741	115.42	236.51	[illegible]
#1	.00012	-.00095	-.00064	.00373	-.00205	.00164	.00265
#2	.00136	-.00014	-.00111	.00380	.00043	-.00177	-.00003
#3	-.00021	.00100	-.00032	.00383	-.00231	-.00266	.00625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00064	.00069	-.00064	-.00212	.02370	[illegible]
SDev	.00227	.00230	.00168	.00451	.00144	.01246	[illegible]
%RSD	15295.	359.79	243.94	706.28	67.907	52.578	[illegible]
#1	-.00011	.00327	-.00036	-.00418	-.00065	.01854	.02167
	.00230	-.00091	-.00020	-.00216	-.00353	.03791	.02393
	-.00224	-.00045	.00263	.00443	-.00218	.01465	.02082
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	[illegible]

Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01847	.00971	-.00233	.07478	.00101	-.00161	.00069
SDev	.00559	.00267	.00333	.00880	.00049	.00156	.00103
%RSD	30.254	27.477	142.73	11.837	48.137	96.950	149.74
#1	.01453	.00670	-.00617	.07716	.00085	-.00181	.00087
#2	.01602	.01177	-.00036	.08220	.00156	-.00306	-.00042
#3	.02487	.01067	-.00046	.06498	.00063	.00004	.00162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	386707	--	--	--	--	--	--
SDev	4412.148	--	--	--	--	--	--
%RSD	1.140954	--	--	--	--	--	--
#1	387992	--	--	--	--	--	--
#2	381795	--	--	--	--	--	--
#3	390334	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-MB2CONF FB Operator:
Run Time: 09/23/96 23:20:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	-.00000	.00005	-.00021	.00089	.00214	.00116
SDev	.00003	.00005	.00007	.00018	.00026	.00031	.00001
%RSD	7.0672	1527.5	124.18	89.905	28.720	14.324	.78731
#1	.00039	.00005	.00002	-.00033	.00062	.00222	.00115
#2	.00044	-.00003	.00013	.00001	.00113	.00180	.00116
#3	.00044	-.00003	.00001	-.00030	.00093	.00240	.00116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3713
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00049	.00006	-.00060	.01135	-.00125	-.00184	-.00048
SDev	.00002	.00060	.00008	.00007	.00152	.00184	.00261
%RSD	4.6398	1006.2	13.142	.66217	145.04	100.22	545.53
#1	.00046	-.00052	-.00051	.01144	-.00141	-.00393	-.00261
#2	.00050	.00068	-.00064	.01131	.00064	-.00049	.00241
#3	.00050	.00002	-.00065	.01131	-.00299	-.00108	-.00109

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	[illegible]
H[illegible]	.04000	.01000	.05000	.02000	.01000	.00500	
L[illegible]	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317/9
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	.00036	.00014	-.00088	.00430	.06414	.03469
SDev	.00234	.00351	.00224	.00395	.00151	.00411	.00080
%RSD	184.23	983.12	1626.9	449.30	35.159	4.8871	2.3107
#1	.00328	.00057	.00224	.00367	.00491	.07998	.03376
#2	-.00130	-.00325	.00040	-.00289	.00258	.06820	.03512
#3	.00182	.00375	-.00222	-.00342	.00541	.08425	.03519

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01228	.00540	.00657	.06638	.00072	.00259	.00023
SDev	.00241	.00425	.00454	.00818	.00070	.00187	.00131
%RSD	19.646	78.726	69.039	12.332	96.644	72.191	573.34
#1	.01408	.00075	.00266	.07473	.00132	.00451	.00170
#2	.00954	.00908	.01154	.06603	-.00005	.00077	-.00060
#3	.01322	.00637	.00550	.05837	.00089	.00249	-.00022

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	394602	--	--	--	--	--	--
SDev	2063.415	--	--	--	--	--	--
%RSD	.5229108	--	--	--	--	--	--
#1	396982	--	--	--	--	--	--
#2	393502	--	--	--	--	--	--
#3	393321	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-LC1 Operator:
Run Time: 09/23/96 23:25:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2266	Cr2677	Cu2247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51231	.50085	.49661	.50041	.49783	.49764	.49979
SDev	.00033	.00061	.00073	.00070	.00054	.00050	.00065
%RSD	.06439	.12174	.14685	.13909	.10776	.09956	.13063

#1	.51196	.50134	.49688	.50113	.49611	.49728	.50024
	.51236	.50103	.49717	.49975	.49619	.49824	.50010
#3	.51261	.50017	.49578	.50034	.49722	.49738	.49905

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.60000	.60000	.60000	.60000	.60000	.60000
Low	.40000	.40000	.40000	.40000	.40000	.40000	.40000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49524	.20366	.42244	.51142	.50358	.48693	.49905
SDev	.00091	.00062	.00067	.00029	.00179	.00163	.00481
%RSD	.18358	.30415	.15730	.05730	.35471	.33440	.96481
#1	.49624	.20342	.42274	.51143	.50556	.48515	.50129
#2	.49501	.20436	.42290	.51170	.50208	.48730	.50233
#3	.49446	.20319	.42168	.51112	.50312	.48835	.49352

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.60000	.24000	.60000	.60000	.60000	.60000	
Low	.40000	.16000	.40000	.40000	.40000	.40000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50047	.50570	.49562	.50001	.50199	5.2973	5.7672
SDev	.00442	.00229	.00368	.00332	.00322	.0141	.0022
%RSD	.88381	.45303	.74217	.66447	.64147	.26703	.03878
#1	.50085	.50346	.49168	.49955	.49933	5.2824	5.7669
#2	.49587	.50804	.49897	.50354	.50108	5.2990	5.7696
#3	.50469	.50560	.49622	.49694	.50557	5.3105	5.7652

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						6.0000	6.6000
Low						4.0000	4.4000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.7815	5.6610	5.1873	5.2981	.50002	.50135	.49900
SDev	.0145	.0044	.0016	.0768	.00171	.00172	.00321
%RSD	.25032	.07701	.03091	1.4504	.34263	.34269	.64271
#1	5.7950	5.6659	5.1867	5.3352	.50102	.49942	.49364
#2	5.7833	5.6594	5.1860	5.3494	.49804	.50191	.50200
#3	5.7662	5.6577	5.1891	5.2058	.50100	.50272	.49936

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	6.6000	6.6000	6.0000	6.0000	.60000	.60000	.60000
Low	4.4000	4.4000	4.0000	4.0000	.40000	.40000	.40000

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	393697	--	--	--	--	--	--
SDev	981.6645	--	--	--	--	--	--

Avge	.2493404	--	--	--	--	--	--
	394748	--	--	--	--	--	--
	395538	--	--	--	--	--	--
#3	392804	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-D1 Operator:
Run Time: 09/23/96 23:30:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04770	-.00007	.00075	.00061	.00282	.03935	.19449
SDev	.00013	.00006	.00013	.00050	.00054	.00028	.00017
%RSD	.27144	85.672	16.740	82.441	19.233	.72002	.06174
#1	.04772	-.00000	.00082	.00003	.00237	.03963	.19447
#2	.04782	-.00012	.00060	.00096	.00342	.03935	.19456
#3	.04756	-.00009	.00082	.00083	.00267	.03906	.19462
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00506	.00098	-.00096	.67412	.00309	-.00207	.16098
SDev	.00046	.00014	.00014	.00048	.00126	.00279	.00204
%RSD	8.9913	14.368	15.069	.07151	40.820	134.69	1.2677
#1	.00455	.00101	-.00106	.67365	.00218	-.00036	.16129
#2	.00524	.00083	-.00102	.67410	.00453	-.00006	.16041
#3	.00541	.00111	-.00080	.67461	.00256	L-.00530	.16324
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16220	.03487	.03342	-.00128	.00154	.11018	14.107
SDev	.00143	.00192	.00072	.00136	.00143	.00135	.018
%RSD	.88065	5.5166	2.1524	106.35	92.686	1.2247	.1291
#1	.16055	.03308	.03334	-.00025	.00300	.10883	14.09
#2	.16296	.03463	.03274	-.00077	.00145	.11154	14.10
#3	.16308	.03690	.03417	-.00282	.00016	.11014	14.12
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na3889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07137	3.4310	2.9961	16.706	.16181	.00062	.03

SDev	.00646	.0025	.0167	.083	.00156	.0[illegible]138	.00103
	9.0484	.07364	.56778	.49702	.94501	22[illegible].16	3.0216
#1	.06983	3.4292	3.0154	16.633	.16015	.0[illegible]194	.03327
#2	.06581	3.4299	2.9855	16.688	.16213	.0[illegible]073	.03339
#3	.07845	3.4339	2.9875	16.796	.16315	-.00081	.03510
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389200	--	--	--	--	--	--
SDev	650.4683	--	--	--	--	--	--
%RSD	.1671296	--	--	--	--	--	--
#1	388452	--	--	--	--	--	--
#2	389515	--	--	--	--	--	--
#3	389633	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-S1 Operator:
Run Time: 09/23/96 23:34:39
Comment:
[illegible] : CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9931	.04874	.04907	.48850	.19809	.28947	.68762
SDev	.0096	.00013	.00039	.00077	.00085	.00130	.00142
%RSD	.48199	.26898	.79193	.15869	.43104	.45096	.20679
#1	2.0036	.04872	.04913	.48839	.19778	.29070	.68760
#2	1.9907	.04861	.04865	.48779	.19747	.28961	.68618
#3	1.9849	.04887	.04942	.48933	.19907	.28810	.68904
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3571
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48858	.05035	.42020	1.1635	1.9642	1.9718	.65073
SDev	.00124	.00062	.00060	.0019	.0043	.0068	.00508
%RSD	.25375	1.2276	.14234	.15902	.21792	.34459	.77449
#1	.48785	.05056	.42035	1.1633	1.9689	1.9643	.65747
#2	.48787	.04965	.41954	1.1618	1.9606	1.9737	.65001
#3	.49001	.05083	.42070	1.1655	1.9831	1.9775	.65970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOUMBER
High	45.000	1.5000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/1	2068/1	2068/2	1960/1	[illegible]	Al3082	Ca[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]e	.65099	.52919	.52732	1.9670	1.9552	2.1026	14.0[illegible]
[illegible]V	.00276	.00105	.00085	.0093	.0043	.0136	.0[illegible]
%RSD	.42226	.19880	.16022	.46200	.2218	.64557	.36[illegible]
#1	.64898	.52804	.52658	1.9588	1.9612	2.1176	14.0[illegible]
#2	.65412	.53010	.52714	1.9648	1.9536	2.0994	14.0[illegible]
#3	.64986	.52944	.52824	1.9774	1.9536	2.0910	14.120
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0865	3.4433	3.0316	16.840	.65259	1.9598	.52796
SDev	.0161	.0077	.0408	.043	.00068	.0022	.00080
%RSD	1.4799	.22410	1.3448	.25560	.10419	.11046	.15196
#1	1.0752	3.4508	3.0782	16.837	.65184	1.9604	.52709
#2	1.0794	3.4354	3.0137	16.799	.65278	1.9574	.52814
#3	1.1049	3.4438	3.0028	16.885	.65316	1.9616	.52866
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Std	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389890	--	--	--	--	--	--
SDev	875.3436	--	--	--	--	--	--
%RSD	.2245106	--	--	--	--	--	--
#1	388891	--	--	--	--	--	--
#2	390524	--	--	--	--	--	--
#3	390254	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-5 Operator:
Run Time: 09/23/96 23:39:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2285	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04583	-.00012	.00048	.00039	.00262	.03763	.18621
SDev	.00027	.00001	.00006	.00052	.00058	.00050	.00077
%RSD	.58556	10.356	13.140	132.01	22.256	1.3261	.4056[illegible]
#1	.04554	-.00012	.00041	.00093	.00229	.03710	.18572
[illegible]	.04588	-.00012	.00053	-.00010	.00226	.03772	.18721
[illegible]	.04607	-.00014	.00050	.00035	.00231	.03808	.18671
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
	-.20000	-.00500	-.00400	-.00000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00386	.00063	-.00090	.65009	.00393	-.00029	.15516
SDev	.00072	.00082	.00032	.00253	.00150	.00126	.00209
%RSD	18.578	131.19	36.046	.38930	38.178	429.99	1.3479
#1	.00342	.00117	-.00091	.64725	.00553	-.00036	.15295
#2	.00347	.00104	-.00057	.65210	.00370	.00100	.15710
#3	.00468	-.00032	-.00122	.65093	.00255	-.00152	.15544
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15613	.03287	.03261	.00079	.00433	.08182	13.511
SDev	.00099	.00312	.00074	.00297	.00533	.00178	.049
%RSD	.63575	9.4820	2.2638	377.10	123.09	2.1729	.36363
#1	.15659	.03075	.03312	.00247	.00078	.08333	13.475
#2	.15500	.03141	.03294	-.00264	.01046	.07986	13.567
#3	.15682	.03645	.03176	.00254	.00175	.08228	13.490
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02447	3.2923	2.9003	16.013	.15584	.00317	.03274
SDev	.01245	.0129	.0223	.046	.00060	.00257	.00055
%RSD	50.888	.39324	.76749	.28579	.32371	81.200	1.6883
#1	.02949	3.2774	2.9182	15.961	.15540	.00136	.03230
#2	.03362	3.3010	2.8754	16.033	.15572	.00611	.03240
#3	.01029	3.2984	2.9074	16.046	.15639	.00203	.03334
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390647	--	--	--	--	--	--
SDev	1413.929	--	--	--	--	--	--
%RSD	.3619452	--	--	--	--	--	--
	392263	--	--	--	--	--	--
#2	389626	--	--	--	--	--	--
#3	390043	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2785-SD1 Operator:
Run Time: 09/23/96 23:43:51
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04719	-.00044	-.00069	-.00378	.00427	.04009	.19172
Sdev	.00061	.00038	.00107	.00181	.00117	.00159	.00215
%RSD	1.2993	85.155	155.34	47.814	27.483	3.9585	1.1226
#1	.04693	-.00007	-.00169	-.00401	.00313	.03627	.18926
#2	.04674	-.00083	-.00080	-.00187	.00547	.04119	.19266
#3	.04789	-.00044	.00043	-.00547	.00421	.04081	.19325
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00103	-.00044	-.00417	.66230	.00723	L-.01525	.16751
Sdev	.00374	.00187	.00128	.00793	.00728	.00399	.00231
%RSD	363.62	422.77	30.553	1.1971	100.71	26.172	1.3813
	.00354	-.00177	-.00496	.65321	.01475	L-.01466	.17018
#2	-.00327	.00170	-.00270	.66591	.00020	L-.01158	.16629
#3	.00282	-.00125	-.00486	.66778	.00675	L-.01950	.16606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16103	.02976	.03756	-.00083	.02087	-.04083	13.915
Sdev	.00428	.01266	.00235	.01918	.01890	.02742	.156
%RSD	2.6589	42.547	6.2615	2309.9	80.591	67.139	1.1222
#1	.15645	.04016	.03953	.01313	.02536	-.07228	13.735
#2	.16169	.01566	.03495	.00709	.00217	-.02200	14.011
#3	.16494	.03346	.03819	-.02271	.03507	-.02822	14.000
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00579	3.2974	2.5776	16.172	.16332	.01373	.03305
Sdev	.00489	.0339	.0297	.081	.00213	.00894	.00076
%RSD	84.451	1.0283	1.1511	.50060	1.3052	65.111	15.502
#1	.01144	3.2582	2.5672	16.111	.16117	.02123	[illegible]
#2	.00284	3.3159	2.5545	16.142	.16330	.00330	[illegible]

r	.00210	3.3179	2.5111	16.264	.16544	.01592	.03670
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntSto	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	392314	--	--	--	--	--	--
SDev	3034.964	--	--	--	--	--	--
%RSD	.7736065	--	--	--	--	--	--
#1	395814	--	--	--	--	--	--
#2	390416	--	--	--	--	--	--
#3	390711	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2784-MB1 Operator:
Run Time: 09/23/96 23:48:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn257[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	.00032	-.00011	-.00009	-.00125	.00143	.00207	.00061
av	.00020	.00002	.00005	.00030	.00014	.00018	.00006
%RSD	62.208	17.253	53.246	23.692	9.9432	8.9518	9.0666
#1	.00054	-.00013	-.00004	-.00094	.00157	.00227	.00067
#2	.00021	-.00009	-.00013	-.00153	.00128	.00192	.00058
#3	.00019	-.00010	-.00010	-.00128	.00143	.00201	.00058
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00032	-.00015	-.00075	.00086	-.00110	-.00475	[illegible]
SDev	.00012	.00039	.00016	.00006	.00101	.00144	[illegible]
%RSD	37.669	267.07	21.275	9.7044	92.039	30.210	[illegible]
#1	-.00021	.00006	-.00093	.00096	-.00002	L-.00641	[illegible]
#2	-.00030	-.00060	-.00068	.00082	-.00126	-.00399	[illegible]
#3	-.00045	.00009	-.00063	.00081	-.00201	-.00385	[illegible]
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	[illegible]
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2066/2	1960/1	1960/2	Al3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.00034	-.00042	-.00772	.00803	-.01648	[illegible]
SDev	.00272	.00245	.00085	.00538	.00186	.00579	[illegible]
%RSD	432.88	718.27	[illegible].92	69.682	23.211	35.154	[illegible]

#1	-.00181	-.00128	-.00006	-.01188	.00784	[illegible]	[illegible]
	.00356	.00316	-.00138	-.00964	.01008	[illegible]	[illegible]
	.00014	-.00086	.00020	-.00165	.00643	-.02050	[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	[illegible]
Low						-.20000	[illegible]
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02356	-.00077	.00260	-.00442	.00201	.00280	-.00015
SDev	.00656	.00243	.00510	.00973	.00121	.00148	.00030
%RSD	27.833	314.35	196.58	220.19	60.035	52.883	203.98
#1	.01809	.00172	.00053	-.00843	.00127	.00110	-.00045
#2	.03083	-.00313	-.00115	-.01150	H.00340	.00353	.00015
#3	.02176	-.00091	.00841	.00667	.00136	.00377	-.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390831	--	--	--	--	--	--
SDev	4046.928	--	--	--	--	--	--
%RSD	1.035468	--	--	--	--	--	--
#1	386206	--	--	--	--	--	--
#2	392565	--	--	--	--	--	--
#3	393722	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2784-LC1 Operator:
Run Time: 09/23/96 23:53:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.75559	.58670	.40539	.49925	.31302	.83444	[illegible]
SDev	.00582	.00169	.00104	.00142	.00098	.00626	.0044
%RSD	.77011	.28738	.25660	.28364	.31293	.75017	.34655
#1	.76227	.59053	.40654	.50071	.31398	.84167	[illegible]
#2	.75288	.58841	.40512	.49915	.31306	.83080	[illegible]
#3	.75162	.58718	.40452	.49789	.31202	.83080	[illegible]
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	[illegible]
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.32079	.22640	.37018	.50660	[illegible]	[illegible]	.32406
SDev	.00089	.00093	.00113	.00232	[illegible]	.00089	.00328
%RSD	.27814	.41167	.30575	.45883	[illegible]	.20513	1.0105
#1	.31978	.22743	.37147	.50932	.31941	.43096	.32704
#2	.32147	.22562	.36973	.50561	.32027	.43492	.32103
#3	.32112	.22616	.36934	.50503	.31671	.43670	.32362
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31678	.13002	.12639	.64880	.64251	23.442	16.985
SDev	.00199	.00253	.00150	.00314	.00148	.159	.030
%RSD	.62880	1.9427	1.1852	.48318	.22962	.68014	.17949
#1	.31860	.13101	.12803	.65238	.64447	23.626	17.012
#2	.31707	.13191	.12509	.64744	.64153	23.351	16.991
#3	.31465	.12715	.12607	.64657	.64274	23.350	16.952
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.499	11.071	14.988	.77379	.31923	.64489	.12762
SDev	.123	.052	.206	.01468	.00209	.00195	.00131
%RSD	.33781	.47169	1.3727	1.8968	.65515	.30218	1.0300
#1	36.624	11.130	15.223	.79072	.32161	.64712	.12904
#2	36.494	11.050	14.900	.76578	.31842	.64351	.12738
#3	36.378	11.032	14.840	.76485	.31787	.64404	.12644
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00500	-.00500	-.00500

Intstd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	411432	--	--	--	--	--	--
SDev	2432.616	--	--	--	--	--	--
%RSD	.5961169	--	--	--	--	--	--
#1	408652	--	--	--	--	--	--
#2	412354	--	--	--	--	--	--
#3	413290	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/23/96 23:57:37

Comments:
Name: [illegible] Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9639	1.9744	1.9411	1.9643	1.9645	2.0205	1.9670
SDev	.0075	.0068	.0068	.0055	.0054	.0093	.0059
%RSD	.38008	.34642	.34853	.27763	.27387	.45626	.30226
#1	1.9724	1.9809	1.9481	1.9701	1.9694	2.0302	1.9730
#2	1.9584	1.9751	1.9408	1.9633	1.9655	2.0118	1.9667
#3	1.9609	1.9673	1.9346	1.9594	1.9588	2.0195	1.9612
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9549	.24142	Q1.6957	1.9448	1.9630	1.9589	1.9742
SDev	.0077	.00082	.0054	.0050	.0046	.0103	.0065
%RSD	.39368	.34097	.31709	.25895	.23562	.52390	.33160
#1	1.9617	.24236	Q1.7013	1.9499	1.9683	1.9708	1.9792
#2	1.9565	.24090	Q1.6951	1.9444	1.9609	1.9530	1.9766
#3	1.9465	.24098	Q1.6906	1.9399	1.9598	1.9530	1.9668
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9550	1.9981	1.9976	1.9479	1.9240	39.534	39.[illegible]
SDev	.0108	.0122	.0144	.0074	.0158	.136	.114
%RSD	.55490	.61137	.71985	.37941	.82108	.34843	.28827
#1	1.9669	2.0120	2.0119	1.9549	1.9421	39.678	39.514
#2	1.9523	1.9930	1.9977	1.9487	1.9160	39.403	39.472
#3	1.9458	1.9893	1.9832	1.9401	1.9137	39.522	[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Sb1960	Se2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.054	39.575	39.033	40.089	1.9614	1.9319	1.9976
SDev	.113	.104	.472	.164	.0092	.0127	.0133
%RSD	.28849	.26166	1.2093	.41012	.46725	.65768	.67841
#1	39.165	39.690	39.481	40.241	1.9711	1.9464	2.0120
#2	39.056	39.547	38.540	39.914	1.9604	1.9265	1.9962
#3	38.940	39.489	39.077	40.113	1.9528	1.9225	1.9852
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Intsta	1	2	3	4	5	6	7
s	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391887	--	--	--	--	--	--
SDev	244.5656	--	--	--	--	--	--
%RSD	.0624071	--	--	--	--	--	--
#1	391861	--	--	--	--	--	--
#2	391657	--	--	--	--	--	--
#3	392144	--	--	--	--	--	--

Method: EPA3 Sample Name: CC8 Operator:
Run Time: 09/24/96 00:02:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00011	.00025	-.00028	.00022	.00057	.00030
SDev	.00001	.00007	.00012	.00010	.00026	.00017	.00011
%RSD	10.422	65.980	47.403	37.681	117.25	30.496	36.453
#1	.00012	.00020	.00033	-.00019	.00032	.00040	.00042
#2	.00015	.00008	.00011	-.00039	-.00007	.00057	.00020
#3	.00014	.00006	.00031	-.00026	.00042	.00074	.00027
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	-.00023	-.00068	.00025	-.00013	.00366	.00020
SDev	.00102	.00059	.00026	.00006	.00123	.00111	.00201
%RSD	892.60	261.04	37.469	23.667	925.64	30.102	1018.0
#1	.00050	-.00073	-.00042	.00032	-.00156	.00460	-.00142
#2	-.00104	-.00039	-.00093	.00022	.00033	.00249	.00002
#3	.00088	.00043	-.00069	.00021	.00063	.00387	.00229
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Cd3179
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00137	-.00082	-.00110	-.00083	-.00376	-.03451	.00284
SDev	.00129	.00209	.00027	.00101	.00243	.00242	.00031
%RSD	93.713	548.89	24.493	303.26	64.537	7.0150	11.083
	.00279	.00050	-.00132	-.00119	-.00274	-.03710	.00249
	.00029	.00124	-.00080	.00079	-.00201	-.03412	.00310
#3	.00104	-.00270	-.00119	-.00060	-.00553	-.03431	.00292

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.10000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na3889	Pb2203	Sb1960	Se2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	.00696	-.00117	.02322	.00102	-.00260	-.00082
SDev	.01105	.00498	.00838	.01004	.00066	.00177	.00079
%RSD	7565.9	71.466	716.09	43.244	66.942	68.093	96.319
#1	.00789	.00779	-.00946	.01502	.00133	-.00221	-.00069
#2	-.01274	.00162	-.00134	.03441	.00024	-.00106	-.00010
#3	.00442	.01147	.00729	.02021	.00150	-.00453	-.00167
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	398172	--	--	--	--	--	--
SDev	1027.685	--	--	--	--	--	--
%RSD	.2581011	--	--	--	--	--	--
	399307	--	--	--	--	--	--
	397305	--	--	--	--	--	--
#3	397903	--	--	--	--	--	--

Method: EPA2 Sample Name: MP2784-D1 Operator:
Run Time: 09/24/96 00:06:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00161	-.00007	-.00004	-.00049	.01159	.00531	.00424
SDev	.00006	.00002	.00009	.00015	.00049	.00029	.00008
%RSD	3.6039	35.237	223.16	29.882	4.2346	5.5417	1.3795
#1	.00155	-.00009	.00002	-.00035	.01208	.00560	.00428
#2	.00166	-.00004	-.00001	-.00064	.01159	.00517	.00426
#3	.00163	-.00008	-.00010	-.00047	.01110	.00512	.00417
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.0150
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00027	.01753	.00245	-.00043	-.00357	.01431
SDev	.00113	.00034	.00016	.00023	.00404	.00458	.0010-
%RSD	356.54	126.02	.94166	9.3700	930.29	128.35	7.1872
#1	.00150	.00041	.01772	.00260	.00378	.00172	.0145-

#2	-.00057	.00051	.01744	.00206	-.00081	L-.00617	[illegible]
	-.00007	-.00012	.01743	.00210	-.00427	L-.00620	[illegible]
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.0000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317/9
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01226	.00245	.00114	-.01123	.00593	1.7043	.05219
SDev	.00062	.00166	.00150	.00371	.00259	.0169	.00209
%RSD	5.0334	67.707	131.42	33.027	43.698	.99411	3.9961
#1	.01291	.00430	.00249	-.00707	.00872	1.7239	.05457
#2	.01219	.00197	-.00047	-.01419	.00546	1.6957	.05131
#3	.01169	.00108	.00140	-.01243	.00361	1.6935	.05069
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.6836	.01964	.05258	-.01636	.01305	.00024	.00160
SDev	.0872	.00231	.00839	.01156	.00044	.00283	.00140
%RSD	1.3052	11.743	15.952	70.656	3.3848	1201.9	87.604
	6.7831	.02216	.06181	-.02879	.01351	.00349	.00311
	6.6478	.01913	.05052	-.01438	.01263	-.00106	.00036
#3	6.6200	.01763	.04542	-.00592	.01300	-.00172	.00132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389727	--	--	--	--	--	--
SDev	4716.730	--	--	--	--	--	--
%RSD	1.210285	--	--	--	--	--	--
#1	384343	--	--	--	--	--	--
#2	391707	--	--	--	--	--	--
#3	393131	--	--	--	--	--	--

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see P.5 for Pb

Method: EPA3 Sample Name: MP2784-81 Operator:
Run Time: 09/24/96 00:11:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9073	.04666	.04762	.47767	.20136	.25002	[illegible]
SDev	.0112	.00035	.00063	.00404	.00175	.00130	[illegible]

[illegible]	[illegible]	.74105	[illegible]	.84508	.56619	.04142	[illegible]
	1.9204	.04706	.04834	.48233	.20358	.23183	.49452
#2	1.9015	.04644	.04731	.47528	.20065	.24886	.48800
#3	1.9001	.04647	.04721	.47539	.20040	.24934	.48868
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47352	.04753	.43154	.48996	1.8541	1.8869	.49760
SDev	.00603	.00036	.00296	.00319	.0159	.0044	.00413
%RSD	1.2734	.75873	.68633	.65083	.85675	.23500	.83024
#1	.48041	.04790	.43496	.49362	1.8706	1.8920	.50221
#2	.46921	.04718	.42982	.48778	1.8390	1.8848	.49425
#3	.47094	.04751	.42985	.48848	1.8525	1.8840	.49633
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49023	.45011	.44747	1.7925	1.7563	4.0343	.06659
SDev	.00479	.00303	.00398	.0141	.0157	.0191	.00121
%RSD	.97805	.67404	.88857	.78856	.89474	.47448	1.8143
#1	.49496	.45290	.44913	1.8070	1.7722	4.0562	.06798
#2	.48538	.44688	.44294	1.7786	1.7408	4.0206	.06598
#3	.49036	.45055	.45035	1.7917	1.7558	4.0261	.06560
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Se2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.6777	.01758	.03537	.07892	.49271	1.7683	.44637
SDev	.0565	.00118	.00318	.00691	.00454	.0152	.00355
%RSD	.84548	6.6614	8.9958	8.7554	.92223	.85893	.79221
#1	6.7429	.01892	.03793	.07175	.49742	1.7836	.45040
#2	6.6462	.01671	.03637	.07947	.48835	1.7533	.44427
#3	6.6440	.01713	.03181	.08554	.49237	1.7677	.45046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
tStd	1	2	3	4	5	6	7
mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--

[illegible]	392100	--	--	--	--	--	--
/	2542.731	--	--	--	--	--	--
%RSD	.6484000	--	--	--	--	--	--
#1	389227	--	--	--	--	--	--
#2	393426	--	--	--	--	--	--
#3	393811	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-4 Operator:
Run Time: 09/24/96 00:16:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00205	-.00007	-.00012	-.00031	.00879	.00473	.00524
SDev	.00007	.00001	.00017	.00022	.00057	.00046	.00013
%RSD	3.4253	14.831	136.00	69.912	6.4376	9.6501	2.4368
#1	.00197	-.00008	-.00024	-.00031	.00933	.00513	.00528
#2	.00210	-.00007	.00007	-.00009	.00884	.00483	.00534
#3	.00207	-.00006	-.00021	-.00053	.00820	.00423	.00509
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
/	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00059	.00010	.01759	.00265	.00235	-.00091	.01700
SDev	.00094	.00073	.00025	.00010	.00095	.00119	.00173
%RSD	159.90	699.99	1.4052	3.6264	40.271	130.17	10.276
#1	.00046	.00030	.01748	.00272	.00132	-.00193	.01821
#2	-.00028	.00071	.01788	.00268	.00253	.00036	.01767
#3	.00158	-.00070	.01742	.00254	.00315	-.00110	.01520
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01378	.00203	.00129	-.00868	.00691	1.7732	.06662
SDev	.00078	.00215	.00134	.00149	.00234	.0242	.00153
%RSD	5.6866	105.25	104.06	17.183	33.890	1.3657	2.7[illegible]
#1	.01297	.00055	.00258	-.00786	.00790	1.8006	.06663
#2	.01453	.00103	.00139	-.01040	.00424	1.7543	.06602
#3	.01383	.00450	-.00010	-.00777	.00860	1.7645	.06513
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.4495	.02179	.03186	.01459	.01489	.00174	.00133
SDev	.0605	.00220	.01195	.00889	.00068	.00200	.00033
%RSD	.93732	10.097	23.038	60.905	4.5751	115.08	21.24
#1	6.5161	.02405	.03962	.01878	.01479	.00267	.00192
#2	6.4344	.02164	.06349	.00438	.01562	-.00061	.00129
#3	6.3981	.01966	.05248	.02061	.01426	.00317	.00145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00300	-.00300
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	392107	--	--	--	--	--	--
SDev	3852.765	--	--	--	--	--	--
%RSD	.9825799	--	--	--	--	--	--
#1	387775	--	--	--	--	--	--
#2	393396	--	--	--	--	--	--
#3	395150	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2784-SD1 Operator:
Time: 09/24/96 00:20:40
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00298	-.00041	.00009	-.00252	.01151	.00717	.00633
SDev	.00069	.00016	.00021	.00192	.00086	.00203	.00001
%RSD	23.081	38.214	242.98	76.350	7.5085	28.275	.1121
#1	.00340	-.00051	-.00014	-.00474	.01202	.00567	.00633
#2	.00335	-.00023	.00026	-.00132	.01200	.00948	.00634
#3	.00218	-.00050	.00014	-.00150	.01051	.00637	.00633
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.00
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.015
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	.00081	.01603	.00392	-.00288	L-.01333	.0251
SDev	.00462	.00241	.00054	.00002	.00615	.00765	.0001
%RSD	3192.3	298.88	3.9775	.61287	213.74	56.046	15.1
#1	-.00322	-.00092	.01635	.00394	-.00189	L-.01522	.0249
#2	.00517	-.00023	.01644	.00389	.00272	L-.00514	.0252
#3	-.00239	.00357	.01529	.00392	-.00947	L-.02012	.0192
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NUCMEDR
High	45.000	1.8000	45.000	18.000	9.0000	45.000	

Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
m	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3174
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01329	.00629	-.00061	-.03414	.01481	1.5590	.04727
SDev	.00942	.00297	.00412	.02223	.00572	.0032	.04497
%RSD	70.893	47.206	678.31	65.126	38.640	.20234	95.119
#1	.01206	.00907	-.00033	-.05393	.02010	1.5555	.09920
#2	.00454	.00316	.00337	-.01008	.01559	1.5599	.02108
#3	.02327	.00664	-.00486	-.03839	.00874	1.5616	.02155
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.4316	-.00360	.04442	-.14675	.01685	-.00139	.00178
SDev	.0329	.00865	.02288	.00337	.00510	.00749	.00237
%RSD	.51229	240.19	51.520	2.2977	30.275	537.97	133.21
#1	6.4181	.00630	.01800	-.14287	.01635	-.00445	.00289
#2	6.4076	-.00972	.05742	-.14899	.01202	.00714	.00339
#3	6.4692	-.00738	.05784	-.14838	.02219	L-.00687	-.00094
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
ph	900.00	900.00	135.00	675.00	45.000	45.000	45.000
w	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	393409	--	--	--	--	--	--
SDev	305.0268	--	--	--	--	--	--
%RSD	.0775342	--	--	--	--	--	--
#1	393102	--	--	--	--	--	--
#2	393712	--	--	--	--	--	--
#3	393414	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-1 Operator:
Run Time: 09/24/96 00:25:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2263	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02686	.00014	.00014	.00096	.04408	.06692	.05729
SDev	.00098	.00006	.00018	.00035	.00160	.01020	.00273
%RSD	3.6588	44.461	126.41	35.642	3.5905	2.6506	4.7534
#1	.02798	.00007	-.00006	.00105	.04647	.05447	.10087
#2	.02616	.00019	.00027	.00059	.04336	.05667	.05275
#3	.02643	.00014	.00020	.00126	.04421	.05744	.05544

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.00000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	N 2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	[illegible]	.00301	.08268	.10304	.00917	-.00321	4.4405
SDev	.00119	.00027	.00163	.00257	.00084	.00156	.1015
%RSD	30.019	9.0402	1.9743	2.4975	9.1524	48.755	2.2855
#1	.00450	.00301	.08454	.10601	.00864	-.00202	4.5581
#2	.00245	.00329	.08149	.10162	.00872	-.00498	4.3814
#3	.00243	.00274	.08200	.10148	.01013	-.00262	4.3832
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.3980	.04133	.03992	-.00819	.00817	13.170	1.6115
SDev	.0839	.00055	.00274	.00532	.00181	.384	.0502
%RSD	1.9086	1.3393	6.8677	64.967	22.162	2.9188	3.1148
#1	4.4937	.04175	.04287	-.01164	.01015	13.608	1.6694
#2	4.3367	.04070	.03746	-.00206	.00777	12.890	1.5816
	4.3636	.04154	.03942	-.01086	.00659	13.012	1.5834
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.957	.69606	.40679	.12069	4.4123	.00274	.04041
SDev	1.059	.02210	.01481	.01201	.0895	.00186	[illegible]
%RSD	2.8650	3.1752	3.6401	10.366	2.0294	67.956	[illegible]
#1	38.178	.72156	.42205	.13347	4.5151	.00291	[illegible]
#2	36.294	.68428	.39248	.10847	4.3516	.00452	.03855
#3	36.399	.68234	.40583	.12012	4.3701	.00080	.04014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	[illegible]
Intsto	1	2	3	4	5	6	7
mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
[illegible]	390466	--	--	--	--	--	--
[illegible]	9149.163	--	--	--	--	--	--
[illegible]	2.343142	--	--	--	--	--	--
#.	379904	--	--	--	--	--	--

695960	--	--	--	--	--	--
395533	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-2 Operator:
Run Time: 09/24/96 00:29:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00210	-.00007	-.00005	-.00040	.01221	.00541	.00866
SDev	.00006	.00003	.00008	.00038	.00055	.00024	.00006
%RSD	2.6100	38.679	142.35	95.156	4.5066	4.4399	.6676
#1	.00216	-.00010	-.00000	-.00020	.01270	.00554	.00864
#2	.00209	-.00006	-.00014	-.00084	.01161	.00513	.00862
#3	.00206	-.00005	-.00002	-.00016	.01231	.00556	.00873
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	-.00003	.01926	.00349	.00342	L-.00542	.01167
SDev	.00032	.00014	.00023	.00010	.00048	.00076	.00175
%RSD	51.308	510.65	1.1911	2.7641	14.115	13.941	15.027
#1	.00026	-.00015	.01915	.00357	.00386	L-.00602	.01368
#2	.00085	.00012	.01910	.00352	.00290	-.00457	.01083
#3	.00077	-.00005	.01952	.00339	.00349	L-.00566	.01047
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NUCHECK
High	45.000	1.6000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba2179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00727	.00241	-.00079	-.01327	.00789	2.5830	.0066[illegible]
SDev	.00070	.00278	.00067	.00168	.00109	.0103	.00139
%RSD	9.6737	115.45	84.696	12.699	13.782	.40097	2.0664
#1	.00742	-.00004	-.00091	-.01189	.00720	2.5647	.06750
#2	.00650	.00184	-.00007	-.01276	.00732	2.5491	.0650[illegible]
#3	.00788	.00543	-.00140	-.01515	.00914	2.5403	.06483
Errors	NUCHECK	NUCHECK	NUCHECK	NUCHECK	NUCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.2957	.03586	.09210	.01500	.00677	.00086	.00024
SDev	.0404	.00586	.00679	.00903	.00078	.00021	.00079
%RSD	.43483	16.345	7.3760	60.225	8.8708	24.098	271.69

#1	9.3424	.03919	.08601	.00493	.00900	.00080	-.00060
#2	9.2729	.02909	.09087	.02240	.00793	.00066	.00058
#3	9.2718	.03930	.09943	.01768	.00875	.00107	.00089

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00500	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	393389	--	--	--	--	--	--
SDev	2918.562	--	--	--	--	--	--
%RSD	.7419017	--	--	--	--	--	--
#1	390130	--	--	--	--	--	--
#2	394277	--	--	--	--	--	--
#3	395761	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-3 Operator:
Run Time: 09/24/96 00:34:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00501	-.00008	-.00002	-.00056	.01158	.07025	.01154
SDev	.00007	.00002	.00007	.00072	.00053	.00041	.00011
%RSD	1.3862	27.935	324.46	127.09	4.5621	.58263	.98024
#1	.00509	-.00010	-.00009	-.00010	.01211	.07015	.01166
#2	.00498	-.00009	.00005	-.00020	.01157	.06991	.01153
#3	.00496	-.00006	-.00003	-.00139	.01105	.07070	.01144
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02000	-.01000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl190e	2203/
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.00095	.01633	.01368	.00167	-.00372	4.5940
SDev	.00032	.00059	.00022	.00005	.00140	.00283	.0153
%RSD	85.227	62.292	1.3581	.3255/	83.893	75.905	.4205
#1	.00011	.00146	.01634	.01363	.00308	-.00051	4.6163
#2	.00074	.00110	.01654	.01371	.00028	-.00563	4.5823
#3	.00080	.00030	.01610	.01369	.00164	-.00484	4.3861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOLIMCOR
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317/
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5334	.04606	.04875	-.00964	.00617	1.9640	.25233

SDev	.0006	.00060	.00144	.00440	.00[illegible]54	.0080	.01054
%RSD	.01316	1.2381	2.9550	45.690	57.[illegible]40	.40803	4.5386
#1	4.5330	.04797	.04987	-.00539	.00547	1.9614	.24023
#2	4.5341	.04752	.04712	-.00934	.00304	1.9576	.23640
#3	4.5330	.04870	.04924	-.01418	.01001	1.9730	.22035
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	[illegible]	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.0248	.07432	.08000	.06453	4.5536	.00093	.04854
SDev	.0610	.00552	.01323	.02549	.0062	.00173	.00110
%RSD	.86864	7.4246	16.540	39.503	.13699	185.86	2.2600
#1	7.0890	.08068	.09525	.04180	4.5608	.00188	.04926
#2	7.0181	.07145	.07311	.05970	4.5502	-.00106	.04728
#3	6.9675	.07083	.07163	.09208	4.5498	.00197	.04908
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
[illegible]m	Y	--	--	--	--	--	--
[illegible]len	371.030	--	--	--	--	--	--
Avge	391377	--	--	--	--	--	--
SDev	2634.007	--	--	--	--	--	--
%RSD	.6730106	--	--	--	--	--	--
#1	388361	--	--	--	--	--	--
#2	392542	--	--	--	--	--	--
#3	393227	--	--	--	--	--	--

Method: EPA3[illegible] Sample Name: E14776-6 Operator:
Run Time: [illegible]/24/[illegible] 00:39:0[illegible]
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03319	.00011	.00021	.00036	.03134	.49344	.11616
SDev	.00035	.00001	.00021	.00038	.00039	.00447	.00106
%RSD	1.0589	7.6299	104.31	105.37	1.2554	.90496	.89049
#1	.03357	.00010	-.00004	.00010	.03179	.49839	.11938
#2	.03311	.00011	.00033	.00018	.03116	.49111	.11742
#3	.03288	.00011	.00033	.00079	.03107	.49062	.11769
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2 38	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00263	.00336	.05361	.13 39	.01156	-.00399	3.8990
SDev	.00043	.00088	.00036	.00181	.00183	.00011	.0380
%RSD	16.500	26.182	.67393	.58 45	16.258	2.7877	.97366
#1	.00297	.00343	.05394	.14 32	.01077	-.00402	3.9425
#2	.00214	.00244	.05322	.13096	.01371	-.00401	3.8817
#3	.00278	.00419	.05368	.13889	.01021	-.00383	3.8726
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.8595	.03608	.03439	-.01182	.00699	9.4980	2.1167
SDev	.0533	.00302	.00190	.00399	.00156	.0823	.0214
%RSD	1.3813	8.3771	5.5171	33.718	22.379	.86633	1.0104
#1	3.9161	.03723	.03577	-.01578	.00786	9.5900	2.1333
#2	3.8522	.03835	.03222	-.00781	.00518	9.4726	2.0925
#3	3.8103	.03265	.03517	-.01186	.00792	9.4315	2.1241
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	26.689	.77013	.36515	.12520	3.8727	.00074	.03497
SDev	.245	.00726	.00430	.00685	.0478	.00068	.00113
%RSD	.91777	.94273	1.1784	5.4735	1.2347	91.939	3.2333
#1	26.969	.77827	.37005	.12793	3.9249	.00000	.03627
#2	26.518	.76432	.36197	.13027	3.8621	.00087	.03428
#3	26.579	.76780	.36344	.11740	3.8311	.00135	.03435
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Intstd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	392566	--	--	--	--	--	--
SDev	4085.460	--	--	--	--	--	--
%RSD	1.040707	--	--	--	--	--	--
#1	387849	--	--	--	--	--	--
#2	395000	--	--	--	--	--	--
#3	394848	--	--	--	--	--	--

Method: EPA3 Sample Name: E14766-4PS P2 Operator:
Run Time: 09/24/96 01:07:18
C ent:
M : CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06955	.00014	.00027	.03295	.01414	.03897	.00589
SDev	.00077	.00002	.00016	.00039	.00034	.00076	.00005
%RSD	1.1119	13.637	58.720	1.1902	2.4285	1.9584	.83865
#1	.07044	.00012	.00039	.03312	.01411	.03984	.00594
#2	.06906	.00014	.00033	.03322	.01449	.03842	.00584
#3	.06914	.00015	.00009	.03250	.01381	.03866	.00590
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00414	.00037	.04646	.17456	.00334	-.00483	.04613
SDev	.00071	.00015	.00035	.00127	.00143	.00053	.00025
%RSD	17.081	42.225	.75969	.72691	42.917	11.012	.54396
#1	.00356	.00023	.04681	.17589	.00227	L-.00544	.04639
#2	.00392	.00033	.04610	.17337	.00497	-.00454	.04589
#3	.00492	.00054	.04647	.17442	.00278	-.00450	.04611
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04131	.00082	.00069	-.00772	.00704	1.6308	.03270
SDev	.00056	.00115	.00014	.00486	.00474	.0256	.00162
%RSD	1.3611	140.26	20.812	62.942	67.357	1.5685	4.9[illegible]
#1	.04175	.00120	.00076	-.00275	.01108	1.6603	.03456
#2	.04151	.00173	.00079	-.00796	.00822	1.6160	.03190
#3	.04068	-.00047	.00053	-.01246	.00182	1.6156	.03150
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-3.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.3535	.01948	.04767	-.01678	.04295	.00214	.00073
SDev	.0660	.00172	.00873	.00511	.00041	.00475	.00046
%RSD	1.0392	8.8093	18.318	30.462	.94555	221.52	63.504
#1	6.4276	.01835	.04668	-.01295	.04332	.00649	.00053
	6.3009	.02146	.05686	-.02258	.04300	.00285	.00112
#3	6.3320	.01965	.03948	-.01480	.04252	-.00294	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00300	-.00300
Intsrc	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	388558	--	--	--	--	--	--
SDev	3652.761	--	--	--	--	--	--
%RSD	.9400804	--	--	--	--	--	--
#1	384369	--	--	--	--	--	--
#2	390229	--	--	--	--	--	--
#3	391077	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/24/96 01:11:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9604	1.9536	1.9167	1.9483	1.9503	2.0225	1.9514
SDev	.0031	.0056	.0049	.0036	.0031	.0018	.0038
%RSD	.15929	.28660	.25697	.18282	.16139	.08691	.19599
	1.9639	1.9597	1.9219	1.9522	1.9539	2.0242	1.9557
	1.9578	1.9523	1.9160	1.9473	1.9492	2.0207	1.9499
#3	1.9597	1.9487	1.9121	1.9453	1.9480	2.0226	1.9485
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220671
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9353	.24067	Q1.6849	1.9343	1.9463	1.9360	1.9062
SDev	.0027	.00032	.0031	.0034	.0088	.0047	.0059
%RSD	.14148	.13321	.18221	.17608	.45294	.24488	.30401
#1	1.9384	.24104	Q1.6884	1.9370	1.9565	1.9308	1.9624
#2	1.9331	.24048	Q1.6829	1.9354	1.9422	1.9400	1.9050
#3	1.9345	.24049	Q1.6833	1.9305	1.9408	1.9371	1.9055
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOUNDER
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Hg3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9328	1.9802	1.9839	1.9361	1.8965	39.087	39.133
SDev	.0075	.0032	.0099	.0053	.0041	.030	.031
%RSD	.38995	.16069	.49697	.27572	.21591	.07684	.20729
#1	1.9349	1.9827	1.9948	1.9403	1.8968	39.568	39.201
#2	1.9292	1.9811	1.9756	1.9301	1.8923	39.571	39.134

#3	1.9245	1.9766	1.9814	1.9379	[illegible]	39.622	39.119
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.729	39.406	39.543	40.453	1.9407	1.9097	1.9827
SDev	.086	.035	.236	.031	.0050	.0043	.0071
%RSD	.22207	.08862	.59755	.07543	.25732	.22279	.35932
#1	38.824	39.446	39.815	40.436	1.9441	1.9113	1.9908
#2	38.709	39.383	39.390	40.489	1.9430	1.9049	1.9774
#3	38.656	39.389	39.423	40.435	1.9349	1.9129	1.9798
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389087	--	--	--	--	--	--
SDev	541.7466	--	--	--	--	--	--
%RSD	.1392355	--	--	--	--	--	--
	388470	--	--	--	--	--	--
#2	389486	--	--	--	--	--	--
#3	389304	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/24/96 01:16:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.00031	.00060	-.00018	-.00002	.00072	.00047
SDev	.00015	.00011	.00019	.00038	.00035	.00026	.00017
%RSD	49.881	36.313	30.974	212.38	1541.1	36.110	36.355
#1	.00042	.00041	.00063	-.00060	-.00002	.00098	.00057
#2	.00038	.00033	.00077	.00015	.00032	.00072	.00057
#3	.00013	.00019	.00040	-.00009	-.00037	.00046	.00027
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	.00500	.00500	.05000	.01000	.02500	.01000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00067	-.00021	-.00015	.00029	-.00010	.00265	.00141
SDev	.00109	.00051	.00028	.00027	.00130	.00073	[illegible]
%RSD	162.95	248.61	183.46	92.721	1292.5	27.418	181.7[illegible]

#1	.00136	-.00073	.00007	.00045	.00015	.00281	-.00043
#2	.00122	.00029	-.00006	.00044	-.00151	.00186	.00434
#3	-.00058	-.00018	-.00046	-.00002	.00106	.00528	.00031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00136	.00204	-.00034	.00045	.00141	-.05415	.00322
SDev	.00054	.00272	.00090	.00472	.00141	.00359	.00054
%RSD	39.759	132.84	265.10	1055.8	100.33	6.6360	16.507
#1	.00198	.00513	-.00137	-.00497	.00012	-.05186	.00383
#2	.00111	.00098	.00029	.00368	.00118	-.05229	.00310
#3	.00099	.00002	.00007	.00263	.00292	-.05629	.00281
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00285	-.00075	.00636	.05612	.00140	.00111	.00047
SDev	.00764	.00635	.00945	.01604	.00072	.00234	.00038
%RSD	268.26	842.39	148.69	28.575	51.026	211.77	79.503
#1	.00586	-.00413	-.00187	.07323	.00119	-.00156	.00051
#2	-.00599	.00657	.01668	.05369	.00220	.00203	.00054
#3	-.00841	-.00470	.00426	.04143	.00082	.00284	.00007
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	396825	--	--	--	--	--	--
SDev	1737.881	--	--	--	--	--	--
%RSD	.4379460	--	--	--	--	--	--
#1	394896	--	--	--	--	--	--
#2	397312	--	--	--	--	--	--
#3	398268	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/24/96 01:28:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu324.7	Mn257.6

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	-.00014	.00001	-.00043	.00011	.00063	.00012
SDev	.00013	.00001	.00001	.00019	.00013	.00014	.00009
%RSD	149.67	4.2613	213.91	43.425	105.40	21.867	72.365
#1	.00024	-.00013	-.00001	-.00061	.00014	.00064	.00007
#2	.00001	-.00014	.00000	-.00024	.00024	.00049	.00022
#3	.00001	-.00014	.00002	-.00044	-.00001	.00076	.00007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3260	V 2924	Zn2138	As1890	111908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.00017	-.00070	.00087	.01581	Q.01358	.00522
SDev	.00034	.00016	.00032	.00007	.00065	.00106	.00105
%RSD	89.698	95.964	45.695	7.6713	4.0847	7.8088	20.131
#1	.00077	.00013	-.00097	.00094	.01542	Q.01253	.00402
#2	.00013	.00034	-.00035	.00083	.01546	Q.01355	.00600
#3	.00024	.00003	-.00079	.00083	.01656	.01465	.00563
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	

m	2203/2	2068/1	2068/2	1960/1	1960/2	A13082	Ca3179
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00607	.00993	.00893	.00479	.00856	-.04752	.00538
SDev	.00046	.00104	.00053	.00079	.00286	.00223	.00021
%RSD	7.5908	10.491	5.9354	16.492	33.437	4.7014	3.8309
#1	.00562	.01000	.00934	.00390	.00879	-.04771	.00514
#2	.00654	.00886	.00911	.00505	.01129	-.04965	.00549
#3	.00605	.01094	.00833	.00541	.00559	-.04519	.00551
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00301	-.00686	.03280	.00171	.00582	.00732	.00940
SDev	.01090	.00234	.00317	.00743	.00064	.00185	.00027
%RSD	361.59	34.021	9.6721	434.39	10.994	25.228	2.9373
#1	-.01050	-.00491	.03624	.00840	.00513	.00718	.00958
#2	.00949	-.00624	.03217	-.00628	.00639	.00923	.00904
#3	-.00803	-.00945	.02998	.00302	.00594	Q.00555	.00921
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
ge					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7

Mode	%Counts	NotUsED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
[illegible]m	7	--	--	--	--	--	--
[illegible]len	371.060	--	--	--	--	--	--
Avge	390024	--	--	--	--	--	--
SDev	646.8426	--	--	--	--	--	--
%RSD	.1658470	--	--	--	--	--	--
#1	390769	--	--	--	--	--	--
#2	389693	--	--	--	--	--	--
#3	389609	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/24/96 01:32:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37757	.00902	.00915	.09404	.01908	.04763	.02802
SDev	.00025	.00002	.00019	.00065	.00049	.00028	.00014
%RSD	.06546	.24991	2.0927	.69418	2.5963	.57958	.50680
#1	.37737	.00899	.00930	.09479	.01960	.04784	.02812
#2	.37748	.00902	.00922	.09373	.01902	.04773	.02809
#3	.37784	.00904	.00893	.09360	.01861	.04731	.02786
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220671
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07322	.01852	.08035	.03865	.18112	.18707	.19073
SDev	.00104	.00027	.00040	.00024	.00168	.00197	.00170
%RSD	1.4187	1.4579	.50147	.61329	.92767	1.0540	.91633
#1	.07427	.01841	.08080	.03892	.18284	.18593	.19170
#2	.07320	.01883	.08000	.03850	.18104	.18935	.19174
#3	.07219	.01832	.08026	.03851	.17949	.18694	.18871
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18863	.11128	.11023	.17943	.18204	-.04760	[illegible]
SDev	.00091	.00193	.00077	.00839	.00410	.00063	.00016
%RSD	.48342	1.7316	.69696	4.6756	2.2[illegible]02	1.3277	[illegible]
#1	.18833	.10915	.10967	.18860	.18111	-.04758	.00092
#2	.18966	.11178	.10991	.17211	.18026	-.04705	.00612
#3	.18791	.11290	.11110	.17764	.18775	-.04831	.00576
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							

Manual

n	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00233	-.01125	-.00712	.04981	.18937	.18186	.11009
SDev	.00479	.00574	.00539	.00597	.00109	.00374	.00110
%RSD	205.13	51.040	75.720	11.983	.57713	2.0567	.99850
#1	.00060	-.00666	-.00112	.04440	.18951	.18362	.10951
#2	-.00786	-.00941	-.00868	.04881	.19039	.17757	.11055
#3	.00026	-.01769	-.01157	.05621	.18822	.18440	.11172
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	388302	--	--	--	--	--	--
SDev	550.3038	--	--	--	--	--	--
%RSD	.1417207	--	--	--	--	--	--
#1	388336	--	--	--	--	--	--
#2	387735	--	--	--	--	--	--
#3	388834	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/24/96 01:37:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00810	-.00028	.00074	.00015	-.00045	-.00739	-.00207
SDev	.00008	.00002	.00011	.00044	.00079	.00019	.00005
%RSD	1.0384	6.8073	14.425	286.31	178.16	2.5732	2.3927
#1	.00801	-.00031	.00084	.00055	.00046	-.00747	-.00205
#2	.00816	-.00028	.00076	.00023	-.00079	-.00718	-.00203
#3	.00814	-.00027	.00063	-.00032	-.00101	-.00753	-.00212
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3430
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	.00038	-.00337	.00111	.00033	-.00171	.01397
SDev	.00017	.00074	.00023	.00031	.00055	.00133	.00270
%RSD	55.971	195.80	6.7433	27.493	167.63	77.738	19.332
#1	.00031	.00101	-.00344	.00142	.00084	-.00079	.01704
#2	.00046	.00056	-.00312	.00112	.00040	-.00323	.01130
#3	.00013	-.00043	-.00355	.00081	-.00026	-.00118	.01270

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00491	.00140	-.00308	.00553	-.00063	462.49	413.45
SDev	.00134	.00495	.00487	.00449	.00444	2.15	.89
%RSD	27.288	354.69	158.32	81.188	699.04	.46411	.21565
#1	-.00646	-.00430	.00254	.00737	-.00203	464.68	413.18
#2	-.00423	.00385	-.00617	.00882	.00433	460.39	414.44
#3	-.00406	.00464	-.00560	.00041	-.00421	462.40	412.72
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	181.94	499.42	.00536	-.28604	.00142	.00144	-.00157
SDev	.15	.26	.01485	.01480	.00021	.00426	.00163
%RSD	.08286	.05148	276.98	5.1723	15.143	295.94	104.10
#1	181.94	499.24	.02224	-.27152	.00141	.00112	.00026
#2	182.09	499.71	-.00569	-.30110	.00121	0.00585	-.00281
	181.79	499.29	-.00047	-.28552	.00164	-.00265	-.00217
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00500	.00500	.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	366497	--	--	--	--	--	--
SDev	1777.328	--	--	--	--	--	--
%RSD	.4823183	--	--	--	--	---	--
#1	366477	--	--	--	--	--	--
#2	369193	--	--	--	--	--	--
#3	363821	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/24/96 01:41:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49635	.46983	.90751	.46326	.46[illegible]21	.52259	.46[illegible]
SDev	.00841	.00779	.01531	.00803	.00310	.00833	.00[illegible]
%RSD	1.6951	1.6591	1.6874	1.7330	1.[illegible]10	1.6062	1.[illegible]

#1	.50600	.47882	.92516	.47258	.47471	.53226	.47486
	.49254	.46492	.89774	.45857	.45857	.51946	.46154
	.49052	.46574	.89962	.45869	.45934	.51604	.46194
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91823	1.0145	0.39677	.96962	.98570	.91811	.94160
SDev	.01575	.0154	.00628	.01555	.01111	.01464	.01605
%RSD	1.7149	1.5207	1.5824	1.6034	1.1276	1.5944	1.7046
#1	.93641	1.0323	.40401	.98756	.99841	.93468	.95996
#2	.90948	1.0063	0.39346	.96127	.98093	.91269	.93018
#3	.90881	1.0050	0.39284	.96003	.97777	.90695	.93467
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91833	1.0143	1.0063	.95296	.91698	467.73	413.96
SDev	.01413	.0317	.0141	.01008	.02661	7.95	7.03
%RSD	1.5386	3.1257	1.4034	1.0581	2.9022	1.7001	1.6976
	.93446	1.0509	1.0224	.95926	.94761	476.86	422.06
#2	.90814	.99465	1.0007	.95829	.89950	463.96	409.47
#3	.91238	.99746	.99593	.94133	.90383	462.36	410.36
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sr2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	182.68	500.98	-.00040	-.29891	.92612	[illegible]	[illegible]
SDev	3.18	8.21	.01735	.00483	.01476	.01906	.0199
%RSD	1.7422	1.6397	4367.2	1.6160	1.5942	2.1053	1.9687
#1	186.36	510.47	.01910	-.29790	.94258	.95151	1.0319
#2	180.78	496.38	-.01414	-.29466	.91553	.91910	.99870
#3	180.91	496.10	-.00615	-.30416	.91985	.91634	.99640
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	20.000			20.000	20.000	20.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
em	Y	--	--	--	--	--	--
..avien	371.030	--	--	--	--	--	--
Avge	366564	--	--	--	--	--	--
SDev	6795.649	--	--	--	--	--	--

%RSD	1.8538/8	--	--	--	--		--
	358720	--	--	--	--	--	--
#2	370300	--	--	--	--	-	--
#3	370672	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/24/96 01:46:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9670	1.9520	1.9192	1.9503	1.9502	2.0303	1.9531
SDev	.0161	.0118	.0091	.0109	.0111	.0181	.0103
%RSD	.81781	.60706	.47593	.55883	.57075	.89025	.52660
#1	1.9843	1.9647	1.9281	1.9624	1.9624	2.0488	1.9647
#2	1.9525	1.9501	1.9194	1.9469	1.9475	2.0127	1.9490
#3	1.9642	1.9412	1.9099	1.9414	1.9407	2.0296	1.9454
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9401	.24222	Q1.6859	1.9409	1.9475	1.9459	1.9580
SDev	.0103	.00109	.0094	.0098	.0176	.0092	.0156
%RSD	.53049	.44834	.55962	.50602	.90390	.47433	.79760
#1	1.9515	.24347	Q1.6968	1.9521	1.9677	1.9566	1.9758
#2	1.9374	.24152	Q1.6806	1.9366	1.9355	1.9402	1.9463
#3	1.9315	.24167	Q1.6803	1.9339	1.9334	1.9410	1.9516
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Mn3082	Ba3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9442	1.9862	1.9821	1.9361	1.8932	39.692	38.961
SDev	.0125	.0234	.0077	.0202	.0113	.320	.206
%RSD	.64524	1.1768	.38900	1.0428	.59831	.80667	.5288
#1	1.9586	2.0132	1.9907	1.9590	1.9111	40.008	39.170
#2	1.9359	1.9724	1.9801	1.9211	1.8900	39.368	38.973
#3	1.9381	1.9730	1.9756	1.9280	1.8934	39.702	38.750
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960.	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.660	39.493	39.868	40.705	1.9488	1.9108	1.9860

SDev	.218	.254	.501	.290	.136	.0148	.0125
J	.56326	.64368	1.2565	.73261	.6[illegible]610	.74622	.64430
#1	38.903	39.785	40.356	40.900	1.9644	1.9270	1.9982
#2	38.590	39.322	39.355	40.362	1.9395	1.9004	1.9775
#3	38.485	39.371	39.892	40.854	1.9426	1.9049	1.9748
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
IntSto	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387755	--	--	--	--	--	--
SDev	2847.658	--	--	--	--	--	--
%RSD	.7343962	--	--	--	--	--	--
#1	384479	--	--	--	--	--	--
#2	389148	--	--	--	--	--	--
#3	389638	--	--	--	--	--	--

Method: EPA3 **Sample Name: CCB** **Operator:**
Run Time: 09/24/96 01:51:11
C[illegible]ment:
[illegible]: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	.00075	.00095	.00045	.00096	.00116	.00[illegible]
SDev	.00069	.00058	.00086	.00056	.00084	.00081	.00065
%RSD	85.477	77.718	89.803	123.12	87.162	69.612	[illegible]
#1	.00161	.00141	.00193	.00106	.00193	.00209	.00[illegible]
#2	.00040	.00047	.00056	-.00002	.00047	.00070	.00064
#3	.00042	.00036	.00037	.00031	.00048	.00068	.00050
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00175	.00056	.00007	.00092	.00063	.00058	.00008
SDev	.00093	.00083	.00055	.00072	.00042	.00425	.00084
%RSD	53.049	147.37	829.88	78.110	66.101	730.79	4496.
#1	.00278	.00047	.00070	.00175	.00037	.00500	.00113
#2	.00057	-.00022	-.00038	.00056	.00112	.00022	-.00410
#3	.00150	.00143	-.00017	.00045	.00042	-.00347	.00320
[illegible]rors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NUMBER
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	220372	206671	206672	196071	196072	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00172	.00121	.00054	.00108	.00293	.00590	.06536
SDev	.00363	.00540	.00191	.00248	.00404	.03564	.04092
%RSD	210.57	446.18	350.96	229.50	137.98	603.58	62.603
#1	.00156	.00127	.00097	.00066	.00425	.04581	.11184
#2	.00543	.00659	-.00154	-.00116	.00615	-.00534	.04948
#3	-.00182	-.00422	.00220	.00375	-.00161	-.02275	.03476
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02756	.07353	.02182	.06028	.00121	.00233	.00078
SDev	.02536	.04067	.01116	.02389	.00120	.00188	.00061
%RSD	92.034	55.308	51.155	39.635	98.836	80.613	77.800
#1	.05543	.11957	.03390	.08717	.00144	.00307	.00108
#2	.02142	.05851	.01188	.05217	.00228	.00373	.00118
#3	.00583	.04251	.01969	.04150	-.00008	.00020	.00008
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	394824	--	--	--	--	--	--
SDev	983.9412	--	--	--	--	--	--
%RSD	.2492099	--	--	--	--	--	--
#1	394117	--	--	--	--	--	--
#2	395948	--	--	--	--	--	--
#3	394408	--	--	--	--	--	--

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Sep 30 1996, 03:21 pm

File ID: IC0925S2.ASC
Analyst: BB
Elements Reported: Pb

Date Analyzed: 09/25/96
Run ID: MA2319

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:47	MA2319-ICV1	1		See rerun. Possible analytical problem. (Bad replicates)
14:56	MA2319-ICV2	1		
15:01	MA2319-ICB1	1		
15:07	MA2319-CCV1	1		
15:12	MA2319-CCB1	1		
15:17	MA2319-CRIA1	1		
15:22	MA2319-CRI1	1		
15:30	MA2319-ICSA1	1		
15:35	MA2319-ICSAB1	1		
15:40	MA2319-CCV2	1		
15:45	MA2319-CCB2	1		
16:16	MP2784-MB2	1		PBS-9-25
16:21	MP2784-LC2	1		LCSS-9-25
16:26	E14776-3R	1		
16:31	MA2319-CCV3	1		
16:36	MA2319-CCB3	1		
16:42	MA2319-CRIA2	1		
16:50	MA2319-CRI2	1		
17:06	MA2319-ICSA2	1		See rerun. Autosampler cup empty during part of analysis.
17:12	MA2319-ICSA3	1		
17:17	MA2319-ICSAB2	1		
17:22	MA2319-CCV4	1		
17:27	MA2319-CCB4	1		
17:36	ZZZZZZ	1		
17:41	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00001	-.00030	.00001	-.00005	.00008	.00105	.00005
SDev	.00000	.00000	.00005	.00003	.00001	.00001	.00000
%RSD	24.680	.42662	726.82	57.248	11.664	1.1352	4.7482
#1	.00001	-.00030	-.00002	-.00008	.00008	.00105	.00005
#2	.00000	-.00030	.00006	-.00002	.00008	.00107	.00005
#3	.00000	-.00029	-.00002	-.00006	.00007	.00104	.00005

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	-.00010	.00002	-.00016	.00002	-.00004	-.00077	.00093
SDev	.00004	.00005	.00000	.00001	.00009	.00037	.00012
%RSD	35.479	286.40	2.2881	39.676	228.91	48.664	13.054
#1	-.00014	-.00001	-.00016	.00002	.00007	-.00110	.00104
#2	-.00010	.00008	-.00015	.00001	-.00008	-.00036	.00094
#3	-.00007	-.00001	-.00016	.00001	-.00011	-.00084	.00080

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	-.00005	-.00033	.00032	-.00032	.00084	.00386	.00001
SDev	.00014	.00027	.00019	.00014	.00007	.00003	.00000
%RSD	261.71	80.602	58.807	43.603	8.4011	.88595	.05990
	.00010	-.00012	.00050	-.00016	.00084	.00389	.00001
#2	-.00010	-.00063	.00034	-.00043	.00077	.00382	.00001
#3	-.00016	-.00024	.00012	-.00036	.00091	.00386	.00001

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00019	.00010	.00007	.00017	.00040
SDev	.00003	.00001	.00002	.00003	.00002
%RSD	13.074	12.894	19.642	14.552	5.6552
#1	.00017	.00010	.00006	.00015	.00042
#2	.00022	.00011	.00009	.00018	.00040
#3	.00020	.00009	.00007	.00019	.00038

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--

Avge	418727	--	--	--	--	--	--
SDev	170.3990	--	--	--	--	--	--
%RSD	.0599194	--	--	--	--	--	--
#1	419007	--	--	--	--	--	--
[illegible]	[illegible]	--	--	--	--	--	--

Method: EPA3 Standard: S1DB

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00433	.03948	.08417	.02861	.02004	.01858	.01374
SDev	.00001	.00012	.00034	.00007	.00011	.00005	.00003
%RSD	.19610	.29260	.40175	.23360	.47810	.24434	.24378
#1	.00432	.03959	.08451	.02867	.02013	.01854	.01378
#2	.00434	.03936	.08383	.02854	.01994	.01863	.01371
#3	.00433	.03949	.08416	.02862	.02005	.01857	.01373

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3571
Avge	.02827	.00320	.00375	.00818	.01752	.04068	.05573
SDev	.00008	.00005	.00001	.00002	.00017	.00003	.00063
%RSD	.29217	1.6468	.21099	.18206	.98980	.06721	1.1365
#1	.02837	.00325	.00376	.00820	.01770	.04065	.05591
#2	.02821	.00315	.00375	.00817	.01748	.04069	.05628
#3	.02824	.00318	.00375	.00818	.01736	.04070	.05505

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.04113	.05020	.02971	.01042	.02922	.03682	.00102
SDev	.00031	.00053	.00009	.00013	.00016	.00004	.00000
%RSD	.74328	1.0598	.29096	1.2236	.55196	.09711	.34685
#1	.04103	.05019	.02981	.01056	.02907	.03681	.00102
#2	.04088	.04967	.02965	.01036	.02939	.03687	.00101
#3	.04147	.05074	.02968	.01033	.02921	.03680	.00101

Elem	Fe2714	Mg2790	Na5889
Avge	.03829	.03185	.00131
SDev	.00018	.00010	.00004
%RSD	.46325	.32451	2.8521
#1	.03847	.03196	.00135
#2	.03812	.03176	.00128
#3	.03829	.03182	.00131

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	420318	--	--	--	--	--	--
SDev	596.1982	--	--	--	--	--	--
%RSD	.1418447	--	--	--	--	--	--
#1	420966	--	--	--	--	--	--
#2	419793	--	--	--	--	--	--
#3	420194	--	--	--	--	--	--

Method: EPA3 Standard: S1DL

SDev	.00003	.00020	.00045	.00017	.00012	.00014	.00004
%RSD	.33802	.25219	.26923	.30450	.31417	.38338	.14897
#1	.00853	.07828	.16607	.05626	.03951	.03585	.02705
#2	.00859	.07789	.16527	.05624	.03921	.03611	.02697
	.00857	.07803	.16532	.05642	.03934	.03606	.02701

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.05586	.00635	.00754	.01610	.03482	.08120	.10961
SDev	.00019	.00004	.00001	.00002	.00008	.00025	.00042
%RSD	.33597	.56518	.15755	.14040	.23634	.30575	.38541
#1	.05607	.00636	.00755	.01612	.03489	.08092	.11002
#2	.05573	.00631	.00752	.01608	.03473	.08139	.10917
#3	.05577	.00638	.00754	.01611	.03484	.08129	.10963

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.08187	.10097	.05852	.02097	.05818	.05906	.00165
SDev	.00030	.00013	.00020	.00008	.00023	.00019	.00001
%RSD	.37215	.13002	.34828	.39556	.40395	.31653	.31241
#1	.08220	.10083	.05831	.02102	.05844	.05886	.00165
#2	.08178	.10100	.05853	.02087	.05798	.05923	.00164
#3	.08161	.10109	.05872	.02100	.05813	.05909	.00164

Elem	Fe2714	Mg2790	Na5889
Avge	.06250	.05255	.00211
SDev	.00007	.00001	.00003
%RSD	.10925	.00948	1.2191
	.06258	.05255	.00214
	.06245	.05254	.00209
#3	.06247	.05255	.00211

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418823	--	--	--	--	--	--
SDev	1204.129	--	--	--	--	--	--
%RSD	.2875033	--	--	--	--	--	--
#1	419163	--	--	--	--	--	--
#2	419820	--	--	--	--	--	--
#3	417485	--	--	--	--	--	--

Method: EPA3 Standard: STD0

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Fe2596
Avge	.04188	.39384	.81637	.28128	.19545	.17317	.13455
SDev	.00009	.00089	.00169	.00041	.00028	.00066	.00017
%RSD	.21485	.22737	.20694	.14644	.14377	.38103	.10223

#3	.04195	.39331	.81544	.28120	.19634	.17373	.13456

Elem	[illegible]816	Zn2138	As1890	[illegible]1908	220371	220372	196071
Avge	.27703	.07501	.17213	.40388	.53630	.40360	.10405
SDev	.00037	.00013	.00022	.00069	.00278	.00110	.00009
%RSD	.13282	.17260	.12786	.17049	.51783	.27291	.08663
#1	.27743	.07505	.17197	.40286	.53400	.40456	.10343
#2	.27672	.07486	.17205	.40356	.53551	.40349	.10406
#3	.27694	.07511	.17238	.40423	.53938	.40676	.10463

Elem	1960/2	Na5889
Avge	.28262	.01673
SDev	.00128	.00014
%RSD	.45462	.82332
#1	.28182	.01658
#2	.28194	.01679
#3	.28410	.01683

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421160	--	--	--	--	--	--
SDev	789.5444	--	--	--	--	--	--
%RSD	.1874691	--	--	--	--	--	--
#1	421315	--	--	--	--	--	--
#2	421860	--	--	--	--	--	--
	420304	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Ag3280	2068/1	2068/2
Avge	.03099	.49191	.28656
SDev	.00010	.00243	.00163
%RSD	.31448	.49359	.57046
#1	.03110	.48951	.28565
#2	.03091	.49184	.28558
#3	.03096	.49437	.28845

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418617	--	--	--	--	--	--
SDev	1012.865	--	--	--	--	--	--
%RSD	.2419553	--	--	--	--	--	--
#1	418304	--	--	--	--	--	--
#2	419749	--	--	--	--	--	--
#3	417797	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.04034
SDev	.00198
%RSD	4.9199
#1	.04263
#2	.03924
#3	.03916

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	406995	--	--	--	--	--	--
SDev	19034.95	--	--	--	--	--	--
%RSD	4.676953	--	--	--	--	--	--
#1	385015	--	--	--	--	--	--
#2	417991	--	--	--	--	--	--
#3	417978	--	--	--	--	--	--

Method: EPA3 Standard: STDG

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.48093	.01285	.49035	.44284	.07598	.02135
SDev	.00232	.00005	.00157	.00152	.00067	.00013
%RSD	.48193	.37718	.31945	.34355	.88299	.61515
	.48348	.01290	.49208	.44437	.07674	.02147
#2	.48037	.01280	.48904	.44174	.07573	.02135
#3	.47895	.01285	.48994	.44220	.07547	.02121

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	408989	--	--	--	--	--	--
SDev	755.6218	--	--	--	--	--	--
%RSD	.1847534	--	--	--	--	--	--
#1	408117	--	--	--	--	--	--
#2	409410	--	--	--	--	--	--
#3	409441	--	--	--	--	--	--

See rerun - bad replicates

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/25/96 14:47:29
Comment:
Mode: CONC Corr. Factor: 1

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Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
	---	---	---	---	---	---	---

Avge	2.9003	2.6618	2.5785	2.6491	2.7151	2.9747	2.7252
#1	.99143	.96[illegible]4	.95195	.95819	.95986	0.93497	.98580
#2	1.0439	1.00[illegible]7	.99436	1.0023	1.0060	.98692	1.0120
#3	1.0422	1.00[illegible]8	.99705	1.0047	1.0070	.98249	1.0[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0416	.48057	.95766	.99254	0.93797	0.94482	.98908
SDev	.0303	.01279	.02581	.02676	.02422	.02617	.02240
%RSD	2.9049	2.6623	2.6951	2.6958	2.5823	2.7700	2.2643
#1	1.0067	0.46580	0.92787	.96166	0.91000	0.91475	.96322
#2	Q1.0596	.48801	.97194	1.0071	.95209	.96250	1.0024
#3	Q1.0586	.48790	.97318	1.0088	.95181	.95720	1.0016
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	A13082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97773	.97196	.96799	.97701	.97624	0.93895	.99371
SDev	.02672	.02946	.02013	.02448	.02445	.04220	.02061
%RSD	2.7327	3.0313	2.0792	2.5054	2.5047	4.4945	2.0740
#1	.94688	.93794	.94478	.94882	.94844	0.89025	.97098
#2	.99270	.98876	.98064	.98937	.98591	.96478	.99897
#3	.99361	.98918	.97855	.99285	.99439	.96181	1.0112
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass
Value						1.0000	1.0000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Se2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.0558	0.92633	0.41664	0.89611	.98153	.97651	[illegible]
SDev	.0258	.02369	.00371	.02926	.02528	.02443	.02828
%RSD	2.4452	2.5574	.89175	3.2652	2.5752	2.8020	2.8951
#1	1.0277	0.89959	0.41237	0.86249	.95234	0.94858	0.94252
#2	Q1.0613	0.93475	0.41849	0.91583	.99594	.98707	.98336
#3	Q1.0784	0.94467	0.41907	0.91001	.99630	.99389	.98211
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Instrm	1	2	3	4	5	6	[illegible]
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	—	—	—	—	—	—

SDev	9422.375	--	--	--	--	--	--
%RSD	2.23.745	--	--	--	--	--	--
#1	433004	--	--	--	--	--	--
#2	416272	--	--	--	--	--	--
#3	417207	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/25/96 14:56:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0313	.99922	.98627	.99375	.98969	.97071	.99034
SDev	.0037	.00350	.00360	.00335	.00383	.00279	.00237
%RSD	.35935	.34999	.36448	.33743	.38689	.28735	.23788
#1	1.0342	.99635	.98327	.99076	.98701	.97263	.99034
#2	1.0271	1.0031	.99025	.99738	.99408	.96751	.99795
#3	1.0327	.99820	.98528	.99311	.98799	.97199	.99471
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98054	.48218	.96321	.99509	Q.94508	.95218	.99523
SDev	.00456	.00048	.00132	.00345	.00199	.00239	.00462
%RSD	.46545	.09986	.13733	.34665	.21063	.25142	.48402
#1	.97575	.48250	.96223	.99210	Q.94674	Q.94943	.99544
#2	.98484	.48240	.96471	.99886	Q.94563	.95331	.99993
#3	.98102	.48162	.96267	.99430	Q.94287	.95379	.99031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98298	.98351	.97243	.98322	.98104	Q.94056	.98047
SDev	.00523	.00674	.00270	.00437	.00358	.00266	.00[illegible]
%RSD	.53160	.68562	.27778	.44464	.36446	.28314	.13337
#1	.97705	.97674	.97050	.97849	.98443	Q.94044	.98[illegible]
#2	.98689	.99023	.97126	.98711	.98139	Q.93796	.98697
#3	.98501	.98356	.97551	.98406	.97730	Q.94328	.984[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	[illegible]
Value						1.0000	[illegible]
Range						5.0000	[illegible]

Avge	.97509	0.92792	0.40834	0.87847	.98[illegible]	.9[illegible]179	.97615
SDev	.00963	.00335	.00795	.00831	.00404	.00[illegible]	.00806
%RSD	.98744	.36032	1.9440	.94547	.40[illegible]	.1[illegible]	.3154[illegible]
#1	.97355	0.92631	0.40543	0.88499	.98219	.98247	.9726[illegible]
#2	.98540	0.93170	0.41804	0.86912	.99123	.98331	.97761
#3	.96633	0.92676	0.40335	0.88130	.98680	.97[illegible]	.97821

Errors	QC Pass	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421526	--	--	--	--	--	--
SDev	515.6494	--	--	--	--	--	--
%RSD	.1223291	--	--	--	--	--	--
#1	421638	--	--	--	--	--	--
#2	420964	--	--	--	--	--	--
#3	421977	--	--	--	--	--	--

Method: EPA3 **Sample Name: ICB** **Operator:**
Run Time: 09/25/96 15:01:56
Comment:
Units: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	-.00012	.00003	.00023	-.00002	.00053	-.00081
SDev	.00013	.00003	.00004	.00049	.00045	.00022	.00000
%RSD	233.95	23.945	149.78	216.35	2923.0	42.557	.24136
#1	.00010	-.00009	.00002	.00021	.00025	.00058	-.00081
#2	-.00013	-.00012	-.00001	.00072	.00024	.00072	-.00081
#3	-.00013	-.00014	.00007	-.00026	-.00053	.00028	-.00081
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Se[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.00031	-.00073	.00034	.00081	.00073	-.00214
SDev	.00022	.00046	.00032	.00037	.00253	.00175	.00207
%RSD	234.82	146.26	44.329	108.87	314.72	239.41	96.964

#1	.00034	.00031	-.00111	.00067	-.00183	.00151	-.00[illegible]
#2	-.00010	.00[illegible]7	-.00056	.00042	.00322	-.00128	-.00[illegible]

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00300	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00038	.00010	-.00236	-.00231	-.00194	-.01863	-.00601
SDev	.00091	.00108	.00159	.00644	.00137	.00349	.00661
%RSD	242.04	1130.0	66.851	278.71	70.520	18.723	143.28
#1	-.00056	-.00074	-.00061	-.00116	-.00043	-.01465	-.00089
#2	-.00118	.00132	-.00284	.00347	-.00228	-.02113	-.00119
#3	.00061	-.00029	-.00369	-.00925	-.00311	-.02011	-.01595

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01121	-.00477	-.00194	-.02091	-.00094	-.00205	-.00154
SDev	.00614	.00281	.01119	.00042	.00023	.00268	.00096
%RSD	54.783	59.016	576.92	2.0043	24.724	130.84	62.168
#1	-.00704	-.00250	-.00138	-.02049	-.00067	-.00066	-.00064
#2	-.00833	-.00389	.00896	-.02133	-.00107	-.00035	-.00144
#3	-.01826	-.00792	-.01340	-.02092	-.00108	Q-.00514	-.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	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	419160	--	--	--	--	--	--
SDev	1194.331	--	--	--	--	--	--
%RSD	.2849341	--	--	--	--	--	--
#1	417895	--	--	--	--	--	--
#2	419318	--	--	--	--	--	--
#3	420268	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/25/96 15:07:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9754	1.9910	1.9966	2.0007	1.9874	2.0092	1.9540
SDev	.0032	.0050	.0051	.0051	.0046	.0042	[illegible]

#1	1.9790	1.9857	1.9909	1.9951	1.9824	2.0641	1.9795
#2	1.9728	1.9957	2.0008	2.0052	1.9913	2.0565	1.9888
#3	1.9744	1.9915	1.9981	2.0017	1.9884	2.0070	1.9855
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0133	.24764	2.0061	2.0067	2.0253	2.0238	2.0245
SDev	.0039	.00052	.0034	.0062	.0038	.0058	.0055
%RSD	.19252	.21152	.17092	.30809	.18909	.28821	.27198
#1	2.0093	.24767	2.0032	1.9996	2.0227	2.0297	2.0189
#2	2.0136	.24815	2.0099	2.0112	2.0297	2.0239	2.0299
#3	2.0171	.24710	2.0052	2.0091	2.0236	2.0180	2.0246
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0132	2.0446	2.0339	2.0285	2.0299	40.833	39.744
SDev	.0015	.0075	.0095	.0078	.0025	.045	.158
%RSD	.07392	.36484	.46608	.38300	.12559	.10915	.39746
#1	2.0118	2.0360	2.0284	2.0323	2.0271	40.870	39.582
#2	2.0148	2.0495	2.0449	2.0336	2.0306	40.783	39.897
#3	2.0131	2.0484	2.0285	2.0196	2.0320	40.844	39.755
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.609	40.351	Q33.917	Q42.830	2.0170	2.0294	2.0375
SDev	.094	.058	.109	.103	.0028	.0020	.0080
%RSD	.23853	.14429	.32279	.24046	.13981	.09621	.39198
#1	39.520	40.289	Q34.030	Q42.941	2.0142	2.0288	2.0310
#2	39.708	40.405	Q33.811	Q42.613	2.0199	2.0316	2.0464
#3	39.598	40.358	Q33.909	Q42.737	2.0170	2.0279	2.0351
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--

%RSD	.0828031	--	--	--	--	--	--
#1	416621	--	--	--	--	--	--
#2	415936	--	--	--	--	--	--
#3	416346	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/25/96 15:12:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	-.00007	.00001	-.00022	.00009	.00068	-.00061
SDev	.00013	.00005	.00011	.00040	.00027	.00050	.00007
%RSD	219.43	75.348	1560.6	182.60	303.00	73.018	8.7035
#1	-.00013	-.00011	.00006	-.00022	.00014	.00126	-.00081
#2	-.00013	-.00008	-.00011	-.00062	-.00020	.00046	-.00088
#3	.00009	-.00001	.00008	.00018	.00033	.00034	-.00074
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	-.00027	-.00049	-.00015	.00155	.00075	-.00174
SDev	.00051	.00118	.00021	.00019	.00019	.00026	.00344
%RSD	266.92	434.72	43.048	126.75	12.286	34.289	198.46
#1	-.00060	-.00071	-.00028	.00006	.00157	.00099	-.00455
#2	-.00036	-.00116	-.00070	-.00019	.00174	.00048	-.00276
#3	.00038	.00106	-.00049	-.00031	.00135	.00079	.00210
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Cad17[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.00097	-.00085	.00014	.00054	-.01590	-.00157
SDev	.00315	.00314	.00216	.00150	.00370	.00335	.00016
%RSD	1360.0	324.80	255.71	1093.2	687.98	21.098	9.9222
#1	.00196	.00399	.00164	-.00144	.00465	-.01233	-.00141
#2	.00119	.00118	-.00189	.00156	-.00051	-.01639	-.00173
#3	-.00384	-.00227	-.00229	.00029	-.00252	-.01898	-.00157
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000

Range .20000 .00[illegible]

SDev	.00949	.00273	.00396	.00396	.00098	.00211	.00241
%RSD	305.88	6[illegible].616	129.48	14.609	137.76	501.95	1068.7
#1	.00703	.00040	-.00336	-.02270	-.00019	[illegible]	.00244
	-.01178	.00089	-.00687	-.02819	-.00010	.00020	-.00085
	-.00455	.00580	.00104	-.03039	-.00184	-.00137	-.00226
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421161	--	--	--	--	--	--
SDev	753.0000	--	--	--	--	--	--
%RSD	.1787915	--	--	--	--	--	--
#1	420408	--	--	--	--	--	--
#2	421914	--	--	--	--	--	--
#3	421161	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/25/96 15:17:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
its	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	.00020	-.00029	.00030	.00001	.00038	.00323	.00000
SDev	.00011	.00037	.00014	.00034	.00030	.00303	.00020
%RSD	53.498	128.12	45.869	2398.4	79.788	93.697	104210.
#1	.00031	-.00007	.00020	-.00038	.00008	.00133	-.00012
#2	.00009	-.00008	.00025	.00022	.00038	.00165	-.00011
#3	.00021	-.00072	.00046	.00021	.00069	.00673	.00023
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00404	-.00019	-.00119	.00423	.02045	.02291	.00137
SDev	.00076	.00064	.00130	.00060	.00086	.00335	.00393
%RSD	18.769	330.26	108.95	14.275	4.2114	14.643	285.71
#1	.00346	-.00086	-.00039	.00387	.01969	.02077	.00280
#2	.00377	-.00015	-.00049	.00390	.02139	.02118	.00433
#3	.00490	.00042	-.00270	.00493	.02028	0.02677	-.00307

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	A13082	Ca3179
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01004	.01256	.00546	.00917	.01171	.06533	.07494
SDev	.00355	.00468	.00159	.00571	.00729	.07265	.00705
%RSD	35.366	37.276	34.090	62.306	62.243	111.20	10.079
#1	.00861	.01109	.00558	.01237	.01195	.02168	.07010
#2	.00743	.00879	.00699	.01256	.00430	.02512	.07107
#3	.01408	.01780	.00382	.00257	.01887	.14920	.08364
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07111	.03681	.01820	.00044	.00718	.01088	.00784
SDev	.02374	.00845	.01733	.00969	.00106	.00337	.00057
%RSD	33.380	22.946	95.185	2192.7	14.838	30.980	7.2754
#1	.05390	.03518	.00324	-.00425	.00670	.01211	.00743
#2	.06125	.02930	.01418	-.00601	.00644	.00707	.00760
#3	.09819	.04596	.03718	.01159	Q.00840	Q.01346	.00849
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
[illegible]em	Y	--	--	--	--	--	--
[illegible]len	371.030	--	--	--	--	--	--
Avge	399956	--	--	--	--	--	--
SDev	38988.18	--	--	--	--	--	--
%RSD	9.748111	--	--	--	--	--	--
#1	423736	--	--	--	--	--	--
#2	421172	--	--	--	--	--	--
#3	354961	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/25/96 15:22:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37834	.00900	.00916	.09527	.01846	.04628	.02733
SDev	.00011	.00009	.00009	.00042	.00032	.00025	.00019
%RSD	.03011	.94216	1.0130	.43697	1.7354	.53365	.71478
#1	.37825	.00897	.00909	.09479	.01872	.04606	.02718
#2	.37830	.00894	.00913	.09558	.01809	.04620	.02735
#3	.37847	.00910	.00924	.09543	.01834	.04657	.02753

Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07408	.01970	.09261	.03873	.18789	.18589	.18588
SDev	.00092	.00028	.00018	.00013	.00108	.00202	.00359
%RSD	1.2475	1.4062	.19814	.32854	.57271	1.0887	1.9284
#1	.07394	.02001	.09241	.03865	.18785	.18497	.18386
#2	.07507	.01948	.09267	.03887	.18684	.18446	.18376
#3	.07324	.01960	.09276	.03868	.18899	.18821	.19002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18637	.10811	.10851	.18465	.18098	-.01872	-.00165
SDev	.00290	.00250	.00134	.00452	.00292	.00267	.00009
%RSD	1.5565	2.3165	1.2371	2.4481	1.6123	14.286	5.6362
#1	.18378	.10707	.10994	.17988	.18390	-.01765	-.00160
#2	.18950	.11097	.10832	.18518	.18099	-.02176	-.00159
#3	.18584	.10630	.10728	.18887	.17806	-.01674	-.00175
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00119	-.00735	-.00454	.03055	.18623	.18222	.10839
SDev	.00271	.00112	.01072	.00014	.00209	.00048	.00124
%RSD	228.08	15.262	236.02	.45119	1.1216	.26160	1.1445
#1	-.00180	-.00616	.00224	.03062	.18383	.18258	.10900
#2	.00349	-.00749	.00104	.03064	.18761	.18240	.10922
#3	.00188	-.00840	-.01690	.03039	.18725	.18166	.10697
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421523	--	--	--	--	--	--
SDev	449.2175	--	--	--	--	--	--
%RSD	.1065700	--	--	--	--	--	--
#1	421293	--	--	--	--	--	--

Method: XPA8 Sample Name: ICSA Operator:
Run Time: 09/25/96 10:30:43
Comment:
M : CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00710	-.00070	-.00107	-.00041	-.00110	-.00852	-.00316
SDev	.00015	.00004	.00040	.00050	.00069	.00050	.00012
%RSD	2.1561	5.4278	37.655	123.35	62.763	5.8807	3.7336
#1	.00721	-.00074	-.00081	-.00008	-.00132	-.00795	-.00303
#2	.00692	-.00067	-.00087	-.00015	-.00133	-.00890	-.00318
#3	.00716	-.00069	-.00154	-.00099	-.00165	-.00870	-.00326
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00036	.00079	-.00384	-.00417	.00364	-.00349	-.01099
SDev	.00020	.00017	.00034	.00007	.00275	.00501	.00363
%RSD	55.194	22.279	8.7903	1.5974	75.605	143.58	33.034
#1	-.00023	.00098	-.00358	-.00420	.00283	.00222	-.00863
#2	-.00026	.00073	-.00373	-.00409	.00138	Q-.00555	-.00916
#3	-.00059	.00065	-.00423	-.00421	Q.00670	Q-.00715	-.01517
ors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00528	.00120	-.00388	-.00476	.00804	507.35	413.76
SDev	.00120	.00153	.00200	.00838	.00331	.74	1.68
%RSD	22.766	126.80	51.569	176.13	41.2[illegible]	.14614	.40596
#1	.00428	.00030	-.00555	-.01009	.00463	508.20	415.[illegible]
#2	.00495	.00296	-.00166	.00490	.00828	506.86	413.42
#3	.00661	.00035	-.00441	-.00909	.01125	506.98	412.28
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.32	508.62	.00513	-.45774	-.00011	.00380	-.00217

SDev	.71	1.94	.00491	.00048	.00046	.00375	.00188
%RSD	.38708	.38150	95.779	.10522	401.67	98.830	864.321

#3	182.74	507.20	.00042	-.40813	-.00062	.00449	-.00281
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
...Sta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387146	--	--	--	--	--	--
SDev	1475.547	--	--	--	--	--	--
%RSD	.3811343	--	--	--	--	--	--
#1	385462	--	--	--	--	--	--
#2	387766	--	--	--	--	--	--
#3	388211	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/25/96 15:35:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50422	.49084	.96444	.48703	.48197	.55705	.48209
SDev	.00103	.00101	.00257	.00116	.00120	.00173	.00102
%RSD	.20490	.20474	.26688	.23788	.24967	.31020	.21159
#1	.50526	.49084	.96268	.48781	.48264	.55845	.48195
#2	.50421	.48984	.96326	.48570	.48058	.55758	.48115
#3	.50319	.49185	.96740	.48759	.48268	.55512	.48317
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97979	1.1396	.47027	1.0248	1.0539	.97249	.98107
SDev	.00219	.0008	.00068	.0025	.0034	.00638	.00291
%RSD	.22342	.06966	.14483	.24798	.31980	.65637	.29672
#1	.97829	1.1405	.47050	1.0230	1.0505	.97357	.98431
#2	.97879	1.1391	.46950	1.0238	1.0541	.97827	.97869
#3	.98230	1.1391	.47080	1.0277	1.0572	.96564	.98026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al13082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97909	1.0776	1.0767	1.0283	1.0004	517.[illegible]	419.[illegible]

#1	.97621	1.0736	1.0782	1.0216	.99754	517.54	418.59
#2	.97818	1.0797	1.0740	1.0379	1.0021	517.59	418.56
#3	.98289	1.0796	1.0778	1.0254	1.0013	516.87	420.70
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	187.88	522.41	.00672	-.43964	.97978	1.0097	1.0770
SDev	.34	.92	.00438	.00143	.00196	.0043	.0013
%RSD	.18013	.17570	65.123	.32619	.20049	.42240	.11777
#1	187.84	522.19	.00777	-.44129	.97893	1.0056	1.0767
#2	187.57	521.63	.01048	-.43879	.97837	1.0141	1.0759
#3	188.24	523.42	.00191	-.43883	.98202	1.0095	1.0784
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385365	--	--	--	--	--	--
SDev	1067.328	--	--	--	--	--	--
%RSD	.2769653	--	--	--	--	--	--
	384139	--	--	--	--	--	--
#2	385869	--	--	--	--	--	--
#3	386087	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/25/96 15:40:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9771	1.9945	1.9903	2.0021	1.9922	2.0670	1.9870
SDev	.0060	.0054	.0056	.0049	.0062	.0068	.0043
%RSD	.30272	.26859	.28225	.24454	.31303	.32728	.21738
#1	1.9728	1.9922	1.9863	1.9982	1.9879	2.0622	1.9833
#2	1.9746	2.0006	1.9967	2.0076	1.9993	2.0641	1.9918
#3	1.9839	1.9906	1.9879	2.0005	1.9893	2.0748	1.9860
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Avge	2.0125	.24581	2.0101	2.0047	2.0312	2.0372	2.0335
SDev	.0056	.00085	.0030	.0054	.0030	.0042	.0064
%RSD	.27863	.34522	.14906	.26947	.14534	.20459	.31516
#1	2.0075	.24560	2.0070	2.0010	2.0281	2.0356	2.0266
	2.0187	.24674	2.0130	2.0109	2.0340	2.0419	2.0396
#3	2.0142	.24508	2.0104	2.0023	2.0316	2.0341	2.0340
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	A13082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0103	2.0441	2.0325	2.0393	2.0241	40.917	39.551
SDev	.0152	.0159	.0083	.0146	.0057	.170	.154
%RSD	.75492	.77710	.41074	.71667	.28256	.41515	.38939
#1	1.9998	2.0291	2.0232	2.0260	2.0176	40.767	39.463
#2	2.0033	2.0425	2.0393	2.0369	2.0263	40.882	39.729
#3	2.0277	2.0607	2.0350	2.0550	2.0283	41.101	39.461
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.630	40.447	Q33.955	Q43.046	2.0180	2.0292	2.0364
SDev	.100	.070	.297	.208	.0107	.0084	.0098
%RSD	.25358	.17199	.87606	.48278	.53192	.41534	.48366
#1	39.564	40.377	Q33.739	Q42.877	2.0088	2.0204	2.0252
#2	39.746	40.516	Q33.832	Q42.983	2.0154	2.0299	2.0404
#3	39.581	40.450	Q34.295	Q43.278	2.0298	2.0372	2.0436
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	415198	--	--	--	--	--	--
SDev	931.2674	--	--	--	--	--	--
%RSD	.2242948	--	--	--	--	--	--
#1	416171	--	--	--	--	--	--
#2	414315	--	--	--	--	--	--
#3	415108	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:

Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2286	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	-.00021	-.00004	-.00039	-.00059	.00134	-.00080
SDev	.00001	.00005	.00017	.00049	.00030	.00034	.00002
%RSD	7.7563	24.639	410.46	126.07	49.788	25.490	1.6815
#1	-.00013	-.00018	-.00006	-.00067	-.00092	.00161	-.00081
#2	-.00013	-.00019	.00014	.00018	-.00033	.00096	-.00081
#3	-.00011	-.00028	-.00019	-.00068	-.00054	.00146	-.00078
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	-.00031	-.00140	-.00018	.00079	.00039	-.00137
SDev	.00018	.00055	.00008	.00023	.00031	.00226	.00299
%RSD	37.974	181.40	5.6474	128.49	38.806	572.45	218.13
#1	.00027	-.00094	-.00134	.00005	.00059	.00300	-.00477
#2	.00055	.00005	-.00138	-.00019	.00064	-.00080	-.00018
#3	.00062	-.00002	-.00149	-.00041	.00115	-.00102	.00084
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00027	.00191	-.00029	-.00127	.00159	.00459	.01995
SDev	.00169	.00446	.00090	.00182	.00253	.01073	.00748
%RSD	623.73	233.82	311.57	143.10	159.49	233.77	37.491
#1	.00073	.00536	-.00044	-.00087	-.00070	-.00024	.02832
#2	.00068	.00348	-.00110	-.00326	.00431	-.00287	.01393
#3	-.00222	-.00312	.00067	.00032	.00113	.01689	.01759
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02660	.04409	.00798	-.02866	-.00061	.00065	.00046
SDev	.00643	.00256	.00157	.00147	.00089	.00129	.00104
%RSD	24.158	5.8113	19.704	5.1405	145.24	197.74	226.41
#1	.03351	.04391	.00776	-.02700	-.00108	-.00074	.00151
#2	.02548	.04674	.00654	-.02917	.00041	.00181	.00044
#3	.02081	.04165	.00966	-.02980	-.00118	.00089	-.00052
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Range	[illegible]	[illegible]	[illegible]				
IntSto	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wlen	371.030	--	--	--	--	--	--
Ge	412715	--	--	--	--	--	--
SDev	8598.246	--	--	--	--	--	--
%RSD	2.083337	--	--	--	--	--	--
#1	418165	--	--	--	--	--	--
#2	417177	--	--	--	--	--	--
#3	402803	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2784-MB2 Operator:
Run Time: 09/25/96 16:16:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00036	-.00062	-.00041	-.00124	.00416	.00207	.00008
SDev	.00000	.00004	.00005	.00043	.00043	.00011	.00008
%RSD	.32735	5.7037	10.858	34.534	10.263	5.4758	103.98
#1	-.00035	-.00062	-.00047	-.00083	.00417	.00211	.00004
#2	-.00035	-.00065	-.00040	-.00120	.00458	.00216	.00017
#3	-.00036	-.00058	-.00038	-.00169	.00373	.00195	.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.00031	-.00158	.00041	.00000	-.00010	.00102
SDev	.00031	.00003	.00007	.00021	.00240	.00169	.00229
%RSD	37.570	11.244	4.1721	51.934	130500.	1753.5	224.24
#1	.00065	.00027	-.00158	.00054	-.00265	-.00195	.00166
#2	.00120	.00031	-.00151	.00053	.00201	.00031	-.00152
#3	.00066	.00034	-.00164	.00017	.00065	.00135	.00292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00164	-.00373	-.00295	-.00146	.00475	-.02889	.02776
SDev	.00297	.00362	.00150	.00397	.00224	.00156	.00061
%RSD	181.08	97.169	50.803	271.90	47.128	5.4134	2.1850

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#1	-.00262	-.00230	-.00250	.00309	.00726	-.02772	.02832
#2	[illegible]	[illegible]	-.00462	-.00423	.00401	-.02878	.02734

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	[illegible] 7664	Na8689	Pb2203	[illegible]	[illegible]
[illegible]	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]ge	.02530	.00053	-.00234	-.01857	-.00073	.00269	-.00619
SDev	.00805	.00235	.00831	.00018	.00122	.00277	.00065
%RSD	31.796	439.98	355.48	.99046	166.53	102.79	21.666
#1	.02232	-.00116	.00255	-.01877	-.00117	H.00589	-.00242
#2	.03442	.00322	.00238	-.01851	.00065	.00128	-.00341
#3	.01917	-.00045	-.01194	-.01842	-.00167	.00092	-.00373
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	420185	--	--	--	--	--	--
SDev	2189.883	--	--	--	--	--	--
%RSD	.5211712	--	--	--	--	--	--
#1	418163	--	--	--	--	--	--
#2	419881	--	--	--	--	--	--
#3	422511	--	--	--	--	--	--

[illegible]od: EPA3 Sample Name: MP2784-LC2 Operator:
Run Time: 09/25/96 16:21:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.77902	.59443	.41284	.51148	.32268	.85657	1.3410
SDev	.00190	.00312	.00229	.00262	.00164	.00385	.0045
%RSD	.24396	.52401	.55464	.51195	.50944	.44908	.33620
#1	.77682	.59797	.41531	.51431	.32439	.85220	1.3462
#2	.78017	.59210	.41080	.50914	.32111	.85943	1.3379
#3	.78006	.59321	.41240	.51099	.32253	.85808	1.3389
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

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Avge	.33491	.30956	.44142	.52134	.33053	.45141	.3337[illegible]
SDev	.00176	.00128	.00110	.00223	.00106	.00402	.00722
[illegible]	[illegible]3143	.41946	.24937	.42730	.33086	.89048	2.1753

#2	.33301	.30929	.44065	.51972	.32996	.44737	.32996
#3	.33516	.30815	.44093	.52042	.32989	.45147	.32915

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
gh	45.000	1.8000	45.000	18.000	9.0000	45.000	
w	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32235	.13770	.13305	.68252	.66509	26.330	17.277
SDev	.00219	.00213	.00091	.00166	.00509	.085	.105
%RSD	.67899	1.5481	.68453	.24247	.76577	.32140	.61047
#1	.32014	.13532	.13398	.68133	.66351	26.240	17.398
#2	.32452	.13943	.13216	.68441	.66097	26.408	17.217
#3	.32238	.13834	.13301	.68183	.67079	26.341	17.214

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.303	11.596	9.8422	1.0514	.32616	.67091	.13461
SDev	.162	.025	.0538	.0093	.00142	.00311	.00018
%RSD	.39180	.21759	.54689	.88454	.43590	.46312	.13258
#1	41.487	11.625	9.7802	1.0417	.32748	.66946	.13444
#2	41.184	11.587	9.8761	1.0602	.32635	.66880	.13460
#3	41.238	11.577	9.8704	1.0522	.32466	.67448	.13480

rors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	440002	--	--	--	--	--	--
SDev	2035.210	--	--	--	--	--	--
%RSD	.4625453	--	--	--	--	--	--
#1	437747	--	--	--	--	--	--
#2	440558	--	--	--	--	--	--
#3	441702	--	--	--	--	--	--

Method: EPA3 Sample Name: E14776-3 Operator:
Run Time: 09/25/96 16:26:40

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2286	Co2286	Cr2677	Cu3247	[illegible]

SDev	.00002	.00001	.00020	.00042	.00040	.00026	.00005
%RSD	.34465	3.0117	48.979	74.077	3.2673	.42394	.46291
#1	.00478	-.00045	-.00046	-.00076	.01230	.05542	.01169
#2	.00475	-.00047	-.00059	-.00085	.01198	.05575	.01161
	.00476	-.00046	-.00019	-.00008	.01278	.05529	.01171
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00023	.01928	.01535	.00414	-.00177	.43541
SDev	.00027	.00014	.00037	.00009	.00139	.00181	.00187
%RSD	48.739	58.700	1.9168	.61163	33.634	102.25	.43052
#1	.00024	.00008	.01921	.01544	.00395	-.00133	.43664
#2	.00072	.00034	.01895	.01534	.00562	-.00376	.43634
#3	.00068	.00027	.01968	.01526	.00285	-.00021	.43325
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42617	.00377	.00106	-.00391	.00333	2.2681	.74323
SDev	.00327	.00207	.00121	.00470	.00312	.0014	.00848
%RSD	.76720	54.972	114.21	120.15	93.476	.06129	1.1409
	.42411	.00440	.00095	.00135	.00465	2.2679	.74109
#2	.42445	.00145	.00233	-.00768	-.00023	2.2696	.73603
#3	.42994	.00545	-.00009	-.00540	.00557	2.2668	.75258
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.223	.11343	.05766	.07540	.42927	.00094	.00198
SDev	.036	.00579	.01292	.00051	.00156	.00325	.00018
%RSD	.32124	5.1008	22.405	.67278	.36270	345.76	9.2940
#1	11.242	.11223	.05945	.07539	.42831	.00357	.00212
#2	11.182	.10835	.04395	.07490	.42843	-.00269	.00205
#3	11.247	.11973	.06960	.07592	.43106	.00194	.00177
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Internal Std	1	2	3	4	5	6	7
Name	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Avge	421677	--	--	--	--	--	--
SDev	1295.153	--	--	--	--	--	--
%RSD	.3071435	--	--	--	--	--	--
#1	420308	--	--	--	--	--	--
	422883	--	--	--	--	--	--
[illegible]	421839	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/25/96 16:31:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9658	1.9949	1.9820	2.0009	1.9906	2.0630	1.9851
SDev	.0098	.0225	.0224	.0218	.0203	.0099	.0206
%RSD	.49732	1.1270	1.1298	1.0892	1.0220	.47942	1.0402
#1	1.9579	1.9700	1.9574	1.9769	1.9682	2.0551	1.9624
#2	1.9768	2.0138	2.0011	2.0194	2.0077	2.0741	2.0029
#3	1.9628	2.0008	1.9876	2.0063	1.9965	2.0599	1.9899
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]ge	2.0065	.24188	2.0091	1.9926	2.0254	2.0291	2.0273
[illegible]v	.0211	.00149	.0175	.0191	.0207	.0247	.0173
%RSD	1.0538	.61527	.86951	.96080	1.0222	1.2160	.85230
#1	1.9839	.24034	1.9904	1.9715	2.0024	2.0011	2.0074
#2	2.0259	.24330	2.0250	2.0089	2.0426	2.0474	2.0382
#3	2.0097	.24201	2.0119	1.9973	2.0313	2.0388	2.0364
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0050	2.0459	2.0259	2.0398	2.0147	40.809	39.670
SDev	.0211	.0216	.0174	.0252	.0155	.220	.471
%RSD	1.0532	1.0537	.85923	1.2357	.77094	.53835	1.1873
#1	1.9821	2.0230	2.0059	2.0107	1.9970	40.650	39.148
#2	2.0237	2.0658	2.0376	2.0541	2.0261	41.060	40.064
#3	2.0091	2.0489	2.0341	2.0545	2.0210	40.717	39.796

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.0000
Range						5.0000	5.0000

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.641	40.291	Q33.562	Q42.[illegible]	2.0125	2.0231	2.0325
SDev	.425	.364	.346	[illegible]	.0197	.0187	.0166
%RSD	1.0713	.90337	1.0303	1.0[illegible]	.97[illegible]	.92343	[illegible]
	39.178	39.889	Q33.832	Q42.[illegible]	1.9906	2.0016	2.0116
	40.013	40.597	Q33.680	Q42.[illegible]07	2.0286	2.0355	2.0470
#3	39.731	40.388	Q33.172	Q42.[illegible]	2.0183	2.0322	2.0390
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418793	--	--	--	--	--	--
SDev	1995.949	--	--	--	--	--	--
%RSD	.4765956	--	--	--	--	--	--
#1	420911	--	--	--	--	--	--
#2	416947	--	--	--	--	--	--
#3	418521	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/25/96 16:36:51
Comment:
Mode: CONC Corr. Factor: 1

[illegible]m	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	-.00044	-.00017	-.00021	-.00105	.00129	-.00107
SDev	.00013	.00004	.00021	.00022	.00026	.00028	.00004
%RSD	60.887	8.5541	120.29	102.24	24.972	21.554	3.7630
#1	-.00014	-.00040	.00004	.00002	-.00078	.00135	-.00110
#2	-.00014	-.00045	-.00019	-.00041	-.00131	.00099	-.00110
#3	-.00036	-.00047	-.00037	-.00025	-.00107	.00153	-.00103
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00084	-.00018	-.00166	-.00084	.00023	.00146	-.00336
SDev	.00046	.00033	.00037	.00007	.00198	.00101	.00325
%RSD	55.275	181.99	22.069	8.0710	853.28	68.914	96.509
#1	.00049	-.00045	-.00157	-.00080	.00059	.00165	-.00546
#2	.00066	-.00030	-.00206	-.00091	-.00190	.00037	.00088
#3	.00137	.00019	-.00134	-.00080	.00200	.00236	-.00[illegible]

Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	-.00127	.00166	.00312	-.00060	-.04374	-.01660
SDev	.00152	.00239	.00139	.00847	.00133	.00339	.00006
%RSD	1076.3	188.30	83.838	271.29	23.744	8.2128	.15495
#1	-.00025	-.00215	-.00161	.00784	-.00554	-.04339	-.01653
#2	-.00115	-.00310	-.00029	.00819	-.00696	-.03952	-.01659
#3	.00182	.00144	-.00307	-.00666	-.00430	-.04621	-.01658
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00444	-.00272	-.01540	-.03833	-.00100	-.00268	-.00151
SDev	.01102	.00308	.00880	.00527	.00084	.00211	.00028
%RSD	248.21	113.12	57.139	13.752	83.233	78.908	18.715
#1	-.00472	.00035	-.02206	-.03258	-.00196	-.00107	-.00177
#2	-.01531	-.00580	-.01872	-.03948	-.00062	-.00190	-.00121
#3	.00672	-.00271	-.00543	-.04293	-.00043	Q-.00507	-.00155
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

tStd	1	2	3	4	5	6	7
de	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	424056	--	--	--	--	--	--
SDev	151.1897	--	--	--	--	--	--
%RSD	.0356532	--	--	--	--	--	--
#1	424228	--	--	--	--	--	--
#2	423998	--	--	--	--	--	--
#3	423943	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/25/96 16:42:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	-.00058	-.00018	-.00026	-.00060	.00131	-.00107
SDev	.00022	.00005	.00019	.00054	.00050	.00026	.00008
%RSD	63.165	8.3572	100.54	209.69	83.254	19.930	[illegible]
#1	-.00031	-.00064	-.00036	-.00019	-.00101	[illegible]	-.00[illegible]

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	-.00000	-.00171	-.00067	.02248	.02074	.00794
SDev	.00069	.00021	.00017	.00012	.00200	.00275	.00286
%RSD	167.76	4197.8	9.7139	18.270	8.9203	13.258	35.992
#1	-.00037	-.00022	-.00182	-.00067	.02027	.01764	.00704
#2	.00092	.00001	-.00152	-.00080	.02420	.02171	.00565
#3	.00069	.00020	-.00178	-.00055	.02291	.02287	.01115
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .02000 30.000	QC Pass .02000 30.000	NOCHECK
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00586	.00797	.01242	.01379	.00830	-.04787	-.01572
SDev	.00169	.00101	.00134	.00671	.00253	.00348	.00013
%RSD	28.744	12.678	10.756	48.627	30.422	7.2728	.84280
#1	.00579	.00817	.01298	.02049	.00718	-.04467	-.01558
#2	.00758	.00886	.01090	.00707	.01120	-.05158	-.01584
#3	.00421	.00687	.01339	.01381	.00654	-.04737	-.01575
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00206	-.00403	.02869	-.04073	.00658	.01015	.01096
SDev	.00655	.00370	.00570	.00137	.00037	.00135	.00063
%RSD	317.97	91.934	19.877	3.3600	5.5898	13.330	5.7344
#1	-.00739	-.00697	.02306	-.03984	.00623	.01163	.01139
#2	.00525	-.00523	.02855	-.04004	.00695	.00984	.01024
#3	-.00403	.00013	.03446	-.04230	.00654	.00898	.01124
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .00600 30.000	QC Pass .01000 30.000	QC Pass .01000 30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	418999	--	--	--	--	--	--
SDev	760.1268	--	--	--	--	--	--

#2	.9587	--	--	--	--	--	--
#3	.19127	--	--	--	--	--	--

Method: J43 Sample Name: LRI Operator:
Date Time: 09/25/96 16:50:00
Comment:
Mode: CLP Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37814	.00862	.00897	.09512	.01863	.04767	.02726
SDev	.00095	.00005	.00024	.00037	.00020	.00027	.00009
%RSD	.25073	.53612	2.7313	.38533	1.0537	.57106	.31540
#1	.37912	.00866	.00913	.09504	.01884	.04786	.02735
#2	.37807	.00857	.00869	.09480	.01862	.04736	.02717
#3	.37722	.00863	.00910	.09552	.01844	.04779	.02727
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07396	.01951	.09151	.03799	.18555	.18681	.18744
SDev	.00036	.00031	.00021	.00017	.00105	.00451	.00224
%RSD	.47980	1.5718	.23376	.45939	.56383	2.4149	1.1952
#1	.07382	.01952	.09165	.03789	.18652	.18587	.18486
#2	.07436	.01921	.09127	.03819	.18568	.18284	.18658
	.07370	.01982	.09163	.03788	.18444	.19171	.18888
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18598	.10872	.10754	.18705	.18063	-.04220	-.01567
SDev	.00137	.00131	.00030	.00391	.00094	.00269	.00007
%RSD	.73674	1.2096	.27974	2.0902	.51970	6.3811	.41577
#1	.18475	.10833	.10723	.18509	.18169	-.04160	-.01570
#2	.18746	.11019	.10756	.19155	.18031	-.03986	-.01560
#3	.18575	.10764	.10784	.18450	.17989	-.04515	-.01572
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00299	-.00565	-.01157	.02461	.18649	.18278	.19733
SDev	.00540	.00117	.00336	.00061	.00155	.00131	.00044

#1	-.00158	-.00521	-.01495	.02495	.18481	.18284	.10762
#2	-.00998	-.00697	-.01153	.02454	.18785	.18407	.10845
#3	.00260	-.00476	-.00823	.02434	.18681	.18145	.10779
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Ie					.20000	.20000	.12000
Range					30.000	30.000	0.000

IntStd	1	2	3	4	5	6	
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418692	--	--	--	--	--	--
SDev	373.1528	--	--	--	--	--	--
%RSD	.0891235	--	--	--	--	--	--
#1	418849	--	--	--	--	--	--
#2	418266	--	--	--	--	--	--
#3	418961	--	--	--	--	--	--

See run-up contained insufficient standard for 3rd replicate.

Wed 09-25-96 05:11:49 PM page 1

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Method: EPA3 Sample Name: ICSA Operator:

Run time: 09/25/96 17:06:54

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00490	-.00012	.00009	.00005	.00126	-.00962	-.00245
SDev	.00312	.00138	.00059	.00095	.00081	.00373	.00203
%RSD	63.699	1190.6	616.91	1948.2	64.606	38.810	84.249
#1	.00675	-.00094	-.00037	-.00049	-.00197	-.00754	-.00361
#2	.00666	-.00089	-.00010	-.00051	-.00143	-.00740	-.00361
#3	.00130	.00148	.00075	.00115	-.00037	-.01393	-.00007
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.00098	.00056	-.00384	-.00265	Q.02019	-.03549
SDev	.00214	.00110	.00885	.00100	.00380	.04304	.04892
%RSD	2422.7	111.60	1588.6	25.988	143.52	213.15	137.83
#1	-.00161	.00004	-.00492	-.00425	-.00114	Q-.00851	-.00505
#2	-.00062	.00073	-.00418	-.00457	.00017	-.00059	-.00950
#3	.00249	.00218	.01077	-.00271	Q-.00696	Q.06968	-.09191
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02562	.06302	-.04117	-.06137	.03725	Q372.28	Q312.07
SDev	.03837	.11385	.06309	.09299	.06019	224.44	171.47
%RSD	149.79	180.67	153.26	151.54	161.56	60.289	54.947
#1	.00218	-.00553	-.00513	-.01084	.00222	503.10	412.01
#2	.00477	.00014	-.00435	-.00457	.00279	500.61	410.13
#3	.06990	.19443	-.11402	-.16869	.10675	Q113.12	Q114.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q137.16	Q377.20	.02511	-.36065	Q.00529	.00443	Q-.00646
SDev	78.48	221.96	.03194	.16244	.00930	.00927	.00436
%RSD	57.214	58.845	127.21	45.041	175.90	209.44	67.468
#1	182.96	506.45	.01222	-.45458	-.00020	-.00211	Q-.00523
#2	181.98	504.25	.00162	-.45429	.00004	.00035	-.00284
#3	Q46.547	Q120.90	.06148	-.17308	Q.01602	Q.01504	Q-.01130
Errors	QC Fail	QC Fail	NOCHECK	NOCHECK	QC Fail	QC Pass	QC Fail

157

Value	200.00	500.00	.00000	.00000	.00000
Range	40.000	100.00	.00300	.00500	.00500

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391216	--	--	--	--	--	--
Sdev	354597.0	--	--	--	--	--	--
%RSD	59.97754	--	--	--	--	--	--
#1	384059	--	--	--	--	--	--
#2	388930	--	--	--	--	--	--
#3	1000660	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator: 138

Run Time: 09/25/96 17:[illegible]:17

Comment:

Elem	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	-.00092	-.00061	-.00108	-.00170	-.00748	-.00376
SDev	.00016	.00005	.00013	.00054	.00073	.00040	.00012
%RSD	2.2967	4.9683	21.601	64.061	42.554	5.3243	3.1790
[illegible]	.00700	-.00097	-.00074	-.00031	-.00113	-.00762	-.00386
#2	.00670	-.00089	-.00047	-.00129	-.00252	-.00779	-.00370
#3	.00692	-.00090	-.00062	-.00165	-.00146	-.00703	-.00363
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00069	.00027	-.00477	-.00424	.00048	Q-.00625	-.00464
SDev	.00108	.00029	.00062	.00005	.00282	.00098	.00239
%RSD	156.99	107.97	13.008	1.1253	586.10	15.765	51.475
#1	-.00165	.00024	-.00548	-.00419	.00057	Q-.00549	-.00215
#2	-.00089	.00057	-.00430	-.00427	.00326	Q-.00736	-.00485
#3	.00048	-.00001	-.00454	-.00427	-.00239	Q-.00589	-.00691
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]ge	.00146	-.00397	-.00458	-.00161	.00743	505.16	413.29
[illegible]v	.00077	.00394	.00240	.00626	.01104	1.24	.83
%RSD	52.329	99.396	52.496	389.60	148.50	.24567	.20187
#1	.00219	-.00559	-.00264	.00552	.00417	506.50	412.33
#2	.00066	-.00684	-.00383	-.00414	-.00160	504.05	413.65
#3	.00134	.00053	-.00727	-.00621	.01974	504.3[illegible]	413.8[illegible]
[illegible]	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.55	508.72	.00151	-.44438	-.00054	.00044	-.00416
SDev	.29	.26	.00733	.00104	.00114	.00077	.00066
%RSD	.15881	.05075	487.07	.23419	209.57	182.54	15.04
#1	183.28	508.51	.00784	-.44549	.00077	.00464	-.00361
#2	183.50	509.01	.00320	-.44422	-.00115	-.00243	-.00481
#3	183.86	508.64	-.00652	-.44342	-.00125	0.01112	-.00466
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	386009	--	--	--	--	--	--
SDev	2143.107	--	--	--	--	--	--
%RSD	.5551956	--	--	--	--	--	--
#1	383593	--	--	--	--	--	--
#2	386755	--	--	--	--	--	--
#3	387680	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/25/96 17:17:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49762	.49349	.96135	.48934	.48521	.55336	.48312
SDev	.00079	.00081	.00077	.00087	.00103	.00152	.00078
%RSD	.15856	.16304	.07973	.17713	.21158	.27386	.16078
#1	.49794	.49324	.96221	.48957	.48530	.55286	.48309
#2	.49672	.49285	.96075	.48839	.48414	.55220	.48236
#3	.49819	.49439	.96108	.49007	.48618	.55509	.48391
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z20371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98041	1.1034	.47150	1.0195	1.0529	.97592	.98964
SDev	.00193	.0016	.00088	.0020	.0045	.00469	.00628
%RSD	.19686	.14160	.18681	.19678	.43090	.48068	.63475

#1	.98105	1.1035	.47181	1.0192	1.0483	.97114	[illegible]
#2	.97824	1.1018	.47051	1.0176	1.0526	.97614	[illegible]

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97074	1.0717	1.0711	1.0270	.98912	515.33	420.23
SDev	.00778	.0060	.0025	.0063	.00527	.91	.68
%RSD	.80127	.55877	.23638	.61070	.53273	.17566	.16137
#1	.96672	1.0679	1.0733	1.0306	.98385	515.38	420.29
#2	.96578	1.0687	1.0717	1.0198	.98913	514.40	419.71
#3	.97970	1.0786	1.0684	1.0306	.99439	516.21	421.06
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	188.73	522.61	.01188	-.41888	.97706	1.0018	1.0714
SDev	.35	1.20	.00961	.00057	.00598	.0041	.0005
%RSD	.18339	.22948	80.869	.13638	.61180	.40853	.05127
#1	188.71	522.43	.02091	-.41933	.97627	.99944	1.0715
#2	188.39	521.51	.01294	-.41824	.97151	.99935	1.0707
#3	189.09	523.89	.00179	-.41907	.98339	1.0065	1.0718
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387838	--	--	--	--	--	--
SDev	1396.458	--	--	--	--	--	--
%RSD	.3600626	--	--	--	--	--	--
#1	386770	--	--	--	--	--	--
#2	389418	--	--	--	--	--	--
#3	387325	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/25/96 17:22:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9615	2.0017	1.9773	2.0056	2.0002	2.0530	1.9975

#1	1.9487	1.9876	1.9647	1.9911	1.9867	2.0038	1.9776
#2	1.9668	2.0076	1.9811	2.0104	2.0063	2.0186	1.9979
#3	1.9673	2.0098	1.9862	2.0152	2.0076	2.0147	2.0002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
ue	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0056	.23916	2.0169	1.9959	2.0241	2.0393	2.0440
SDev	.0122	.00118	.0119	.0127	.0085	.0107	.0078
%RSD	.61056	.49246	.58950	.63582	.42026	.52550	.38105
#1	1.9936	.23793	2.0032	1.9814	2.0143	2.0288	2.0356
#2	2.0050	.24027	2.0230	2.0015	2.0295	2.0389	2.0510
#3	2.0181	.23928	2.0245	2.0048	2.0285	2.0502	2.0454
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9982	2.0371	2.0353	2.0438	2.0042	40.870	39.578
SDev	.0254	.0247	.0146	.0096	.0233	.280	.250
%RSD	1.2708	1.2144	.71733	.47059	1.1618	.68423	.63183
#1	1.9690	2.0086	2.0185	2.0327	1.9774	40.548	39.292
#2	2.0102	2.0536	2.0449	2.0502	2.0202	41.050	39.686
[illegible]	2.0153	2.0490	2.0424	2.0484	2.0148	41.012	39.755
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.714	40.479	Q33.495	Q42.629	2.0134	2.0174	2.0359
SDev	.228	.240	.209	.151	.0193	.0187	.0180
%RSD	.57418	.59398	.62253	.35362	.95800	.92860	.88297
#1	39.452	40.202	Q33.254	Q42.501	1.9912	1.9959	2.0152
#2	39.824	40.627	Q33.602	Q42.795	2.0238	2.0302	2.0478
#3	39.866	40.610	Q33.628	Q42.592	2.0254	2.0260	2.0446
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

%RSD	.618392	--	--	--	--	--	--
#1	419683	--	--	--	--	--	--
#2	414733	--	--	--	--	--	--
#3	416041	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/25/96 17:27:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	-.00043	.00003	.00011	-.00093	.00141	-.00096
SDev	.00013	.00009	.00024	.00010	.00021	.00024	.00012
%RSD	195.52	20.720	714.30	94.154	22.298	16.975	12.490
#1	.00008	-.00033	.00029	.00022	-.00079	.00128	-.00089
#2	-.00014	-.00047	-.00000	.00009	-.00083	.00169	-.00089
#3	-.00014	-.00049	-.00018	.00002	-.00116	.00127	-.00110
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00087	-.00028	-.00185	-.00060	.00087	.00245	-.00374
SDev	.00026	.00028	.00019	.00013	.00152	.00158	.00161
%RSD	29.220	97.367	10.412	22.428	175.33	64.486	43.116
#1	.00117	-.00018	-.00169	-.00045	-.00075	.00084	-.00192
#2	.00076	-.00060	-.00206	-.00068	.00227	.00400	-.00434
#3	.00070	-.00007	-.00179	-.00068	.00108	.00251	-.00497
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00009	-.00037	-.00199	.00393	-.00654	-.04834	.01675
SDev	.00102	.00221	.00136	.00185	.00191	.00432	.00788
%RSD	1151.5	603.44	68.237	46.998	29.147	8.9416	47.070
#1	-.00123	-.00285	-.00127	.00196	-.00718	-.04479	.02585
#2	.00023	.00037	-.00115	.00561	-.00440	-.04708	.01228
#3	.00074	.00138	-.00356	.00420	-.00805	-.05316	.01211
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000

Range						.20000	[illegible]
[illegible]	[illegible]	Mn2780	V 7564	Na5889	Mn2203	Se1960	Se2060

SDev	.00807	.00902	.00683	.00465	.00015	.00173	.00070
%RSD	41.244	20.487	37.687	12.575	11.514	56.820	49.057
#1	.02533	.05397	-.00578	-.02901	-.00144	-.00412	-.00178
#2	.01811	.04174	-.01540	-.03600	-.00127	-.00105	-.00063
	.01234	.03637	-.00219	-.03783	-.00114	-.00395	-.00190
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	425290	--	--	--	--	--	--
SDev	1680.383	--	--	--	--	--	--
%RSD	.3951143	--	--	--	--	--	--
#1	427186	--	--	--	--	--	--
#2	423984	--	--	--	--	--	--
#3	424701	--	--	--	--	--	--

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

CLP

PREP BATCH..... :	2784	PREP DATE.....	: 9/23/96
METHOD BLANK..... :	2784	PREP TIME START	: 14:45
		PREP TIME END	: 16:30
LAB CONTROL CHECK :	2784	——>SOURCE LOT :	GRA#228
MATRIX DUPE..... :	2784	——>LAB SAMPLE ID :	E14776-4
MATRIX SPIKE ... :	2784	——>LAB SAMPLE ID :	E14776-4

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP 2784 MB				200ml	10ml HNO3	
	MP 2784 LCS					5ml aqua regia	
	MP 2784 B					5ml HNO3	
	MP 2784 G	1.00g				5ml HCl	2.0ml PCPS + 2.0ml Ag Sm
	MP 2784 O	1.00g				HCl	
	MP 2784 SP						
1	E14776-1	1.00g	44.3	0.443			
2	E14776-2		95.6	0.956			
3	E14776-3		93.0	0.930			
4	E14776-4		96.3	0.963			
5	E14776-6		31.2	0.312			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→	SB						2.0ml PCPS + 2.0ml Ag Sm

this line is use for any additional QC requirements

SIGNATURE Dipti DATE 9/23/96
COMMENTS MP2784

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E14776-1	Brown	Yellow			Medium/water layer on top	
14776-2	Tan/yellow	None			Sandy	
E14776-3	Tan	None			Sandy	
E14776-4	Tan/yellow	None			Sandy	
E14776-6	Brown	Yellow			Medium/water layer on top	

Date of sample preparation: 9/23/96 Sample prepared by: Gipti

Comments:

METALS BY ICAP DIGESTION LOG
WATER MATRIX

CLP

PREP BATCH..... :	2785	PREP DATE..... :	9/23/96
METHOD BLANK..... :	2785	PREP TIME START :	16:55
		PREP TIME END :	22:00
LAB CONTROL CHECK :	2785	---->SOURCE LOT # :	QC-19
MATRIX DUPE..... :	2785	---->LAB SAMPLE ID :	G14776-5
MATRIX SPIKE ..... :	2785	---->LAB SAMPLE ID :	G14776-5

	SAMPLE ID	PRES Y/N	VOLUME IN ML'S INITIAL	FINAL	ACID USED	COMMENTS
	MP 2785 HQ1		100ml	100ml	2.0ml/1:1	
	MP 2785 LC1				Conc HNO3	
	MP 2785 S1	Y			10ml 1:1	1.0ml HPST 1.0ml Ag
	MP 2785 D1	Y			HCl	
	MP 2785 SD1					
1	G14776-5	Y				
2	Filtered Blanks					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
-->	SB					1.0ml HPST 1.0ml Ag

this line is used for any additional QC requirements

SIGNATURE Dipti DATE 9/23/96

COMMENTS MP 2785

sample number	color before	color after	clarity before	clarity after	texture	artifacts
F14776-5	None	None	Clear	Clear		

Date of sample preparation: 9/23/96 Sample prepared by: Dept 8

Comments:

Filter

~~METALS BY ICAP DIGESTION LOG~~
~~WATER MATRIX~~

PREP BATCH..... :	PREP DATE..... : 9/23/96 PREP TIME START : PREP TIME END :
METHOD BLANK..... :	
LAB CONTROL CHECK :	---->SOURCE LOT # :
MATRIX DUPE..... :	---->LAB SAMPLE ID :
MATRIX SPIKE .. :	---->LAB SAMPLE ID :

	SAMPLE ID	PRES Y/N	VOLUME IN ML'S INITIAL	FINAL	ACID USED	COMMENTS
1	E14796-5					
2	Filter Blank					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
-->						

this line is used for any additional QC requirements

SIGNATURE D. S. Patel DATE 9/23/96

COMMENTS Sample filtered through 0.45 micron filter paper and preserved

CLP
Reprep

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... :	2784	PREP DATE..... :	9/25/96
METHOD BLANK..... :	2784	PREP TIME START :	13:30
		PREP TIME END :	18:30
LAB CONTROL CHECK :	2784	——>SOURCE LOT # :	GRAA#228
MATRIX DUPE..... :		——>LAB SAMPLE ID :	—
MATRIX SPIKE ... :		——>LAB SAMPLE ID :	—

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP 2784 MB				200ml	10ml 1:1 HNO3	
	MP 2784 LC	1.000g				5ml conc HNO3	
						5ml H2O2	
						5ml 1:1	
						HCl	
1	E14776-3R	1.02g	93.0	0.93			
2							
3							
4							
5							
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12							
13							
14							
15							
16							
17							
18							
19							
20							
→	SB						2ml HPS + 2ml Hg

this line is use for any additional QC requirements

SIGNATURE Dipti DATE 9/25/96

COMMENTS MP 2784

sample number	color before	color after	[illegible] before	[illegible] after		
E147763	Tan	None			Sandy	

Date of sample preparation: 9/25/96 Sample prepared by: [illegible]

Comments:

%SOLIDS
METHOD REFERENCE: EPA 160.3M
MDL: 2.0
UNITS: %

104°C

ANALYST: 9/30/9
DATE: Sedigh

Start 4:00 9/30
end 10/1

GN6122

(B) (A) Tiev! (C) 1000

SAMPLE ID	G (WET) TOTAL WT	G TARE WT		G (WET) SAMP WT	G (DRY) TOTAL WT	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 E14776-1	28.70	20.88	Q	7.82	23.98	3.10	39.4	
E14776-1 DUP	26.26	18.00	BC *	8.26	21.24	3.24	39.2	
2 E14776-2	28.43	20.10	SY	8.33	28.06	7.96	95.6	
3 E14776-3	25.48	17.76	VR	7.72	24.95	7.19	93.1	
4 E14776-4	26.79	17.28	SB	8.91	25.86	8.58	96.3	
5 E14776-6	26.79	19.41	R	7.38	21.50	2.09	28.3	
6								
7								
8								
9								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1 E14776-3	25.48	17.76	VR	7.72	24.95	7.19	93.1	
EDRY 2								

COMMENTS: Unch

172

QC REVIEW: [signature] DATE: 10-1-9

ACCUTEST

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OCT 0 8 1996
METCALF & EDDY, INC.
BRANCHBURG, N.J.

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FOR
INORGANIC USEPA/CLP METHODS
(Multi-Media, Multi-Concentration)

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-200-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-1

Level (low/med): LOW Date Received: 09/25/96

% Solids: 96.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	83.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-300-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-2

Level (low/med): LOW Date Received: 09/25/96

% 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				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	21.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED3

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-3

Level (low/med): LOW Date Received: 09/25/96

% Solids: 29.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2220			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW/TAN Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

CLAR-AQ1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): WATER Lab Sample ID: E14856-4

Level (low/med): LOW Date Received: 09/25/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	77.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: NONE Clarity Before: CLEAR Texture:

Color After: NONE Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-500-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-5

Level (low/med): LOW Date Received: 09/25/96

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	29.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TANWN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

SO
WW

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: EARLE NWS
Job/Project Location: COLTS NECK NJ
Job/Project Number: 019855
Samplers: (Signatures)
Recorder: (Signature)
Date: 9/25/96
Lab (Samples Sent To): ACCUTEST

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil					COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED Total Lead (CLP METHOD)			Dissolved Lead (CLP METHOD)					Total #	COMMENTS
9/24/96	10:15	NR-200-PS	PROCESS SOIL		X	E	1485	6	1	6	N	X									14 DAY TURN
9/24/96	9:00	SR-400-PS	PROCESS SOIL		X				2	6	N	X									14 DAY TURN
9/24/96	15:00	SR-CLAR-SED3	CLARIFIER		X				3	6	N	X									24 HR TURN
9/24/96	14:20	CLAR-AQ1	PROCESS WATER	X					4	6	N				X						TO BE LAB FILTERED 24 HR TURN
9/25/96	8:10	SR-500-PS	PROCESS SOIL		X				5	6	N	X									14 DAY TURN

7J!

SAMPLES RECEIVED ON ICE AT ACCUTEST

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
	9/25/96	11:40	9/25/96 13:00		9/25/96	11:40	
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
					9-25-96	1300	
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: CLP METHOD	

Method of Shipment: COURIER

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/25/96	Military Time Seal Broken 1300
Accutest Job No.	Analytical Parameter/Fraction Pb	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14856-1			
E14856-2			
E14856-3			
E14856-5			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/25/96	1330	PRINTED NAME R. VAN BLARCOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/25/96	1345	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/25/96	1415	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
9/26/96	9:00	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Digest Storage
9/26/96	17:30	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	ICP Analysis
9/26/96	18:00	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME	PRINTED NAME	

WHJ

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. J1A	Date Broken 9/25/96	Military Time Seal Broken 1300
Accutest Job No.	Analytical Parameter/Fraction DISSOLVED Pb	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14856-4			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/25/96	1330	PRINTED NAME R. VAN BLARCOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/25/96	1345	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
9/25/96	1415	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	storage
9/26/96	9:00	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Digest storage
9/26/96	17:30	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	ICP Analysis
9/26/96	19:00	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	PRINTED NAME Naiem Sedrak SIGNATURE [signature]	Stores
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME	PRINTED NAME	

SO

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 9/25/96	Military Time Seal Broken 1300
Accutest Job No.	Analytical Parameter/Fraction % SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E14856-1			
E14856-2			
E14856-3			
E14856-5			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/25/96	1330	PRINTED NAME R. VAN BLARCOM SIGNATURE R. Van Blarcom	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
9/26/96	1100	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Sedigheh SIGNATURE [illegible]	% Solids
9/26/96	1130	PRINTED NAME Sedigheh SIGNATURE [illegible]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
10/2/96	0930	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Lee Moskowitz SIGNATURE Lee Moskowitz	% Solids
10/2/96	40 0930 LM	PRINTED NAME Lee Moskowitz SIGNATURE Lee Moskowitz	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME	PRINTED NAME	

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INORGANIC METHODOLOGY SUMMARY - WATER MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "Test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis

For samples to be analyzed by furnace AAS, a well mixed aliquot of sample is digested with nitric acid. The sample is filtered, if necessary, and then brought up to the final volume with DI water.

For samples to be analyzed by ICP or flame AAS, a well mixed aliquot of sample is digested with nitric acid and hydrochloric acid. The sample is filtered, if necessary, and then brought up to the final volume with DI water.

Metals by Graphite Furnace Atomic Absorption

A representative aliquot of the digested water sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector the measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals by Atomic Absorption

For flame AAS, the digested water sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

ACCUTEST

Metals by Inductively Coupled Plasma (ICP)

ICP is a technique for simultaneous or sequential multielement determinations. The basis of the method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radiofrequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace atomic absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Waters

A measured volume of sample is acid digested utilizing a water bath. Mercury is then analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measured as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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INORGANIC METHODOLOGY SUMMARY - SOIL MATRIX

All methods used for inorganic analysis are reference from the CLP Statement of Work (ILM02.0) methods.

Sample Preparation for Inorganic Elemental Analysis

A representative 1 g (nominal weight) sample is digested with nitric acid and hydrogen peroxide. If the digestate is to be analyzed for Sb by furnace or any other metals by flame or ICP, a final reflux with hydrochloric acid is also done. After digestion, the sample is filtered and brought up to a final volume of 200 mL in the appropriate acid matrix.

Metals by Graphite Furnace Atomic Absorption

A representative aliquot of the digested soil sample is placed in a graphite tube in the furnace, evaporated to dryness, and charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through the vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector that measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of only the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards are analyzed to generate a linear calibration curve in the appropriate concentration range. For all graphite furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals by Flame Atomic Absorption

For flame atomic absorption, the digested soil sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

Metals by Inductively Coupled Plasma (ICP)

ICP is a technique for simultaneous multielement determination. The basis of this method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is generated is transported to the torch where excitation occurs in an inductively coupled plasma. The excited elements produce characteristic atomic line emission spectra. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and evaluated by a computer. Quantitation is performed similarly to the graphite furnace atomic absorption, except that a minimum of a standard and a blank are used to generate a calibration curve. The linear range and detection limits of each instrument are determined on a quarterly basis.

Mercury by Manual Cold Vapor

A weighed portion of soil is acid digested utilizing an autoclave. Mercury is then analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury is reduced to the elemental state and aerated from the solution into a closed system. The mercury vapor is passed through a cell positioned in the path of an AA spectrophotometer. Absorbance is measured as a function of mercury concentration. All standards and blanks are prepared the same as the samples. A minimum of four standard are analyzed to generate an appropriate calibration curve to quantitate samples.

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Inorganics Conformance Summary
for Job E14856

Note 1: The results on the CLP forms may differ slightly from those on the raw data due to rounding differences.

Note 2: Comments on specific analysis results are listed by analysis type below. If no problems were encountered on a run, no comments are included below.

Note 3: The ICP analyses were done using the TJA Trace ICP. On this ICP, there are two lines for lead, antimony, and selenium. Two lines are used so that a background correction calculation can be applied and a single result reported. However, separate interfering element corrections are required for each line. On forms 11a and 11b, the corrections are shown for each line by entering two headings for each of the interfering elements.

Note 4: Due to space considerations, only abbreviations of the sources could be entered on forms 2A, 2B, 4 and 7. A full list of sources for all QC check standards follows this conformance summary.

Note 5: Sample CLAR-AQ1 was filtered upon receipt at the lab by client request. The sample was filtered through a 0.45 um filter and then preserved to a pH of less than 2 with nitric acid. A filter blank was done along with the sample.

Metals Digestion, 09/25/96, Waters:

1. A limited volume was received for sample CLAR-AQ1. The sample was digested using 50 ml of sample instead of 100 ml. Half of the normal CLP acids were added and the digested sample was brought to a final volume of 50 ml.

2. No matrix spike or duplicate was prepared due to the limited sample volume.

ICP Analysis, 09/26/96, Soils and Waters:

1. For CCB5, the lead value was at the negative CRDL. No samples were reported in the area bracketed by this CCB.

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ICP Analysis, 10/02/96, Waters:

1. The serial dilution for sample CLAR-AQ1 was initially analyzed at 14:36 on this run. However, a problem was suspected with the preparation of this serial dilution. The serial dilution was reprepared and reanalyzed at 14:51. All results were reported from this second analysis.

Percent Solids, 09/26/96:

1. No drying times were recorded on these analyses so all solids were reanalyzed on 10/02/96.

Standard Source Lots

Standard Sources

All regular metals-Inorganic Ventures: #L-MEB54104

Al, Ca, Fe, Mg, K, Na-Inorganic Venture: #L-MEB56113

Ag-MV Laboratories: #AgP11

V-MV Laboratories: #VP101

ICV & CCV Sources

All regular metals-Environmental Express: #690220

Ag-Ultra Scientific: #94701070

Al-MV Laboratories: #ALP101

Ba-MV Labs: #BAP1I

K-Spex: #K4-61K

Na-MV Labs: #NAP10L

Fe-Ultra Scientific: #1C-0130

Mg-Ultra Scientific: #1011201113

Ca-MV Laboratories: #W1295MS

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRIA- Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
6-25-96	AS	fisher	960121 A-24	11-97	0.4	100	NS
	TL	Baker	J02568	1-97	0.4	100	
	Pb	SPEX	4-98Pb	6-96	0.12	100	
	Se	fisher	950335 A-18	8-96	0.20	100	
	Sb	fisher	940011 D-24	7-96	0.20	100	

REAGENT LOG-ICP STANDARDS

STANDARD NAME: CRI - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-1-96	Ba	MV LAB	BAP11	3-97	6.0	100	
	CO	MV LAB	COP1F	1-97	1.2 ~~1.6~~		
	Ag	MV LAB	AGP11	5-97	0.4		
	Sb	MV LAB	SBP11	3-97	2.4		
	B	Fisher Sc	955017-24	sep 1997	2.0		
	V	MV LAB Intern	VP10	10-22-93	2.0		
	MO	Fisher	953632-24	Jun 1997	2.0		
	AS TL Pb Se	High Purity Std	591222	1-97	0.75		
	Ba As Mn Ni Be Se Co Na Cd	High Purity Std	591227	1-97	2.0		
	Pb Zn Cr TL Cu						

REAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-20-96	Mg	MV Labs	D295 LMS	8-97	50	1000	NJ
	AL		ALP 10J	6-97	50		
	Ca		W129 SMS	7-97	50		
	Fe		Fe P10M	7-97	20		

EAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
10-1-96	Mg	MV Lab	P295 LMS	4-97	50	1000	JXZ
↓	AL	↓	ALP10	8-97	50	↓	↓
	Ca		W1295 MS	6-97	50		
	Fe		FEP10M	7-97	20		

REAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-20-96	Mg	MV labs	P29J LMB	8-97	50	1000	NS
	AL		ALP 10J	6-97	50		
	Ca		W129 SMJ	7-97	50		
	Fe		fe P10M	7-97	20		
	As	fisher	960124 A24	11-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	fisher	950335 A18	8-96	1.0		
	Sb	MV lab	8-83A5	1-97	1.0		
	Ag Cd Ni Pb Zn Ba Be Co Cr	Environma	5911B	6-97	10		
	Cu Mn V						

REAGENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
10-21-96	Mg	MV Labs	P295 LMS	4-97	50	1000	JXZ
	AL		ALP10J	8-97	50		
	Ca		W1295 MS	6-97	50		
	Fe		FE P10M	7-97	20		
	As	VWR Scientific	VW 4202-1	5-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	VWR Scientific	VW4223-1	5-97	1.0		
	Sb	Fisher	940011D -24	3-97	1.0		
	Ag Cd Ni Pb Zn Ba Be Co Cr	Environmental EXPRESS	690520	9-97	10		
	Cu Mn V						

ACCUTEST

INORGANICS COMPLETE SDG FILE (SCF) INVENTORY SHEET

LABORATORY NAME : ACCUTEST LABORATORY
CITY/STATE : DAYTON, NJ

CASE NO.: _____ SDG NO.: E14856 SDG NOS. TO FOLLOW: _____
SAS NO.:

CONTRACT NO.: SOW NO.: USEPA CLP INORGANICS SOW DOCUMENT IML 2.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Inventory Sheet (Form DC-2) (Do not number)	23	24	✓	
2. SDG Case Narrative	14	22	✓	
3. Cover Page	25	25	✓	
4. Inorganic Analysis Data Sheet (Form I-IN)	26	30	✓	
5. Initial & Continuing Calibration Verification (Form IIA-IN)	31	37	✓	
6. CRDL Standards for AA and ICP (Form IIB-IN)	38	40	✓	
7. Blanks (Form III-IN)	41	44	✓	
8. ICP Interference Check Sample (Form IV-IN)	45	47	✓	
9. Spike Sample Recovery (Form VA-IN)	48	48	✓	
10. Post Digest Spike Sample Recovery (Form VB-IN)	N/A	N/A	N/A	
11. Duplicates (Form VI-IN)	49	49	✓	
12. Laboratory Control Sample (Form VII-IN)	50	50	✓	
13. Standard Addition Results (Form VIII-IN)	N/A	N/A	N/A	
14. ICP Serial Dilutions (Form IX-IN)	51	52	✓	
15. Instrument Detection Limits (Form X-IN)	58	58	✓	
16. ICP Interelement Correction Factors (Form XIA-IN)	59	59	✓	
17. ICP Interelement Correction Factors (Form XIB-IN)	60	62	✓	
18. ICP Linear Ranges (Form XII-IN)	63	10/7/96 ~~63~~ 64	✓	
19. Preparation Log (Form XIII-IN)	53	54	✓	
20. Analysis Run Log (Form XIV-IN)	55	57	✓	
21. ICP Raw Data	65	176	✓	
22. Furnace AA Raw Data	N/A	N/A	N/A	
23. Flame AA Raw Data	↓	↓	↓	
24. Mercury Raw Data	↓	↓	↓	
25. Cyanide Raw Data	↓	↓	↓	
26. Preparation Logs Raw Data	177	181	✓	

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ACCUTEST

	PAGE NOs. FROM	TO	CHECK LAB	REGION
27. Percent Solids Determination Log	182	182	✓	
28. Traffic Report	N/A	N/A	-	
29. Region Shipping/Receiving Documents				
Airbill (No. of Shipments_____)	N/A	N/A	-	
Chain-of-Custody Records	6	6	✓	
Sample Tags	N/A	N/A	-	
Sample Log-In Sheet (Lab & DC1)	N/A	N/A	-	
SDG Cover Sheet	N/A	N/A	-	
30. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	N/A	N/A	-	
_____	N/A	N/A	-	
_____	N/A	N/A	-	
31. Internal Lab Sample Transfer Records & Tracking sheets (describe or list)	7	9	✓	
_____	N/A	N/A	-	
_____	N/A	N/A	-	
32. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records_____	N/A	N/A	-	
Analysis Records_____	N/A	N/A	-	
Description_____	N/A	N/A	-	
33. Other Records (describe or list)				
Telephone Communication Log	N/A	N/A	-	
_____	N/A	N/A	-	
_____	N/A	N/A	-	

34. Comments:

_____

_____

Completed by : Nancy F. Cole (Lab) (Signature) — Nancy F. Cole Inorganics Manager (Print Name & Title) — 10/7/96 (Date)

Audited by : _____ (Region) (Signature) — _____ (Print Name & Title) — _____ (Date)

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14856

SOW No.: 3/90

Client Sample No.	Lab Sample ID
CLAR-AQ1	E14856-4
NR-200-PS	E14856-1
SR-CLAR-SED3	E14856-3
SR-300-PS	E14856-2
SR-500-PS	E14856-5

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:

SEE CONFORMANCE SUMMARY FOR 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. NC 10/4/96

Signature: Nancy F. Cole Name: Nancy F. Cole

Date: Oct. 4, 1996 Title: Inorganics Manager

COVER PAGE - IN ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-200-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-1

Level (low/med): LOW Date Received: 09/25/96

% Solids: 96.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	83.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-300-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-2

Level (low/med): LOW Date Received: 09/25/96

% 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				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	21.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-CLAR-SED3

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-3

Level (low/med): LOW Date Received: 09/25/96

% Solids: 29.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2220			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW/TAN Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

CLAR-AQ1

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): WATER Lab Sample ID: E14856-4

Level (low/med): LOW Date Received: 09/25/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	77.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: NONE Clarity Before: CLEAR Texture:

Color After: NONE Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

SR-500-PS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Matrix (soil/water): SOIL Lab Sample ID: E14856-5

Level (low/med): LOW Date Received: 09/25/96

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	29.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TANWN Clarity Before: Texture: SANDY

Color After: NONE Clarity After: Artifacts:

Comments:

FORM I - IN

ILM02.1

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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	1000.0	1039.16	103.9	2000.0	1941.79	97.1	1995.85	99.8	P
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

FORM II (PART 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	1994.62	99.7	1986.32	99.3	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	2095.52	104.8	1981.39	99.1	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	2005.63	100.3	2004.69	100.2	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	2013.65	100.7			P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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	1000.0	1016.28	101.6	2000.0	2000.37	100.0	2006.29	100.3	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Initial Calibration Source: SPEX/US/QC-1

Continuing Calibration Source: SPEX/US/QC-1

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				2000.0	2026.44	101.3			P
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

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

AA CRDL Standard Source:

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	4.95	82.5	6.53	108.8
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

AA CRDL Standard Source:

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0			6.12	102.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

AA CRDL Standard Source:

ICP CRDL Standard Source: HPS/SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.67	111.2	7.16	119.3
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	-1.5	B	1.0	U	-1.3	B	-2.6	B	1.000	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
ntimony											NR
rsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			-1.6	B	* -3.0		-2.5	B	1.000	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

* NO SAMPLE REPORTED IN THE AREA BRACKETED BY THIS QC.

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

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			1.0	U	1.0	U	1.0	U	0.200	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14856__

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
luminum											NR
ntimony											NR
Arsenic											N
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.1	B	1.0	U	1.0	U			P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	519170	521117.1	104.2	526128	530080.5	106.0
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	418549	418308.1	83.7	420523	421731.8	84.3
Chromium								
Cobalt								
Copper								
Iron	200000	200000	185515	187226.5	93.6	186552	188840.6	94.4
Lead	0	1000	1	960.8	96.1	-2	963.7	96.4
Magnesium	500000	500000	515252	521275.6	104.3	516695	523998.0	104.8
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000				530298	532533.1	106.5
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000				426325	423767.7	84.8
Chromium								
Cobalt								
Copper								
Iron	200000	200000				188408	189396.7	94.7
Lead	0	1000				0	964.6	96.5
Magnesium	500000	500000				521192	524576.4	104.9
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	482169	497140.6	99.4	488195	492443.8	98.5
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	409838	423457.6	84.7	416763	416997.6	83.4
Chromium								
Cobalt								
Copper								
Iron	200000	200000	181680	188398.1	94.2	184443	185864.9	92.9
Lead	0	1000	-1	1003.1	100.3	0	986.5	98.6
Magnesium	500000	500000	496316	517219.8	103.4	503100	510644.8	102.1
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

NR-200-PSS

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

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

% Solids for Sample: 96.8

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
alcium									NR
hromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	177.1860		83.2748		103.31	90.9		P
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:

6
DUPLICATES

CLIENT SAMPLE NO.

NR-200-PSD

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

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

% Solids for Sample: 96.8 % Solids for Duplicate: 96.8

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		83.2748		83.8306		0.7		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

7

LABORATORY CONTROL SAMPLE

Lab Name: ACCUTEST_____ Contract: NA_____

Lab Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E14856

Solid LCS Source: EPA 228_____

Aqueous LCS Source: SPEX/QC-19__

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	500.0	484.40	96.9	70.4	65.7		37.3	100.0	93.3
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

NR-200-PSL

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

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							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	403.05		389.41		3.4		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN

ILM02.1

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

CLAR-AQ1L

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	77.71		74.61		4.0		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

13
PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CLAR-AQ1	09/25/96		100
LCSW-9-25	09/25/96		100
PBW1-9-25	09/25/96		100
PBW2-9-25	09/25/96		100

FORM XIII - IN ILMO2.1

13
PREPARATION LOG

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

Method: P

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS-9-25	09/25/96	1.00	200
NR-200-PS	09/25/96	1.00	200
NR-200-PSD	09/25/96	1.00	200
NR-200-PSS	09/25/96	1.00	200
PBS-9-25	09/25/96	1.00	200
SR-300-PS	09/25/96	1.00	200
SR-500-PS	09/25/96	1.00	200
SR-CLAR-SED3	09/25/96	1.00	200

FORM XIII - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.:E14856

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/26/96

End Date: 09/26/96

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
STANDARD A	1.00	1125		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STANDARD B	1.00	1131		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD C	1.00	1135		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD D	1.00	1139				X	X	X	X		X	X	X		X		X		X		X		X	X		X	
STANDARD E	1.00	1143			X																	X			X		
STANDARD F	1.00	1147																									
STANDARD G	1.00	1149		X						X				X		X				X			X				
CV-1	1.00	1210													X												
CB-1	1.00	1233													X												
CCV-1	1.00	1238													X												
CCB-1	1.00	1243													X												
CRI-1A	1.00	1331													X												
CRI-1	1.00	1339																									
ICSA-1	1.00	1344		X						X				X	X	X											
ICSAB-1	1.00	1349		X						X				X	X	X											
CCV-2	1.00	1359													X												
CCB-2	1.00	1404													X												
ZZZZZZ	1.00	1411																									
ZZZZZZ	1.00	1417																									
ZZZZZZ	1.00	1422																									
ZZZZZZ	1.00	1427																									
ZZZZZZ	1.00	1432																									
ZZZZZZ	1.00	1446																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1510																									
ZZZZZZ	1.00	1515																									
CCV-3	1.00	1521													X												
CCB-3	1.00	1526													X												
ZZZZZZ	1.00	1553																									
CLAR-AQ1	1.00	1604													X												
SR-CLAR-SED3	1.00	1609													X												
CCV-4	1.00	1615													X												

FORM XIV - IN ILMO2.1

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.:E14856

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 09/26/96

End Date: 09/26/96

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-4	1.00	1620		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI-2A	1.00	1645		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI-2	1.00	1655		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA-2	1.00	1700		X	-	-	-	-	-	X	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
ICSAB-2	1.00	1707		X	-	-	-	-	-	X	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
CCV-5	1.00	1712		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB-5	1.00	1717		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CV-6	1.00	1735		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CB-6	1.00	1740		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW1-9-25	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW2-9-25	1.00	1750		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSW-9-25	1.00	1755		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CLAR-AQ1	1.00	1800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBS-9-25	1.00	1805		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS-9-25	1.00	1810		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
NR-200-PSD	1.00	1816		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
NR-200-PSS	1.00	1829		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
NR-200-PS	1.00	1834		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV-7	1.00	1839		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB-7	1.00	1845		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
NR-200-PSL	5.00	1850		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SR-300-PS	1.00	1855		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SR-CLAR-SED3	1.00	1900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-500-PS	1.00	1905		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV-8	1.00	1910		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB-8	1.00	1915		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI-3A	1.00	1922		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI-3	1.00	1928		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA-3	1.00	1933		X	-	-	-	-	-	X	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
ICSAB-3	1.00	1938		X	-	-	-	-	-	X	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
CCV-9	1.00	1943		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB-9	1.00	1948		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

FORM XIV - IN ILMO2.1

14

ANALYSIS RUN LOG

Lab Name: ACCUTEST

Contract: NA

Lab Code: _____ Case No.: NA

SAS No.: NA SDG No.:E14856

Instrument ID Number: TJA TRACE-Y

Method: P

Start Date: 10/02/96

End Date: 10/02/96

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
STANDARD A	1.00	1306		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STANDARD B	1.00	1311		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD C	1.00	1314		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
STANDARD D	1.00	1318				X	X	X	X		X	X	X		X		X		X		X		X	X		X	
STANDARD E	1.00	1322			X																	X					
STANDARD F	1.00	1325																							X		
STANDARD G	1.00	1327		X						X				X		X				X			X				
CV-1	1.00	1340													X												
CB-1	1.00	1345													X												
CCV-1	1.00	1351													X												
CCB-1	1.00	1356													X												
CRI-1A	1.00	1405													X												
CRI-1	1.00	1409																									
ICSA-1	1.00	1417		X						X				X	X	X											
ICSAB-1	1.00	1422		X						X				X	X	X											
CLAR-AQ1L	5.00	1436																									
CLAR-AQ1L	5.00	1451													X												
CCV-2	1.00	1455													X												
CCB-2	1.00	1500													X												
CRI-2A	1.00	1509													X												
CRI-2	1.00	1519																									
ICSA-2	1.00	1525		X						X				X	X	X											
ICSAB-2	1.00	1529		X						X				X	X	X											
CCV-3	1.00	1534													X												
CCB-3	1.00	1539													X												

FORM XIV - IN ILMO2.1

Instrument Detection Limits (Quarterly)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA_TRACE-Y_ Date: 09/18/96

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	37.0	P
Antimony	206.83		60	2.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	0.4	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	27.0	P
Chromium	267.72		10	0.6	P
Cobalt	228.62		50	0.5	P
Copper	324.75		25	1.0	P
Iron	271.44		100	24.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	16.0	P
Manganese	257.61		15	0.6	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	16.0	P
Selenium	196.02		5	4.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	18.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		50	0.6	P
Zinc	213.86		20	1.0	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AL
Aluminum	308.22	0.0000000	-0.0002400	-0.0001200	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000280	0.0000000	0.0000100
Arsenic	189.04	0.0000080	0.0000000	-0.0000100	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000060	0.0000000	0.0001550	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
romium	267.72	0.0000030	0.0000000	-0.0000200	0.0000000	0.0000000
balt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000160	0.0000000	0.0000000	0.0000020	0.0000000
Iron	271.44	-0.0004800	-0.0000200	0.0000000	0.0000210	0.0000000
Lead	220.35	0.0004640	-0.0000100	0.0000570	0.0000020	-0.0002000
Magnesium	279.08	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Manganese	257.61	0.0000060	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000100	-0.0000400	0.0000000	0.0000070
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	-0.0008200	0.0000000	0.0000000	0.0000000	0.0009320
Thallium	190.86	0.0000000	-0.0000300	-0.0001000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000190	0.0000010	0.0001120	0.0000020	0.0000000

Comments:
Be, Cd, Cr, Cu, Zn, As, Tl, Pb, Sb, Se modified 9/5/96; Mn, Ag modified 7/12; V modified 5/20.

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CA	CO	CR	CR	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0127200	0.0074840	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	-0.0000800	0.0000000	0.0000570
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
'hromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
,obalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.000000(
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0816000	0.0000000	-0.0000200	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0006240
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	-0.0000200	0.0000610	0.0000180	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0001450	0.0000000	-0.0000600
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0025200	0.0002920	0.0000000	-0.0000400
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0000800	0.0000030	0.0000000	0.0003820

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	FE	MG	MN	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000250	0.0000020	0.0000000	0.0000830
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001240
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
hromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
obalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0003700	0.0000000	0.0000000
Lead	220.35	-0.0000600	0.0000760	0.0000000	0.0001180	-0.0000600
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	0.0000000	-0.0002700	0.0000000	0.0001840	-0.0000800
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000090
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0007190
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : NI	NI	V	V	
Aluminum	308.22	0.0000000	0.0000000	0.0030800	0.0000000	
Antimony	206.83	-0.0010600	0.0000000	0.0001110	-0.0068400	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001290	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	-0.0017200	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
hromium	267.72	0.0000000	0.0000000	0.0000000	0.0002960	
obalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0040000	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0083200	
Lead	220.35	0.0003510	0.0000180	-0.0012000	0.0002820	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001300	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0001520	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	0.0000000	0.0000000	0.0000150	0.0000000	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001980	
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	-0.0000900	0.0000000	0.0014400	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0042700	0.0000000	0.0002620	

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 06/25/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	50000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	1000000.0	P
Chromium	10.00	50000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	50000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	750000.0	P
Thallium	10.00	50000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E14856

ICP ID Number: TJA TRACE-Y Date: 09/26/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	750000.0	P
Antimony	10.00	10000.0	P
Arsenic	10.00	20000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	40000.0	P
Cadmium	10.00	20000.0	P
Calcium	10.00	750000.0	P
Chromium	10.00	40000.0	P
Cobalt	10.00	40000.0	P
Copper	10.00	50000.0	P
Iron	10.00	750000.0	P
Lead	10.00	5000.0	P
Magnesium	10.00	750000.0	P
Manganese	10.00	40000.0	P
Mercury			NR
Nickel	10.00	20000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	20000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	500000.0	P
Thallium	10.00	20000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Oct 03 1996, 05:08 pm

File ID: IC0926M3.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/26/96
Run ID: MA2330

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:10	MA2330-ICV1	1		
12:33	MA2330-ICB1	1		
12:38	MA2330-CCV1	1		
12:43	MA2330-CCB1	1		
13:31	MA2330-CRIA1	1		
13:39	MA2330-CRI1	1		
13:44	MA2330-ICSA1	1		
13:49	MA2330-ICSAB1	1		
13:59	MA2330-CCV2	1		
14:04	MA2330-CCB2	1		
14:11	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:27	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:21	MA2330-CCV3	1		
15:26	MA2330-CCB3	1		
15:53	ZZZZZZ	1		
16:04	E14856-4	1		
16:09	E14856-3	1		
16:15	MA2330-CCV4	1		
16:20	MA2330-CCB4	1		
16:45	MA2330-CRIA2	1		
16:55	MA2330-CRI2	1		
17:00	MA2330-ICSA2	1		
17:07	MA2330-ICSAB2	1		
17:12	MA2330-CCV5	1		
17:17	MA2330-CCB5	1		

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Oct 03 1996, 05:08 pm

File ID: IC0926M3.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 09/26/96
Run ID: MA2330

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:35	MA2330-CCV6	1		
17:40	MA2330-CCB6	1		
17:45	MP2810-MB1	1		PBW1-9-25
17:50	ZZZZZZ	1		PBW2-9-25
17:55	MP2810-LC1	1		LCSW-9-25
18:00	E14856-4	1		Run for confirmation only.
18:05	MP2809-MB1	1		PBS-9-25
18:10	MP2809-LC1	1		LCSS-9-25
18:16	MP2809-D1	1		E14856-1D
18:29	MP2809-S1	1		E14856-1S
18:34	E14856-1	1		
18:39	MA2330-CCV7	1		
18:45	MA2330-CCB7	1		
18:50	MP2809-SD1	5		E14856-1L
18:55	E14856-2	1		
19:00	E14856-3	1		Run for confirmation only.
19:05	E14856-5	1		
19:10	MA2330-CCV8	1		
19:15	MA2330-CCB8	1		
19:22	MA2330-CRIA3	1		
19:28	MA2330-CRI3	1		
19:33	MA2330-ICSA3	1		
19:38	MA2330-ICSAB3	1		
19:43	MA2330-CCV9	1		
19:48	MA2330-CCB9	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00002	-.00019	.00025	.00008	.00020	.00116	.00007
SDev	.00000	.00005	.00009	.00006	.00005	.00002	.00001
%RSD	7.9299	25.394	33.293	75.101	23.812	2.0339	16.332
#1	.00002	-.00023	.00023	.00006	.00017	.00118	.00006
#2	.00002	-.00014	.00035	.00015	.00026	.00117	.00008
#3	.00002	-.00021	.00019	.00003	.00018	.00113	.00007

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.00008	.00003	-.00015	.00007	.00015	.00100	.00098
SDev	.00004	.00003	.00002	.00002	.00023	.00043	.00031
%RSD	45.260	104.37	10.189	23.543	158.95	43.131	31.514
#1	.00004	-.00000	-.00016	.00007	-.00005	.00147	.00098
#2	.00011	.00004	-.00013	.00008	.00040	.00091	.00067
#3	.00009	.00005	-.00015	.00005	.00008	.00062	.00125

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.00014	-.00040	.00025	-.00018	.00082	.00413	.00002
SDev	.00010	.00015	.00013	.00011	.00013	.00010	.00000
%RSD	67.789	36.820	52.301	61.152	15.188	2.3442	.93706
#1	.00009	-.00024	.00031	-.00008	.00097	.00410	.00002
#2	.00025	-.00053	.00033	-.00030	.00075	.00424	.00002
#3	.00008	-.00042	.00010	-.00018	.00076	.00406	.00002

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00024	.00022	.00006	.00014	.00053
SDev	.00012	.00000	.00002	.00003	.00003
%RSD	51.276	1.6353	32.867	19.611	4.5565
#1	.00012	.00021	.00004	.00013	.00055
#2	.00022	.00022	.00007	.00012	.00053
#3	.00036	.00022	.00008	.00018	.00050

IntStd	1	2	3	4	5	6	7

Avge	415222	--	--	--	--	--	--
SDev	3871.360	--	--	--	--	--	--
%RSD	.9323583	--	--	--	--	--	--
#1	410787	--	--	--	--	--	--
#2	417923	--	--	--	--	--	--
#3	416957	--	--	--	--	--	--

Method: EPA3 Standard: STDB

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00433	.03977	.08520	.02884	.02040	.01839	.01378
SDev	.00001	.00013	.00025	.00010	.00007	.00005	.00003
%RSD	.29368	.32728	.28990	.35520	.34819	.28123	.23020
#1	.00433	.03974	.08517	.02881	.02040	.01843	.01378
#2	.00431	.03966	.08496	.02876	.02033	.01833	.01375
#3	.00433	.03991	.08545	.02896	.02047	.01841	.01381

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.02841	.00319	.00377	.00830	.01776	.04078	.05611
SDev	.00001	.00002	.00001	.00002	.00023	.00032	.00047
%RSD	.03432	.54123	.30501	.26494	1.2749	.78814	.84083
#1	.02841	.00320	.00377	.00831	.01761	.04042	.05568
#2	.02840	.00320	.00376	.00828	.01766	.04091	.05661
#3	.02842	.00317	.00378	.00832	.01802	.04102	.05604

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.04161	.05023	.02949	.01020	.02973	.03555	.00101
SDev	.00027	.00044	.00033	.00006	.00014	.00011	.00000
%RSD	.63866	.87292	1.1184	.60137	.46996	.31548	.41395
#1	.04166	.04979	.02928	.01021	.02988	.03559	.00101
#2	.04132	.05022	.02987	.01025	.02971	.03542	.00101
#3	.04184	.05067	.02932	.01013	.02960	.03564	.00102

Elem	Fe2714	Mg2790	Na5889
Avge	.03796	.03142	.00124
SDev	.00007	.00009	.00001
%RSD	.19577	.27069	.48872
#1	.03793	.03138	.00124
#2	.03790	.03136	.00123
#3	.03804	.03152	.00124

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	417135	--	--	--	--	--	--
SDev	932.9266	--	--	--	--	--	--
%RSD	[illegible]	--	--		--	--	--

#2	417347	--	--	--	--	--	--
#3	416067	--	--	--	--	--	--

.ethod: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00855	.08024	.17046	.05775	.04037	.03553	.02749
SDev	.00001	.00031	.00063	.00016	.00018	.00003	.00007
%RSD	.06486	.38724	.36989	.27287	.43516	.08209	.27372
#1	.00855	.07988	.16973	.05758	.04017	.03556	.02741
#2	.00854	.08041	.17082	.05777	.04050	.03553	.02753
#3	.00855	.08042	.17082	.05790	.04044	.03551	.02754

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.05711	.00642	.00769	.01636	.03531	.08217	.11130
SDev	.00019	.00004	.00002	.00003	.00011	.00070	.00023
%RSD	.32941	.67865	.27215	.20752	.30586	.85569	.20577
#1	.05690	.00638	.00766	.01633	.03533	.08187	.11144
#2	.05713	.00644	.00770	.01634	.03520	.08166	.11104
#3	.05728	.00646	.00770	.01639	.03541	.08297	.11143

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.08371	.10075	.05857	.02068	.05812	.05739	.00170
SDev	.00056	.00017	.00038	.00014	.00034	.00004	.00001
%RSD	.66325	.16854	.65649	.68198	.57984	.07686	.27113
#1	.08429	.10071	.05816	.02061	.05850	.05737	.00169
#2	.08367	.10094	.05865	.02059	.05786	.05737	.00170
#3	.08318	.10061	.05891	.02084	.05800	.05744	.00170

Elem	Fe2714	Mg2790	Na5889
Avge	.06374	.05285	.00205
SDev	.00031	.00006	.00002
%RSD	.48681	.10956	1.0079
#1	.06340	.05279	.00203
#2	.06402	.05286	.00207
#3	.06380	.05290	.00205

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418623	--	--	--	--	--	--
SDev	279.9827	--	--	--	--	--	--
%RSD	.0668819	--	--	--	--	--	--
#1	418929	--	--	--	--	--	--
#2	418380	--	--	--	--	--	--
#3	418559	--	--	--	--	--	--

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.04226	.40443	.84016	.28762	.20044	.17135	.13729
SDev	.00060	.00645	.01348	.00466	.00331	.00249	.00218
%RSD	1.4136	1.5940	1.6040	1.6198	1.6538	1.4551	1.5870
#1	.04197	.39993	.83022	.28426	.19816	.17022	.13582
#2	.04186	.40155	.83475	.28565	.19892	.16962	.13626
#3	.04294	.41181	.85550	.29293	.20424	.17421	.13980

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.28281	.07647	.17496	.40936	.54169	.41264	.10442
SDev	.00441	.00121	.00294	.00777	.00659	.00514	.00116
%RSD	1.5580	1.5805	1.6781	1.8980	1.2172	1.2454	1.1099
#1	.27942	.07561	.17286	.40291	.53688	.40977	.10362
#2	.28122	.07596	.17370	.40717	.53899	.40957	.10388
#3	.28779	.07786	.17831	.41798	.54921	.41857	.10575

Elem	1960/2	Na5889
Avge	.28658	.01619
SDev	.00274	.00015
%RSD	.95521	.95766
#1	.28451	.01613
#2	.28555	.01606
#3	.28969	.01636

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	415594	--	--	--	--	--	--
SDev	5152.992	--	--	--	--	--	--
%RSD	1.239911	--	--	--	--	--	--
#1	418502	--	--	--	--	--	--
#2	418635	--	--	--	--	--	--
#3	409644	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Ag3280	2068/1	2068/2
Avge	.03068	.48208	.28060
SDev	.00005	.00381	.00135
%RSD	.15054	.78956	.48125
#1	.03073	.47772	.27904
#2	.03064	.48381	.28138
#3	.03067	.48472	.28137

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
						--	--

SDev	622.7447	--	--	--	--	--	
%RSD	.1492763	--	--	--	--	--	--
1	417827	--	--	--	--	--	--
#2	417115	--	--	--	--	--	--
#3	416586	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.03897
SDev	.00058
%RSD	1.4774
#1	.03905
#2	.03835
#3	.03950

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	423976	--	--	--	--	--	--
SDev	5060.894	--	--	--	--	--	--
%RSD	1.193676	--	--	--	--	--	--
#1	423682	--	--	--	--	--	--
#2	429177	--	--	--	--	--	--
#3	419068	--	--	--	--	--	--

Method: EPA3 Standard: STDG

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.46089	.01286	.48838	.43527	.07237	.02005
SDev	.00088	.00001	.00061	.00090	.00018	.00003
%RSD	.19072	.10696	.12551	.20690	.24312	.12878
#1	.46013	.01285	.48770	.43449	.07224	.02003
#2	.46069	.01288	.48854	.43506	.07257	.02008
#3	.46185	.01287	.48889	.43626	.07230	.02005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	405882	--	--	--	--	--	--
SDev	1041.385	--	--	--	--	--	--
%RSD	.2565734	--	--	--	--	--	--
#1	406891	--	--	--	--	--	--
#2	405944	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 09/26/96 12:10:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.0885	Q1.0536	1.0386	1.0443	1.0431	1.0258	1.0485
SDev	.0068	.0075	.0072	.0066	.0073	.0048	.0072
%RSD	.62731	.70869	.69153	.62807	.69517	.46713	.68367
#1	Q1.0947	Q1.0585	1.0433	1.0490	1.0482	1.0305	Q1.0540
#2	Q1.0896	Q1.0573	1.0421	1.0472	1.0464	1.0260	Q1.0512
#3	Q1.0812	1.0450	1.0303	1.0368	1.0348	1.0209	1.0404
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0314	.51367	1.0116	1.0434	.99258	1.0133	1.0401
SDev	.0085	.00346	.0065	.0058	.00492	.0088	.0049
%RSD	.82544	.67310	.64352	.55854	.49529	.86875	.47282
#1	1.0338	.51548	1.0164	1.0477	.99585	1.0233	1.0422
#2	1.0384	.51585	1.0141	1.0459	.99495	1.0097	1.0436
#3	1.0219	.50968	1.0042	1.0368	.98692	1.0068	1.0345
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0387	1.0421	1.0388	1.0464	1.0339	.98560	Q1.0760
SDev	.0054	.0087	.0095	.0083	.0045	.00986	.0086
%RSD	.52239	.83673	.91098	.79783	.43302	1.0005	.79577
#1	1.0438	1.0455	1.0404	1.0453	1.0382	.99291	Q1.0799
#2	1.0392	1.0486	1.0473	1.0553	1.0342	.98949	Q1.0666
#3	1.0330	1.0322	1.0286	1.0387	1.0293	.97438	Q1.0854
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail
Value						1.0000	1.0000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0398	.99914	Q.47415	1.0257	1.0392	1.0381	1.0399
SDev	.0135	.00367	.00966	.0170	.0051	.0049	.0092
%RSD	1.3006	.36755	2.0374	1.6613	.48805	.47225	.88263
#1	1.0443	.99840	Q.47986	1.0238	1.0433	1.0406	1.0421

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	415816	--	--	--	--	--	--
SDev	2251.082	--	--	--	--	--	--
%RSD	.5413654	--	--	--	--	--	--
#1	415137	--	--	--	--	--	--
#2	413982	--	--	--	--	--	--
#3	418328	--	--	--	--	--	--

Method: EPA3 Sample Name: ICB Operator:
Run Time: 09/26/96 12:33:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00065	-.00084	-.00112	-.00147	-.00293	-.00286	-.00148
SDev	.00044	.00031	.00026	.00062	.00055	.00024	.00010
%RSD	66.879	37.139	23.402	41.929	18.694	8.2531	6.9195
#1	-.00022	-.00103	-.00082	-.00150	-.00326	-.00280	-.00137
#2	-.00065	-.00101	-.00127	-.00084	-.00230	-.00313	-.00157
#3	-.00109	-.00048	-.00126	-.00207	-.00324	-.00267	-.00150
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00303	.00009	-.00029	-.00231	-.00085	Q-.01544	-.00306
SDev	.00065	.00027	.00033	.00030	.00144	.00206	.00071
%RSD	21.338	290.68	114.40	12.870	168.61	13.349	23.051
#1	-.00375	-.00020	-.00025	-.00199	-.00217	Q-.01325	-.00256
#2	-.00250	.00033	-.00063	-.00258	-.00107	Q-.01574	-.00389
#3	-.00284	.00015	.00002	-.00234	.00068	Q-.01734	-.00279
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00082	.00175	-.00036	-.00167	-.00283	-.01508	.00721
SDev	.00154	.00307	.00223	.00401	.00286	.01813	.01582

#2	.00044	.00300	-.00110	.00238	-.00023	-.01556	-.00219
#3	-.00254	-.00175	-.00212	-.00177	-.00590	.00328	-.00167
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00466	-.01155	.00807	-.01764	-.00155	-.00242	.00036
SDev	.00590	.00831	.01232	.02196	.00091	.00272	.00238
%RSD	126.74	71.955	152.73	124.50	58.966	112.23	660.72
#1	-.00351	-.00521	.00195	.00747	-.00106	-.00342	.00278
#2	.00059	-.00848	.02224	-.02710	-.00098	.00065	.00028
#3	-.01104	-.02095	.00000	-.03328	-.00260	-.00451	-.00198
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	420576	--	--	--	--	--	--
SDev	3102.973	--	--	--	--	--	--
%RSD	.7377520	--	--	--	--	--	--
1	423934	--	--	--	--	--	--
#2	419978	--	--	--	--	--	--
#3	417815	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 12:38:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9058	1.9223	1.9087	1.9135	Q1.8935	1.9877	1.9022
SDev	.0986	.1058	.1048	.1052	.1072	.1061	.1041
%RSD	5.1757	5.5014	5.4922	5.4961	5.6630	5.3364	5.4736
#1	Q1.7920	Q1.8002	Q1.7876	Q1.7921	Q1.7697	Q1.8653	Q1.7820
#2	1.9666	1.9826	1.9682	1.9731	1.9549	2.0532	1.9614
#3	1.9588	1.9841	1.9702	1.9753	1.9559	2.0447	1.9632

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1

%RSD	5.4164	5.3350	5.4619	5.3511	5.4640	5.5390	5.8350
#1	Q1.8084	Q.29475	Q1.7950	Q1.7989	Q1.8130	Q1.8365	1.8625
2	1.9863	Q.32440	1.9772	1.9769	1.9973	2.0273	1.9919
#3	1.9922	Q.32310	1.9752	1.9763	1.9950	2.0279	1.9918
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9383	1.9778	1.9828	1.9728	1.9363	39.924	38.482
SDev	.0832	.0897	.0763	.0793	.0900	2.177	2.110
%RSD	4.2944	4.5373	3.8471	4.0178	4.6499	5.4518	5.4831
#1	1.8422	1.8743	1.8948	1.8814	1.8323	Q37.413	Q36.046
#2	1.9844	2.0332	2.0277	2.0146	1.9895	41.254	39.663
#3	1.9882	2.0260	2.0260	2.0224	1.9870	41.106	39.737
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.547	39.229	Q32.835	41.326	1.9418	1.9484	1.9812
SDev	2.172	2.139	1.777	2.120	.0804	.0864	.0808
%RSD	5.6355	5.4525	5.4129	5.1289	4.1400	4.4349	4.0762
#1	Q36.409	Q36.759	Q30.789	38.889	Q1.8490	Q1.8487	Q1.8880
#2	39.805	40.460	Q33.991	Q42.743	1.9870	1.9979	2.0296
#3	39.799	40.467	Q33.726	Q42.346	1.9894	1.9988	2.0260
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421299	--	--	--	--	--	--
SDev	19105.17	--	--	--	--	--	--
%RSD	4.534829	--	--	--	--	--	--
#1	443355	--	--	--	--	--	--
#2	409888	--	--	--	--	--	--
#3	410653	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:

Run Time: 09/26/96 12:43:29

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00058	.00030	-.00079	-.00045	-.00209	-.00139	-.00108
SDev	.00034	.00022	.00013	.00017	.00031	.00014	.00006
%RSD	58.299	73.027	16.231	38.091	14.624	10.197	5.9768
#1	-.00021	.00009	-.00065	-.00064	-.00212	-.00130	-.00102
#2	-.00087	.00029	-.00084	-.00031	-.00178	-.00132	-.00108
#3	-.00065	.00052	-.00089	-.00040	-.00239	-.00156	-.00115
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00133	.00007	.00163	-.00171	Q.00568	Q-.01013	-.00139
SDev	.00050	.00007	.00055	.00038	.00158	.00146	.00280
%RSD	37.130	97.105	33.640	21.931	27.755	14.373	200.56
#1	-.00095	.00010	.00114	-.00129	.00394	Q-.00912	.00173
#2	-.00189	-.00001	.00154	-.00199	Q.00610	Q-.00948	-.00367
#3	-.00115	.00011	.00222	-.00187	Q.00701	Q-.01180	-.00224
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	.00022	-.00070	.00192	-.00400	.01013	.01226
SDev	.00170	.00153	.00128	.00220	.00121	.01658	.01388
%RSD	927.03	478.71	181.80	114.52	30.249	163.72	113.25
#1	-.00103	-.00142	-.00042	.00431	-.00375	-.00512	.02608
#2	-.00130	.00149	-.00210	-.00000	-.00532	.00773	.01239
#3	.00177	.00088	.00041	.00144	-.00294	.02777	-.00169
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	-.00279	.02553	-.00440	-.00056	-.00201	-.00035
SDev	.00707	.00550	.01851	.01776	.00133	.00133	.00081
%RSD	3385.4	197.26	72.501	404.04	235.36	66.072	233.87
#1	-.00534	.00344	.01318	.01598	-.00009	-.00105	-.00074
#2	.00785	-.00484	.04682	-.01663	-.00206	-.00353	-.00089
#3	-.00314	-.00697	.01661	-.01254	.00046	-.00146	.00059
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	419776	--	--	--	--	--	--
SDev	2045.313	--	--	--	--	--	--
%RSD	.4872388	--	--	--	--	--	--
#1	421961	--	--	--	--	--	--
#2	419461	--	--	--	--	--	--
#3	417907	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/26/96 13:31:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	-.00111	-.00092	-.00132	-.00307	-.00178	-.00155
SDev	.00034	.00008	.00007	.00031	.00051	.00003	.00008
%RSD	85.020	6.7971	7.1851	23.349	16.535	1.7265	5.1354
#1	.00069	-.00111	-.00086	-.00107	-.00296	-.00179	-.00150
#2	.00048	-.00118	-.00099	-.00167	-.00362	-.00181	-.00164
#3	.00003	-.00103	-.00092	-.00124	-.00263	-.00175	-.00150
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
ange							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	-.00050	-.00174	-.00171	.01535	Q.00443	.00294
SDev	.00039	.00054	.00028	.00014	.00416	.00210	.00143
%RSD	83.400	107.71	15.907	8.1539	27.115	47.411	48.658
#1	.00059	-.00031	-.00185	-.00164	.01954	Q.00354	.00455
#2	.00003	-.00111	-.00195	-.00162	Q.01122	Q.00683	.00242
#3	.00077	-.00008	-.00143	-.00187	.01527	Q.00292	.00184
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00593	.00831	.00520	.00591	.00623	-.03651	.06576
SDev	.00142	.00235	.00095	.00302	.00135	.00838	.00829
%RSD	23.976	28.311	18.301	51.199	21.633	22.945	12.610
#1	.00593	.00627	.00568	.00841	.00483	-.04316	.07001
#2	.00450	.00778	.00411	.00676	.00636	-.03927	.07106
#3	.00735	.01088	.00582	.00255	.00752	-.02710	.05620

Range

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01538	-.00988	.02255	.02496	.00496	Q.00614	Q.00625
SDev	.00627	.00329	.01048	.00894	.00097	.00033	.00113
%RSD	40.775	33.323	46.462	35.826	19.588	5.3307	18.085
#1	-.01125	-.00668	.01633	.03195	.00550	Q.00604	Q.00589
#2	-.02260	-.01326	.01667	.02806	Q.00384	Q.00651	Q.00535
#3	-.01229	-.00971	.03465	.01488	.00554	Q.00588	.00752
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418556	--	--	--	--	--	--
SDev	1283.424	--	--	--	--	--	--
%RSD	.3066312	--	--	--	--	--	--
#1	419951	--	--	--	--	--	--
#2	417425	--	--	--	--	--	--
#3	418293	--	--	--	--	--	--

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ethod: EPA3 Sample Name: CRI Operator:
un Time: 09/26/96 13:39:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36627	.00752	.00777	.09038	Q.01282	Q.25936	.02548
SDev	.00793	.00061	.00022	.00214	.00096	.00640	.00060
%RSD	2.1664	7.7580	2.7801	2.3635	7.4520	2.4664	2.3548
#1	.35717	.00750	.00755	.08798	Q.01181	Q.25198	.02479
#2	.37171	.00765	.00776	.09109	Q.01293	Q.26329	.02588
#3	.36994	.00864	.00799	.09207	Q.01371	Q.26281	.02577
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06822	Q.00057	.08865	.03518	.17978	.16985	.17782
SDev	.00137	.00025	.00170	.00084	.00590	.00614	.00759
%RSD	2.0136	44.330	1.9179	2.3827	3.2813	3.6145	4.2659

Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17348	.09836	.10374	.19545	.18969	-.03810	.05398
SDev	.00834	.00557	.00830	.00855	.00041	.02702	.00364
%RSD	4.8059	5.6606	8.0031	4.3742	.21503	70.911	6.7422
#1	.16386	.09211	.09548	.18787	.18972	-.06785	.04978
#2	.17787	.10020	.11209	.20472	.19008	-.03140	.05598
#3	.17870	.10278	.10365	.19378	.18927	-.01507	.05618
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01380	-.01643	.01032	1.9907	.17495	.19163	.10196
SDev	.00541	.00585	.01261	.0446	.00804	.00301	.00699
%RSD	39.186	35.597	122.21	2.2396	4.5977	1.5734	6.8581
#1	-.01932	-.02174	-.00360	1.9409	.16566	.18912	.09437
#2	-.00852	-.01740	.01356	2.0268	.17976	.19497	.10815
#3	-.01356	-.01016	.02099	2.0044	.17942	.19079	.10338
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	424374	--	--	--	--	--	--
SDev	9954.605	--	--	--	--	--	--
%RSD	2.345713	--	--	--	--	--	--
#1	435865	--	--	--	--	--	--
#2	418889	--	--	--	--	--	--
#3	418369	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:

Run Time: 09/26/96 13:44:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	.00847	-.00142	-.00322	-.00016	.00119	-.00458	-.00304
#2	.00701	-.00147	-.00373	-.00284	-.00153	-.00662	-.00321
3	.00624	-.00151	-.00361	-.00243	-.00159	-.00723	-.00337
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00284	.00023	-.00425	-.00283	-.00079	Q-.01703	-.01009
SDev	.00128	.00081	.00054	.00103	.00136	.00143	.00664
%RSD	45.208	358.82	12.338	36.395	172.81	8.4127	65.854
#1	-.00151	.00115	-.00496	-.00165	-.00165	Q-.01869	-.00334
#2	-.00294	-.00009	-.00395	-.00331	.00078	Q-.01622	-.01031
#3	-.00406	-.00038	-.00414	-.00354	-.00149	Q-.01619	-.01662
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00594	.00272	.00110	.00544	.00393	519.17	418.55
SDev	.00265	.00382	.00619	.00244	.00259	1.29	1.69
%RSD	44.698	140.50	564.62	44.938	65.773	.24780	.40495
1	.00835	.00347	.00762	.00608	.00489	517.68	416.68
#2	.00310	-.00142	.00035	.00749	.00100	519.91	419.98
#3	.00635	.00612	-.00469	.00273	.00590	519.91	418.99
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	185.52	515.25	.09796	.04138	.00063	.00445	.00166
SDev	.85	2.39	.07022	.33705	.00334	.00112	.00401
%RSD	.45844	.46379	71.680	814.42	533.55	25.183	242.09
#1	184.55	512.61	.17505	.40936	Q.00448	Q.00531	Q.00626
#2	186.16	517.26	.08115	-.03286	-.00133	.00318	-.00022
#3	185.83	515.88	.03767	-.25235	-.00127	.00486	-.00107
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

%RSD	.2543037	--	--	--	--	--	--
#1	384762	--	--	--	--	--	--
#2	384697	--	--	--	--	--	--
#3	386427	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/26/96 13:49:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49357	.48677	.94685	.47764	.47100	.54670	.47440
SDev	.00168	.00163	.00344	.00189	.00300	.00082	.00175
%RSD	.34056	.33566	.36321	.39483	.63676	.15100	.36930
#1	.49549	.48864	.95081	.47979	.47445	.54762	.47642
#2	.49282	.48605	.94462	.47625	.46953	.54602	.47351
#3	.49239	.48562	.94511	.47688	.46902	.54646	.47327
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96487	1.1353	.46876	1.0018	1.0330	.97782	.95753
SDev	.00382	.0036	.00175	.0023	.0037	.00802	.00127
%RSD	.39644	.31636	.37218	.22909	.36054	.82003	.13295
#1	.96929	1.1393	.47077	1.0043	1.0369	.97069	.95719
#2	.96272	1.1342	.46760	.99975	1.0295	.97626	.95893
#3	.96262	1.1324	.46792	1.0013	1.0326	.98650	.95646
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99040	1.0753	1.0706	1.0187	.98152	521.12	418.31
SDev	.00316	.0041	.0047	.0193	.00531	1.99	1.60
%RSD	.32831	.38327	.44091	1.8930	.54077	.38199	.38226
#1	.95983	1.0733	1.0668	1.0005	.98635	523.42	420.15
#2	.96593	1.0800	1.0691	1.0389	.98236	519.96	417.49
#3	.96144	1.0725	1.0759	1.0167	.97584	519.97	417.29

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

SDev	.76	1.72	.00320	.01813	.00248	.00636	.0029
%RSD	.40467	.33088	27.092	4.9406	.25801	.64007	.27445
#1	188.10	523.26	.01506	-.35019	.95898	.99107	1.0690
#2	186.88	520.43	.00865	-.36433	.96362	1.0012	1.0728
#3	186.71	520.14	.01176	-.38617	.95981	.98947	1.0748
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385336	--	--	--	--	--	--
SDev	640.4615	--	--	--	--	--	--
%RSD	.1662086	--	--	--	--	--	--
#1	384597	--	--	--	--	--	--
#2	385730	--	--	--	--	--	--
#3	385681	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 13:59:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9647	2.0222	1.9877	1.9969	1.9795	2.0604	1.9886
SDev	.0122	.0167	.0171	.0169	.0159	.0131	.0169
%RSD	.61898	.82503	.85840	.84665	.80404	.63585	.85226
#1	1.9578	2.0054	1.9703	1.9789	1.9631	2.0526	1.9713
#2	1.9788	2.0388	2.0044	2.0125	1.9949	2.0755	2.0052
#3	1.9576	2.0223	1.9885	1.9994	1.9806	2.0530	1.9894
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2216	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0106	0.32022	1.9997	1.9887	2.0206	2.0546	2.0023
SDev	.0186	.00216	.0161	.0166	.0132	.0246	.0254
%RSD	.92546	.67374	.80410	.83477	.65358	1.1951	1.2685
#1	1.9920	0.31778	1.9835	1.9709	2.0082	2.0293	1.9979
#2	2.0293	0.32186	2.0157	2.0038	2.0345	2.0562	2.0296
#3	2.0105	0.32102	2.0000	1.9913	2.0192	2.0783	1.9793
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9926	2.0553	2.0372	2.0419	1.9942	41.129	39.909
Dev	.0141	.0091	.0277	.0265	.0138	.241	.398
%RSD	.70649	.44139	1.3590	1.2993	.69002	.58628	.99664
#1	1.9772	2.0450	2.0359	2.0274	1.9835	40.954	39.469
#2	2.0049	2.0623	2.0655	2.0725	1.9893	41.404	40.243
#3	1.9957	2.0586	2.0102	2.0257	2.0097	41.029	40.016
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.289	40.840	Q32.866	41.461	1.9959	2.0101	2.0432
SDev	.339	.317	.165	.175	.0153	.0104	.0194
%RSD	.84076	.77630	.50275	.42317	.76574	.51698	.95092
#1	39.945	40.513	Q32.878	41.514	1.9841	1.9981	2.0389
#2	40.622	41.146	Q33.025	41.604	2.0131	2.0170	2.0644
#3	40.302	40.860	Q32.695	41.265	1.9903	2.0150	2.0263
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	407536	--	--	--	--	--	--
SDev	2451.310	--	--	--	--	--	--
%RSD	.6014948	--	--	--	--	--	--
#1	409757	--	--	--	--	--	--
#2	404906	--	--	--	--	--	--
#3	407946	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 14:04:48 -
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00088	-.00092	-.00081	-.00165	-.00326	-.00115	-.00127
SDev	.00022	.00012	.00016	.00093	.00080	.00035	.00010
%RSD	24.466	13.498	20.403	56.209	24.675	30.282	81138
#1	-.00110	-.00079	-.00063	-.00268	-.00368	-.00088	-.00116

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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00258	-.00024	-.00159	-.00247	-.00293	Q-.00660	-.00120
SDev	.00013	.00104	.00011	.00011	.00095	.00103	.00415
%RSD	5.0433	427.41	6.6389	4.3370	32.283	15.591	345.75
#1	-.00272	-.00095	-.00152	-.00247	-.00206	Q-.00657	-.00358
#2	-.00247	.00095	-.00154	-.00237	-.00394	Q-.00558	.00359
#3	-.00254	-.00073	-.00171	-.00258	-.00281	Q-.00763	-.00361
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00133	-.00299	-.00207	.00175	-.00625	-.04904	.01643
SDev	.00264	.00267	.00059	.00358	.00119	.01020	.00961
%RSD	198.10	89.254	28.263	205.03	19.033	20.788	58.507
#1	-.00013	-.00204	-.00273	.00050	-.00730	-.04926	.01162
#2	-.00435	-.00601	-.00160	.00579	-.00648	-.05913	.01017
#3	.00049	-.00093	-.00188	-.00105	-.00496	-.03874	.02749
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00729	.01304	.00059	-.03936	-.00127	-.00357	-.00236
SDev	.00633	.00417	.01315	.00406	.00042	.00116	.00076
%RSD	86.785	32.013	2213.3	10.324	32.979	32.386	32.248
#1	.01390	.01056	-.01449	-.03794	-.00126	-.00469	-.00248
#2	.00668	.01786	.00968	-.04394	-.00169	-.00238	-.00305
#3	.00129	.01070	.00660	-.03620	-.00085	-.00364	-.00155
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	422446	--	--	--	--	--	--
SDev	5151.781	--	--	--	--	--	--
%RSD	1.219512	--	--	--	--	--	--

#3	417385	--	--	--	--	--	--

:hod: EPA3 Sample Name: PB10PPM Operator:
an Time: 09/26/96 14:11:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00125	-.00112	-.00108	-.00195	-.00322	-.00212	-.00150
SDev	.00011	.00015	.00009	.00012	.00032	.00046	.00006
%RSD	9.1668	13.735	8.7256	6.0915	9.9886	21.517	3.9002
#1	-.00112	-.00095	-.00105	-.00194	-.00355	-.00263	-.00145
#2	-.00132	-.00123	-.00100	-.00184	-.00291	-.00199	-.00157
#3	-.00132	-.00119	-.00118	-.00207	-.00319	-.00174	-.00150
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni231C	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00209	.00026	-.00146	-.00307	-.00248	L-.01024	9.8731
SDev	.00070	.00035	.00081	.00011	.00074	.00111	.2520
%RSD	33.353	134.87	55.212	3.7186	29.962	10.811	2.5519
#1	-.00245	.00012	-.00062	-.00296	-.00309	L-.00900	9.5825
2	-.00254	-.00000	-.00222	-.00306	-.00270	L-.01113	10.008
#3	-.00129	.00065	-.00154	-.00319	-.00165	L-.01059	10.029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8513	-.00006	-.00257	-.00276	-.00514	-.03759	.01177
SDev	.1291	.00156	.00156	.00259	.00294	.01615	.00268
%RSD	1.3107	2543.8	60.893	93.841	57.176	42.975	22.777
#1	9.7023	-.00001	-.00378	-.00393	-.00231	-.05599	.00868
#2	9.9308	.00147	-.00312	-.00456	-.00492	-.02577	.01313
#3	9.9208	-.00165	-.00080	.00021	-.00817	-.03099	.01350
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00218	.00253	-.00482	-.03889	9.8586	-.00433	.00172
SDev	.00731	.00280	.01659	.00204	.1699	.00132	.00073

#2	-.01058	-.00055	.00256	-.04097	9.9564	-.00478	-.00158
#3	.00269	.00321	.00680	-.03882	9.9569	L-.00537	-.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	421878	--	--	--	--	--	--
SDev	9963.987	--	--	--	--	--	--
%RSD	2.361817	--	--	--	--	--	--
#1	433358	--	--	--	--	--	--
#2	416800	--	--	--	--	--	--
#3	415476	--	--	--	--	--	--

Method: EPA3 Sample Name: PB20PPM Operator:
Run Time: 09/26/96 14:17:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	-.00121	-.00119	-.00165	-.00209	-.00086	-.00043
SDev	.00001	.00015	.00026	.00060	.00117	.00087	.00151
RSD	1.1850	12.602	21.743	36.485	56.265	100.57	350.68
#1	-.00107	-.00136	-.00127	-.00186	-.00291	-.00089	-.00133
#2	-.00109	-.00105	-.00090	-.00097	-.00074	.00002	.00132
#3	-.00109	-.00121	-.00140	-.00211	-.00261	-.00171	-.00128
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00205	.00160	-.00211	-.00302	-.00410	L-.01511	20.305
SDev	.00070	.00062	.00047	.00017	.00079	.00373	.474
%RSD	34.081	38.701	22.037	5.7472	19.231	24.671	2.3355
#1	-.00256	.00089	-.00265	-.00305	-.00500	L-.01100	20.826
#2	-.00126	.00199	-.00181	-.00284	-.00379	L-.01828	19.897
#3	-.00235	.00193	-.00189	-.00318	-.00352	L-.01605	20.194

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179

%RSD	2.[illegible]314	87.120	88.211	163.00	105.86	49.860	54.098
#1	20.753	-.00055	-.00436	-.00682	-.00002	-.01178	.03279
2	19.894	-.00239	-.00435	-.00127	-.00235	-.03692	.01360
#3	19.989	-.00527	.00005	.00082	-.00563	-.03396	.01417
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Rb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04305	.01008	-.00396	-.03446	20.243	-.00257	-.00282
SDev	.06400	.00933	.02079	.00987	.470	.00079	.00101
%RSD	148.66	92.521	524.39	28.637	2.3206	30.825	35.918
#1	.00655	.00852	-.02205	-.02329	20.778	-.00227	-.00307
#2	.11695	.02009	-.00860	-.03812	19.895	-.00197	-.00368
#3	.00565	.00163	.01875	-.04198	20.057	-.00347	-.00170
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	409788	--	--	--	--	--	--
SDev	7564.438	--	--	--	--	--	--
%RSD	1.845939	--	--	--	--	--	--
#1	401130	--	--	--	--	--	--
#2	415117	--	--	--	--	--	--
#3	413117	--	--	--	--	--	--

Method: EPA3 Sample Name: PB30PPM Operator:
Run Time: 09/26/96 14:22:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00102	-.00129	-.00123	-.00179	-.00300	-.00186	-.00117
SDev	.00013	.00013	.00011	.00040	.00029	.00004	.00068
%RSD	13.053	9.7026	8.5244	22.322	9.7986	2.4108	58.331
#1	-.00109	-.00115	-.00116	-.00147	-.00267	-.00184	-.00038
#2	-.00109	-.00136	-.00119	-.00224	-.00309	-.00183	-.00156
#3	-.00086	-.00137	-.00135	-.00167	-.00324	-.00191	-.00156
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00219	.00274	-.00210	-.00298	-.00525	L-.01459	29.938
SDev	.00039	.00030	.00058	.00007	.00213	.00181	.077
%RSD	17.731	10.743	27.706	2.2439	40.547	12.374	.25802
#1	-.00176	.00304	-.00144	-.00295	-.00373	L-.01654	29.998
#2	-.00251	.00246	-.00255	-.00294	-.00769	L-.01298	29.964
#3	-.00231	.00273	-.00232	-.00306	-.00434	L-.01425	29.851
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.728	-.00177	-.00073	-.00441	-.00308	-.04238	.01340
SDev	.042	.00171	.00126	.00398	.00344	.00242	.00053
%RSD	.14011	96.432	171.90	90.247	111.75	5.7114	3.9398
#1	29.738	-.00176	-.00219	.00016	-.00576	-.04506	.01280
#2	29.682	-.00007	.00004	-.00710	.00080	-.04034	.01364
#3	29.764	-.00349	-.00005	-.00628	-.00428	-.04175	.01377
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00614	-.00000	-.00222	-.03849	29.798	-.00350	-.0010[illegible]
SDev	.03418	.00258	.01370	.00285	.025	.00158	.0010[illegible]
%RSD	556.57	70753.	616.34	7.4086	.08267	44.955	96.973
#1	.04549	.00251	-.01771	-.03695	29.825	-.00377	-.00208
#2	-.01624	-.00265	.00273	-.04178	29.776	-.00181	.00002
#3	-.01083	.00012	.00831	-.03674	29.793	-.00493	-.00118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	415833	--	--	--	--	--	--
SDev	1886.589	--	--	--	--	--	--
%RSD	.4536894	--	--	--	--	--	--
#1	417994	--	--	--	--	--	--
#2	414988	--	--	--	--	--	--
#3	414516	--	--	--	--	--	--

Comment:
Mode: CONC Corr. Factor: 1

lem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	-.00131	-.00215	-.00067	-.00211	-.00355	-.00070
SDev	.00013	.00015	.00025	.00117	.00202	.00110	.00199
%RSD	56.913	11.253	11.800	173.25	95.783	30.963	284.05
#1	.00028	-.00119	-.00210	-.00083	-.00273	-.00420	-.00128
#2	.00030	-.00127	-.00192	.00056	.00015	-.00228	.00152
#3	.00008	-.00148	-.00242	-.00175	-.00375	-.00416	-.00234
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00145	.00014	-.00284	-.00476	-.00353	L-.01715	.01210
SDev	.00236	.00043	.00078	.00068	.00130	.00095	.00117
%RSD	162.05	316.63	27.342	14.179	36.953	5.5572	9.6844
#1	-.00254	-.00035	-.00289	-.00524	-.00449	L-.01605	.01264
#2	.00125	.00047	-.00204	-.00399	-.00405	L-.01758	.01290
#3	-.00307	.00028	-.00359	-.00506	-.00204	L-.01781	.01075
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00851	-.00166	-.00146	.00303	-.00333	106.75	95.901
SDev	.00245	.00054	.00194	.00340	.00320	.33	.340
%RSD	28.838	32.358	133.35	111.98	95.840	.30498	.35448
#1	.01121	-.00128	.00028	-.00085	-.00494	106.47	95.527
#2	.00788	-.00227	-.00110	.00545	-.00541	106.68	95.984
#3	.00643	-.00142	-.00356	.00449	.00035	107.11	96.192
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.376	103.30	.00643	-.11462	.00972	-.00120	-.00151
SDev	.320	.29	.01380	.00964	.00191	.00270	.00130
%RSD	.32487	.27674	214.82	8.4111	19.682	225.33	86.390
#1	98.008	102.99	-.00651	-.10561	.01171	-.00356	-.00022
#2	98.529	103.36	.02096	-.11345	.00958	-.00178	.00147
#3	98.589	103.55	.00484	-.12479	.00799	.00174	-.00283

Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	409156	--	--	--	--	--	--
SDev	2460.381	--	--	--	--	--	--
%RSD	.6013304	--	--	--	--	--	--
#1	411912	--	--	--	--	--	--
#2	408377	--	--	--	--	--	--
#3	407180	--	--	--	--	--	--

Method: EPA3 Sample Name: AL,FE,MG,CA-200 Operator:
Run Time: 09/26/96 14:32:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00183	-.00162	-.00229	-.00137	-.00377	-.00481	-.00309
SDev	.00020	.00016	.00027	.00044	.00046	.00103	.00010
%RSD	10.888	10.175	11.872	31.833	12.111	21.441	3.1797
#1	.00169	-.00149	-.00233	-.00103	-.00334	-.00535	-.00305
#2	.00206	-.00180	-.00200	-.00186	-.00425	-.00362	-.00302
#3	.00175	-.00157	-.00254	-.00121	-.00371	-.00546	-.00320
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00256	-.00019	-.00547	-.00601	-.00263	L-.01859	.00244
SDev	.00082	.00051	.00123	.00013	.00033	.00471	.00656
%RSD	32.179	262.41	22.423	2.1498	12.683	25.319	268.33
#1	-.00271	-.00003	-.00475	-.00597	-.00261	L-.01416	-.00068
#2	-.00330	-.00077	-.00689	-.00616	-.00298	L-.01807	.00998
#3	-.00167	.00021	-.00478	-.00591	-.00231	L-.02353	-.00197
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NULHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00440	-.00502	-.00269	.00380	-.00974	222.72	188.52
SDev	.00453	.01034	.00408	.01025	.00486	14.37	10.14
%RSD	103.05	205.93	151.57	269.79	49.891	6.4535	5.3770

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	202.98	216.27	.01479	-.21850	-.00210	L-.00522	-.00345
SDev	11.69	12.87	.01476	.00738	.00114	.00125	.00141
%RSD	5.7614	5.9526	99.800	3.3769	54.545	23.930	40.883
#1	195.41	208.09	.00487	-.21338	-.00271	L-.00653	-.00429
#2	216.45	231.11	.00774	-.22696	-.00280	L-.00508	-.00424
#3	197.08	209.62	.03175	-.21517	-.00078	-.00404	-.00182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391361	--	--	--	--	--	--
SDev	21101.70	--	--	--	--	--	--
%RSD	5.391877	--	--	--	--	--	--
#1	406803	--	--	--	--	--	--
#2	367317	--	--	--	--	--	--
#3	399963	--	--	--	--	--	--

Method: EPA3 Sample Name: AL,FE,MG,CA-500 Operator:
Run Time: 09/26/96 14:46:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00809	.00173	.00503	.00305	-.00056	-.00379	-.00204
SDev	.00002	.00000	.00016	.00051	.00067	.00043	.00004
%RSD	.22634	.03947	3.2784	16.596	119.67	11.355	2.0024
#1	.00811	.00173	.00515	.00279	-.00119	-.00370	-.00202
#2	.00810	.00173	.00510	.00364	.00014	-.00341	-.00209
#3	.00807	.00173	.00484	.00274	-.00062	-.00426	-.00202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	L-.02434	.00632

#1	.00103	-.00034	-.00697	.00541	.00174	L-.02264	.00497
#2	.00157	.00109	-.00669	.00580	.00355	L-.02369	.00974
#3	-.00024	.00019	-.00665	.00545	.00027	L-.02669	.00424
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00924	.00033	-.00260	.00226	-.00968	516.23	398.21
SDev	.00183	.00102	.00140	.01272	.00300	1.04	.12
%RSD	19.798	311.77	53.762	562.12	30.952	.20228	.03039
#1	-.00731	-.00071	-.00335	-.01239	-.01146	517.34	398.21
#2	-.01095	.00133	-.00099	.01036	-.01136	516.09	398.34
#3	-.00944	.00036	-.00347	.00881	-.00622	515.26	398.09
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	458.00	502.97	.02710	-.40083	L-.00403	L-.00568	-.00161
SDev	.52	.88	.00733	.00306	.00083	.00545	.00123
%RSD	.11401	.17547	27.035	.76332	20.614	95.927	76.337
#1	458.46	503.69	.02072	-.40044	L-.00320	L-.01175	-.00245
#2	458.10	503.24	.02549	-.40406	L-.00404	-.00410	-.00020
#3	457.43	501.98	.03510	-.39798	L-.00486	-.00120	-.00210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390087	--	--	--	--	--	--
SDev	725.2209	--	--	--	--	--	--
%RSD	.1859125	--	--	--	--	--	--
#1	389506	--	--	--	--	--	--
#2	389856	--	--	--	--	--	--
#3	390900	--	--	--	--	--	--

Method: EPA3 Sample Name: AL,FE,MG,CA-750 Operator:
Run Time: 09/26/96 14:59:05

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01790	.00649	.01708	.00874	.00311	.00045	.00064
Dev	.00017	.00009	.00026	.00055	.00101	.00031	.00011
%RSD	.97926	1.4071	1.4920	6.3436	32.561	68.864	17.620
#1	.01771	.00652	.01681	.00863	.00210	.00018	.00073
#2	.01795	.00639	.01712	.00824	.00311	.00039	.00052
#3	.01804	.00657	.01732	.00933	.00413	.00079	.00067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00389	.00050	-.00820	.02774	.00558	L-.03233	.01454
SDev	.00058	.00037	.00021	.00023	.00335	.00340	.00887
%RSD	15.017	73.855	2.5577	.81689	60.038	10.517	60.980
#1	.00327	.00070	-.00802	.02763	.00940	L-.03267	.02411
#2	.00397	.00008	-.00843	.02760	.00315	L-.03555	.01292
#3	.00443	.00074	-.00817	.02800	.00419	L-.02877	.00660
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00955	.02482	-.00698	.00467	-.01652	734.03	551.05
SDev	.00411	.01889	.01128	.00766	.01835	2.71	4.12
%RSD	43.014	76.099	161.62	164.24	111.09	.36922	.74800
#1	-.01402	.00666	-.00011	.01092	-.03149	733.01	551.27
#2	-.00871	.02344	-.00083	.00696	-.02201	731.98	546.81
#3	-.00593	.04436	-.01999	-.00388	.00395	737.10	555.05
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	658.51	734.65	.01111	-.61208	-.00150	L-.00944	.00363
SDev	4.20	4.77	.01343	.00562	.00022	.00969	.00317
%RSD	.63836	.64881	120.88	.91800	14.612	102.56	87.336
#1	658.30	734.68	-.00187	-.61302	-.00129	L-.01735	.00216
#2	654.42	729.86	.01025	-.60605	-.00148	L-.01234	.00727
#3	662.82	739.40	.02495	-.61717	-.00173	.00136	.00146

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Wavler	371.030	--	--	--	--	--	--
Avge	384688	--	--	--	--	--	--
SDev	1051.158	--	--	--	--	--	--
%RSD	.2732495	--	--	--	--	--	--
#1	385332	--	--	--	--	--	--
#2	385257	--	--	--	--	--	--
#3	383475	--	--	--	--	--	--

Method: EPA3 Sample Name: AL,FE,MG,CA-750 Operator:
Run Time: 09/26/96 15:10:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00106	-.00152	-.00126	-.00208	-.00317	-.00296	-.00169
SDev	.00000	.00003	.00020	.00021	.00021	.00042	.00013
%RSD	.09049	1.9393	16.155	10.086	6.5921	14.285	7.5067
#1	-.00106	-.00149	-.00102	-.00208	-.00310	-.00250	-.00154
#2	-.00106	-.00155	-.00138	-.00229	-.00340	-.00334	-.00176
#3	-.00106	-.00152	-.00137	-.00187	-.00300	-.00304	-.00176
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00226	-.00064	-.00362	-.00328	-.00533	-.00008	.00658
SDev	.00077	.00032	.00042	.00012	.00119	.00239	.00296
%RSD	34.001	51.011	11.481	3.7553	22.322	2875.0	44.963
#1	-.00311	-.00058	-.00316	-.00316	-.00400	.00266	.00542
#2	-.00162	-.00099	-.00397	-.00329	-.00567	-.00114	.00437
#3	-.00204	-.00034	-.00372	-.00341	-.00631	-.00177	.00994
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	-

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	-.00082	-.00379	-.00407	.00772	-.07723	596.24
SDev	.00104	.00228	.00195	.00669	.00130	.00535	1.46
%RSD	391.93	276.92	51.386	164.57	16.898	6.9287	.24548
#1	-.00081	.00109	-.00292	.00279	.00681	-.07222	597.92
#2	.00034	-.00021	-.00601	-.01059	.00714	-.07661	595.21
#3	.00126	-.00335	-.00242	-.00440	.00922	-.08287	595.59
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4889	.14015	-.00017	-.04170	.00239	.00381	-.00278
SDev	.0256	.01827	.01101	.00289	.00156	.00225	.00125
%RSD	1.0305	13.034	-511.7	6.9393	65.228	58.951	44.949
#1	2.5145	.14828	.00300	-.04207	.00129	.00549	-.00157
#2	2.4886	.15294	.00891	-.03865	.00170	.00126	-.00407
#3	2.4632	.11923	-.01242	-.04440	.00417	.00470	-.00272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	396617	--	--	--	--	--	--
SDev	535.5187	--	--	--	--	--	--
%RSD	.1350215	--	--	--	--	--	--
#1	397227	--	--	--	--	--	--
#2	396402	--	--	--	--	--	--
#3	396223	--	--	--	--	--	--

Method: EPA3 Sample Name: AL,FE,MG,CA-750 Operator:
In Time: 09/26/96 15:15:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr3577	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00030	-.00136	L-.00400	.00005	-.00129	.00190	-.00522
SDev	.00012	.00001	.00047	.00032	.00028	.00014	.00015
%RSD	41.133	1.0969	11.692	693.06	21.451	7.3248	2.7860
#1	-.00023	-.00135	L-.00447	.00016	-.00098	.00188	-.00520
#2	-.00023	-.00138	-.00399	.00030	-.00150	.00204	-.00514
#3	-.00045	-.00136	-.00354	-.00032	-.00139	.00177	-.00541
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00292	-.00020	-.00911	-.01111	-.00052	L-.03323	.03679
SDev	.00070	.00026	.00010	.00032	.00106	.00268	.00253
%RSD	24.072	129.43	1.1521	2.8435	204.07	8.0606	6.8753
#1	-.00244	.00006	-.00899	-.01129	.00036	L-.03075	.03882
	[illegible]	[illegible]	-.00917	-.01130	-.00170	L-.03286	.03760

High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05786	-.00687	-.00604	.01161	.00285	.51481	3.5559
SDev	.00153	.00211	.00227	.00339	.00457	.04044	.2408
%RSD	2.6396	30.671	37.631	29.190	159.95	7.8554	6.7708
#1	-.05814	-.00869	-.00548	.01517	.00689	.50413	3.3413
#2	-.05923	-.00737	-.00410	.01123	.00377	.55952	3.8162
#3	-.05621	-.00456	-.00854	.00843	-.00210	.48078	3.5101
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	724.48	.27685	.00400	-.06507	L-.02632	.00579	L-.00630
SDev	1.27	.05147	.00943	.00856	.00058	.00414	.00103
%RSD	.17582	18.590	235.72	13.153	2.2139	71.603	16.407
#1	725.91	.22950	.00555	-.07256	L-.02583	.00967	L-.00654
#2	724.04	.33163	.01257	-.05574	L-.02696	.00627	L-.00517
#3	723.48	.26942	-.00611	-.06692	L-.02616	.00142	L-.00720
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	427018	--	--	--	--	--	--
SDev	763.0873	--	--	--	--	--	--
%RSD	.1787013	--	--	--	--	--	--
#1	427788	--	--	--	--	--	--
#2	427005	--	--	--	--	--	--
#3	426262	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 15:21:33
Comment:

Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9507	2.0341	1.9870	1.9976	1.9868	2.0530	1.9900
SDev	.0028	.0062	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

#2	1.9528	2.0360	1.9877	1.9997	1.9905	2.0363	1.9918
#3	1.9517	2.0390	1.9911	2.0015	1.9889	2.0553	1.9946
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0195	Q.31095	2.0044	1.9744	2.0067	2.0130	2.0148
SDev	.0056	.00169	.0047	.0079	.0062	.0125	.0041
%RSD	.27883	.54446	.23353	.39765	.30659	.62176	.20528
#1	2.0142	Q.30902	1.9992	1.9655	2.0040	1.9988	2.0123
#2	2.0189	Q.31170	2.0057	1.9771	2.0023	2.0226	2.0126
#3	2.0254	Q.31215	2.0083	1.9805	2.0137	2.0175	2.0196
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9845	2.0441	2.0235	2.0460	1.9782	41.161	39.954
SDev	.0050	.0129	.0079	.0154	.0205	.022	.018
%RSD	.25422	.63258	.39108	.75086	1.0346	.05298	.04519
#1	1.9787	2.0292	2.0149	2.0373	1.9565	41.172	39.934
#2	1.9868	2.0513	2.0253	2.0369	1.9809	41.175	39.957
#3	1.9880	2.0519	2.0304	2.0637	1.9972	41.136	39.970
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mn2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.230	40.587	Q33.015	41.729	1.9946	2.0008	2.0304
SDev	.069	.083	.133	.101	.0044	.0180	.0095
%RSD	.17137	.20459	.40382	.24311	.21830	.89889	.46642
#1	40.295	40.493	Q33.167	41.826	1.9899	1.9835	2.0197
#2	40.158	40.649	Q32.964	41.623	1.9954	1.9996	2.0339
#3	40.238	40.620	Q32.916	41.739	1.9985	2.0194	2.0376
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	410399	--	--	--	--	--	--

#1	411506	--	--	--	--	--	--
#2	410519	--	--	--	--	--	--
3	409172	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 15:26:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00124	-.00112	-.00112	-.00125	-.00292	-.00005	-.00136
SDev	.00013	.00012	.00017	.00038	.00042	.00046	.00012
%RSD	10.312	10.654	14.972	30.262	14.237	973.90	8.7823
#1	-.00110	-.00100	-.00093	-.00114	-.00258	.00042	-.00122
#2	-.00132	-.00114	-.00123	-.00167	-.00339	-.00051	-.00143
#3	-.00132	-.00124	-.00121	-.00094	-.00281	-.00004	-.00143
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00191	-.00001	-.00232	-.00268	-.00444	Q-.00964	-.00384
SDev	.00073	.00076	.00048	.00038	.00166	.00201	.00193
%RSD	38.323	14769.	20.579	14.189	37.391	20.872	50.179
#1	-.00112	.00064	-.00188	-.00225	-.00253	Q-.00818	-.00167
#2	-.00256	-.00084	-.00283	-.00296	Q-.00557	Q-.00882	-.00535
#3	-.00203	.00019	-.00226	-.00283	Q-.00521	Q-.01194	-.00450
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Cd2[illegible]/3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00196	-.00097	-.00077	-.00220	-.00522	-.07944	.00299
SDev	.00164	.00186	.00117	.00423	.00078	.00241	.00818
%RSD	83.708	192.26	152.02	192.07	15.034	3.0354	273.09
#1	-.00365	-.00189	-.00180	.00147	-.00446	-.08203	.01242
#2	-.00037	.00117	-.00100	-.00683	-.00602	-.07726	-.00218
#3	-.00186	-.00220	.00050	-.00125	-.00518	-.07903	-.00126
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					[illegible]	-.00470	-.00082

#1	0.14033	.00510	.00234	-.05855	-.00297	-.00247	-.00181
[illegible]	0.13209	-.00709	-.01960	-.07083	-.00201	0-.00628	-.00026
	.09879	-.00227	.00956	-.07086	-.00272	-.00385	-.00038
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	418476	--	--	--	--	--	--
SDev	2050.365	--	--	--	--	--	--
%RSD	.4899596	--	--	--	--	--	--
#1	419349	--	--	--	--	--	--
#2	419946	--	--	--	--	--	--
#3	416134	--	--	--	--	--	--

Method: EPA3 Sample Name: CA500 Operator:
Run Time: 09/26/96 15:53:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.00082	-.00069	-.00149	-.00140	.00110	-.00095
SDev	.00023	.00018	.00022	.00048	.00032	.00022	.00007
%RSD	179.83	22.310	32.509	32.291	22.645	19.878	7.3081
#1	.00036	-.00062	-.00053	-.00107	-.00144	.00093	-.00088
#2	-.00010	-.00096	-.00094	-.00139	-.00106	.00103	-.00102
#3	.00012	-.00089	-.00059	-.00201	-.00169	.00135	-.00096
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl4908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00131	-.00006	-.00264	.01087	-.00229	-.00133	.00523
SDev	.00113	.00014	.00051	.00036	.00141	.00063	.00278
%RSD	86.327	236.58	19.130	3.3384	61.744	47.803	53.153
#1	-.00066	-.00014	-.00209	.01045	-.00283	-.00066	.00633
#2	-.00065	.00010	-.00275	.01108	-.00068	-.00192	.00730
#3	-.00261	-.00014	-.00309	.01107	-.00335	-.00139	.00207
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NUCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
[illegible]	.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Units	ppm	ppm	ppm	ppm			
Avge	.00091	.00035	-.00139	-.00894	.00885	.01699	522.64
SDev	.00096	.00576	.00264	.00392	.00327	.01353	.62
%RSD	105.41	1666.5	190.26	43.840	36.965	79.647	.11800
#1	.00032	-.00165	-.00066	-.00978	.01257	.02841	523.22
#2	.00040	-.00415	.00081	-.00466	.00756	.00205	522.71
#3	.00201	.00683	-.00432	-.01236	.00642	.02051	522.00
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34432	.11441	.00762	.00402	.00237	.00295	-.00079
SDev	.04327	.01966	.00776	.00199	.00033	.00253	.00019
%RSD	12.568	17.185	101.83	49.385	14.055	85.776	24.502
#1	.39054	.13567	.01190	.00631	.00234	.00515	-.00097
#2	.30478	.11066	.01230	.00290	.00272	.00351	-.00082
#3	.33763	.09689	-.00134	.00285	.00205	.00019	-.00059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	395780	--	--	--	--	--	--
SDev	2017.102	--	--	--	--	--	--
%RSD	.5096519	--	--	--	--	--	--
#1	396564	--	--	--	--	--	--
#2	393489	--	--	--	--	--	--
#3	397288	--	--	--	--	--	--

Method: EPA3 Sample Name: E14856-4 Operator:
Run Time: 09/26/96 16:04:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0835	.00233	.00223	.00127	.00228	.03380	.14514
SDev	.0116	.00068	.00055	.00048	.00040	.00020	.00019
%RSD	.37670	29.222	24.655	37.609	17.357	.60793	.13042
#1	3.0967	.00157	.00160	.00079	.00186	.03389	.14505
#2	3.0748	.00287	.00257	.00174	.00265	.03356	.14536
#3	3.0791	.00256	.00253	.00127	.00233	.03394	.14502

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00453	.00103	.00008	.67644	.00269	L-.01475	.08032
SDev	.00045	.00025	.00076	.00062	.00116	.00071	.00126
%RSD	9.9052	24.232	968.36	.09140	43.052	4.7865	1.5650
#1	.00441	.00076	-.00071	.67611	.00156	L-.01551	.07903
#2	.00415	.00124	.00080	.67715	.00387	L-.01463	.08154
#3	.00502	.00108	.00015	.67606	.00265	L-.01411	.08039
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07636	.08580	.08814	.00144	.00227	.28356	18.409
SDev	.00192	.00112	.00042	.00157	.00271	.05134	.356
%RSD	2.5157	1.3057	.47446	109.17	119.46	18.107	1.9336
#1	.07749	.08450	.08857	-.00027	.00397	.22521	18.001
#2	.07746	.08648	.08773	.00177	.00370	.32183	18.572
#3	.07414	.08641	.08811	.00281	-.00086	.30364	18.655
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.73249	4.3164	1.7320	14.890	.07771	.00201	.08737
SDev	.12343	.0743	.0017	.087	.00134	.00143	.00017
%RSD	16.850	1.7214	.09865	.58640	1.7185	71.298	.19433
#1	.61214	4.2474	1.7309	14.799	.07804	.00258	.08723
#2	.72657	4.3068	1.7339	14.973	.07885	.00307	.08733
#3	.85878	4.3950	1.7310	14.897	.07624	.00038	.08756
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	420125	--	--	--	--	--	--
SDev	1942.530	--	--	--	--	--	--
%RSD	.4623696	--	--	--	--	--	--
#1	418345	--	--	--	--	--	--
#2	419833	--	--	--	--	--	--

Method: LPAS Sample Name: E14856-3 Operator:
Run Time: 09/26/96 16:09:56
Comment:
Code: CORC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02599	.00131	-.00002	.00036	.02021	.41704	.07845
SDev	.00062	.00031	.00014	.00022	.00021	.00109	.00017
%RSD	2.4013	23.691	728.33	60.799	1.0631	.26178	.21911
#1	.02651	.00101	-.00017	.00045	.02045	.41683	.07865
#2	.02616	.00128	-.00000	.00011	.02005	.41823	.07833
#3	.02530	.00163	.00011	.00053	.02012	.41607	.07932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00221	.00289	.04055	.09588	.00344	L-.01691	3.2299
SDev	.00074	.00026	.00006	.00028	.00166	.00040	.0150
%RSD	33.394	9.1302	.15065	.28816	48.184	2.3506	.46348
#1	.00251	.00318	.04061	.09619	.00159	L-.01723	3.2349
#2	.00136	.00268	.04049	.09572	.00394	L-.01646	3.2417
#3	.00274	.00280	.04055	.09571	.00479	L-.01703	3.2130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1669	.03190	.03081	-.00915	.00589	7.1084	3.4185
SDev	.0228	.00204	.00021	.00285	.00407	.0193	.0801
%RSD	.72015	6.4113	.67540	31.125	69.058	.27132	2.3422
#1	3.1810	.03412	.03062	-.00839	.00450	7.0970	3.3809
#2	3.1791	.03150	.03079	-.01230	.01046	7.1307	3.3642
#3	3.1409	.03009	.03103	-.00676	.00270	7.0976	3.5105
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC-Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.438	.86132	.18189	.20001	3.1879	.00090	.03119
SDev	.076	.02317	.00485	.00345	.0201	.00177	.00055
%RSD	.43613	2.6898	2.6693	1.7253	.62923	197.05	1.7607
#1	17.517	.84898	.18715	.20193	3.1990	.00023	.03180

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	423540	--	--	--	--	--	--
SDev	2533.987	--	--	--	--	--	--
%RSD	.5982875	--	--	--	--	--	--
#1	421183	--	--	--	--	--	--
#2	423217	--	--	--	--	--	--
#3	426220	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 16:15:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9331	2.0195	1.9644	1.9847	1.9783	2.0536	1.9825
SDev	.0023	.0064	.0070	.0075	.0054	.0017	.0068
%RSD	.11970	.31862	.35565	.37673	.27187	.08518	.34430
#1	1.9305	2.0126	1.9575	1.9764	1.9724	2.0516	1.9750
#2	1.9349	2.0254	1.9714	1.9910	1.9828	2.0544	1.9882
#3	1.9339	2.0204	1.9643	1.9866	1.9798	2.0549	1.9845
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0023	0.30318	1.9982	1.9565	1.9946	2.0167	2.0072
SDev	.0103	.00085	.0057	.0052	.0140	.0094	.0084
%RSD	.51547	.28103	.28530	.26773	.70148	.46791	.41735
#1	1.9948	0.30220	1.9921	1.9509	1.9799	2.0060	2.0008
#2	2.0141	0.30369	2.0033	1.9612	2.0078	2.0239	2.0167
#3	1.9980	0.30366	1.9993	1.9573	1.9962	2.0201	2.0042
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9759	2.0450	2.0184	2.0408	1.9665	41.272	39.932
SDev	.0050	.0101	.0064	.0116	.0076	.054	.201
				[illegible]	[illegible]	.13003	.50288

#2	1.9790	2.0473	2.0220	2.0508	1.9738	41.324	39.977
#3	1.9784	2.0537	2.0222	2.0282	1.9670	41.275	39.712
rors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
alue						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.094	40.534	Q32.699	41.508	1.9863	1.9912	2.0273
SDev	.080	.068	.110	.060	.0056	.0071	.0075
%RSD	.20003	.16709	.33738	.14410	.28426	.35762	.37066
#1	40.022	40.476	Q32.577	41.546	1.9804	1.9869	2.0187
#2	40.180	40.609	Q32.791	41.540	1.9916	1.9994	2.0304
#3	40.081	40.518	Q32.730	41.439	1.9870	1.9874	2.0327
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	411526	--	--	--	--	--	--
SDev	2006.197	--	--	--	--	--	--
%RSD	.4875023	--	--	--	--	--	--
#1	413666	--	--	--	--	--	--
#2	411223	--	--	--	--	--	--
#3	409688	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 16:20:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00103	-.00118	-.00100	-.00159	-.00263	.00007	-.00123
SDev	.00012	.00027	.00032	.00032	.00045	.00013	.00030
%RSD	12.085	22.524	32.444	19.905	16.967	173.86	24.162
#1	-.00088	-.00087	-.00063	-.00127	-.00241	.00019	-.00099
#2	-.00110	-.00130	-.00118	-.00160	-.00235	.00010	-.00136
#3	-.00110	-.00136	-.00119	-.00190	-.00315	-.00007	-.00143
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

%RSD	64.994	113.61	24.712	14.046	140.94	165.53	51.981
#1	-.00052	.00010	-.00218	-.00213	-.00340	.00145	-.00126
2	-.00290	-.00050	-.00331	-.00258	.00110	-.00211	-.00475
3	-.00284	-.00065	-.00360	-.00282	-.00302	@-.00754	-.00254
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00098	-.00086	-.00184	-.00411	.00150	-.10767	.02164
SDev	.00067	.00197	.00202	.00096	.00272	.00391	.00902
%RSD	67.959	229.78	109.40	23.289	181.22	3.6320	41.705
#1	-.00174	-.00170	-.00185	-.00300	-.00105	-.11138	.01122
#2	-.00048	.00139	-.00386	-.00465	.00119	-.10805	.02671
#3	-.00073	-.00226	.00018	-.00467	.00437	-.10358	.02698
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00644	-.00482	.00127	-.05884	-.00158	-.00035	-.00150
SDev	.00527	.00273	.00443	.00653	.00029	.00157	.00078
%RSD	81.784	56.686	349.30	11.096	18.030	448.94	51.935
#1	.01245	-.00297	-.00064	-.05149	-.00156	-.00169	-.00178
#2	.00261	-.00353	.00634	-.06107	-.00188	-.00074	-.00210
#3	.00426	-.00795	-.00189	-.06396	-.00131	.00138	-.00062
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	420902	--	--	--	--	--	--
SDev	2514.825	--	--	--	--	--	--
%RSD	.5974842	--	--	--	--	--	--
#1	423761	--	--	--	--	--	--
#2	419915	--	--	--	--	--	--
#3	419031	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 09/26/96 16:45:09

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00101	-.00141	-.00094	-.00173	-.00219	.00032	-.00123
SDev	.00026	.00012	.00032	.00031	.00029	.00019	.00011
%RSD	25.817	8.5510	33.844	17.640	13.348	58.990	8.6683
#1	-.00131	-.00154	-.00129	-.00161	-.00213	.00010	-.00135
#2	-.00086	-.00139	-.00067	-.00151	-.00194	.00045	-.00114
#3	-.00086	-.00130	-.00086	-.00208	-.00251	.00039	-.00121
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00131	-.00063	-.00325	-.00226	.01569	Q.00275	.00459
SDev	.00031	.00051	.00016	.00007	.00172	.00234	.00162
%RSD	23.555	80.646	4.9126	2.9158	10.968	85.103	35.242
#1	-.00160	-.00073	-.00334	-.00234	Q.01377	Q.00537	.00578
#2	-.00136	-.00008	-.00306	-.00228	.01710	Q.00201	.00523
#3	-.00098	-.00108	-.00334	-.00222	.01620	Q.00087	.00275
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00747	.00491	.00351	.00257	.00571	-.10427	.15060
SDev	.00065	.00086	.00126	.00281	.00142	.00942	.07376
%RSD	8.7252	17.543	35.949	109.40	24.819	9.0348	48.977
#1	.00809	.00465	.00497	-.00065	.00606	-.11052	.07257
#2	.00579	.00420	.00290	.00381	.00692	-.10885	.16006
#3	.00754	.00587	.00268	.00454	.00415	-.09343	.21917
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06535	.03404	.00560	-.06002	.00653	Q.00468	Q.00400
SDev	.03838	.01316	.00361	.00381	.00072	.00108	.00079
%RSD	58.728	38.673	64.444	6.3408	11.021	23.124	19.851
#1	.03976	.01934	.00839	-.06430	.00734	Q.00384	Q.00488
#2	.10948	.04474	.00690	-.05702	.00629	Q.00590	Q.00335
#3	.04682	.03805	.00152	-.05874	.00596	Q.00430	Q.00376
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value					.00600	.01000	.01000
					30.000	30.000	30.000

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	414041	--	--	--	--	--	--
SDev	414.6987	--	--	--	--	--	--
%RSD	.1001588	--	--	--	--	--	--
#1	413856	--	--	--	--	--	--
#2	414516	--	--	--	--	--	--
#3	413751	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 09/26/96 16:55:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37347	.00802	.00841	.09391	.01703	.04603	.02725
SDev	.00120	.00006	.00003	.00068	.00009	.00007	.00009
%RSD	.31992	.75155	.33490	.72397	.52959	.15896	.32986
#1	.37214	.00804	.00838	.09361	.01713	.04611	.02715
#2	.37447	.00795	.00843	.09343	.01696	.04601	.02731
#3	.37378	.00807	.00841	.09469	.01700	.04597	.02729
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07252	.01918	.09209	.03575	.18232	.17015	.18916
SDev	.00032	.00032	.00047	.00048	.00164	.00010	.00280
%RSD	.44663	1.6569	.51274	1.3473	.89910	.05696	1.4823
#1	.07238	.01951	.09157	.03537	.18146	.17007	.18975
#2	.07228	.01915	.09250	.03559	.18128	.17026	.18611
#3	.07289	.01887	.09220	.03629	.18421	.17012	.19162
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18314	.10864	.11018	.18941	.18198	-.10580	.19508
SDev	.00272	.00105	.00050	.00436	.00332	.00653	.03292
%RSD	1.4880	.96935	.45767	2.3001	1.8259	6.1765	16.876
#1	.18020	.10786	.11061	.19130	.17866	-.10380	.23310
#2	.18559	.10984	.11030	.18443	.18198	-.11310	.17616
#3	.18363	.10823	.10963	.19250	.18531	-.10050	.17599

Range

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08183	.04363	.02026	.01454	.18517	.18448	.10968
SDev	.01434	.01304	.00435	.00376	.00155	.00281	.00049
%RSD	17.525	29.895	21.462	25.820	.83626	1.5242	.45158
#1	.08166	.04926	.02457	.01751	.18341	.18289	.10971
#2	.06757	.02871	.01587	.01032	.18579	.18282	.11017
#3	.09625	.05291	.02034	.01579	.18632	.18772	.10918
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	413187	--	--	--	--	--	--
SDev	1268.936	--	--	--	--	--	--
%RSD	.3071094	--	--	--	--	--	--
#1	414645	--	--	--	--	--	--
#2	412332	--	--	--	--	--	--
#3	412584	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/26/96 17:00:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00579	-.00192	-.00247	-.00210	-.00171	-.00761	-.00435
SDev	.00016	.00003	.00022	.00080	.00098	.00064	.00012
%RSD	2.8392	1.5208	8.9746	38.130	57.541	8.3787	2.7318
#1	.00591	-.00190	-.00222	-.00118	-.00058	-.00707	-.00422
#2	.00587	-.00195	-.00254	-.00260	-.00237	-.00745	-.00437
#3	.00561	-.00192	-.00265	-.00252	-.00217	-.00831	-.00445
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00209	.00039	-.00635	-.00416	-.00240	Q-.00899	-.00657
SDev	.00132	.00030	.00057	.00063	.00419	.00646	.00415
%RSD	63.132	78.203	8.9331	15.237	174.60	71.877	63.228
#1	-.00152	.00055	-.00608	-.00344	Q-.00705	-.00163	-.00404

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	-.00474	.00157	.00210	.00022	526.13	420.52
SDev	.00224	.00076	.00193	.00498	.00338	.46	1.50
%RSD	1857.6	16.061	122.92	237.40	1513.8	.08783	.35684
#1	-.00052	-.00387	.00004	.00743	.00194	526.61	422.08
#2	-.00173	-.00528	.00375	-.00243	-.00368	525.69	420.40
#3	.00261	-.00508	.00093	.00130	.00241	526.09	419.09
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.55	516.69	.01770	-.44905	-.00208	.00087	-.00051
SDev	.41	1.25	.01883	.02165	.00045	.00366	.00111
%RSD	.21946	.24138	106.40	4.8209	21.704	422.95	215.94
#1	187.00	518.03	.03929	-.42654	-.00166	.00378	-.00124
#2	186.46	516.50	.00466	-.45088	-.00256	-.00324	.00076
#3	186.19	515.55	.00915	-.46972	-.00201	.00206	-.00105
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	380392	--	--	--	--	--	--
SDev	1454.098	--	--	--	--	--	--
%RSD	.3822633	--	--	--	--	--	--
#1	378787	--	--	--	--	--	--
#2	380766	--	--	--	--	--	--
#3	381622	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:

Run Time: 09/26/96 17:07:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	.49029	.49262	.94437	.48046	.47791	.55290	.47856
#2	.48917	.49368	.94581	.48286	.47812	.55233	.47971
3	.48853	.49365	.94576	.48313	.47901	.55307	.47913
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97024	1.0694	.47399	.99830	1.0359	.96813	.96896
SDev	.00347	.0013	.00023	.00171	.0032	.01247	.00164
%RSD	.35748	.12494	.04938	.17122	.31067	1.2882	.16936
#1	.96687	1.0705	.47375	.99643	1.0371	.95516	.96814
#2	.97007	1.0697	.47401	.99872	1.0384	.98004	.96789
#3	.97380	1.0679	.47422	.99977	1.0323	.96918	.97085
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96101	1.0753	1.0768	1.0339	.96857	530.08	421.73
SDev	.00505	.0065	.0039	.0108	.00606	.61	.74
%RSD	.52511	.60408	.35992	1.0424	.62538	.11440	.17447
#1	.95569	1.0807	1.0813	1.0452	.96443	530.71	420.90
#2	.96573	1.0772	1.0746	1.0238	.97552	530.03	422.30
#3	.96161	1.0681	1.0746	1.0328	.96576	529.50	421.99
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	188.84	524.00	.00514	-.44970	.96368	.99035	1.0764
SDev	.17	.55	.00317	.00729	.00342	.00196	.0044
%RSD	.09148	.10506	61.802	1.6210	.35533	.19795	.40917
#1	188.64	523.62	.00765	-.44706	.95986	.99135	1.0811
#2	188.92	524.63	.00619	-.44410	.96648	.99160	1.0755
#3	188.96	523.75	.00157	-.45794	.96471	.98809	1.0724
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
[illegible]	371.030	--	--	--	--	--	--

%RSD	.2711603	--	--	--	--		
#1	381233	--	--	--	--	--	--
#2	380573	--	--	--	--	--	--
3	382601	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 17:12:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0477	Q2.1740	Q2.1102	Q2.1294	Q2.1282	Q2.1799	Q2.1266
SDev	.2293	.2536	.2456	.2472	.2502	.2452	.2466
%RSD	11.200	11.664	11.639	11.611	11.757	11.249	11.596
#1	Q2.3125	Q2.4668	Q2.3938	Q2.4148	Q2.4172	Q2.4630	Q2.4114
#2	1.9174	2.0281	1.9682	1.9868	1.9836	2.0401	1.9844
#3	1.9132	2.0271	1.9686	1.9864	1.9840	2.0366	1.9841
Errors	QC Pass	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q2.1493	Q.31790	Q2.1413	2.0947	Q2.1343	Q2.1431	2.1167
SDev	.2515	.03601	.2454	.2403	.2409	.2395	.1991
%RSD	11.700	11.328	11.462	11.471	11.287	11.175	9.4057
#1	Q2.4397	Q.35949	Q2.4247	Q2.3722	Q2.4124	Q2.4196	2.3465
#2	2.0062	Q.29717	2.0002	1.9569	1.9989	2.0082	1.9985
#3	2.0020	Q.29706	1.9990	1.9551	1.9915	2.0015	2.0050
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Fail	QC Fail	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0849	2.1617	2.1343	2.1501	2.0736	Q44.043	Q42.740
SDev	.2236	.2258	.2019	.2030	.2162	5.036	5.004
%RSD	10.725	10.445	9.4622	9.4404	10.429	11.434	11.708
#1	2.3431	2.4224	2.3675	2.3844	2.3232	Q49.858	Q48.518
#2	1.9593	2.0320	2.0185	2.0265	1.9451	41.182	39.837
#3	1.9524	2.0308	2.0169	2.0396	1.9524	41.090	39.865

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail
Value						40.000	40.000
Range						5.0000	5.0000
Fe	[illegible]	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068

SDev	5.034	5.005	4.325	5.135	.2154	.2118	.2099
%RSD	11.688	11.515	12.383	11.589	10.280	10.091	9.7922
1	Q48.885	Q49.243	39.923	Q50.238	Q2.3443	Q2.3436	Q2.3858
2	40.163	40.593	Q32.501	41.471	1.9724	1.9722	2.0230
#3	40.169	40.556	Q32.364	41.223	1.9699	1.9814	2.0215
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Fail
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391839	--	--	--	--	--	--
SDev	35954.14	--	--	--	--	--	--
%RSD	9.175743	--	--	--	--	--	--
#1	350330	--	--	--	--	--	--
#2	413266	--	--	--	--	--	--
#3	411921	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 17:17:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00132	-.00135	-.00100	-.00161	-.00334	.00038	-.00148
SDev	.00001	.00016	.00009	.00008	.00026	.00044	.00004
%RSD	.43969	12.014	9.3956	4.7638	7.9095	117.11	2.6252
#1	-.00133	-.00118	-.00094	-.00169	-.00363	.00018	-.00151
#2	-.00132	-.00139	-.00111	-.00159	-.00311	.00007	-.00144
#3	-.00132	-.00150	-.00095	-.00154	-.00329	.00089	-.00150
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00209	-.00026	-.00280	-.00295	-.00443	Q-.01027	-.00381
SDev	.00099	.00018	.00016	.00023	.00181	.00078	.00120
%RSD	47.093	67.404	5.7702	7.7274	40.903	7.6285	31.513
#1	-.00099	-.00020	-.00276	-.00272	-.00287	Q-.00952	-.00367
#2	-.00242	-.00012	-.00266	-.00295	-.00400	Q-.01022	-.00269
#3	-.00288	-.00046	-.00298	-.00318	Q-.00641	Q-.01108	.00508
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	

Elem	220372	206871	206872	196071	196072	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00269	-.00159	-.00158	-.00208	-.00379	-.12266	-.00279
SDev	.00149	.00223	.00259	.00166	.00093	.00341	.00132
RSD	55.289	140.34	164.37	79.586	24.444	2.7807	47.270
#1	-.00232	-.00025	.00141	-.00400	-.00335	-.12314	-.00391
#2	-.00433	-.00417	-.00316	-.00119	-.00486	-.12581	-.00311
#3	-.00142	-.00035	-.00299	-.00106	-.00317	-.11904	-.00134
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01822	.01939	-.00442	-.07947	Q-.00304	-.00321	-.00157
SDev	.00378	.00842	.00824	.00303	.00063	.00065	.00222
%RSD	20.748	43.409	186.33	3.8119	20.538	20.416	142.13
#1	.02227	.02807	-.01313	-.07608	-.00275	-.00355	.00088
#2	.01477	.01883	.00326	-.08042	Q-.00376	-.00362	-.00348
#3	.01763	.01127	-.00340	-.08191	-.00262	-.00245	-.00209
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	422514	--	--	--	--	--	--
SDev	5512.002	--	--	--	--	--	--
%RSD	1.304572	--	--	--	--	--	--
#1	427259	--	--	--	--	--	--
#2	423816	--	--	--	--	--	--
#3	416468	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 17:35:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9287	2.0214	1.9571	1.9840	1.9820	2.0598	1.9860
SDev	.0011	.0036	.0043	.0038	.0031	.0027	.0028
%RSD	.05819	.17686	.21959	.19138	.15687	.13054	.14264
#1	1.9293	2.0183	1.9532	1.9817	1.9796	2.0602	1.9830
#2	1.9294	2.0205	1.9564	1.9818	1.9810	2.0622	1.9863

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
lem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9995	0.29706	2.0031	1.9574	1.9891	2.0108	2.0109
SDev	.0070	.00019	.0017	.0029	.0120	.0035	.0030
%RSD	.35180	.06538	.08405	.14933	.60565	.17467	.14906
#1	1.9956	0.29703	2.0014	1.9543	1.9776	2.0069	2.0089
#2	1.9952	0.29688	2.0031	1.9579	1.9882	2.0118	2.0143
#3	2.0076	0.29727	2.0047	1.9601	2.0016	2.0137	2.0095

Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9666	2.0406	2.0179	2.0509	1.9549	41.506	39.922
SDev	.0022	.0037	.0081	.0097	.0036	.066	.070
%RSD	.11111	.18174	.40371	.47132	.18191	.15958	.17428
#1	1.9685	2.0449	2.0085	2.0408	1.9580	41.558	39.852
#2	1.9671	2.0384	2.0220	2.0601	1.9558	41.528	39.922
#3	1.9642	2.0386	2.0231	2.0517	1.9510	41.431	39.991

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.224	40.664	Q32.684	41.808	1.9814	1.9859	2.0225
SDev	.053	.020	.081	.117	.0019	.0032	.0042
%RSD	.13294	.04992	.24711	.28069	.09360	.16171	.20768
#1	40.164	40.642	Q32.772	41.673	1.9820	1.9856	2.0206
#2	40.240	40.667	Q32.667	41.885	1.9829	1.9906	2.0275
#3	40.267	40.683	Q32.613	41.866	1.9793	1.9846	2.0283

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	409870	--	--	--	--	--	--
SDev	938.9872	--	--	--	--	--	--
%RSD	.2290939	--	--	--	--	--	--

#3	410777	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 17:40:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00102	-.00105	-.00081	-.00123	-.00291	.00082	-.00099
SDev	.00034	.00034	.00057	.00017	.00044	.00073	.00045
%RSD	32.877	32.639	69.748	14.087	15.052	88.898	44.970
#1	-.00066	-.00067	-.00020	-.00143	-.00302	.00125	-.00054
#2	-.00109	-.00115	-.00091	-.00110	-.00243	.00123	-.00101
#3	-.00132	-.00133	-.00132	-.00117	-.00329	-.00002	-.00143
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00195	-.00039	-.00250	-.00267	-.00424	Q-.00832	-.00654
SDev	.00042	.00020	.00080	.00038	.00077	.00316	.00258
%RSD	21.340	52.121	32.078	14.173	18.054	38.031	39.406
#1	-.00205	-.00054	-.00174	-.00224	-.00400	Q-.00682	-.00830
#2	-.00230	-.00016	-.00242	-.00282	Q-.00509	Q-.00619	-.00773
#3	-.00149	-.00046	-.00334	-.00295	-.00362	Q-.01195	-.00358
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00056	.00009	-.00262	-.00253	-.00087	-.19522	-.00218
SDev	.00265	.00362	.00039	.00381	.00203	.00410	.00058
%RSD	473.94	3853.8	14.768	150.69	232.88	3.0102	26.381
#1	-.00067	.00289	-.00243	-.00067	-.00319	-.14019	-.00283
#2	.00215	.00139	-.00306	-.00690	.00059	-.13200	-.00171
#3	-.00315	-.00400	-.00236	-.00000	-.00001	-.13646	-.00201
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01684	-.00010	.00920	-.06838	-.00253	-.00141	.00170
SDev	.01572	.00529	.00525	.01103	.00122	.00124	.00113
%RSD	93.326	5097.2	57.068	16.132	48.153	88.404	66.392

#2	.01853	-.00110	.00793	-.07171	-.00112	-.00189	-.00156
#3	.00035	-.00482	.01497	-.07737	@-.00327	.00001	-.00289
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
alue	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	419957	--	--	--	--	--	--
SDev	2397.994	--	--	--	--	--	--
%RSD	.5710098	--	--	--	--	--	--
#1	422635	--	--	--	--	--	--
#2	418009	--	--	--	--	--	--
#3	419226	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2810-MB1 Operator:
Run Time: 09/26/96 17:45:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00109	-.00138	-.00092	-.00148	.00032	.00201	-.00081
SDev	.00023	.00008	.00022	.00028	.00053	.00052	.00011
%RSD	21.169	5.6794	23.967	18.748	169.59	25.782	13.410
#1	-.00086	-.00134	-.00080	-.00117	-.00009	.00229	-.00078
#2	-.00109	-.00133	-.00079	-.00170	.00011	.00232	-.00072
#3	-.00132	-.00147	-.00118	-.00157	.00092	.00141	-.00094
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	-.00032	-.00298	-.00045	-.00500	L-.01362	-.00303
SDev	.00061	.00035	.00022	.00064	.00078	.00098	.00241
%RSD	487.52	107.11	7.4781	142.81	15.586	7.1643	79.544
#1	-.00081	-.00066	-.00319	.00010	-.00578	L-.01249	-.00173
#2	.00010	.00003	-.00300	-.00030	-.00423	L-.01421	-.00582
#3	.00034	-.00035	-.00274	-.00115	-.00499	L-.01416	-.00156

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NUCHEC..
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

%RSD	303.29	204.99	142.14	113.24	5248.2	3.9739	99.237
#1	.00047	-.00491	-.00016	-.01075	-.00361	-.11652	.01457
#2	.00107	.00162	-.00214	-.00448	.00207	-.12578	.01336
3	-.00066	-.00149	-.00013	.00041	.00172	-.11904	-.00127
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06234	.01806	.00894	-.04427	-.00080	-.00159	-.00105
SDev	.00752	.01128	.01002	.00512	.00050	.00386	.00060
%RSD	12.061	62.435	112.03	11.570	62.485	243.07	56.871
#1	.05537	.02881	.01007	-.03910	-.00024	L-.00597	-.00172
#2	.07031	.01905	.01835	-.04438	-.00120	-.00009	-.00087
#3	.06134	.00633	-.00159	-.04934	-.00094	.00130	-.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	414629	--	--	--	--	--	--
SDev	2530.609	--	--	--	--	--	--
%RSD	.6103303	--	--	--	--	--	--
#1	411710	--	--	--	--	--	--
#2	415979	--	--	--	--	--	--
#3	416199	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2810-MP2CONF FB Operator:
Run Time: 09/26/96 17:50:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04694	-.00163	-.00116	-.00167	-.00153	.00155	-.00096
SDev	.00281	.00023	.00028	.00046	.00054	.00108	.00010
%RSD	5.9749	13.822	24.433	27.729	35.013	69.533	10.804
#1	.04527	-.00147	-.00083	-.00114	-.00123	.00115	-.00087
#2	.04537	-.00153	-.00129	-.00190	-.00215	.00074	-.00094
#3	.05018	-.00189	-.00135	-.00197	-.00121	.00278	-.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
	[illegible]	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00150	-.00065	-.00388	.01143	-.00250	L-.01442	-.00111
SDev	.00044	.00024	.00123	.00060	.00092	.00295	.00260
%RSD	29.519	36.256	31.640	5.2663	36.599	20.481	233.44
#1	-.00159	-.00077	-.00296	.01104	-.00253	L-.01251	.00010
#2	-.00102	-.00081	-.00340	.01112	-.00340	L-.01783	-.00410
#3	-.00189	-.00038	-.00528	.01212	-.00157	L-.01293	.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00141	-.00061	-.00183	-.00297	-.00292	-.10870	.03566
SDev	.00134	.00325	.00199	.00291	.00066	.03086	.01107
%RSD	94.575	532.39	108.62	97.880	22.473	28.394	31.059
#1	.00005	-.00289	-.00066	-.00050	-.00220	-.12744	.04224
#2	.00272	.00312	-.00413	-.00617	-.00306	-.12557	.04186
#3	.00146	-.00206	-.00071	-.00223	-.00349	-.07307	.02287
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02733	.02576	.00869	-.01683	.00059	-.00292	-.00141
SDev	.00639	.00302	.00572	.00222	.00057	.00124	.00028
%RSD	23.388	11.713	65.850	13.178	96.906	42.341	19.896
#1	.03416	.02888	.00666	-.01880	.00009	-.00162	-.00138
#2	.02634	.02554	.01514	-.01727	.00047	-.00408	-.00170
#3	.02149	.02286	.00426	-.01443	.00122	-.00306	-.00114
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	406408	--	--	--	--	--	--
SDev	18886.54	--	--	--	--	--	--
%RSD	4.647187	--	--	--	--	--	--
#1	416756	--	--	--	--	--	--
#2	417859	--	--	--	--	--	--
#3	384609	--	--	--	--	--	--

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48916	.50882	.48580	.49258	.49723	.48919	.49699
SDev	.00161	.00284	.00286	.00272	.00297	.00199	.00281
%RSD	.32901	.55751	.58895	.55130	.59708	.40766	.56617
#1	.48929	.50931	.48609	.49242	.49690	.49007	.49784
#2	.48749	.50577	.48281	.48995	.49444	.48690	.49385
#3	.49071	.51138	.48851	.49538	.50035	.49058	.49928
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.60000	.60000	.60000	.60000	.60000	.60000
Low	.40000	.40000	.40000	.40000	.40000	.40000	.40000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49208	.19706	.48674	.49883	.48997	.46414	.49618
SDev	.00166	.00114	.00237	.00207	.00327	.00445	.00419
%RSD	.33738	.57626	.48626	.41587	.66807	.95808	.84395
#1	.49276	.19723	.48762	.49896	.49014	.46433	.49792
#2	.49019	.19584	.48406	.49669	.48661	.45960	.49140
#3	.49329	.19809	.48854	.50083	.49316	.46848	.49922
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.60000	.24000	.60000	.60000	.60000	.60000	
Low	.40000	.16000	.40000	.40000	.40000	.40000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Hi3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47849	.50080	.49387	.50574	.48138	4.7776	5.6191
SDev	.00223	.00664	.00373	.00171	.00327	.0185	.0367
%RSD	.46526	1.3251	.75440	.33760	.67916	.38774	.65282
#1	.47803	.50424	.49305	.50408	.48505	4.7819	5.6373
#2	.47653	.49315	.49063	.50566	.47877	4.7573	5.5768
#3	.48091	.50500	.49794	.50749	.48033	4.7936	5.6431
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						6.0000	6.6000
Low						4.0000	4.4000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.7393	5.4063	L2.5152	4.8308	.48440	.48951	.49619
SDev	.0386	.0304	.0136	.0135	.00277	.00183	.00444
%RSD	.67196	.56295	.54044	.27947	.57197	.37446	.89554
#1	5.7411	5.4168	L2.5005	4.8429	.48468	.49140	.49679
#2	5.6998	5.3720	L2.5177	4.8162	.48150	.48774	.49148
#3	5.7769	5.4301	L2.5273	4.8332	.48703	.48939	.50031

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07429	4.1061	1.7006	14.911	.07602	-.00079	.08402
SDev	.00613	.0107	.0019	.157	.00138	.00035	.00084
%RSD	8.2490	.26009	.11226	1.0523	1.8138	44.495	.99672
#1	.07790	4.1147	1.7028	15.074	.07729	-.00062	.08404
#2	.06721	4.0942	1.6994	14.761	.07455	-.00120	.08318
#3	.07775	4.1094	1.6995	14.898	.07623	-.00056	.08485
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	414620	--	--	--	--	--	--
SDev	2408.617	--	--	--	--	--	--
%RSD	.5809211	--	--	--	--	--	--
#1	411941	--	--	--	--	--	--
#2	415314	--	--	--	--	--	--
#3	416606	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2809-MB1 Operator:
Run Time: 09/26/96 18:05:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00049	-.00133	-.00096	-.00218	.00053	.00243	-.00070
SDev	.00013	.00009	.00010	.00027	.00038	.00030	.00009
%RSD	27.222	6.8907	10.394	12.586	71.454	12.554	12.197
#1	-.00041	-.00134	-.00085	-.00248	.00046	.00268	-.00065
#2	-.00042	-.00123	-.00103	-.00214	.00019	.00251	-.00066
#3	-.00065	-.00141	-.00101	-.00193	.00094	.00209	-.00080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	.00039	-.00337	-.00142	-.00410	L-.01310	.00476

#1	-.00251	.00019	-.00329	-.00125	-.00335	L-.01345	.00624
#2	-.00065	.00015	-.00343	-.00139	-.00777	L-.01298	.00507
#3	-.00210	.00083	-.00338	-.00163	-.00117	L-.01290	.00297
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00327	-.00372	-.00127	-.00736	.00275	-.10045	.07131
SDev	.00122	.00219	.00127	.00401	.00046	.00353	.01477
%RSD	37.404	58.927	99.355	54.454	16.799	3.5189	20.719
#1	-.00221	-.00121	-.00143	-.00673	.00327	-.09695	.07214
#2	-.00461	-.00470	.00006	-.00371	.00256	-.10039	.08565
#3	-.00299	-.00526	-.00245	-.01165	.00241	-.10402	.05613
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05920	.04017	.01703	-.00598	-.00057	-.00060	-.00207
SDev	.00639	.00543	.01452	.00293	.00105	.00145	.00113
%RSD	10.802	13.525	85.230	48.993	184.46	241.10	54.436
#1	.06137	.03466	.01702	-.00598	.00063	-.00004	-.00134
#2	.06423	.04552	.00252	-.00306	-.00136	.00049	-.00150
#3	.05200	.04032	.03155	-.00892	-.00098	-.00225	-.00337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	416877	--	--	--	--	--	--
SDev	1848.921	--	--	--	--	--	--
%RSD	.4435168	--	--	--	--	--	--
#1	414854	--	--	--	--	--	--
#2	417299	--	--	--	--	--	--
#3	418479	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2809-LC1 Operator:
Run Time: 09/26/96 18:10:54

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.77627	.60352	.41118	.51311	.33372	.86104	1.4096
SDev	.04175	.03498	.02392	.02945	.01991	.04648	.0806
%RSD	5.3780	5.7966	5.8186	5.7403	5.9650	5.3987	5.7170
#1	.75207	.58408	.39827	.49742	.32329	.83395	1.3651
#2	.82447	.64391	.43879	.54709	.35668	.91471	1.5026
#3	.75225	.58258	.39648	.49483	.32120	.83446	1.3610
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33721	.43418	.48589	.53218	.33515	.44361	.33827
SDev	.02046	.02414	.02702	.03118	.01900	.02737	.01674
%RSD	6.0681	5.5602	5.5615	5.8580	5.6699	6.1703	4.9478
#1	.32653	.42140	.47073	.51526	.32419	.43092	.32934
#2	.36081	.46202	.51709	.56816	.35709	.47502	.35769
#3	.32430	.41912	.46984	.51312	.32417	.42488	.32788
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32351	.17264	.16443	.71935	.69017	29.312	17.307
SDev	.01897	.00960	.00968	.03544	.03776	1.600	1.025
%RSD	5.8647	5.5595	5.8852	4.9265	5.4716	5.4569	5.9218
#1	.31209	.16707	.16247	.69845	.67225	28.441	16.778
#2	.34541	.18372	.17494	.76026	.73355	31.158	18.468
#3	.31302	.16713	.15588	.69933	.66470	28.336	16.654
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	56.181	11.954	10.097	1.1281	.32844	.69990	.16718
SDev	3.240	.680	.578	.0631	.01822	.03694	.00952
%RSD	5.7680	5.6863	5.7264	5.5963	5.5474	5.2777	5.6950
#1	54.444	11.617	9.7675	1.1029	.31786	.68099	.16402
#2	59.919	12.727	10.765	1.1999	.34948	.74247	.17786
#3	54.179	11.509	9.7596	1.0814	.31799	.67625	.15964

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Wavlen	371.030	--	--	--	--	--	--
'ge	429177	--	--	--	--	--	--
Dev	19487.21	--	--	--	--	--	--
%RSD	4.540597	--	--	--	--	--	--
#1	438957	--	--	--	--	--	--
#2	406737	--	--	--	--	--	--
#3	441838	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2809-D1 Operator:
Run Time: 09/26/96 18:16:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00228	-.00148	-.00117	-.00185	.00512	.04409	.00892
SDev	.00002	.00007	.00012	.00013	.00015	.00148	.00032
%RSD	1.0433	4.9635	9.9031	7.0506	2.9031	3.3492	3.5323
#1	.00231	-.00139	-.00128	-.00199	.00507	.04240	.00856
#2	.00227	-.00152	-.00119	-.00173	.00500	.04514	.00910
#3	.00227	-.00152	-.00105	-.00183	.00528	.04473	.00910
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00126	.00075	.00578	.00857	-.00303	L-.01205	.41539
SDev	.00025	.00019	.00040	.00023	.00124	.00273	.00652
%RSD	19.860	25.837	6.9573	2.7007	40.862	22.653	1.5699
#1	-.00148	.00089	.00597	.00830	-.00421	L-.00959	.40807
#2	-.00099	.00083	.00531	.00870	-.00315	L-.01157	.41755
#3	-.00132	.00053	.00605	.00870	-.00174	L-.01499	.42056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40089	.00206	.00272	-.00967	.00450	.76270	.23042
SDev	.00933	.00169	.00047	.00372	.00020	.03995	.01440
%RSD	2.3262	82.197	17.196	38.469	4.4806	5.2376	6.2476
#1	.39044	.00048	.00321	-.00957	.00450	.71672	.21603
#2	.40386	.00385	.00228	-.01344	.00463	.78596	.23040
#3	.40837	.00185	.00267	-.00600	.00427	.78240	.24483
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
						[illegible]	900.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9546	.11393	.04935	-.00584	.40574	-.00020	.00252
SDev	.0910	.00142	.00262	.00099	.00839	.00112	.00026
%RSD	3.0806	1.2500	5.2997	16.888	2.0684	556.96	10.546
#1	2.8502	.11237	.05224	-.00622	.39633	-.00010	.00232
#2	2.9960	.11517	.04713	-.00472	.40845	-.00137	.00282
#3	3.0176	.11424	.04868	-.00658	.41245	.00087	.00241
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	424301	--	--	--	--	--	--
SDev	10831.21	--	--	--	--	--	--
%RSD	2.552717	--	--	--	--	--	--
#1	436808	--	--	--	--	--	--
#2	417997	--	--	--	--	--	--
#3	418099	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2809-S1 Operator:
Run Time: 09/26/96 18:29:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9075	.04625	.04696	.48409	.20368	.29237	.51304
SDev	.0068	.00011	.00031	.00166	.00061	.00171	.00186
%RSD	.35694	.23133	.65150	.34372	.29948	.58617	.36253
#1	1.9026	.04613	.04665	.48229	.20298	.29110	.51117
#2	1.9153	.04633	.04726	.48557	.20408	.29432	.51489
#3	1.9047	.04628	.04698	.48440	.20398	.29171	.51306
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48381	.04821	.50269	.49272	1.8708	1.9064	.87616
SDev	.00066	.00050	.00138	.00271	.0102	.0226	.00642
%RSD	.13686	1.0288	.27392	.55082	.54559	1.1856	.73278
#1	.48306	.04764	.50138	.48976	1.8594	1.8823	.87214
#2	.48431	.04848	.50412	.49510	1.8739	1.9271	.88356

High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84828	.46635	.46466	1.8591	1.7682	3.2968	.59577
SDev	.00111	.00105	.00378	.0094	.0056	.0184	.00836
%RSD	.13095	.22504	.81279	.50617	.31839	.55806	1.4032
#1	.84731	.46721	.46622	1.8560	1.7639	3.2822	.59888
#2	.84805	.46518	.46741	1.8697	1.7661	3.3175	.60213
#3	.84949	.46666	.46035	1.8517	1.7746	3.2907	.58631
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.4306	.30405	.03817	-.00069	.85759	1.7985	.46524
SDev	.0123	.00655	.00792	.00300	.00217	.0034	.00240
%RSD	.27827	2.1549	20.739	438.00	.25267	.18782	.51572
#1	4.4266	.31063	.04002	.00268	.85560	1.7946	.46656
#2	4.4444	.30403	.02949	-.00165	.85990	1.8006	.46668
#3	4.4208	.29753	.04500	-.00309	.85727	1.8003	.46247
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	413496	--	--	--	--	--	--
SDev	968.8390	--	--	--	--	--	--
%RSD	.2343043	--	--	--	--	--	--
#1	414544	--	--	--	--	--	--
#2	412633	--	--	--	--	--	--
#3	413311	--	--	--	--	--	--

Method: EPA3 Sample Name: E14856-1 Operator:
Run Time: 09/26/96 18:34:50
Comment:

Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00386	-.00165	-.00152	-.00175	.00465	.05042	.01393
SDev	.00025	.00006	.00018	.00027	.00030	.00187	.00036

#2	.00371	-.00160	-.00133	-.00151	.00483	[illegible]	.01376
#3	.00371	-.00163	-.00167	-.00205	.00430	.04924	.01370
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	[illegible]1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00138	.00009	.00575	.01050	-.00461	-.00450	.40893
SDev	.00052	.00021	.00032	.00071	.00128	.00185	.00682
%RSD	37.331	238.82	5.6106	6.7882	27.774	41.196	1.6676
#1	-.00105	.00018	.00552	.01130	-.00400	-.00284	.41644
#2	-.00198	.00023	.00612	.01028	-.00375	-.00416	.40313
#3	-.00112	-.00015	.00561	.00992	-.00608	L-.00650	.40721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40009	.00525	.00349	-.01432	.00603	1.1133	.83797
SDev	.01644	.00050	.00141	.00608	.00179	.0449	.03380
%RSD	4.1101	9.5280	40.328	42.495	29.614	4.0326	4.0335
#1	.41906	.00516	.00296	-.01790	.00603	1.1650	.87616
#2	.39127	.00481	.00242	-.00729	.00782	1.0852	.82582
#3	.38993	.00580	.00508	-.01776	.00425	1.0896	.81192
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.8735	.41347	.04618	.01928	.40306	-.00073	.00409
SDev	.0967	.01459	.00809	.00704	.01313	.00311	.00110
%RSD	2.4955	3.5279	17.526	36.525	3.2572	426.91	26.943
#1	3.9851	.42945	.05547	.02729	.41821	-.00192	.00371
#2	3.8212	.41010	.04070	.01644	.39525	.00280	.00323
#3	3.8143	.40087	.04236	.01409	.39571	-.00307	.00534
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	406083	--	--	--	--	--	--

#1	396247	--	--	--	--	--	--
2	411192	--	--	--	--	--	--
3	410809	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 18:39:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9461	2.0509	1.9850	2.0118	2.0131	2.0810	2.0132
SDev	.0003	.0069	.0071	.0064	.0061	.0013	.0059
%RSD	.01373	.33818	.35957	.31918	.30382	.06338	.29147
#1	1.9461	2.0540	1.9875	2.0157	2.0174	2.0797	2.0162
#2	1.9458	2.0430	1.9769	2.0044	2.0061	2.0824	2.0064
#3	1.9463	2.0558	1.9905	2.0153	2.0158	2.0809	2.0170
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0280	Q.29684	2.0313	1.9824	2.0150	2.0339	2.0349
SDev	.0062	.00053	.0042	.0044	.0050	.0044	.0067
%RSD	.30511	.17780	.20864	.22113	.25060	.21804	.32955
#1	2.0231	Q.29717	2.0338	1.9844	2.0196	2.0338	2.0346
#2	2.0260	Q.29623	2.0264	1.9774	2.0096	2.0295	2.0283
#3	2.0350	Q.29712	2.0335	1.9854	2.0158	2.0383	2.0417
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9910	2.0681	2.0511	2.0847	1.9796	Q42.000	40.705
SDev	.0077	.0034	.0093	.0107	.0030	.012	.164
%RSD	.38676	.16477	.45126	.51179	.15091	.02882	.40195
#1	1.9936	2.0661	2.0508	2.0725	1.9785	Q42.012	40.799
#2	1.9823	2.0661	2.0421	2.0920	1.9773	41.988	40.516
#3	1.9970	2.0720	2.0606	2.0896	1.9830	Q42.001	40.801
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass

Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	40.987	41.241	Q33.126	41.652	2.0073	2.0098	2.0559
2	40.709	41.096	Q33.186	Q42.151	1.9977	2.0155	2.0501
#3	40.946	41.229	Q33.151	Q42.006	2.0119	2.0185	2.0644
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	402843	--	--	--	--	--	--
SDev	800.8835	--	--	--	--	--	--
%RSD	.1988077	--	--	--	--	--	--
#1	402071	--	--	--	--	--	--
#2	403670	--	--	--	--	--	--
#3	402789	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/25/96 18:45:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00069	-.00107	-.00041	-.00170	.00127	.00391	-.00067
SDev	.00014	.00020	.00012	.00009	.00034	.00056	.00016
%RSD	19.928	19.101	28.181	5.5849	26.591	14.300	23.514
#1	-.00085	-.00130	-.00043	-.00175	.00102	.00455	-.00084
#2	-.00062	-.00091	-.00052	-.00175	.00166	.00358	-.00063
#3	-.00060	-.00100	-.00029	-.00159	.00114	.00358	-.00054
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00227	-.00008	-.00310	.00032	Q-.00557	-.00462	.00196
SDev	.00053	.00022	.00001	.00054	.00061	.00543	.00177
%RSD	23.209	265.21	.21998	165.07	10.890	117.63	90.069
#1	-.00267	-.00019	-.00310	.00089	Q-.00564	.00164	.00398
#2	-.00167	-.00023	-.00310	.00027	Q-.00614	Q-.00807	.00121
#3	-.00245	.00017	-.00309	-.00018	-.00493	Q-.00743	.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Units	ppm						
Avge	-.00036	-.00126	-.00015	-.00393	.00112	-.13495	.00123
Dev	.00122	.00230	.00099	.00459	.00117	.00619	.01487
%RSD	336.82	182.46	654.67	116.74	104.52	4.5889	1207.4
#1	-.00126	-.00364	-.00010	-.00104	.00020	-.14107	.01563
#2	.00103	-.00110	-.00116	-.00922	.00072	-.13508	-.01408
#3	-.00085	.00095	.00081	-.00153	.00243	-.12869	.00215
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02159	.02837	.01096	-.03737	.00043	-.00055	-.00050
SDev	.00549	.00956	.01270	.00502	.00071	.00188	.00120
%RSD	25.425	33.694	115.94	13.429	164.75	343.35	237.75
#1	.01527	.03266	.02562	-.03258	.00051	-.00019	-.00126
#2	.02434	.01742	.00337	-.04259	.00111	-.00258	-.00113
#3	.02515	.03503	.00388	-.03693	-.00031	.00113	.00088
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	406237	--	--	--	--	--	--
SDev	3079.785	--	--	--	--	--	--
%RSD	.7581252	--	--	--	--	--	--
#1	408050	--	--	--	--	--	--
#2	407980	--	--	--	--	--	--
#3	402681	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2809-SD1 Operator:
Run Time: 09/26/96 18:50:06
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00042	L-.00673	L-.00420	-.00864	.00254	.05669	.01007
SDev	.00058	.00063	.00088	.00141	.00187	.00297	.00042
%RSD	138.68	9.3196	20.939	16.258	73.691	5.2388	4.2123
#1	-.00065	L-.00727	L-.00462	-.00933	.00040	.06012	.01044
#2	.00024	L-.00604	-.00318	-.00703	.00388	.05489	.01018
#3	-.00084	L-.00688	L-.00478	-.00958	.00332	.05506	.00961

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01107	-.00025	-.00640	.00622	L-.02037	L-.05529	.40569
SDev	.00188	.00261	.00167	.00154	.00535	.00699	.01220
%RSD	16.963	1063.0	26.088	24.754	26.261	12.644	3.0065
#1	-.01052	-.00212	-.00829	.00685	L-.02495	L-.04845	.41885
#2	-.00952	-.00135	-.00580	.00734	L-.02167	L-.06242	.39477
#3	-.01316	.00273	-.00512	.00446	L-.01449	L-.05500	.40346
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38111	-.00065	-.00060	-.03033	.00428	.53579	.87052
SDev	.00505	.00196	.00260	.01928	.00647	.06680	.05971
%RSD	1.3257	300.43	434.79	63.571	151.27	12.468	6.8593
#1	.38694	.00153	-.00166	-.04348	.00372	.61164	.92013
#2	.37840	-.00228	-.00250	-.00820	.01101	.51006	.80425
#3	.37799	-.00121	.00237	-.03933	-.00189	.48569	.88718
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na8989	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.7977	.49834	.12809	-.06087	.38942	L-.00716	-.00053
SDev	.0207	.03860	.01579	.02939	.00728	.01034	.00180
%RSD	.54396	7.7458	12.327	48.287	1.8702	144.33	339.06
#1	3.8053	.52327	.14185	-.03412	.39769	L-.01191	-.00051
#2	3.7743	.51787	.13155	-.05616	.38397	.00470	-.00234
#3	3.8135	.45388	.11085	-.09233	.38659	L-.01427	.00126
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	408261	--	--	--	--	--	--
SDev	6406.847	--	--	--	--	--	--
%RSD	1.569302	--	--	--	--	--	--
#1	401044	--	--	--	--	--	--
#2	413278	--	--	--	--	--	--

Method: EPA3 Sample Name: E14856-2 Operator:
Run Time: 09/26/96 18:55:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00229	-.00146	-.00096	-.00150	.02743	.01511	.00555
SDev	.00007	.00007	.00019	.00063	.00148	.00073	.00019
%RSD	3.2674	4.8896	20.200	42.021	5.3879	4.8584	3.3868
#1	.00220	-.00138	-.00103	-.00208	.02583	.01427	.00534
#2	.00234	-.00152	-.00074	-.00083	.02875	.01564	.00560
#3	.00232	-.00148	-.00110	-.00157	.02771	.01542	.00571
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00437	.00037	.01006	.00450	-.00168	L-.00889	.10714
SDev	.00067	.00084	.00044	.00042	.00082	.00348	.00221
%RSD	15.388	227.88	4.4087	9.2542	48.636	39.112	2.0612
#1	.00362	-.00054	.00976	.00406	-.00249	L-.01184	.10464
#2	.00491	.00112	.01057	.00455	-.00086	-.00498	.10885
#3	.00458	.00053	.00984	.00489	-.00170	L-.01005	.10792
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10029	.00005	.00083	-.01073	.00140	.95827	.23661
SDev	.00264	.00300	.00046	.00234	.00237	.03383	.01237
%RSD	2.6366	5714.8	55.849	21.783	169.64	3.5301	5.2263
#1	.09759	.00228	.00080	-.01264	-.00130	.91923	.22462
#2	.10042	.00125	.00130	-.01144	.00232	.97654	.23589
#3	.10287	-.00337	.00038	-.00812	.00317	.97902	.24932
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5814	.08802	.04103	.06459	.10260	-.00263	.00059
SDev	.1221	.00756	.01700	.00579	.00238	.00226	.00124
%RSD	2.6659	8.5934	41.432	8.9729	2.3165	86.261	212.20
#1	4.4439	.07962	.02292	.05835	.09996	L-.00506	.00131

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Hch	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	416461	--	--	--	--	--	--
SDev	7755.363	--	--	--	--	--	--
%RSD	1.862208	--	--	--	--	--	--
#1	425372	--	--	--	--	--	--
#2	411239	--	--	--	--	--	--
#3	412771	--	--	--	--	--	--

Method: EPA3 Sample Name: E14856-3 Operator:
Run Time: 09/26/96 19:00:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02177	-.00132	-.00103	-.00097	.02392	.42812	.07923
SDev	.00010	.00004	.00018	.00036	.00041	.00067	.00019
%RSD	.44135	2.7064	17.871	37.512	1.7295	.15599	.24550
#1	.02184	-.00131	-.00117	-.00067	.02410	.42878	.07942
#2	.02166	-.00129	-.00082	-.00087	.02422	.42744	.07903
#3	.02182	-.00136	-.00111	-.00137	.02345	.42815	.07923
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00173	.00292	.03989	.09537	.00230	L-.01568	3.2863
SDev	.00054	.00058	.00004	.00024	.00142	.00210	.0070
%RSD	31.037	19.819	.10357	.24736	61.730	13.419	.21303
#1	.00146	.00337	.03988	.09547	.00317	L-.01325	3.2943
#2	.00235	.00227	.03994	.09510	.00066	L-.01673	3.2813
#3	.00139	.00314	.03986	.09553	.00306	L-.01705	3.2834
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1823	.02911	.03225	-.00601	.00437	7.1199	1.6479
SDev	.0097	.00119	.00112	.00214	.00183	.0121	.0084

#2	3.1794	.02795	.03097	-.00527	.00234	7.1090	1.6446
#3	3.1932	.03033	.03300	-.00842	.00588	7.1179	1.6417
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.487	.68070	.17115	.14940	3.2170	.00093	.03122
SDev	.040	.01061	.01366	.00604	.0054	.00102	.00111
%RSD	.22832	1.5586	7.9837	4.0441	.16938	109.71	3.5622
#1	17.515	.69251	.18148	.15594	3.2143	.00183	.03156
#2	17.441	.67762	.17632	.14825	3.2134	-.00018	.02998
#3	17.504	.67197	.15566	.14402	3.2233	.00114	.03213
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	414376	--	--	--	--	--	--
SDev	1695.457	--	--	--	--	--	--
%RSD	.4091587	--	--	--	--	--	--
1	413267	--	--	--	--	--	--
#2	416328	--	--	--	--	--	--
#3	413534	--	--	--	--	--	--

Method: EPA3 Sample Name: E14856-5 Operator:
Run Time: 09/26/96 19:05:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00105	-.00158	-.00102	-.00148	.00538	.01299	.00400
SDev	.00014	.00004	.00002	.00009	.00012	.00022	.00008
%RSD	13.719	2.7981	1.5686	6.1975	2.2395	1.6933	1.9261
#1	.00122	-.00160	-.00104	-.00151	.00541	.01323	.00401
#2	.00098	-.00161	-.00101	-.00154	.00549	.01281	.00392
#3	.00095	-.00153	-.00101	-.00137	.00525	.01293	.00408

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

%RSD	84.935	812.38	4.7891	5.0515	25.170	5.9063	1.3607
	-.00202	-.00031	.00683	.00467	-.00660	L-.01453	.14388
#2	-.00219	-.00004	.00685	.00502	-.00392	L-.01321	.14766
#3	-.00003	.00050	.00742	.00456	-.00563	L-.01476	.14477
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13914	.00159	.00149	-.01048	.00475	.65944	.12319
SDev	.00178	.00263	.00065	.00250	.00225	.00947	.00710
%RSD	1.2818	165.51	43.562	23.824	47.359	1.4356	5.7599
#1	.14037	.00384	.00090	-.00760	.00215	.66528	.11933
#2	.13995	-.00129	.00218	-.01188	.00599	.66452	.11886
#3	.13709	.00221	.00139	-.01197	.00610	.64852	.13138
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.3364	.09246	.03875	-.00367	.14126	-.00031	.00154
SDev	.0123	.00796	.01234	.00330	.00146	.00067	.00044
RSD	.36975	8.6086	31.853	89.861	1.0342	216.55	28.805
#1	3.3490	.08419	.03019	-.00722	.14156	-.00108	.00190
#2	3.3359	.09313	.03316	-.00312	.14254	.00006	.00104
#3	3.3243	.10006	.05290	-.00068	.13967	.00010	.00168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	410540	--	--	--	--	--	--
SDev	2593.118	--	--	--	--	--	--
%RSD	.6316364	--	--	--	--	--	--
#1	408631	--	--	--	--	--	--
#2	409496	--	--	--	--	--	--
#3	413492	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:

Run Time: 09/26/96 19:10:28

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9483	2.0488	1.9846	2.0097	2.0126	2.0815	2.0117
SDev	.0038	.0022	.0041	.0013	.0027	.0031	.0023
%RSD	.19355	.10731	.20415	.06339	.13561	.14942	.11549
#1	1.9502	2.0477	1.9818	2.0091	2.0121	2.0830	2.0111
#2	1.9508	2.0475	1.9827	2.0089	2.0101	2.0837	2.0097
#3	1.9440	2.0514	1.9892	2.0112	2.0155	2.0780	2.0142
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0295	Q.29681	2.0291	1.9809	2.0131	2.0413	2.0409
SDev	.0039	.00042	.0012	.0030	.0023	.0046	.0040
%RSD	.19119	.13999	.06041	.15273	.11617	.22354	.19716
#1	2.0285	Q.29683	2.0280	1.9785	2.0115	2.0370	2.0441
#2	2.0262	Q.29639	2.0288	1.9800	2.0120	2.0461	2.0422
#3	2.0338	Q.29722	2.0304	1.9843	2.0158	2.0407	2.0364
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9866	2.0611	2.0494	2.0863	1.9818	Q42.008	40.745
SDev	.0021	.0040	.0048	.0017	.0071	.061	.076
%RSD	.10492	.19343	.23640	.08351	.35986	.14510	.18574
#1	1.9888	2.0643	2.0470	2.0868	1.9748	Q42.055	40.721
#2	1.9847	2.0566	2.0463	2.0877	1.9818	Q42.029	40.664
#3	1.9862	2.0623	2.0550	2.0843	1.9890	[illegible]	[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.895	41.203	Q33.138	Q42.047	2.0047	2.0166	2.0533
SDev	.040	.031	.074	.014	.0023	.0044	.0039
%RSD	.09758	.07505	.22228	.03332	.11401	.21589	.18873
#1	40.906	41.226	Q33.088	Q42.059	2.0073	2.0121	2.0528
#2	40.851	41.168	Q33.223	Q42.051	2.0039	2.0171	2.0498
#3	40.929	41.217	Q33.104	Q42.032	2.0029	2.0208	2.0575
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avge	403938	--	--	--	--	--	--
SDev	1280.505	--	--	--	--	--	--
%RSD	.317057	--	--	--	--	--	--
#1	405216	--	--	--	--	--	--
#2	403942	--	--	--	--	--	--
#3	402655	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 19:15:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00085	-.00112	-.00044	-.00169	.00161	.00347	-.00072
SDev	.00000	.00006	.00008	.00039	.00036	.00080	.00004
%RSD	.31587	5.7273	17.416	23.291	22.549	23.118	5.8922
#1	-.00085	-.00109	-.00046	-.00189	.00186	.00431	-.00070
#2	-.00085	-.00107	-.00050	-.00124	.00178	.00337	-.00077
#3	-.00085	-.00119	-.00035	-.00195	.00119	.00272	-.00070
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
alue	.00000	.00000	.00000	.00000	.00000	.00000	.00000
ange	.20000	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00106	-.00038	-.00307	.00022	-.00283	Q-.00691	.00101
SDev	.00039	.00031	.00047	.00069	.00204	.00415	.00158
%RSD	36.596	80.621	15.269	314.28	72.028	60.055	155.59
#1	-.00063	-.00003	-.00338	.00089	-.00282	.00482	-.00074
#2	-.00115	-.00062	-.00330	.00026	-.00496	Q-.01169	.00232
#3	-.00139	-.00050	-.00253	-.00049	-.00090	-.00422	.00147
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	-.00049	.00023	-.00611	.00138	-.14384	.00551
SDev	.00056	.00296	.00167	.00758	.00074	.00443	.00835
%RSD	78.897	602.40	710.62	124.10	53.150	3.0772	151.58
#1	.00127	.00220	.00206	-.01423	.00199	-.14103	.00092
#2	.00015	-.00000	-.00015	-.00486	.00159	-.14137	.00046
#3	.00071	-.00367	-.00121	.00077	.00057	-.14894	.01513

Range						.20000	5.0000
lem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01909	.02883	.01961	-.03671	.00083	-.00109	.00001
SDev	.01053	.00147	.01309	.00538	.00019	.00208	.00207
%RSD	55.146	5.0884	66.747	14.664	22.758	190.12	21331.
#1	.01615	.02721	.02884	-.03054	.00062	-.00339	.00212
#2	.01034	.02921	.00463	-.03913	.00089	-.00054	-.00008
#3	.03077	.03007	.02536	-.04046	.00098	.00065	-.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	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	408789	--	--	--	--	--	--
SDev	1193.528	--	--	--	--	--	--
%RSD	.2919669	--	--	--	--	--	--
#1	407432	--	--	--	--	--	--
#2	409257	--	--	--	--	--	--
#3	409677	--	--	--	--	--	--

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thod: EPA3 Sample Name: CRIA Operator:
Run Time: 09/26/96 19:22:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00131	-.00159	-.00104	-.00199	-.00056	.00091	-.00127
SDev	.00023	.00004	.00008	.00068	.00064	.00005	.00000
%RSD	17.710	2.4043	7.4407	34.342	114.87	5.8125	.12695
#1	-.00131	-.00156	-.00095	-.00168	.00007	.00097	-.00127
#2	-.00154	-.00157	-.00109	-.00277	-.00122	.00087	-.00127
#3	-.00107	-.00163	-.00108	-.00151	-.00052	.00090	-.00127
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00215	-.00033	-.00367	-.00227	0.01127	0.00470	.00513
SDev	.00108	.00039	.00022	.00007	.00129	.00245	.00154
%RSD	50.530	118.22	6.0488	3.2213	11.482	52.074	30.089

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00658	.00596	.00408	-.00164	.00801	-.14600	.00113
SDev	.00163	.00168	.00085	.00270	.00404	.00114	.00021
%RSD	24.746	28.234	20.816	164.91	50.489	.78050	18.620
#1	.00789	.00453	.00323	-.00429	.00539	-.14665	.00128
#2	.00710	.00553	.00492	.00111	.00597	-.14666	.00089
#3	.00476	.00782	.00409	-.00174	.01267	-.14468	.00123

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00073	.01298	.00878	-.06007	.00612	Q.00481	Q.00472
SDev	.00667	.00968	.00471	.00360	.00124	.00288	.00091
%RSD	907.94	74.614	53.655	5.9954	20.327	59.784	19.264
#1	.00443	.02093	.01222	-.05661	.00661	Q.00218	Q.00368
#2	-.00826	.00220	.00341	-.06380	.00705	Q.00437	Q.00514
#3	.00162	.01580	.01071	-.05979	.00471	.00789	Q.00535

rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	406620	--	--	--	--	--	--
SDev	820.9691	--	--	--	--	--	--
%RSD	.2019010	--	--	--	--	--	--
#1	406052	--	--	--	--	--	--
#2	407561	--	--	--	--	--	--
#3	406246	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:

Run Time: 09/26/96 19:28:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	.37564	.00792	.00817	.09435	.01752	.04701	.02747
#2	.37249	.00792	.00840	.09497	.01721	.04709	.02744
#3	.37529	.00784	.00823	.09495	.01744	.04775	.02736
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07260	.01801	.09326	.03594	.18319	.17511	.18775
SDev	.00096	.00039	.00031	.00005	.00429	.00434	.00170
%RSD	1.3215	2.1888	.33276	.13828	2.3441	2.4755	.90460
#1	.07153	.01795	.09356	.03589	.17897	.17342	.18920
#2	.07337	.01843	.09328	.03599	.18306	.17188	.18588
#3	.07290	.01765	.09294	.03594	.18755	.18004	.18818
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18797	.11476	.11080	.18676	.18085	-.14506	.00058
SDev	.00199	.00210	.00173	.00049	.00237	.00360	.00018
%RSD	1.0583	1.8324	1.5650	.26157	1.3093	2.4830	31.050
#1	.19013	.11379	.10988	.18731	.17864	-.14254	.00076
#2	.18622	.11331	.11280	.18659	.18056	-.14919	.00040
#3	.18756	.11717	.10971	.18638	.18335	-.14347	.00060
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00562	.00638	.00855	.00204	.18792	.18283	.11213
SDev	.00491	.00319	.00577	.00214	.00186	.00143	.00089
%RSD	87.405	50.039	67.476	104.77	.98955	.78315	.79790
#1	.00482	.00353	.00336	.00435	.18985	.18154	.11120
#2	.01088	.00983	.01476	.00013	.18613	.18258	.11299
#3	.00115	.00577	.00752	.00164	.18779	.18437	.11221
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

%RSD	.1749043	--	--	--	--	--	--
	408074	--	--	--	--	--	--
#2	409500	--	--	--	--	--	--
#3	408696	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 09/26/96 19:33:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00586	-.00200	-.00258	-.00205	-.00179	-.00634	-.00488
SDev	.00013	.00004	.00022	.00022	.00093	.00013	.00011
%RSD	2.2662	2.0955	8.5861	10.650	52.025	2.0256	2.1949
#1	.00591	-.00195	-.00283	-.00180	-.00076	-.00619	-.00476
#2	.00595	-.00202	-.00248	-.00221	-.00198	-.00639	-.00494
#3	.00570	-.00202	-.00242	-.00214	-.00261	-.00643	-.00494
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	-.00148	.00027	-.00636	-.00448	-.00388	Q-.00807	-.00997
SDev	.00056	.00081	.00014	.00006	.00243	.00107	.00800
%RSD	38.181	300.74	2.2370	1.2824	62.501	13.208	80.223
#1	-.00155	.00051	-.00637	-.00441	Q-.00668	Q-.00915	-.00089
#2	-.00088	-.00063	-.00621	-.00451	-.00261	Q-.00805	-.01594
#3	-.00200	.00093	-.00650	-.00451	-.00236	Q-.00702	-.01311
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00510	-.00142	-.00306	-.00679	.00214	530.30	426.32
SDev	.00576	.00329	.00537	.00546	.00249	3.19	1.25
%RSD	112.83	232.36	175.40	80.315	116.35	.60208	.29338
#1	-.00024	-.00365	.00288	-.01219	.00182	526.64	424.95
#2	.01121	.00236	-.00757	-.00691	-.00018	532.54	426.64
#3	.00434	-.00296	-.00449	-.00128	.00477	531.72	427.39

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

SDev	.76	2.46	.01798	.02489	.00188	.00312	.00279
RSD	.40198	.47215	58.617	5.4923	1706.6	380.88	111.78
#1	187.54	518.40	.05142	-.42444	-.00042	-.00283	.00072
#2	188.72	522.14	.01947	-.46828	.00220	-.00240	-.00425
#3	188.96	523.04	.02114	-.46678	-.00144	.00277	-.00396
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	377301	--	--	--	--	--	--
SDev	1105.289	--	--	--	--	--	--
%RSD	.2929461	--	--	--	--	--	--
#1	378575	--	--	--	--	--	--
#2	376730	--	--	--	--	--	--
#3	376598	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 09/26/96 19:38:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48753	.49211	.94415	.48021	.47824	.55314	.47854
SDev	.00582	.00791	.01518	.00723	.00817	.00566	.00752
%RSD	1.1944	1.6066	1.6078	1.5059	1.7086	1.0241	1.5723
#1	.49393	.50063	.96078	.48735	.48696	.55938	.48654
#2	.48610	.49069	.94065	.47906	.47700	.55173	.47748
#3	.48255	.48501	.93103	.47362	.47075	.54832	.47160
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97092	1.0431	.47367	.99705	1.0328	.96974	.97580
SDev	.01514	.0136	.00726	.01365	.0158	.01384	.01184
%RSD	1.5598	1.2997	1.5320	1.3691	1.5267	1.4267	1.1624

#1	.98723	1.0571	.48118	1.0116	1.0499	.98364	.98876
#2	.96821	1.0421	.47315	.99507	1.0297	.96962	.97100
#3	.95731	1.0301	.46669	.98451	1.0188	.95597	.96765
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95903	1.0742	1.0696	1.0393	.97388	532.53	423.77
SDev	.01798	.0230	.0075	.0062	.01498	7.20	7.34
%RSD	1.8743	2.1410	.70274	.59649	1.5384	1.3513	1.7311
#1	.97739	1.0958	1.0780	1.0464	.98845	540.20	431.33
#2	.95824	1.0767	1.0636	1.0350	.97469	531.47	423.30
#3	.94146	1.0500	1.0671	1.0364	.95852	525.93	415.68
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	189.40	524.58	.00558	-.47093	.96464	.99568	1.0711
SDev	3.07	7.90	.02097	.00289	.01560	.01167	.0116
%RSD	1.6202	1.5065	376.08	.61395	1.6176	1.1718	1.0810
#1	192.63	532.79	.02685	-.47368	.98120	1.0078	1.0840
#2	189.04	523.91	.00496	-.47120	.96252	.99481	1.0680
#3	186.52	517.03	-.01508	-.46791	.95021	.98448	1.0615
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	377733	--	--	--	--	--	--
SDev	4867.366	--	--	--	--	--	--
%RSD	1.288573	--	--	--	--	--	--
#1	372751	--	--	--	--	--	--
#2	377971	--	--	--	--	--	--
#3	382477	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 09/26/96 19:43:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9513	2.0612	1.9972	2.0191	2.0217	2.0860	2.0212
SDev	.0024	.0065	.0070	.0066	.0073	.0057	.0053
%RSD	.12206	.31423	.35253	.32586	.36322	.27088	.26413
#1	1.9486	2.0668	2.0032	2.0249	2.0277	2.0797	2.0240

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
ange	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0421	Q.29665	2.0384	1.9935	2.0181	2.0430	2.0511
SDev	.0048	.00105	.0044	.0057	.0060	.0108	.0099
%RSD	.23706	.35401	.21411	.28780	.29958	.52978	.48432
#1	2.0470	Q.29699	2.0411	1.9951	2.0248	2.0355	2.0476
#2	2.0373	Q.29547	2.0334	1.9872	2.0131	2.0380	2.0434
#3	2.0421	Q.29749	2.0407	1.9984	2.0164	2.0554	2.0623

Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9949	2.0599	2.0518	2.0934	1.9801	Q42.151	40.733
SDev	.0047	.0056	.0087	.0099	.0061	.098	.146
%RSD	.23460	.27356	.42289	.47147	.30609	.23334	.35745
#1	1.9902	2.0653	2.0558	2.0936	1.9840	Q42.059	40.832
#2	1.9950	2.0541	2.0418	2.0835	1.9731	Q42.139	40.566
#3	1.9996	2.0603	2.0578	2.1032	1.9832	Q42.255	40.802

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.038	41.375	Q33.287	Q42.185	2.0137	2.0179	2.0545
SDev	.127	.093	.093	.126	.0060	.0070	.0074
%RSD	.31062	.22557	.27929	.29969	.29745	.34877	.36176
#1	41.088	41.386	Q33.181	Q42.221	2.0094	2.0205	2.0590
#2	40.894	41.277	Q33.328	Q42.045	2.0111	2.0099	2.0459
#3	41.133	41.463	Q33.353	Q42.290	2.0205	2.0232	2.0586

Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	402565	--	--	--	--	--	--
SDev	586.5870	--	--	--	--	--	--
%RSD	.1457125	--	--	--	--	--	--

#3	402929	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 09/26/96 19:48:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00099	-.00138	-.00094	-.00148	.00020	.00379	-.00106
SDev	.00013	.00016	.00015	.00045	.00030	.00154	.00009
%RSD	13.238	11.248	16.390	30.614	150.92	40.741	8.3126
#1	-.00110	-.00125	-.00108	-.00196	-.00013	.00337	-.00116
#2	-.00102	-.00155	-.00097	-.00140	.00046	.00550	-.00098
#3	-.00084	-.00134	-.00078	-.00107	.00026	.00250	-.00105
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00115	-.00020	-.00383	-.00123	Q-.00587	Q-.01212	-.00054
SDev	.00025	.00056	.00088	.00051	.00203	.00311	.00157
%RSD	21.974	274.11	22.969	41.603	34.521	25.631	290.60
#1	-.00125	-.00050	-.00303	-.00068	Q-.00703	Q-.00970	.00019
#2	-.00086	-.00055	-.00477	-.00131	-.00353	Q-.01562	-.00234
#3	-.00133	.00044	-.00368	-.00170	Q-.00705	Q-.01104	.00053
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00038	-.00181	.00062	-.00599	.00117	-.11364	.01762
SDev	.00126	.00161	.00166	.00329	.00243	.03524	.00649
%RSD	333.82	88.931	269.50	54.888	208.85	31.011	36.830
#1	.00106	-.00081	.00252	-.00763	.00150	-.14318	.01202
#2	-.00127	-.00095	-.00046	-.00814	.00341	-.07463	.02473
#3	-.00093	-.00366	-.00022	-.00220	-.00142	-.12309	.01611
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03713	.04917	.01164	-.05878	-.00041	-.00120	-.00017
SDev	.00451	.00685	.00966	.00145	.00120	.00068	.00144

#2	.04057	.04519	.01424	-.05713	-.00160	-.00041	-.00060
#3	.03879	.05709	.01972	-.05984	-.00042	-.00166	-.00135
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	402081	--	--	--	--	--	--
SDev	21228.95	--	--	--	--	--	--
%RSD	5.279770	--	--	--	--	--	--
#1	420819	--	--	--	--	--	--
#2	379025	--	--	--	--	--	--
#3	406399	--	--	--	--	--	--

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Oct 03 1996, 10:40 am

File ID: IC1002W1.ASC
Analyst: MMC
Elements Reported:

Date Analyzed: 10/02/96
Run ID: MA2353

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:40	MA2353-ICV1	1		
13:45	MA2353-ICB1	1		
13:51	MA2353-CCV1	1		
13:56	MA2353-CCB1	1		
14:05	MA2353-CRIA1	1		
14:09	MA2353-CRI1	1		
14:17	MA2353-ICSA1	1		
14:22	MA2353-ICSAB1	1		
14:36	MP2810-SD1	5		E14856-4L See rerun. Possible analytical problem.
14:51	MP2810-SD1	5		E14856-4L
14:55	MA2353-CCV2	1		
15:00	MA2353-CCB2	1		
15:09	MA2353-CRIA2	1		
15:19	MA2353-CRI2	1		
15:25	MA2353-ICSA2	1		
15:29	MA2353-ICSAB2	1		
15:34	MA2353-CCV3	1		
15:39	MA2353-CCB3	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00000	-.00027	-.00010	-.00014	.00006	.00086	.00001
SDev	.00000	.00000	.00004	.00002	.00000	.00001	.00000
%RSD	173.21	1.3333	39.784	13.568	3.2897	.87557	25.068
#1	.00000	-.00027	-.00007	-.00012	.00006	.00085	.00001
#2	.00000	-.00028	-.00014	-.00013	.00006	.00086	.00001
#3	.00000	-.00027	-.00008	-.00016	.00007	.00087	.00002

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	-.00011	.00000	-.00014	.00002	-.00003	-.00130	.00125
SDev	.00004	.00002	.00000	.00001	.00005	.00011	.00023
%RSD	36.175	872.59	2.3258	51.309	174.57	8.5617	18.205
#1	-.00015	-.00002	-.00014	.00001	-.00003	-.00137	.00108
#2	-.00009	.00001	-.00014	.00003	.00002	-.00117	.00151
#3	-.00008	.00002	-.00014	.00002	-.00007	-.00436	.00115

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al13082	Ca3179
Avge	-.00019	-.00066	.00019	-.00042	.00089	.00337	.00001
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00001	[illegible]

#1	-.00006	-.00046	.00015	-.00037	.00108	.00337	.00001
#2	-.00028	-.00102	.00016	-.00042	.00080	.00338	.00001
3	-.00021	-.00050	.00026	-.00045	.00079	.00337	.00001

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00013	-.00002	.00009	.00021	.00021
SDev	.00007	.00001	.00001	.00003	.00000
%RSD	53.678	43.843	11.035	16.727	.78950
#1	.00016	-.00002	.00009	.00022	.00021
#2	.00005	-.00003	.00008	.00017	.00021
#3	.00018	-.00002	.00009	.00023	.00021

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	320045	--	--	--	--	--	--
SDev	2702.966	--	--	--	--	--	--
%RSD	.8445573	--	--	--	--	--	--
#1	323156	--	--	--	--	--	--
#2	318269	--	--	--	--	--	--
#3	318711	--	--	--	--	--	--

Method: EPA3 Standard: STDB

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00503	.04955	.10578	.03543	.02512	.02095	.01691
SDev	.00004	.00029	.00062	.00014	.00014	.00014	.00010
%RSD	.76738	.58258	.58596	.38313	.55152	.67855	.58558
#1	.00507	.04988	.10649	.03558	.02528	.02111	.01703
#2	.00501	.04942	.10549	.03532	.02506	.02088	.01686
#3	.00500	.04936	.10535	.03538	.02502	.02085	.01685

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.03585	.00387	.00466	.01009	.02129	.04709	.06929
SDev	.00031	.00002	.00003	.00011	.00017	.00002	.00093
%RSD	.87431	.52094	.63277	1.1304	.82285	.04893	1.3501
#1	.03617	.00389	.00470	.01023	.02129	.04710	.07036
#2	.03584	.00387	.00464	.01002	.02146	.04710	.06882
#3	.03554	.00385	.00465	.01003	.02111	.04706	.06867

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.05124	.05946	.03519	.01209	.03461	.04657	.00131
SDev	.00036	.00094	.00023	.00020	.00047	.00031	.00001
%RSD	.71249	1.5875	.65641	1.6573	1.3576	.66399	.61271
#1	.05090	.05839	.03541	.01231	.03417	.04693	.00132
#2	.05162	.06019	.03522	.01206	.03511	.04641	.00131
#3	.05120	.05980	.03495	.01191	.03456	.04638	.00131

%RSD	.49198	.80472	.26286
1	.04789	.03993	.00185
#2	.04749	.03936	.00185
#3	.04748	.03939	.00184

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	316249	--	--	--	--	--	--
SDev	2367.311	--	--	--	--	--	--
%RSD	.7485584	--	--	--	--	--	--
#1	313530	--	--	--	--	--	--
#2	317368	--	--	--	--	--	--
#3	317850	--	--	--	--	--	--

Method: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00987	.09873	.20911	.07036	.04961	.04065	.03336
SDev	.00012	.00127	.00270	.00092	.00066	.00059	.00044
%RSD	1.2265	1.2907	1.2928	1.3077	1.3393	1.4518	1.3139
#1	.00975	.09740	.20633	.06940	.04890	.04003	.03290
#2	.00988	.09884	.20927	.07045	.04972	.04073	.03342
#3	.00999	.09994	.21173	.07124	.05022	.04120	.03377

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.07124	.00769	.00941	.01981	.04217	.09531	.13708
SDev	.00079	.00007	.00013	.00026	.00025	.00181	.00091
%RSD	1.1043	.89833	1.3955	1.3028	.60206	1.9004	.66537
#1	.07048	.00763	.00927	.01953	.04190	.09323	.13617
#2	.07119	.00767	.00942	.01986	.04220	.09612	.13706
#3	.07205	.00777	.00953	.02004	.04241	.09658	.13800

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.10130	.11766	.06955	.02458	.06734	.07504	.00215
SDev	.00251	.00354	.00092	.00038	.00137	.00114	.00003
%RSD	2.4758	3.0134	1.3273	1.5440	2.0339	1.5183	1.3574
#1	.09847	.11361	.06870	.02444	.06577	.07383	.00212
#2	.10215	.11916	.06942	.02429	.06794	.07518	.00216
#3	.10327	.12020	.07054	.02501	.06830	.07609	.00218

Elem	Fe2714	Mg2790	Na5889
Avge	.07846	.06543	.00297
SDev	.00113	.00084	.00002
%RSD	1.4414	1.2904	.74148
#1	.07725	.06452	.00295

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	317941	--	--	--	--	--	--
SDev	1983.706	--	--	--	--	--	--
%RSD	.6239233	--	--	--	--	--	--
#1	319560	--	--	--	--	--	--
#2	318534	--	--	--	--	--	--
#3	315728	--	--	--	--	--	--

Method: EPA3 Standard: STDD

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.04821	.48671	1.0138	.34488	.24319	.19747	.16377
SDev	.00020	.00462	.0099	.00316	.00234	.00143	.00156
%RSD	.42299	.94933	.97469	.91706	.96196	.72251	.95098
#1	.04798	.48163	1.0030	.34137	.24055	.19583	.16202
#2	.04832	.48783	1.0159	.34578	.24401	.19636	.16426
#3	.04834	.49066	1.0225	.34750	.24501	.19823	.16502

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.34823	.09205	.20432	.46889	.65810	.49694	.12068
SDev	.00336	.00084	.00168	.00470	.00484	.00905	.00096
%RSD	.96423	.91486	.82189	1.0029	.73591	1.8220	.79340
1	.34448	.09111	.20251	.46363	.65376	.48665	.11963
#2	.34926	.09229	.20463	.47033	.65720	.50048	.12084
#3	.35095	.09274	.20582	.47270	.66332	.50368	.12154

Elem	1960/2	Na5889
Avge	.32323	.02193
SDev	.00560	.00014
%RSD	1.7331	.65047
#1	.31681	.02177
#2	.32572	.02204
#3	.32715	.02198

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	325201	--	--	--	--	--	--
SDev	1133.427	--	--	--	--	--	--
%RSD	.3485315	--	--	--	--	--	--
#1	326395	--	--	--	--	--	--
#2	325067	--	--	--	--	--	--
#3	324140	--	--	--	--	--	--

Elem	Ag3280	2068/1	2068/2
Avge	.03691	.55773	.33745
SDev	.00032	.04740	.00549
%RSD	.87064	8.4980	1.6281
#1	.03654	.50300	.33115
#2	.03713	.58490	.34121
#3	.03707	.58529	.34001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	323456	--	--	--	--	--	--
SDev	1379.293	--	--	--	--	--	--
%RSD	.4264235	--	--	--	--	--	--
#1	325048	--	--	--	--	--	--
#2	322700	--	--	--	--	--	--
#3	322620	--	--	--	--	--	--

Method: EPA3 Standard: STDF

Elem	V 2924
Avge	.04695
SDev	.00488
%RSD	10.398
#1	.04132
#2	.04952
#3	.05001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	324885	--	--	--	--	--	--
SDev	15987.56	--	--	--	--	--	--
%RSD	4.920996	--	--	--	--	--	--
#1	343319	--	--	--	--	--	--
#2	316524	--	--	--	--	--	--
#3	314811	--	--	--	--	--	--

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ethod: EPA3 Standard: STDG

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.58524	.01641	.60141	.52820	.09881	.02754
SDev	.01033	.00032	.01199	.01018	.00076	.00050
%RSD	1.7651	1.9708	1.9937	1.9265	.76789	1.8267
#1	.57384	.01604	.58786	.51673	.09832	.02700

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
wavlen	371.030	--	--	--	--	--	--
Avge	311152	--	--	--	--	--	--
SDev	3996.275	--	--	--	--	--	--
%RSD	1.284348	--	--	--	--	--	--
#1	315706	--	--	--	--	--	--
#2	309520	--	--	--	--	--	--
#3	308230	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 10/02/96 13:40:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0277	1.0118	1.0178	1.0186	1.0228	1.0284	1.0232
SDev	.0183	.0239	.0246	.0229	.0248	.0196	.0233
%RSD	1.7847	2.3647	2.4208	2.2456	2.4286	1.9105	2.2755
#1	1.0065	.98419	.98940	.99223	.99414	1.0057	.99636
#2	1.0378	1.0263	1.0321	1.0324	1.0385	1.0390	1.0372
#3	1.0388	1.0249	1.0320	1.0313	1.0357	1.0404	1.0361
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0193	.48965	.99508	1.0227	1.0140	1.0091	1.0165
SDev	.0216	.00956	.02256	.0231	.0257	.0212	.0194
%RSD	2.1166	1.9521	2.2676	2.2546	2.5312	2.1032	1.9120
#1	.99449	.47862	.96903	.99608	.98433	.98489	.99405
#2	1.0297	.49526	1.0086	1.0366	1.0281	1.0178	1.0278
#3	1.0337	.49509	1.0076	1.0355	1.0295	1.0245	1.0277
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NUCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0161	1.0267	1.0096	1.0150	1.0160	1.0370	Q1.1026
SDev	.0323	.0280	.0208	.0213	.0285	.0199	.0339
%RSD	3.1772	2.7231	2.0563	2.0980	2.8017	1.9145	3.0752
#1	.97891	.99455	.98603	.99053	.98337	1.0141	1.0635
#2	1.0363	1.0402	1.0175	1.0289	1.0287	1.0475	Q1.1235

Value						1.0000	1.0000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.0778	1.0284	Q.53511	1.0071	1.0163	1.0157	1.0153
SDev	.0300	.0215	.01405	.0178	.0280	.0260	.0231
%RSD	2.7879	2.0901	2.6258	1.7669	2.7551	2.5574	2.2784
#1	1.0438	1.0038	Q.54734	.98668	.98398	.98577	.98889
#2	Q1.1009	1.0432	Q.53822	1.0155	1.0335	1.0288	1.0251
#3	Q1.0886	1.0382	Q.51976	1.0192	1.0314	1.0325	1.0319
Errors	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	321688	--	--	--	--	--	--
SDev	4847.222	--	--	--	--	--	--
%RSD	1.506808	--	--	--	--	--	--
#1	327266	--	--	--	--	--	--
#2	318499	--	--	--	--	--	--
#3	319299	--	--	--	--	--	--

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Method: EPA3 Sample Name: ICB Operator:
Run Time: 10/02/96 13:45:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.00006	.00034	.00064	-.00037	.00056	.00014
SDev	.00015	.00001	.00009	.00031	.00024	.00021	.00009
%RSD	34.464	17.847	25.835	48.681	64.021	38.139	63.958
#1	.00034	.00007	.00039	.00029	-.00064	.00073	.00008
#2	.00034	.00005	.00024	.00087	-.00019	.00032	.00009
#3	.00059	.00005	.00039	.00077	-.00029	.00064	.00023
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00147	-.00009	.00044	.01086	-.00198	.00195	-.00358

#1	.00036	-.00008	.00085	.00938	[illegible]	[illegible]	[illegible]
#2	.00177	.00016	.00024	.01105	-.00355	.00335	-.00260
3	.00226	-.00036	.00024	.01194	-.00308	.00084	-.00224
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	-.00153	-.00058	.00153	-.00057	.00131	.02648
SDev	.00197	.00213	.00175	.00584	.00305	.00422	.00035
%RSD	668.55	138.83	299.90	381.34	533.94	321.39	1.3069
#1	.00254	.00092	.00089	-.00245	.00294	-.00354	.02606
#2	-.00051	-.00284	-.00251	-.00119	-.00203	.00407	.02667
#3	-.00114	-.00268	-.00012	.00824	-.00262	.00341	.02670
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00392	.00446	-.00567	-.00375	-.00097	.00015	-.00088
SDev	.00509	.00188	.01298	.00071	.00069	.00163	.00176
%RSD	129.57	42.188	228.80	18.963	71.528	1086.7	200.91
#1	-.00187	.00229	-.01971	-.00300	-.00018	.00117	.00092
#2	-.00972	.00555	.00589	-.00441	-.00124	-.00173	-.00260
#3	-.00019	.00555	-.00320	-.00383	-.00149	.00102	-.00095
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	326154	--	--	--	--	--	--
SDev	1566.077	--	--	--	--	--	--
%RSD	.4801649	--	--	--	--	--	--
#1	327961	--	--	--	--	--	--
#2	325311	--	--	--	--	--	--
#3	325190	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/02/96 13:51:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	1.9373	1.9816	1.9748	1.9780	1.9573	1.9934	1.9616
#2	1.9450	1.9831	1.9773	1.9796	1.9616	2.0049	1.9649
#3	1.9423	1.9886	1.9833	1.9858	1.9656	2.0008	1.9693
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9841	.23959	2.0030	1.9877	2.0068	2.0020	1.9928
SDev	.0040	.00063	.0037	.0037	.0014	.0097	.0080
%RSD	.20038	.26353	.18416	.18558	.07219	.48483	.39925
#1	1.9807	.23886	1.9989	1.9838	2.0052	1.9908	1.9842
#2	1.9832	.23996	2.0039	1.9881	2.0081	2.0077	1.9943
#3	1.9885	.23994	2.0061	1.9911	2.0071	2.0075	1.9999
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0041	2.0372	1.9941	2.0239	2.0243	39.534	39.003
SDev	.0100	.0142	.0123	.0160	.0086	.145	.091
%RSD	.49921	.69513	.61861	.79216	.42428	.36650	.23311
#1	1.9930	2.0217	1.9801	2.0063	2.0153	39.367	38.940
#2	2.0070	2.0406	1.9985	2.0278	2.0253	39.631	38.961
#3	2.0124	2.0494	2.0035	2.0377	2.0324	39.604	39.107
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.828	39.441	Q34.821	41.605	2.0004	2.0242	2.0085
SDev	.097	.085	.310	.142	.0093	.0110	.0129
%RSD	.25023	.21590	.89107	.34196	.46613	.54580	.64354
#1	38.745	39.349	Q35.170	41.454	1.9901	2.0124	1.9940
#2	38.805	39.456	Q34.716	41.626	2.0028	2.0261	2.0126
#3	38.935	39.517	Q34.577	41.736	2.0083	2.0342	2.0188
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--

%RSD	.3464740	--	--	--	--	--	--
	319382	--	--	--	--	--	--
#2	318242	--	--	--	--	--	--
#3	317177	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/02/96 13:56:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00045	.00066	.00059	.00038	.00081	.00044
SDev	.00015	.00004	.00019	.00077	.00067	.00017	.00016
%RSD	35.216	9.9087	28.121	131.83	176.87	20.708	36.940
#1	.00034	.00039	.00062	.00059	.00002	.00066	.00031
#2	.00060	.00047	.00086	.00136	.00115	.00099	.00062
#3	.00034	.00047	.00050	-.00019	-.00003	.00077	.00039
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	.00043	.00091	-.00033	-.00058	0.00543	.00070
SDev	.00060	.00113	.00036	.00013	.00097	.00221	.00162
%RSD	133.70	262.79	39.239	39.150	167.73	40.743	231.15
#1	.00087	.00008	.00070	-.00034	-.00056	0.00788	-.00074
#2	.00073	.00169	.00133	-.00020	.00038	.00337	.00246
#3	-.00024	-.00049	.00071	-.00046	-.00156	.00484	.00039
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	.00437	.00262	.00280	.00011	-.00003	.01275
SDev	.00176	.00233	.00200	.00320	.00164	.00393	.00051
%RSD	138.23	53.388	76.424	114.44	1433.8	11220.	4.0040
#1	.00194	.00650	.00337	.00612	.00197	.00266	.01248
#2	-.00072	.00188	.00413	-.00027	-.00045	.00177	.01334
#3-	.00260	.00472	.00035	.00254	-.00117	-.00454	.01243
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

SDev	.00656	.00457	.01876	.00222	.00076	.00204	.00131
%RSD	143.47	44.317	200.11	16.269	68.739	198.22	40.725
#1	-.00208	.00603	.00763	.01512	.00107	.00337	.00443
#2	.01103	.01513	.02895	.01477	.00036	-.00037	.00340
#3	.00475	.00978	-.00845	.01111	.00189	.00008	.00183
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	322144	--	--	--	--	--	--
SDev	2795.129	--	--	--	--	--	--
%RSD	.8676634	--	--	--	--	--	--
#1	323632	--	--	--	--	--	--
#2	318920	--	--	--	--	--	--
#3	323881	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 10/02/96 14:05:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.00014	.00033	.00031	.00011	.00055	.00017
SDev	.00000	.00001	.00009	.00026	.00033	.00019	.00008
%RSD	.96165	5.5330	28.369	85.559	299.04	34.321	45.719
#1	.00009	.00015	.00022	.00061	.00048	.00054	.00024
#2	.00009	.00013	.00038	.00019	-.00013	.00037	.00009
#3	.00009	.00013	.00039	.00012	-.00003	.00075	.00017
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00066	.00036	.00063	.00091	.01981	.01884	.00481
SDev	.00054	.00002	.00023	.00049	.00188	.00180	.00234
%RSD	81.865	6.8102	36.139	54.114	9.5131	9.5584	48.788
#1	-.00093	.00037	.00084	.00148	.02156	.01891	.00219
#2	-.00004	.00037	.00039	.00069	.02006	.01700	.00673
#3	-.00102	.00033	.00065	.00057	.01781	.02060	.00550

em	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
its	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00757	.00860	.00776	.00731	.00838	-.00455	.00796
SDev	.00056	.00065	.00092	.00245	.00324	.00469	.00829
%RSD	7.4134	7.5148	11.889	33.546	38.702	103.15	104.24
#1	.00769	.00932	.00799	.00634	.00712	.00037	-.00162
#2	.00696	.00808	.00855	.00549	.00596	-.00898	.01274
#3	.00807	.00838	.00674	.01010	.01207	-.00504	.01275
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01010	.00448	.00342	.00308	.00668	.00805	.00806
SDev	.00310	.00099	.00531	.00158	.00071	.00298	.00065
%RSD	30.737	22.108	155.32	51.285	10.565	37.038	8.0532
#1	.01340	.00559	-.00247	.00478	.00589	Q.00688	.00846
#2	.00724	.00369	.00487	.00280	.00691	Q.00582	.00841
#3	.00965	.00416	.00785	.00166	.00724	.01143	.00731
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	321505	--	--	--	--	--	--
SDev	1141.464	--	--	--	--	--	--
%RSD	.3550381	--	--	--	--	--	--
#1	320187	--	--	--	--	--	--
#2	322191	--	--	--	--	--	--
#3	322136	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 10/02/96 14:09:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41524	.01004	.01029	.10394	Q.03100	.05357	.03160
SDev	.00912	.00016	.00030	.00286	.00080	.00162	.00077
%RSD	2.1975	1.6239	2.8833	2.7523	2.5795	3.0247	2.4404

rrors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
alue	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08727	.01886	.10085	.04093	.19792	.20301	.20142
SDev	.00154	.00084	.00204	.00087	.00417	.00341	.00493
%RSD	1.7692	4.4594	2.0237	2.1283	2.1048	1.6784	2.4477
#1	.08574	.01803	.09928	.04048	.19442	.20017	.19774
#2	.08883	.01971	.10316	.04194	.20253	.20679	.20702
#3	.08725	.01884	.10012	.04038	.19681	.20207	.19949
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20454	.12243	.11810	.20125	.20068	-.00602	-.00190
SDev	.00521	.00462	.00316	.00524	.00484	.00993	.00091
%RSD	2.5487	3.7780	2.6738	2.6017	2.4101	164.96	47.964
#1	.20043	.11950	.11482	.20710	.19654	-.00792	-.00238
#2	.21040	.12776	.12112	.19966	.20599	.00472	-.00085
#3	.20278	.12002	.11837	.19699	.19950	-.01486	-.00247
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02862	.00006	.00593	.07538	.20353	.20089	.11956
SDev	.00487	.00274	.00931	.00246	.00512	.00270	.00352
%RSD	17.018	4356.6	157.14	3.2575	2.5147	1.3455	2.9416
#1	.02326	.00322	-.00328	.07470	.19956	.20008	.11640
#2	.03278	-.00160	.01534	.07811	.20930	.20391	.12335
#3	.02983	-.00143	.00572	.07334	.20171	.19869	.11894
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	322314	--	--	--	--	--	--
SDev	6610.484	--	--	--	--	--	--
%RSD	2.050947	--	--	--	--	--	--

#3	326471	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 10/02/96 14:17:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01192	.00428	.00222	.00500	.00356	-.00345	.00269
SDev	.00030	.00007	.00008	.00040	.00068	.00009	.00012
%RSD	2.5603	1.7231	3.4082	7.8989	19.107	2.6594	4.2699
#1	.01160	.00420	.00215	.00525	.00432	-.00355	.00260
#2	.01193	.00431	.00230	.00455	.00334	-.00344	.00282
#3	.01221	.00434	.00220	.00521	.00301	-.00337	.00265
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00509	.00046	-.00222	.00748	-.00032	Q.00835	-.00171
SDev	.00008	.00032	.00030	.00002	.00120	.00928	.00816
%RSD	1.5900	68.878	13.444	.31471	376.90	111.20	478.01
#1	.00516	.00065	-.00231	.00751	-.00126	-.00212	.00766
#2	.00512	.00009	-.00189	.00747	.00103	Q.01157	-.00722
#3	.00500	.00063	-.00248	.00747	-.00072	Q.01560	-.00556

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00017	.00259	.00155	-.00199	.00828	482.17	409.84
SDev	.00364	.01086	.00586	.00650	.00503	9.89	8.21
%RSD	2137.5	419.82	378.88	326.34	60.765	2.0504	2.0032
#1	-.00426	-.00995	.00726	.00313	.00303	470.77	400.36
#2	.00272	.00902	-.00445	-.00931	.01306	487.28	414.27
#3	.00102	.00868	.00183	.00020	.00874	488.45	414.88
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	181.68	496.32	-.00882	-.42078	-.00065	.00488	.00192
SDev	[illegible]	[illegible]	.00654	.00850	.00045	.00156	.00206

#2	183.84	501.77	-.00446	-.42516	-.00056	0.00564	.00006
[illegible]	183.95	502.76	-.01634	-.42618	-.00114	0.00592	.00414
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	298159	--	--	--	--	--	--
SDev	4760.735	--	--	--	--	--	--
%RSD	1.596710	--	--	--	--	--	--
#1	303653	--	--	--	--	--	--
#2	295575	--	--	--	--	--	--
#3	295249	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 10/02/96 14:22:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50722	.49677	.96825	.49033	.48290	.53863	.49626
Dev	.00302	.00405	.00828	.00366	.00280	.00294	.00405
%RSD	.59495	.81527	.85493	.74578	.58016	.54655	.81617
#1	.50574	.49389	.96226	.48866	.48160	.53633	.49343
#2	.51070	.50140	.97770	.49452	.48612	.54195	.50090
#3	.50524	.49503	.96479	.48780	.48099	.53763	.49443
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96876	1.1520	.47276	1.0494	1.0279	1.0008	.99615
SDev	.00628	.0082	.00351	.0083	.0097	.0115	.00399
%RSD	.64874	.71090	.74186	.78984	.94109	1.1515	.40087
#1	.96446	1.1471	.47011	1.0444	1.0231	.98850	.99885
#2	.97598	1.1614	.47674	1.0589	1.0390	1.0114	.99803
#3	.96585	1.1474	.47143	1.0448	1.0215	1.0024	.99156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

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Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179

%RSD	1.1756	2.2430	.55586	1.4974	2.5812	.66548	.81511
	.99432	1.0635	1.0732	1.0614	1.0101	495.04	421.08
#2	1.0180	1.1123	1.0732	1.0499	1.0635	500.95	427.42
#3	1.0071	1.0872	1.0629	1.0304	1.0400	495.42	421.88
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	188.40	517.22	.00833	3.9270	1.0031	1.0410	1.0758
SDev	1.53	4.30	.01016	.0201	.0078	.0163	.0091
%RSD	.81437	.83127	122.08	.51114	.77801	1.5687	.84514
#1	187.27	513.81	.02001	3.9164	.99587	1.0272	1.0700
#2	190.14	522.05	.00347	3.9501	1.0114	1.0590	1.0862
#3	187.78	515.81	.00150	3.9144	1.0020	1.0368	1.0710
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
Avge	291222	--	--	--	--	--	--
SDev	1475.787	--	--	--	--	--	--
%RSD	.5067572	--	--	--	--	--	--
#1	291752	--	--	--	--	--	--
#2	289554	--	--	--	--	--	--
#3	292359	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2810-SD1 Operator:
Run Time: 10/02/96 14:36:56
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1736	-.00038	.00158	.00131	.00207	.03132	.14468
SDev	.4153	.00002	.00123	.00221	.00204	.00536	.01907
%RSD	13.086	3.9796	77.702	169.17	98.731	17.106	13.183
#1	2.7396	-.00037	.00126	.00202	.00240	.02552	.12492
#2	3.2139	-.00037	.00055	-.00117	-.00012	.03234	.14614
#3	3.5673	-.00040	.00294	.00307	.00393	.03609	.16299
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00166	.00008	.00353	.68045	-.00373	.00785	.07956
SDev	.00209	.00132	.00068	.09237	.00089	.00563	.01587
%RSD	125.54	1669.7	19.383	13.574	23.761	71.814	19.942
#1	.00260	.00062	.00312	.58397	-.00462	.00195	.06419
#2	-.00073	-.00142	.00315	.68933	-.00373	.01317	.07861
#3	.00312	.00103	.00432	.76807	-.00285	.00841	.09588
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08822	.08798	.08807	.00613	.00409	.14176	15.424
SDev	.00573	.00563	.01389	.00613	.01868	.01706	2.045
%RSD	6.4965	6.3981	15.769	100.02	456.87	12.032	13.259
#1	.08315	.08172	.07892	.00301	.02537	.15896	13.265
#2	.08707	.08960	.08123	.00218	-.00353	.12485	15.676
#3	.09444	.09262	.10405	.01319	-.00958	.14147	17.332
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34088	4.0848	1.5308	15.641	.08549	.00488	.08815
SDev	.02046	.5140	.1610	2.075	.00908	.01140	.01077
%RSD	6.0010	12.584	10.519	13.265	10.620	235.69	12.221
#1	.34186	3.5487	1.3757	13.463	.07697	.01804	.07996
#2	.31995	4.1324	1.5194	15.866	.08444	-.00152	.08413
#3	.36083	4.5735	1.6972	17.594	.09504	-.00189	.10035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	321292	--	--	--	--	--	--
SDev	416.2996	--	--	--	--	--	--
%RSD	.1295703	--	--	--	--	--	--
#1	321437	--	--	--	--	--	--
#2	321617	--	--	--	--	--	--
#3	320823	--	--	--	--	--	--

Comment:
ae: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9454	-.00030	.00016	.00096	.00214	.02892	.13363
SDev	.0513	.00027	.00113	.00218	.00179	.00196	.00290
%RSD	1.7421	91.560	698.70	226.99	83.786	6.7837	2.1693
#1	2.9910	-.00054	.00092	.00289	.00419	.03030	.13623
#2	2.8898	-.00001	-.00114	-.00140	.00092	.02667	.13050
#3	2.9555	-.00034	.00070	.00140	.00129	.02978	.13416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00394	.00378	.00267	.63473	.00222	.00237	.07616
SDev	.00254	.00160	.00117	.01187	.00332	.00467	.01168
%RSD	64.469	42.415	43.798	1.8699	149.36	197.26	15.334
#1	.00136	.00555	.00162	.64580	.00072	-.00149	.08852
#2	.00643	.00337	.00245	.62219	-.00008	.00756	.07465
#3	.00403	.00243	.00393	.63619	.00602	.00103	.06531
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07360	.07627	.07800	.02144	-.00566	.03102	14.319
SDev	.00633	.01152	.00247	.01836	.02003	.05856	.201
%RSD	8.6008	15.098	3.1673	85.626	354.08	188.79	1.4055
#1	.06926	.06402	.07940	.00183	-.01978	.08931	14.488
#2	.07067	.07792	.07946	.03821	.01727	-.02780	14.097
#3	.08086	.08688	.07515	.02428	-.01446	.03155	14.373
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15330	3.7441	1.4493	14.777	.07461	.00348	.07753
SDev	.01853	.0991	.0949	.161	.00213	.01891	.00272
%RSD	12.086	2.6459	6.5471	1.0902	2.8558	543.49	3.5127
#1	.16218	3.8428	1.5541	14.910	.07583	L-.01247	.07439
#2	.13200	3.6447	1.4245	14.598	.07215	.02436	.07905
#3	[illegible]	[illegible]	[illegible]	14.934	.07584	-.00145	.07916

Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
ntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	326283	--	--	--	--	--	--
SDev	6026.450	--	--	--	--	--	--
%RSD	1.847001	--	--	--	--	--	--
#1	320347	--	--	--	--	--	--
#2	332396	--	--	--	--	--	--
#3	326106	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/02/96 14:55:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9427	1.9932	1.9811	1.9870	1.9691	2.0074	1.9702
SDev	.0025	.0048	.0050	.0062	.0061	.0050	.0058
%RSD	.12831	.24041	.25368	.30951	.30866	.24768	.29204
#1	1.9398	1.9878	1.9757	1.9802	1.9622	2.0021	1.9640
#2	1.9440	1.9949	1.9820	1.9887	1.9714	2.0080	1.9712
#3	1.9443	1.9969	1.9857	1.9921	1.9737	2.0120	1.9754
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9896	.23947	2.0107	1.9907	2.0113	2.0010	1.9983
SDev	.0042	.00103	.0055	.0059	.0091	.0160	.0022
%RSD	.21154	.43066	.27500	.29680	.45016	.80099	.11099
#1	1.9852	.23861	2.0048	1.9841	2.0020	1.9833	1.9975
#2	1.9936	.23918	2.0115	1.9925	2.0119	2.0051	1.9966
#3	1.9899	.24061	2.0158	1.9955	2.0201	2.0145	2.0008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0102	2.0482	1.9963	2.0318	2.0365	39.682	39.028
SDev	.0087	.0182	.0104	.0060	.0038	.183	.118
%RSD	.43401	.89032	.52276	.29582	.18533	.46138	.30140

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.933	39.572	Q34.834	41.814	2.0063	2.0350	2.0136
SDev	.108	.127	.271	.253	.0063	.0042	.0129
%RSD	.27834	.32128	.77770	.60393	.31226	.20858	.64278
#1	38.809	39.432	Q35.109	41.532	1.9996	2.0356	2.0012
#2	38.981	39.603	Q34.567	41.888	2.0073	2.0305	2.0126
#3	39.009	39.681	Q34.824	Q42.021	2.0120	2.0389	2.0270
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	316576	--	--	--	--	--	--
SDev	627.1175	--	--	--	--	--	--
%RSD	.1980940	--	--	--	--	--	--
#1	316960	--	--	--	--	--	--
#2	316915	--	--	--	--	--	--
#3	315852	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/02/96 15:00:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.00022	.00034	.00025	.00035	.00093	.00027
SDev	.00017	.00010	.00024	.00049	.00018	.00057	.00010
%RSD	38.320	44.522	71.144	197.35	51.684	61.124	38.165
#1	.00064	.00011	.00018	.00057	.00055	.00153	.00027
#2	.00035	.00027	.00023	-.00032	.00023	.00083	.00017
#3	.00034	.00029	.00063	.00049	.00025	.00042	.00038
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

	-.00003	.00035	.00008	-.00070	.00019	.00483	.00231
#2	-.00037	.00021	.00056	-.00071	-.00117	.00361	-.00044
#3	.00039	.00052	.00133	-.00072	-.00067	.00418	-.00009
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00096	.00045	.00072	-.00162	.00012	.00017	-.00124
SDev	.00127	.00065	.00228	.00823	.00076	.01540	.00147
%RSD	131.49	142.41	314.76	508.16	653.59	9115.0	118.48
#1	-.00037	.00117	.00262	.00697	.00040	.01719	.00035
#2	.00111	-.00008	.00137	-.00944	.00069	-.00390	-.00153
#3	.00215	.00028	-.00181	-.00240	-.00075	-.01278	-.00254
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00441	.00882	.00043	.00596	.00087	-.00044	.00066
SDev	.00692	.00124	.00424	.00318	.00049	.00273	.00164
%RSD	156.92	14.026	983.83	53.404	56.561	621.34	249.71
#1	.00978	.00966	.00411	.00912	.00055	.00261	.00216
#2	-.00339	.00939	-.00421	.00602	.00062	-.00266	.00090
#3	.00683	.00740	.00139	.00275	.00143	-.00127	-.00109
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	317683	--	--	--	--	--	--
SDev	10381.28	--	--	--	--	--	--
%RSD	3.267810	--	--	--	--	--	--
#1	306496	--	--	--	--	--	--
#2	319547	--	--	--	--	--	--
#3	327006	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 10/02/96 15:09:06
Comment:
Mode: CONC Corr. Factor: 1

Avge	.00009	.00007	.00034	.00032	-.00009	.00027	.00004
SDev	.00000	.00002	.00019	.00026	.00008	.00020	.00005
%RSD	1.2568	25.316	56.569	81.478	91.140	72.522	103.15
#1	.00010	.00009	.00015	.00004	-.00002	.00049	.00010
#2	.00009	.00008	.00033	.00037	-.00018	.00021	.00002
#3	.00009	.00005	.00054	.00054	-.00007	.00011	.00002
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00157	.00029	.00033	-.00002	.02159	.02424	.00682
SDev	.00093	.00008	.00005	.00015	.00076	.00126	.00070
%RSD	58.944	28.867	16.286	705.03	3.5355	5.1917	10.268
#1	-.00249	.00037	.00027	.00007	.02117	.02279	.00708
#2	-.00158	.00021	.00037	.00006	.02248	.02487	.00735
#3	-.00064	.00029	.00035	-.00020	.02114	.02507	.00603
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00730	.01003	.00782	.00790	.01232	-.00904	-.00167
SDev	.00113	.00077	.00125	.00248	.00270	.00182	.00021
%RSD	15.421	7.6318	16.023	31.441	21.884	20.165	12.386
#1	.00621	.00947	.00888	.01077	.01257	-.00803	-.00143
#2	.00724	.01090	.00644	.00637	.01488	-.01114	-.00181
#3	.00846	.00972	.00815	.00657	.00951	-.00794	-.00175
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00375	.00228	-.02300	.00340	.00717	.01087	.00858
SDev	.00391	.00434	.04106	.00102	.00059	.00201	.00058
%RSD	104.20	190.41	178.52	29.983	8.2025	18.498	6.8119
#1	.00632	.00608	-.07041	.00439	.00652	.01199	.00910
#2	-.00075	-.00245	.00068	.00345	.00730	.01207	.00795
#3	.00569	.00322	.00073	.00236	.00767	.00855	.00869
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

Wavlen	371.030	--	--	--	--	--	--
Avge	320519	--	--	--	--	--	--
SDev	1494.358	--	--	--	--	--	--
%RSD	.4662310	--	--	--	--	--	--
#1	318811	--	--	--	--	--	--
#2	321587	--	--	--	--	--	--
#3	321158	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 10/02/96 15:19:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41718	.00995	.01033	.10354	.02043	.05187	.03064
SDev	.00076	.00002	.00024	.00076	.00020	.00017	.00007
%RSD	.18162	.21396	2.3021	.73152	.98080	.31908	.22755
#1	.41744	.00997	.01018	.10268	.02022	.05176	.03057
#2	.41777	.00993	.01061	.10381	.02061	.05206	.03071
#3	.41632	.00996	.01022	.10412	.02045	.05180	.03062
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08051	.01749	.10112	.04032	.19862	.20339	.20193
SDev	.00142	.00034	.00023	.00005	.00386	.00352	.00297
%RSD	1.7608	1.9320	.22802	.11105	1.9428	1.7295	1.4686
#1	.07893	.01711	.10085	.04037	.19500	.20059	.19877
#2	.08097	.01777	.10125	.04029	.20268	.20224	.20465
#3	.08165	.01759	.10125	.04029	.19817	.20734	.20238
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20616	.12040	.11649	.20134	.20071	-.00734	-.00164
SDev	.00187	.00055	.00095	.00250	.00306	.00267	.00010
%RSD	.90782	.45253	.81831	1.2438	1.5266	36.425	6.0580
#1	.20543	.11977	.11542	.20215	.19731	-.00667	-.00173
#2	.20829	.12078	.11725	.19854	.20159	-.00506	-.00153
#3	.20476	.12064	.11680	.20335	.20324	-.01028	-.00166
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	-.00216	.00226	.06475	.20478	.20095	.11781
SDev	.00249	.00191	.00247	.00056	.00205	.00220	.00082
%RSD	627.63	88.364	109.24	.85672	.99971	1.0955	.69295
#1	.00310	-.00388	.00075	.06435	.20324	.19894	.11689
#2	-.00009	-.00011	.00092	.06539	.20710	.20060	.11845
#3	-.00181	-.00247	.00511	.06452	.20400	.20330	.11810
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	320331	--	--	--	--	--	--
SDev	720.2432	--	--	--	--	--	--
%RSD	.2248437	--	--	--	--	--	--
#1	320973	--	--	--	--	--	--
#2	319552	--	--	--	--	--	--
#3	320467	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 10/02/96 15:25:02

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01198	.00427	.00212	.00537	.00406	-.00358	.00261
SDev	.00011	.00006	.00022	.00033	.00037	.00013	.00014
%RSD	.90063	1.3667	10.238	6.1506	9.1380	3.7200	5.2007
#1	.01203	.00422	.00222	.00543	.00440	-.00360	.00246
#2	.01186	.00426	.00226	.00566	.00412	-.00370	.00267
#3	.01206	.00433	.00187	.00501	.00366	-.00344	.00271
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3713
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00442	.00035	-.00230	.00711	-.00024	0.00770	-.00602
SDev	.00097	.00010	.00026	.00030	.00277	.00405	.00329
%RSD	21.985	27.207	11.138	4.1892	1152.9	52.638	54.603
[illegible]	[illegible]	[illegible]	[illegible]	.00744	-.00341	.00302	-.00229

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
alue	.00000	.00000	.00000	.00000	.00000	.00000	
ange	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2703/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3174
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00247	.00900	-.00033	.00338	.01049	488.19	416.76
SDev	.00482	.00496	.00366	.00180	.00667	.45	3.00
%RSD	195.61	55.094	1108.2	53.911	63.560	.09251	.71982
#1	-.00308	.00335	.00247	.00427	.00480	487.70	413.30
#2	.00572	.01265	.00101	.00451	.01783	488.30	418.40
#3	.00475	.01099	-.00447	.00127	.00884	488.58	418.54
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	184.44	503.10	.01311	-.43170	-.00033	0.00814	.00280
SDev	.99	2.66	.00593	.00129	.00219	.00465	.00210
%RSD	.53886	.52777	45.221	.29956	660.75	57.169	75.172
#1	183.30	500.05	.01627	-.43314	-.00279	.00465	.00279
#2	184.93	504.36	.01679	-.43064	.00143	0.01342	.00491
#3	185.10	504.89	.00627	-.43132	.00037	0.00634	.00070
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

Calstd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	292020	--	--	--	--	--	--
SDev	1325.080	--	--	--	--	--	--
%RSD	.4537639	--	--	--	--	--	--
#1	293067	--	--	--	--	--	--
#2	290530	--	--	--	--	--	--
#3	292462	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 10/02/96 15:29:56
Comment:
Mode: CONC Corr. Factor: .

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50252	.49031	.95364	.48387	.47597	.53478	.48960
SDev	.00174	.00056	.00020	.00010	.00027	.00100	.00053

#2	.50291	.49096	.95377	.48376	[illegible]	[illegible]	[illegible]
#3	.50162	.49007	.95341	.48397	.476[illegible]	.53385	.48943

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95525	1.1341	.46736	1.0341	1.0206	.99272	.97988
SDev	.00346	.0012	.00006	.0016	.00[illegible]7	.00184	.00252
%RSD	.36174	.10920	.01184	.15055	.75288	.18480	.25732
#1	.95427	1.1339	.46741	1.0329	1.0149	.99071	.97700
#2	.95909	1.1355	.46738	1.0358	1.0293	.99429	.98093
#3	.95239	1.1330	.46730	1.0334	1.0176	.99317	.98170

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98976	1.0779	1.0553	1.0417	1.0234	492.44	417.00
SDev	.00609	.0056	.0011	.0039	.0064	.19	.60
%RSD	.61502	.51948	.10764	.37028	.62965	.03803	.14404
#1	.98442	1.0731	1.0540	1.0386	1.0168	492.42	416.31
#2	.99639	1.0840	1.0559	1.0460	1.0237	492.64	417.40
#3	.98846	1.0765	1.0560	1.0406	1.0237	492.27	417.29

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	185.86	510.64	.00049	3.9057	.98650	1.0295	1.0629
SDev	.19	.50	.00955	.0054	.00465	.0055	.0025
%RSD	.10086	.09868	1932.5	.13781	.47139	.53793	.23150
#1	185.71	510.06	.00753	3.9080	.98198	1.0241	1.0604
#2	186.07	510.94	-.01038	3.9094	.99127	1.0351	1.0653
#3	185.81	510.93	.00433	3.8995	.98624	1.0293	1.0629

Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
				--	--	--	--

#1	294766	--	--	--	--	--	--
2	295328	--	--	--	--	--	--
3	294469	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/02/96 15:34:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9736	2.0127	1.9990	2.0073	1.9908	2.0422	1.9933
SDev	.0015	.0036	.0052	.0042	.0020	.0034	.0035
%RSD	.07448	.17731	.26174	.21035	.10249	.16486	.17397
#1	1.9724	2.0088	1.9932	2.0031	1.9891	2.0384	1.9894
#2	1.9732	2.0159	2.0034	2.0115	1.9931	2.0434	1.9961
#3	1.9753	2.0132	2.0005	2.0073	1.9902	2.0448	1.9943
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0091	.24321	2.0368	2.0133	2.0306	2.0278	2.0228
SDev	.0044	.00019	.0029	.0040	.0026	.0155	.0099
%RSD	.21860	.07845	.14402	.20089	.12749	.76202	.48938
#1	2.0043	.24305	2.0335	2.0093	2.0283	2.0110	2.0136
#2	2.0129	.24316	2.0388	2.0173	2.0301	2.0308	2.0214
#3	2.0102	.24343	2.0383	2.0133	2.0334	2.0410	2.0333
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2066/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0282	2.0684	2.0213	2.0548	2.0471	40.507	39.379
SDev	.0117	.0150	.0101	.0109	.0056	.082	.064
%RSD	.57624	.72635	.49733	.52850	.27233	.20161	.16156
#1	2.0150	2.0511	2.0129	2.0448	2.0427	40.419	39.310
#2	2.0370	2.0764	2.0186	2.0531	2.0453	40.523	39.435
#3	2.0328	2.0777	2.0324	2.0663	2.0533	40.579	39.392
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

	39.257	40.111	036.019	042.709	2.0145	2.0434	[illegible]
	39.443	40.242	035.383	042.434	2.0318	2.0479	2.0379
#3	39.368	40.250	035.383	042.470	2.0330	2.0377	2.0470
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	311039	--	--	--	--	--	--
SDev	296.0360	--	--	--	--	--	--
%RSD	.0951764	--	--	--	--	--	--
#1	311226	--	--	--	--	--	--
#2	311194	--	--	--	--	--	--
#3	310698	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/02/96 15:39:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00034	.00065	.00047	.00058	.00110	[illegible]
SDev	.00015	.00004	.00024	.00036	.00017	.00010	.00004
%RSD	33.824	11.857	37.026	76.812	29.647	9.2644	11.633
#1	.00060	.00030	.00037	.00079	.00048	.00120	.00032
#2	.00035	.00033	.00081	.00008	.00048	.00110	.00039
#3	.00035	.00038	.00077	.00054	.00078	.00099	.00039
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	.00500	.00500	.05000	.01000	.02000	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	.00056	.00086	-.00029	-.00140	0.00538	-.00161
SDev	.00044	.00044	.00002	.00008	.00112	.00241	.00075
%RSD	383.19	78.535	1.7314	26.093	79.437	44.753	46.687
#1	.00038	.00025	.00086	-.00034	-.00265	0.00601	-.00125
#2	-.00026	.00037	.00084	-.00033	-.00051	.00272	-.00247
#3	-.00046	.00107	.00087	-.00020	-.00104	0.00742	-.00110
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
	[illegible]	.01000	.05000	.02000	.00500	.00500	

Avge	.0[illegible]188	.00289	.00166	.00206	.00626	.05886	.05202
Dev	.0[illegible]064	.00126	.00138	.00185	.00169	.01579	.00846
%RSD	34.[illegible]19	43.541	83.028	89.671	26.973	26.820	16.639
#1	.0[illegible]139	.00324	.00319	.00354	.00477	.07424	.07179
#2	.0[illegible]260	.00393	.00052	-.00001	.00592	.05963	.05727
#3	.0[illegible]163	.00149	.00127	.00264	.00809	.04270	.05700
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03644	.06765	.00809	.00734	.00074	.00488	.00209
SDev	.00949	.01415	.00158	.00146	.00020	.00124	.00100
%RSD	26.033	20.922	19.550	19.865	26.948	25.478	47.832
#1	.04631	.08042	.00807	.00865	.00054	.00438	.00323
#2	.03561	.07012	.00968	.00759	.00094	.00397	.00168
#3	.02739	.05243	.00652	.00577	.00075	0.00630	.00136
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	320675	--	--	--	--	--	--
SDev	431.7743	--	--	--	--	--	--
%RSD	.1346454	--	--	--	--	--	--
#1	320775	--	--	--	--	--	--
#2	320202	--	--	--	--	--	--
#3	321048	--	--	--	--	--	--

CLP

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... : 2809	PREP DATE..... : 9/25/96
METHOD BLANK..... : 2809	PREP TIME START :
	PREP TIME END :
LAB CONTROL CHECK : 2809	——>SOURCE LOT # ERA#228
MATRIX DUPE..... : 2809	——>LAB SAMPLE ID : E14856-1
MATRIX SPIKE ... : 2809	——>LAB SAMPLE ID : E14856-1

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP2809 MB1				20ml	10ml 1:1 HNO3	
	MP 2809 LC1	1.000g				5ml conc HNO3	
	MP2809 S1	1.00g				5ml HPS	2.0ml HPS + 2.0ml Ag
	MP2809 D1	1.00g				5ml 1:1	
	MP 2809 SD1					HC 1	
1	E14856-1	1.00g	96.8	0.968			
2	E14856-2	1.00	96.0	0.960			
3	E14856-3	1.00	29.0	0.290			
4	E14856-5	1.00	96.3	0.963			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→	SB						2.0ml HPS + 2.0ml Ag

this line is use for any additional QC requirements

SIGNATURE _____ DATE 9/25/96

COMMENTS MP 2809

9/26

CLP-SAMPLE DESCRIPTION LOG
FOR SAMPLE PREPERATION

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E14856-1	Tan	None			Sandy	
E14856-2	Tan	None			Sandy	
E14856-3	Brown	Yellowish Tan			Medium/Top water layer	
E14856-5	Tan	None			Sandy	
						"

Date of sample preperation: 9/25/96 Sample prepared by: Dipti

METALS BY ICAP DIGESTION LOG
WATER MATRIX

CLP

PREP BATCH..... :	2810	PREP DATE.....	9/25/96
METHOD BLANK..... :	2810	PREP TIME START	16:45
		PREP TIME END	23:00
LAB CONTROL CHECK :	2810	→SOURCE LOT # :	QC-19
MATRIX DUPE..... :	~~2810~~	→LAB SAMPLE ID :	—
MATRIX SPIKE ..... :	~~2810~~	→LAB SAMPLE ID :	—

	SAMPLE ID	PRES Y/N	VOLUME IN ML'S INITIAL	FINAL	ACID USED	COMMENTS
	MP 2810 MB		50ml	50ml	1.0ml	
	MP 2810 LC				(50ml 1:1	
					HNO_3	
					5ml 1:1	
					HCl	
1	E14856-4	Y				
2	Filtered Blank	Y				
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
→						

this line is used for any additional QC requirements

SIGNATURE Dipti DATE 9/25/96

COMMENTS MP2810

Limited sample volume received. Sample digested with 50 ml to 50 mL FV. Insufficient sample for MS & DUP.

CLP-SAMPLE DESCRIPTION LOG
FOR SAMPLE PREPERATION

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E14856	None	None	Clear	Clear		

Date of sample preperation: 9/25/96 Sample prepared by: Dirk

filter

~~METALS BY ICAP DIGESTION LOG~~

WATER MATRIX

PREP BATCH..... :	PREP DATE..... : 9/25/96 PREP TIME START : PREP TIME END :
METHOD BLANK..... :	
LAB CONTROL CHECK :	——>SOURCE LOT # :
MATRIX DUPE..... :	——>LAB SAMPLE ID :
MATRIX SPIKE ..... :	——>LAB SAMPLE ID :

	SAMPLE ID	PRES Y/N	VOLUME IN ML'S INITIAL	FINAL	ACID USED	COMMENTS
1	E14856-4					
2	Filter Blank					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
—>						

this line is used for any additional QC requirements

SIGNATURE Dipti DATE 9-25-96

COMMENTS Samples filtered through 0.45 micron filter paper and preserved

151

OLIDS
ETHOD REFERENCE: EPA 160.3M
MDL: 2.0
UNITS: %

Clp E74856

ANALYST: CM
DATE: 10-2-96

Start 0915 - w/2
(B) 10pd (A) end 0730 - w/3 (C)

GN6152

SAMPLE ID	G (WET) TOTAL WT	G TARE WT		G (WET) SAMP WT	G (DRY) TOTAL WT	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 E-14856-1	28.06	18.06	WH		27.78 ~~27.74~~		96.8	
E-14856-1 DUP	30.60	20.89	G		30.25		96.4	
2 E-14856 -2	28.43	20.28	R	8.15	28.10	7.82	96.0	
3 E-14856 -3	32.18	19.27	D	12.91	23.01	3.74	29.0	
4 E-14856 -5	26.66	17.78	Cx	8.88	26.33	8.55	96.3	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1 E-14856-3	32.18	19.27	D		28.01			
REDRY 2								

COMMENTS: 1 [illegible]
[illegible] 10-7-96

DATE:

ACCUTEST.

RECEIVED
OCT 10 1996
METCALF & EDDY, INC.
BRANCHBURG, NJ

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FOR
INORGANIC USEPA/CLP METHODS
(Multi-Media, Multi-Concentration)

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1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-PE-2

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No.: NA SDG No.: E15016

atrix (soil/water): SOIL Lab Sample ID: E15016-1

evel (low/med): LOW Date Received: 10/02/96

Solids: 89.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	9.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

PE-OVERSIZE

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No.: NA SDG No.: E15016

atrix (soil/water): SOIL Lab Sample ID: E15016-2

evel (low/med): LOW Date Received: 10/02/96

Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	104			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

olor Before: BROWN Clarity Before: Texture: MEDIUM

olor After: YELLOW Clarity After: Artifacts:

omments:

FORM I - IN

ILM02.1

2

SOL

Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: SARLE NWS

Job/Project Location: COLTS NECK NJ

Job/Project Number: 019855

Samplers: (Signatures)

Recorder: (Signature)

Date: 10-2-96

Lab (Samples Sent To): ACCUTEST

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX: Water	MATRIX: Soil	MATRIX: DUST ON ROCKS		COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED: TOTAL LEAD (ETP METHOD)							Total #	COMMENTS
10-2-96	8:06	NR-PE-2	NORTH RANGE SAMPLE		X	E1S016	1	C	N	X							←	24HR TURN TC
10-2-96	8:30	PE-OVERSIZE	OVERSIZE MATERIAL			X	1	C	N	X	←	ANALYZE DUST ON ROCKS FOR TOTAL LEAD (2 CONTAINERS SAMPLED)					←	24HR TURN

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
	10-2-96	14:15	~~Relinquished By: (Signature)~~ REC. BY 10/2/96 14:15		10/2/96	15:30	
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	

Method of Shipment:

FULL/CLP

SAMPLE PROPERTY ON ICE AT ACCUTEST

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

3

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R-VAN BLANCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 10/2/96	Military Time Seal Broken 1530
Accutest Job No.	Analytical Parameter/Fraction Pb	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E15016-1			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
10/2/96	1600	PRINTED NAME R-VAN BLANCOM SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
10/3/96	1000	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	Metals Prep
10/3/96	1100	PRINTED NAME Patel, Dipti S. SIGNATURE D. S. Patel	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
10/4/96	1100	PRINTED NAME Patel, Dipti S SIGNATURE D. S. Patel	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	Digest Storage
10/4/96	1515	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	ICP Analysis
10/4/96	1700	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	Hold
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R-UN BLANCO	Title MANAGER
Field Sample Seal No. N/A	Date Broken 10/2/96	Military Time Seal Broken 1530
Accutest Job No.	Analytical Parameter/Fraction Pb	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E15016-2			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
10/2/96	1600	PRINTED NAME R-UN BLANCO SIGNATURE [illegible]	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	STORAGE
10/3/96	14:45	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	PRINTED NAME Brent Bissp SIGNATURE Brent Bissp	Metal Prep
10/3/96	15:30	PRINTED NAME Brent Bissp SIGNATURE Brent Bissp	PRINTED NAME Ralph Casson SIGNATURE Ralph Casson	Storage
10/9/96	17:15	PRINTED NAME Brent Bissp SIGNATURE Brent Bissp	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	ICP Analysis
10/10/96	20:00	PRINTED NAME Naiem Sedrak SIGNATURE Naiem Sedrak	PRINTED NAME Naiem Sedrah SIGNATURE Naiem Sedrak	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name RUN BLANCON	Title MANAGER
Field Sample Seal No. N/A	Date Broken 10/2/96	Military Time Seal Broken 1530
Accutest Job No.	Analytical Parameter/Fraction % SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E15016-1			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
10/2/96	1600	PRINTED NAME RUN BLANCON SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	STORAGE
10/3/96	0805	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	PRINTED NAME Lou MacLean SIGNATURE [signature]	Analysis
10/3/96	0830	PRINTED NAME Lou MacLean SIGNATURE [signature]	PRINTED NAME Ralph Cason SIGNATURE Ralph Cason	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Cooler & Accepting Responsibility for Sample:	Name R. VAN BLARCOM	Title MANAGER
Field Sample Seal No. N/A	Date Broken 10/2/96	Military Time Seal Broken 1530
Accutest Job No.	Analytical Parameter/Fraction % SOLIDS	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
E15016-2			

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
10/2/96	1600	PRINTED NAME R. VAN BLARCOM SIGNATURE	PRINTED NAME Ralph Carson SIGNATURE Ralph Carson	STORAGE
10/3/96		PRINTED NAME Ralph Carson SIGNATURE Ralph Carson	PRINTED NAME H. O'Brien for Joe McLean SIGNATURE	Solids
10/3/96		PRINTED NAME H. O'Brien for Joe McLean SIGNATURE	PRINTED NAME Ralph Carson SIGNATURE Ralph Carson	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INORGANIC METHODOLOGY SUMMARY - SOIL MATRIX

All methods used for inorganic analysis are referenced from "Methods for Chemical Analysis of Water and Wastes" or from "test Methods for Evaluating Solid Wastes".

Sample Preparation for Inorganic Elemental Analysis.

A representative 1g (nominal weight) sample is digested with nitric acid and hydrogen peroxide. If the digestate is to be analyzed for Sb by graphite furnace AAS or any other metals by flame AAS or ICP, a final reflux with hydrochloric acid is also done. After digestion, the sample is filtered and brought up to the final volume with DI water. A separate aliquot of the sample is dried for the percent solids determination.

Metals by Graphite Furnace Atomic Absorption.

A representative aliquot of the digested soil sample is placed in a graphite tube in the furnace. It is evaporated to dryness, and then charred and atomized at controlled temperatures. When the sample becomes atomized, radiation from a given excited element is passed through vapor containing ground state atoms of that element. The intensity of the transmitted radiation decreases in proportion to the amount of the ground state element vapor. A light beam from an element specific lamp is passed through the vapor into a monochromator and onto a detector that measures the amount of light absorbed. Since the wavelength of the light beam is characteristic of only the metal being determined, the light energy absorbed by the vapor is a measure of the concentration of that metal in the sample. For quantitation purposes, a series of at least four standards is analyzed to generate a linear calibration curve in the appropriate concentration range. For all furnace analyses, Zeeman background correction is applied and matrix modifiers are used.

Metals By Flame Atomic absorption.

For flame AAS, the digested soil sample is aspirated and atomized in a flame. A light beam from an element specific lamp is directed through the flame into a monochromator and onto a detector that measures the amount of light absorbed. From this point, the principle is essentially the same as with the graphite furnace atomic absorption spectrophotometer.

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Metals by Inductively Coupled Plasma (ICP)

Icp is a technique for simultaneous or sequential multielement determinations. The basis of this method is the measurement of atomic emission by an optical spectroscopic technique. Samples are nebulized and the aerosol that is produced is transported to the plasma torch where excitation occurs. Characteristic atomic-line emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer and the intensities of the lines are monitored by photomultiplier tubes. The photocurrents from the photomultiplier tubes are processed and controlled by computer. Quantitation is performed similarly to graphite furnace absorption, except that the instrument is calibrated with a minimum of a blank and a standard. Linear range and IDL studies are done quarterly on each instrument.

Mercury by Manual Cold Vapor for Soils.

A measured volume of sample is acid digested utilizing an autoclave. Mercury is the analyzed by a flameless AA procedure based on the absorption of radiation at 253.7 nm by mercury vapor. Organic mercury compounds are oxidized and the mercury is reduced to the elemental state and aerated from the solution in a closed system. The mercury vapor is passed through a cell positioned in the path of a spectrophotometer. Absorbance is measure as a function of the mercury concentration. All standards and blanks are prepared in the same way as the samples. A minimum of a blank and four standards are analyzed to generate an appropriate calibration curve that can be used to quantitate the samples.

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Inorganics Conformance Summary
for Job E15016

Note 1: The results on the CLP forms may differ slightly from those on the raw data due to rounding differences.

Note 2: Comments on specific analysis results are listed by analysis type below. If no problems were encountered on a run, no comments are included below.

Note 3: The ICP analyses were done using the TJA Trace ICP. On this ICP, there are two lines for lead, antimony, and selenium. Two lines are used so that a background correction calculation can be applied and a single result reported. However, separate interfering element corrections are required for each line. On forms 11a and 11b, the corrections are shown for each line by entering two headings for each of the interfering elements.

Note 4: Due to space considerations, only abbreviations of the sources could be entered on forms 2A, 2B, 4 and 7. A full list of sources for all QC check standards follows this conformance summary.

Note 5: Sample PE-OVERSIZE consisted of large rocks with a thin coating of dirt. As per client instructions, the dirt was scrapped off of the rocks and analyzed for lead and percent solids.

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Standard Source Lots

Standard Sources

All regular metals-Inorganic Ventures: #L-MEB54104

Al, Ca, Fe, Mg, K, Na-Inorganic Venture: #L-MEB56113

Ag-MV Laboratories: #AgP11

V-MV Laboratories: #VP101

ICV & CCV Sources

All regular metals-Environmental Express: #690220

Ag-Ultra Scientific: #94701070

Al-MV Laboratories: #ALP101

Ba-MV Labs: #BAP1I

K-Spex: #K4-61K

Na-MV Labs: #NAP10L

Fe-Ultra Scientific: #1C-0130

Mg-Ultra Scientific: #1011201113

Ca-MV Laboratories: #W1295MS

AGENT LOG-ICP STANDARDS

STANDARD NAME: CRIA - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
6-25-96	AS	fisher	960121 A-24	11-97	0.4	100	NS
	TL	Baker	J02568	1-97	0.4	100	
	Pb	SPEX	4-5895	6-96	0.12	100	
	Se	fisher	950335 A-18	8-96	0.20	100	
	Sb	fisher	940011 D-24	7-96	0.20	100	

AGENT LOG-ICP STANDARDS

STANDARD NAME: CRI - Intermediate

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
8-1-96	Ba	MV LAB	BAP11	3-97	60	100	
	CO	MV LAB	COP1F	1-97	1.2 ~~1.6~~		
	Ag	MV LAB	AGP11	5-97	0.4		
	Sb	MV LAB	SBP11	3-97	2.4		
	B	Fisher Sc	955017-24	Sep 1997	2.0		
	V	MV LAB Intern	VP10	10-22-93	2.0		
	MO	Fisher	953632-24	Jun 1997	2.0		
	AS TL Pb Se	High Purity Std	591222	1-97	0.75		
	Ba As Mn Ni Be Se Co Na Cd	High Purity Std	591227	1-97	2.0		
	Pb Zn Cr TL Cu						

REAGENT LOG-ICP STANDARDS

S. .DARD NAME: ICSA

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL.	INITIALS
10-1-96	Mg	[illegible] Lab	P295 LMS	4-97	50	1000	JZ2
↓	AL	↓	ALP10J	8-97	50	↓	↓
↓	Ca	↓	W1295 MS	6-97	50	↓	↓
↓	Fe	↓	FEP10M	7-97	20	↓	↓

P[illegible]GENT LOG-ICP STANDARDS

STANDARD NAME: ICSAB

DATE	ELEMENT	MANUFACTURER	LOT	EXPIRATION DATE	ML	FIN. VOL	INITIALS
10-[illegible]-96	Mg	MV Labs	P295 LMS	4-97	50	1000	JXZ
	AL		ALP10J	8-97	50		
	Ca		W1295 MS	6-97	50		
	Fe		FE P10M	7-97	20		
	As	VWR Scientific	VW 4202-1	5-97	1.0		
	TL	Baker	J02568	1-97	1.0		
	Se	VWR Scientific	VW4223-1	5-97	1.0		
	Sb	Fisher	940011P -24	3-97	1.0		
	Ag Cd Ni Pb Zn Ba Be Co Cr	Environmental EXPRESS	690520	9-97	10		
	Cu Mn V						

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INORGANICS COMPLETE SDG FILE (SCF) INVENTORY SHEET

LABORATORY NAME : ACCUTEST LABORATORY
CITY/STATE : DAYTON, NJ

CASE NO.: _____ SDG NO.: E15016 SDG NOS. TO FOLLOW: _____
SAS NO.:

CONTRACT NO.: SOW NO.: USEPA CLP INORGANICS SOW DOCUMENT IML 2.0

	PAGE NOs. FROM	TO	CHECK LAB	REGION
1. Inventory Sheet (Form DC-2) (Do not number)	16	17	✓	
2. SDG Case Narrative	10	15	✓	
3. Cover Page	18	18	✓	
4. Inorganic Analysis Data Sheet (Form I-IN)	19	20	✓	
5. Initial & Continuing Calibration Verification (Form IIA-IN)	21	24	✓	
6. CRDL Standards for AA and ICP (Form IIB-IN)	25	26	✓	
7. Blanks (Form III-IN)	27	29	✓	
8. Interference Check Sample (Form IV-IN)	30	31	✓	
9. Spike Sample Recovery (Form VA-IN)	32	32	✓	
10. Post Digest Spike Sample Recovery (Form VB-IN)	N/A	N/A	N/A	
11. Duplicates (Form VI-IN)	33	33	✓	
12. Laboratory Control Sample (Form VII-IN)	34	35	✓	
13. Standard Addition Results (Form VIII-IN)	N/A	N/A	N/A	
14. ICP Serial Dilutions (Form IX-IN)	36	36	✓	
15. Instrument Detection Limits (Form X-IN)	41	41	✓	
16. ICP Interelement Correction Factors (Form XIA-IN)	42	42	✓	
17. ICP Interelement Correction Factors (Form XIB-IN)	43	45	✓	
18. ICP Linear Ranges (Form XII-IN)	46	46	✓	
19. Preparation Log (Form XIII-IN)	37	38	✓	
20. Analysis Run Log (Form XIV-IN)	39	40	✓	
21. ICP Raw Data	47	101	✓	
22. Furnace AA Raw Data	N/A	N/A	N/A	
23. Flame AA Raw Data	↓	↓	↓	
24. Mercury Raw Data	↓	↓	↓	
25. Cyanide Raw Data	↓	↓	↓	
26. Preparation Logs Raw Data	102	104	✓	

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	PAGE NOs. FROM	TO	CHECK LAB	REGION
27. Percent Solids Determination Log	105	106	✓	
28. Traffic Report	N/A	N/A	-	
29. Region Shipping/Receiving Documents				
Airbill (No. of Shipments_____)	N/A	N/A	-	
Chain-of-Custody Records	3	3	✓	
Sample Tags	N/A	N/A	-	
Sample Log-In Sheet (Lab & DC1)	N/A	N/A	-	
SDG Cover Sheet	N/A	N/A	-	
30. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	
31. Internal Lab Sample Transfer Records & Tracking sheets (describe or list)	4	7	✓	
	N/A	N/A	-	
	N/A	N/A	-	
32. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	N/A	N/A	-	
Analysis Records	N/A	N/A	-	
Description	N/A	N/A	-	
33. Other Records (describe or list)				
Telephone Communication Log	N/A	N/A	-	
	N/A	N/A	-	
	N/A	N/A	-	

34. Comments:

Completed by : Nancy F. Cole — Nancy F. Cole Inorganics Manager — 10-9-96

(Lab) (Signature) (Print Name & Title) (Date)

ited by : _____ _____ _____

(Region) (Signature) (Print Name & Title) (Date)

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

1 ₂: ACCUTEST_____ Contract: NA_____

Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.:E15016__

No.: 3/90_

Client Sample No.	Lab Sample ID
_NR-PE-2_____	__E15016-1____
_PE-OVERSIZE__	__E15016-2____

ce ICP interelement corrections applied ? Yes/No YES

ce ICP background corrections applied ? Yes/No YES

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

mments:

_____SEE_CONFORMANCE_SUMMARY_FOR_COMMENTS._____

certify that this data package is in compliance with the terms and nditions of the contract, both technically and for completeness, for ner than the conditions detailed above. Release of the data contained this hardcopy data package ~~and in the computer-readable data submitted floppy diskette~~ has been authorized by the Laboratory Manager or the nager's designee, as verified by the following signature. NC 10/8

gnature: Nancy F. Cole Name: Nancy F. Cole

te: 10/8/96 Title: Inorganics Manager

COVER PAGE - IN ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

NR-PE-2

ıb Name: ACCUTEST Contract: NA

ıb Code: Case No.: NA SAS No.: NA SDG No.: E15016

ıtrix (soil/water): SOIL Lab Sample ID: E15016-1

ɜvel (low/med): LOW Date Received: 10/02/96

Solids: 89.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	9.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

olor Before: BROWN Clarity Before: Texture: MEDIUM

olor After: YELLOW Clarity After: Artifacts:

omments:

FORM I - IN

ILMO2.1

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

PE-OVERSIZE

ıb Name: ACCUTEST Contract: NA

ıb Code: Case No.: NA SAS No.: NA SDG No.: E15016

ıtrix (soil/water): SOIL Lab Sample ID: E15016-2

ɜvel (low/med): LOW Date Received: 10/02/96

Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	104			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

ɔlor Before: BROWN Clarity Before: Texture: MEDIUM

ɔlor After: YELLOW Clarity After: Artifacts:

ɔmments:

FORM I - IN

ILMO2.1

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ıb Name: ACCUTEST_____ Contract: NA_____

ıb Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016___

ıitial Calibration Source: SPEX/US/QC-1

ɔntinuing Calibration Source: SPEX/US/QC-1

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	1000.0	992.97	99.3	2000.0	2016.92	100.8	1949.56	97.5	P
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

FORM II (PART 1) - IN

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ıb Name: ACCUTEST_____ Contract: NA_____

ıb Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016___

ıitial Calibration Source: SPEX/US/QC-1

ɔntinuing Calibration Source: SPEX/US/QC-1

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				2000.0	2000.60	100.0	1986.93	99.3	P
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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No.: NA SDG No.: E15016

itial Calibration Source: SPEX/US/QC-1

ntinuing Calibration Source: SPEX/US/QC-1

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				2000.0	1998.49	99.9	2013.51	100.7	P
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

FORM II (PART 1) - IN

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

b Name: ACCUTEST_____ Contract: NA_____

b Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016___

itial Calibration Source: SPEX/US/QC-1

ntinuing Calibration Source: SPEX/US/QC-1

Concentration Units: ug/L

nalyte	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
luminum									NR
ntimony									NR
rsenic									NR
arium									NR
e lium									NR
a m									NR
alcium									NR
hromium									NR
obalt									NR
opper									NR
ron									NR
ead				2000.0	1999.21	100.0			P
agnesium									NR
anganese									NR
ercury									NR
ickel									NR
otassium									NR
elenium									NR
ilver									NR
odium									NR
hallium									NR
anadium									NR
inc									NR
yanide									NR

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

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

ıb Name: ACCUTEST_____ Contract: NA_____

ıb Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016__

ı CRDL Standard Source: _____

:P CRDL Standard Source: HPS/SPEX____

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								
Be lium								
C um								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.55	109.2	5.71	95.2
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

ILMO2.1

2B
CRDL STANDARD FOR AA AND ICP

ɔ Name: ACCUTEST_____ Contract: NA_____

ɔ Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016__

CRDL Standard Source: _____

P CRDL Standard Source: HPS/SPEX____

Concentration Units: ug/L

nalyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
luminum								
ntimony								
rsenic								
arium								
er-llium								
a m								
alcium								
hromium								
obalt								
opper								
ron								
ead				6.0			6.74	112.3
agnesium								
anganese								
ercury								
ickel								
otassium								
elenium								
ilver								
odium								
hallium								
anadium								
inc								

FORM II (PART 2) - IN

3
BLANKS

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No.: NA SDG No.: E15016

eparation Blank Matrix (soil/water): SOIL

eparation 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	1.0	B	1.0	U	1.0	U	1.0	U	0.560	B	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

ıb Name: ACCUTEST_____ Contract: NA_____

ıb Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016__

:eparation Blank Matrix (soil/water): SOIL_

:eparation 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			1.0	U	1.0	U	1.2	B	0.442	B	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

3
BLANKS

ıb Name: ACCUTEST_____ Contract: NA_____

ıb Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016__

:eparation Blank Matrix (soil/water): _____

:eparation 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			1.0	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ILMO2.1

ICP INTERFERENCE CHECK SAMPLE

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No: NA SDG No.: E15016

P ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	461123	466838.5	93.4	457072	462078.3	92.4
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
cium	500000	500000	431228	434345.2	86.9	424594	427285.8	85.5
omium								
Cobalt								
Copper								
Iron	200000	200000	189304	192868.6	96.4	187239	189857.1	94.9
Lead	0	1000	0	969.1	96.9	-2	957.1	95.7
Magnesium	500000	500000	509895	520553.0	104.1	504264	512954.8	102.6
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

4

ICP INTERFERENCE CHECK SAMPLE

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No: NA SDG No.: E15016

P ID Number: TJA TRACE-Y ICS Source: SPEX/MV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				465063	464896.9	93.0
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000				427415	428491.5	85.7
Chromium								
Cobalt								
Copper								
Iron	200000	200000				188554	190353.2	95.2
Lead	0	1000				1	957.1	95.7
Magnesium	500000	500000				506739	513256.7	102.7
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

NR-PE-2S

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No.: NA SDG No.: E15016

trix (soil/water): SOIL Level (low/med): LOW

Solids for Sample: 89.9

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
luminum									NR
ntimony									NR
rsenic									NR
arium									NR
eryllium									NR
admium									NR
alcium									NR
hromium									NR
o t									NR
opper									NR
ron									NR
ead	75-125	118.2848		9.8354		111.23	97.5		P
agnesium									NR
anganese									NR
ercury									NR
ickel									NR
otassium									NR
elenium									NR
ilver									NR
odium									NR
hallium									NR
anadium									NR
inc									NR
yanide									NR

omments:

FORM V (Part 1) - IN ILMO2.1

6
DUPLICATES

CLIENT SAMPLE NO.

NR-PE-2D

ab Name: ACCUTEST Contract: NA

ab Code: Case No.: NA SAS No.: NA SDG No.: E15016

atrix (soil/water): SOIL Level (low/med): LOW

Solids for Sample: 89.9 % Solids for Duplicate: 89.9

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		9.8354		8.5050		14.5		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN

ILMO2.1

7

LABORATORY CONTROL SAMPLE

.b Name: ACCUTEST_____ Contract: NA_____

.b Code: _____ Case No.: NA____ SAS No.: NA____ SDG No.: E15016

›lid LCS Source: EPA 228_____

[ueous LCS Source: _____

ıalyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
ıluminum									
ıntimony									
ırsenic									
ɜarium									
ɜeryllium									
ɜadmium									
ɜalcium									
ɜhromium									
ɜobalt									
ɜopper									
ɜron									
ɜead				70.4	67.0		37.3	100.0	95.2
ɜagnesium									
ɜanganese									
ɜercury									
ɜickel									
ɜotassium									
ɜelenium									
ɜilver									
ɜodium									
ɜhallium									
ɜanadium									
ɜinc									
ɜyanide									

7

LABORATORY CONTROL SAMPLE

b Name: ACCUTEST Contract: NA

b Code: Case No.: NA SAS No.: NA SDG No.: E15016

lid LCS Source: EPA 228

ueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Ca[illegible]um									
Ca[illegible]um									
Chromium									
Cobalt									
Copper									
Iron									
Lead				70.4	65.8		37.3	100.0	93.5
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

NR-PE-2L

ıb Name: ACCUTEST Contract: NA

ıb Code: Case No.: NA SAS No.: NA SDG No.: E15016

ıtrix (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							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	44.21		48.03		8.6		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN

13
PREPARATION LOG

b Name: ACCUTEST_____ Contract: NA_____

b Code: _____ Case No.:_NA____ SAS No.: NA____ SDG No.:_E15016__

thod: P_

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS1-10-3	10/03/96	1.00	200
NR-PE-2	10/03/96	1.00	200
NR-PE-2D	10/03/96	1.00	200
NR-PE-2S	10/03/96	1.00	200
PBS1-10-3	10/03/96	1.00	200

FORM XIII - IN ILMO2.1

13
PREPARATION LOG

b Name: ACCUTEST_____ Contract: NA_____

b Code: _____ Case No.:_NA____ SAS No.: NA____ SDG No.:_E15016__

thod: P_

Client Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS2-10-3	10/03/96	1.00	200
PBS2-10-3	10/03/96	1.00	200
PE-OVERSIZE	10/03/96	1.00	200

FORM XIII - IN ILMO2.1

ANALYSIS RUN LOG

b Name: ACCUTEST

Contract: NA

b Code: _____ Case No.: NA

SAS No.: NA SDG No.:E15016

strument ID Number: TJA TRACE-Y

Method: P

art Date: 10/03/96

End Date: 10/03/96

Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
				Analytes																						
STANDARD A	1.00	1319		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
STANDARD B	1.00	1324		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X
STANDARD C	1.00	1328		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X
STANDARD D	1.00	1332				X	X	X	X	X	X	X	X	X	X	X	X		X		X		X	X		X
STANDARD E	1.00	1336			X																	X				
STANDARD F	1.00	1339																							X	
STANDARD G	1.00	1341		X						X				X		X				X			X			
ICV-1	1.00	1351													X											
IC[illegible]	1.00	1356													X											
I[illegible]	1.00	1401													X											
ICB-1	1.00	1406													X											
CRI-1A	1.00	1424													X											
CRI-1	1.00	1452																								
ICSA-1	1.00	1459		X						X				X	X	X										
ICSAB-1	1.00	1504		X						X				X	X	X										
CCV-2	1.00	1509													X											
CCB-2	1.00	1514													X											
PBS1-10-3	1.00	1520													X											
LCSS1-10-3	1.00	1525													X											
NR-PE-2D	1.00	1530													X											
NR-PE-2S	1.00	1535													X											
NR-PE-2	1.00	1539													X											
NR-PE-2L	5.00	1544													X											
CCV-3	1.00	1549													X											
CCB-3	1.00	1554													X											
CRI-2A	1.00	1607													X											
CRI-2	1.00	1612																								
ICSA-2	1.00	1620		X						X				X	X	X										
ICSAB-2	1.00	1625		X						X				X	X	X										
CCV-4	1.00	1630													X											
CCB-4	1.00	1635													X											
CCV-5	1.00	1934													X											

FORM XIV - IN ILMO2.1

14

ANALYSIS RUN LOG

b Name: ACCUTEST

Contract: NA

b Code: _____ Case No.: NA

SAS No.: NA SDG No.:E15016

strument ID Number: TJA TRACE-Y

Method: P

art Date: 10/03/96

End Date: 10/03/96

Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
				Analytes																						
CB-5	1.00	1939													X											
BS2-10-3	1.00	1945													X											
CSS2-10-3	1.00	1949													X											
E-OVERSIZE	1.00	1954													X											
CV-6	1.00	1959													X											
CB-6	1.00	2004													X											
RI-3A	1.00	2016													X											
RI-3	1.00	2021																								
C 3	1.00	2028		X						X				X	X	X										
C -3	1.00	2033		X						X				X	X	X										
CV-7	1.00	2038													X											
CB-7	1.00	2043													X											

FORM XIV - IN ILMO2.1

Instrument Detection Limits (Quarterly)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA_TRACE-Y_ Date: 09/18/96

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	37.0	P
Antimony	206.83		60	2.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	0.4	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	27.0	P
Chromium	267.72		10	0.6	P
Cobalt	228.62		50	0.5	P
Copper	324.75		25	1.0	P
Iron	271.44		100	24.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	16.0	P
Manganese	257.61		15	0.6	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	16.0	P
Selenium	196.02		5	4.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	18.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		50	0.6	P
Zinc	213.86		20	1.0	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AL
Aluminum	308.22	0.0000000	-0.0002400	-0.0001200	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000280	0.0000000	0.0000100
Arsenic	189.04	0.0000080	0.0000000	-0.0000100	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000060	0.0000000	0.0001550	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000030	0.0000000	-0.0000200	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000160	0.0000000	0.0000000	0.0000020	0.0000000
Iron	271.44	-0.0004800	-0.0000200	0.0000000	0.0000210	0.0000000
Lead	220.35	0.0004640	-0.0000100	0.0000570	0.0000020	-0.0002000
Magnesium	279.08	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Manganese	257.61	0.0000060	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000100	-0.0000400	0.0000000	0.0000070
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	-0.0008200	0.0000000	0.0000000	0.0000000	0.0009320
Thallium	190.86	0.0000000	-0.0000300	-0.0001000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000190	0.0000010	0.0001120	0.0000020	0.0000000

Comments: Be. Cd. Cr. Cu. Zn. As. Tl. Pb. Sb. Se modified 9/5/96; Mn. Ag modified 7/12; V modified 5/20.

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CA	CO	CR	CR	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0127200	0.0074840	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	-0.0000800	0.0000000	0.0000570
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0816000	0.0000000	-0.0000200	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0006240
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	-0.0000200	0.0000610	0.0000180	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0001450	0.0000000	-0.0000600
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0025200	0.0002920	0.0000000	-0.0000400
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0000800	0.0000030	0.0000000	0.0003820

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	FE	MG	MN	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000250	0.0000020	0.0000000	0.0000830
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001240
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
per	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0003700	0.0000000	0.0000000
Lead	220.35	-0.0000600	0.0000760	0.0000000	0.0001180	-0.0000600
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	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	196.02	0.0000000	-0.0002700	0.0000000	0.0001840	-0.0000800
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000090
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0007190
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: _____ Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA TRACE-Y Date: 12/13/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : NI	NI	V	V	
Aluminum	308.22	0.0000000	0.0000000	0.0030800	0.0000000	
Antimony	206.83	-0.0010600	0.0000000	0.0001110	-0.0068400	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001290	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	-0.0017200	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0002960	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0040000	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0083200	
Lead	220.35	0.0003510	0.0000180	-0.0012000	0.0002820	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001300	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0001520	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	0.0000000	0.0000000	0.0000150	0.0000000	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001980	
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	-0.0000900	0.0000000	0.0014400	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0042700	0.0000000	0.0002620	

Comments:

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ACCUTEST Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: E15016

ICP ID Number: TJA TRACE-Y Date: 09/26/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	750000.0	P
Antimony	10.00	10000.0	P
Arsenic	10.00	20000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	40000.0	P
Cadmium	10.00	20000.0	P
Calcium	10.00	750000.0	P
Chromium	10.00	40000.0	P
Cobalt	10.00	40000.0	P
Copper	10.00	50000.0	P
Iron	10.00	750000.0	P
Lead	10.00	5000.0	P
Magnesium	10.00	750000.0	P
Manganese	10.00	40000.0	P
Mercury			NR
Nickel	10.00	20000.0	P
Potassium	10.00	150000.0	P
Selenium	10.00	20000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	500000.0	P
Thallium	10.00	20000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	20000.0	P

Comments:

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Oct 07 1996, 09:07 am

File ID: IC1003S1.ASC
Analyst: NS
Elements Reported: Pb

Date Analyzed: 10/03/96
Run ID: MA2361

Methods: EPA 200.7 CLPM

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:51	MA2361-ICV1	1		
13:56	MA2361-ICB1	1		
14:01	MA2361-CCV1	1		
14:06	MA2361-CCB1	1		
14:24	MA2361-CRIA1	1		
14:52	MA2361-CRI1	1		
14:59	MA2361-ICSA1	1		
15:04	MA2361-ICSAB1	1		
15:09	MA2361-CCV2	1		
15:14	MA2361-CCB2	1		
15:20	MP2857-MB1	1		PBS1-10-3
15:25	MP2857-LC1	1		LCSS1-10-3
15:30	MP2857-D1	1		E15016-1D
15:35	MP2857-S1	1		E15016-1S
15:39	E15016-1	1		
15:44	MP2857-SD1	5		E15016-1L
15:49	MA2361-CCV3	1		
15:54	MA2361-CCB3	1		
16:07	MA2361-CRIA2	1		
16:12	MA2361-CRI2	1		
16:20	MA2361-ICSA2	1		
16:25	MA2361-ICSAB2	1		
16:30	MA2361-CCV4	1		
16:35	MA2361-CCB4	1		
19:34	MA2361-CCV5	1		
19:39	MA2361-CCB5	1		
19:45	MP2857-MB2	1		PBS2-10-3
19:49	MP2857-LC2	1		LCSS2-10-3
19:54	E15016-2	1		
19:59	MA2361-CCV6	1		
20:04	MA2361-CCB6	1		
20:16	MA2361-CRIA3	1		

INSTRUMENT RUN LOG
ICP and GF Analyses

Preliminary Analytical QC Report
Oct 07 1996, 09:07 am

File ID: IC1003S1.ASC Date Analyzed: 10/03/96 Methods: EPA 200.7 CLPM
Analyst: NS Run ID: MA2361
Elements Reported: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:21	MA2361-CRI3	1		
20:28	MA2361-ICSA3	1		
20:33	MA2361-ICSAB3	1		
20:38	MA2361-CCV7	1		
20:43	MA2361-CCB7	1		

Refer to raw data for calibration curve and standards.

Method: EPA3 Standard: STDA

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00007	-.00023	-.00006	-.00010	.00004	.00082	.00005
SDev	.00000	.00000	.00003	.00003	.00002	.00002	.00001
%RSD	1.8624	1.5871	56.805	27.498	48.724	2.0344	10.966
#1	.00007	-.00023	-.00005	-.00007	.00007	.00080	.00004
#2	.00007	-.00023	-.00009	-.00012	.00003	.00081	.00005
#3	.00007	-.00022	-.00003	-.00012	.00003	.00084	.00005

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3071
Avge	.00073	-.00000	-.00013	.00004	.00008	-.00078	.00096
SDev	.00001	.00005	.00000	.00000	.00003	.00045	.00042
%RSD	1.2322	5692.0	2.7587	10.273	38.303	57.948	43.382
#1	.00073	.00003	-.00013	.00004	.00010	-.00103	.00103
#2	.00072	.00002	-.00013	.00003	.00011	-.00105	.00138
#3	.00074	-.00005	-.00012	.00004	.00003	-.00026	.00052

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	-.00018	-.00055	.00015	-.00032	.00076	.00270	.00003
SDev	.00017	.00030	.00010	.00015	.00023	.00002	.00000
%RSD	97.393	55.355	63.221	46.832	30.643	.85233	5.5133
#1	-.00026	-.00028	.00005	-.00048	.00102	.00273	.00003
#2	-.00029	-.00088	.00023	-.00027	.00056	.00269	.00003
#3	.00002	-.00049	.00018	-.00020	.00070	.00269	.00003

Elem	Fe2714	Mg2790	K 7664	Na5889	Na5889
Avge	.00050	.00004	.00030	.00093	.01943
SDev	.00013	.00002	.00002	.00003	.00003
%RSD	26.663	37.106	7.2665	2.6244	.17101
#1	.00038	.00006	.00033	.00091	.01946
#2	.00047	.00004	.00028	.00093	.01939
#3	.00065	.00003	.00030	.00096	.01944

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	375336	--	--	--	--	--	--
SDev	1562.311	--	--	--	--	--	--
%RSD	.4162433	--	--	--	--	--	--
#1	375712	--	--	--	--	--	--
#2	373620	--	--	--	--	--	--
#3	376676	--	--	--	--	--	--

Method: EPA3 Standard: STDB

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576

#1	.00398	.04585	.10084	.03319	.02284	.01806	.01513
#2	.00381	.04391	.09656	.03178	.02188	.01729	.01452
#3	.00378	.04364	.09607	.03157	.02173	.01718	.01442

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Avge	.03365	.00324	.00398	.00922	.01992	.04317	.06496
SDev	.00088	.00012	.00011	.00023	.00050	.00109	.00237
%RSD	2.6194	3.6089	2.8404	2.4821	2.5189	2.5237	3.6449

#1	.03466	.00337	.00411	.00948	.02045	.04442	.06769
#2	.03326	.00315	.00392	.00913	.01984	.04258	.06339
#3	.03303	.00321	.00390	.00905	.01946	.04249	.06381

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Cd3179
Avge	.04776	.05303	.03117	.01148	.03222	.04108	.00119
SDev	.00122	.00131	.00105	.00028	.00125	.00112	.00003
%RSD	2.5531	2.4698	3.3590	2.4388	3.8[illegible]	2.7304	2.4721

#1	.04915	.05451	.03238	.01179	.03365	.04236	.00123
#2	.04731	.05254	.03053	.01138	.03137	.04061	.00118
#3	.04684	.05203	.03059	.01126	.03163	.04026	.00117

Elem	Fe2714	Mg2790	Na5889
Avge	.04181	.03509	.00264
SDev	.00122	.00093	.00006
%RSD	2.9111	2.6484	2.2656

#1	.04320	.03615	.00271
#2	.04125	.03468	.00263
#3	.04097	.03443	.00259

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	373375	--	--	--	--	--	--
SDev	8830.968	--	--	--	--	--	--
%RSD	2.365172	--	--	--	--	--	--
#1	363200	--	--	--	--	--	--
#2	377886	--	--	--	--	--	--
#3	379040	--	--	--	--	--	--

Method: EPA3 Standard: STDC

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.00752	.08816	.19246	.06370	.04367	.03366	.02897
SDev	.00009	.00122	.00276	.00085	.00059	.00045	.0003[illegible]
%RSD	1.1943	1.3823	1.4335	1.3280	1.3542	1.3262	1.359[illegible]
#1	.00741	.08676	.18928	.06273	.04298	.03315	.02852
#2	.00758	.08889	.19395	.06419	.04399	.03397	.02921
#3	.00755	.08884	.19416	.06419	.04402	.03385	.02919

Avge	.06576	.00633	.00796	.01803	.03952	.08536	.12736
SDev	.00076	.00013	.00010	.00023	.00046	.00139	.00132
%RSD	1.1578	1.9962	1.2961	1.2896	1.1733	1.6320	1.0353
#1	.06488	.00619	.00784	.01776	.03912	.08376	.12565
#2	.06615	.00643	.00802	.01819	.04003	.08612	.12828
#3	.06625	.00637	.00802	.01814	.03940	.08621	.12796

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Avge	.09426	.10577	.06144	.02308	.06299	.06574	.00195
SDev	.00175	.00189	.00057	.00021	.00101	.00086	.00003
%RSD	1.8529	1.7918	.92984	.93218	1.6061	1.3091	1.4125
#1	.09227	.10362	.06082	.02284	.06182	.06474	.00192
#2	.09500	.10648	.06195	.02313	.06352	.06628	.00197
#3	.09551	.10721	.06154	.02326	.06361	.06618	.00197

Elem	Fe2714	Mg2790	Na5889
Avge	.06897	.05806	.00381
SDev	.00101	.00083	.00005
%RSD	1.4586	1.4310	1.3468
1	.06781	.05710	.00375
2	.06951	.05853	.00384
#3	.06959	.05854	.00384

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	376461	--	--	--	--	--	--
SDev	3359.419	--	--	--	--	--	--
%RSD	.8923677	--	--	--	--	--	--
#1	380238	--	--	--	--	--	--
#2	373806	--	--	--	--	--	--
#3	375340	--	--	--	--	--	--

Method: EPA3 Standard: STDD

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Avge	.03716	.44696	.96449	.32121	.21985	.16436	.14621
SDev	.00037	.00486	.01048	.00353	.00243	.00162	.00163
%RSD	.98687	1.0875	1.0865	1.0990	1.1042	.98563	1.1154
#1	.03674	.44135	.95241	.31714	.21704	.16249	.14432
#2	.03736	.44979	.96983	.32311	.22116	.16519	.14710
#3	.03738	.44974	.97122	.32339	.22134	.16540	.14720

Elem	Ni2316	Zn2138	As1890	Tl1908	2203/1	2203/2	1960/1
Avge	.32828	.08642	.19736	.43587	.63392	.47800	.11671
SDev	.00377	.00097	.00206	.00394	.00450	.00534	.00090
%RSD	1.1474	1.1262	1.0447	.90503	.70980	1.1179	.76838
#1	.32393	.08530	.19499	.43133	.62886	.47193	.11577

#3	.33044	.08703	.19877	.43835	.63748	.48198	.11755

Elem	1960/2	Na5889
Avge	.31488	.05155
SDev	.00250	.00041
%RSD	.79412	.78799
#1	.31201	.05109
#2	.31659	.05170
#3	.31605	.05186

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	372046	--	--	--	--	--	--
SDev	1238.231	--	--	--	--	--	--
%RSD	.3328164	--	--	--	--	--	--
#1	373402	--	--	--	--	--	--
#2	370975	--	--	--	--	--	--
#3	371762	--	--	--	--	--	--

Method: EPA3 Standard: STDE

Elem	Ag3280	2068/1	2068/2
Avge	.03069	.52804	.30571
SDev	.00007	.00460	.00133
%RSD	.23652	.87119	.43384
#1	.03071	.52273	.30647
#2	.03061	.53083	.30417
#3	.03075	.53057	.30648

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	375272	--	--	--	--	--	--
SDev	1604.067	--	--	--	--	--	--
%RSD	.4274415	--	--	--	--	--	--
#1	373742	--	--	--	--	--	--
#2	376941	--	--	--	--	--	--
#3	375132	--	--	--	--	--	--

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thod: EPA3 Standard: STDF

Elem	V 2924
Avge	.04245
SDev	.00030
%RSD	.71452
#1	.04240

#3	.04217						
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	370652	--	--	--	--	--	--
SDev	4137.855	--	--	--	--	--	--
%RSD	1.116371	--	--	--	--	--	--
#1	366845	--	--	--	--	--	--
#2	370056	--	--	--	--	--	--
#3	375056	--	--	--	--	--	--

Method: EPA3 Standard: STD6

Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na5889
Avge	.50566	.01526	.54251	.47548	.10884	.02679
SDev	.00633	.00017	.00575	.00482	.00023	.00020
%RSD	.63842	1.1389	1.0592	1.0132	.20740	.74683
#1	.50182	.01506	.53604	.47002	.10870	.02657
#2	.50778	.01532	.54475	.47728	.10910	.02683
#3	.50738	.01539	.54689	.47914	.10871	.02696

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	373386	--	--	--	--	--	--
SDev	1570.188	--	--	--	--	--	--
%RSD	.4205271	--	--	--	--	--	--
#1	375192	--	--	--	--	--	--
#2	372618	--	--	--	--	--	--
#3	372347	--	--	--	--	--	--

Method: EPA3 Sample Name: ICV Operator:
Run Time: 10/03/96 13:51:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99270	.97941	.99177	.98807	.98919	.98525	.99038
SDev	.01074	.00869	.00911	.00867	.00859	.01091	.00918
%RSD	1.0816	.88764	.91895	.87786	.86851	1.1076	.92664
#1	.99325	.98024	.99148	.98798	.99038	.98589	.99121
#2	.98169	.97034	.98280	.97945	.98007	.97403	.98082
#3	1.0031	.98767	1.0010	.99679	.99713	.99583	.99911
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z2037/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98935	.47823	.97463	.99667	.99200	.98984	.99138
SDev	.00693	.00454	.00906	.00941	.00928	.00907	.00631
%RSD	.70004	.94917	.92920	.94386	.93531	.91632	.63675
#1	.98866	.47878	.97525	.99642	.99300	.98920	.99192
#2	.98279	0.47344	.96528	.98739	.98226	.98111	.98481
#3	.99659	.48247	.98336	1.0062	1.0007	.99922	.99740
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	.50000	1.0000	1.0000	1.0000	1.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99374	.98888	.97290	.99402	.99839	1.0408	1.0296
SDev	.00750	.00929	.00816	.00181	.01223	.0147	.0054
%RSD	.75429	.93923	.83880	.18197	1.2253	1.4086	.91761
#1	.99242	.98711	.97688	.99531	1.0026	1.0409	1.0376
#2	.98699	.98060	.96352	.99195	.98460	1.0261	1.0319
#3	1.0018	.99892	.97831	.99479	1.0079	01.0504	1.0192
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						1.0000	1.0000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98145	1.0111	.95424	0.90893	.99298	.99695	.97824
SDev	.00487	.0045	.01701	.02471	.00706	.00873	.00818
%RSD	.49658	.44708	1.7824	2.7182	.71136	.87552	.83652
#1	.97987	1.0099	.95983	0.91483	.99228	1.0002	.98031
#2	.97756	1.0073	0.93514	0.88180	.98629	.98707	.96922
#3	.98691	1.0161	.96775	0.93014	1.0004	1.0036	.98519
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	376791	--	--	--	--	--	--
SDev	2404.547	--	--	--	--	--	--
%RSD	.6381651	--	--	--	--	--	--
#1	377170	--	--	--	--	--	--
#2	378983	--	--	--	--	--	--
#3	374219	--	--	--	--	--	--

Method: EPA3 Sample Name: ICB Operator:
Run Time: 10/03/96 13:56:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	.00022	.00023	.00044	.00008	.00019	-.00021
SDev	.00003	.00004	.00014	.00054	.00037	.00026	.00000
%RSD	18.634	17.298	59.897	124.86	475.87	139.98	1.8238
#1	.00012	.00018	.00024	-.00019	-.00035	.00046	-.00022
#2	.00017	.00024	.00037	.00068	.00029	-.00006	-.00021
#3	.00013	.00025	.00009	.00082	.00029	.00016	-.00021
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00028	.00011	.00019	-.00020	-.00124	-.00021	-.00241
SDev	.00024	.00032	.00013	.00007	.00262	.00431	.00166
%RSD	84.436	274.39	65.426	33.248	210.80	2020.4	69.041
#1	-.00042	.00000	.00005	-.00012	-.00125	-.00334	-.00088
#2	-.00042	.00047	.00023	-.00023	.00138	.00470	-.00217
#3	-.00001	-.00013	.00029	-.00024	-.00386	-.00200	-.00418
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00267	.00370	.00235	-.00257	.00222	.00075	-.00819
SDev	.00046	.00155	.00085	.00661	.00324	.00546	.00049
%RSD	17.413	42.010	36.211	256.95	145.84	724.51	6.0058
#1	.00245	.00543	.00267	.00415	.00235	-.00371	-.00858
#2	.00235	.00243	.00298	-.00281	-.00108	.00684	-.00764
#3	.00320	.00325	.00138	-.00906	.00539	-.00087	-.00834
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06006	.00073	.00144	-.12459	.00100	.00064	.00282
SDev	.00368	.00256	.00994	.00939	.00032	.00230	.00080
%RSD	6.1218	347.90	690.26	7.5389	32.026	358.35	28.250
#1	-.05585	-.00173	.01291	-.12025	.00137	.00297	.00361
#2	-.06174	.00337	-.00461	-.11816	.00087	-.00164	.00282

Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	371169	--	--	--	--	--	--
SDev	1300.279	--	--	--	--	--	--
%RSD	.3503202	--	--	--	--	--	--
#1	372218	--	--	--	--	--	--
#2	369714	--	--	--	--	--	--
#3	371574	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 14:01:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0428	2.0197	2.0082	2.0222	2.0194	2.0654	2.0258
SDev	.0024	.0073	.0050	.0059	.0078	.0024	.0066
%RSD	.11575	.36374	.24950	.29209	.38668	.11820	.32496
#1	2.0425	2.0168	2.0055	2.0214	2.0156	2.0656	2.0226
#2	2.0407	2.0142	2.0052	2.0167	2.0143	2.0629	2.0214
#3	2.0453	2.0280	2.0140	2.0285	2.0284	2.0678	2.0334
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/T
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0198	.25250	2.0411	2.0152	2.0416	2.0210	2.0145
SDev	.0090	.00047	.0059	.0056	.0063	.0075	.0126
%RSD	.44558	.18611	.28968	.27879	.31025	.36875	.62760
#1	2.0149	.25266	2.0382	2.0130	2.0454	2.0156	2.0168
#2	2.0142	.25198	2.0372	2.0110	2.0343	2.0178	2.0009
#3	2.0302	.25287	2.0479	2.0216	2.0451	2.0295	2.0259
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0181	2.0419	2.0195	2.0365	2.0416	39.718	39.543
SDev	.0051	.0077	.0135	.0115	.0011	.043	.153
%RSD	.25444	.37756	.67089	.56660	.05291	.10765	.38600
#1	2.0196	2.0394	2.0208	2.0344	2.0418	39.694	39.487

#3	2.0223	2.0506	2.0323	2.0490	2.0425	39.767	39.715
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.388	39.687	41.601	41.337	2.0169	2.0399	2.0270
SDev	.138	.154	.107	.067	.0076	.0045	.0115
%RSD	.35099	.38754	.25813	.16256	.37788	.22229	.56552
#1	39.340	39.625	41.713	41.316	2.0187	2.0393	2.0270
#2	39.280	39.574	41.590	41.412	2.0066	2.0357	2.0155
#3	39.543	39.862	41.499	41.282	2.0235	2.0447	2.0384
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wlen	371.030	--	--	--	--	--	--
Avge	375172	--	--	--	--	--	--
SDev	1197.853	--	--	--	--	--	--
%RSD	.3192812	--	--	--	--	--	--
#1	374645	--	--	--	--	--	--
#2	376543	--	--	--	--	--	--
#3	374328	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 14:06:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.00032	.00054	.00084	.00014	-.00023	-.00021
SDev	.00017	.00003	.00007	.00084	.00091	.00044	.00009
%RSD	96.375	7.9150	13.540	100.10	634.68	188.76	42.789
#1	.00023	.00029	.00057	.00017	-.00041	-.00034	-.00031
#2	.00033	.00034	.00058	.00178	.00120	.00025	-.00015
#3	-.00001	.00033	.00045	.00056	-.00036	-.00061	-.00016
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	-.00029	.00026	-.00031	-.00218	0.00549	-.00215
SDev	.00134	.00051	.00022	.00014	.00146	.00073	.00235
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

#1	-.00039	-.00087	.00034	-.00039	-.00381	0.00612	-.00454
#2	.00219	.00004	.00043	-.00015	-.00098	.00469	-.00204
#3	.00027	-.00004	.00001	-.00039	-.00174	0.00568	.00015
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00145	.00154	-.00124	.00113	-.00140	.00883	-.02012
SDev	.00064	.00114	.00203	.00402	.00233	.00945	.00791
%RSD	44.326	73.902	163.96	356.74	166.75	107.02	39.295
#1	.00175	.00225	-.00358	-.00088	.00093	.00088	-.02549
#2	.00189	.00023	-.00022	.00575	-.00273	.01927	-.02383
#3	.00071	.00214	.00008	-.00149	-.00139	.00633	-.01104
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
em	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06444	.00693	.01699	-.05293	.00028	-.00054	-.00030
SDev	.01025	.00761	.01698	.01310	.00052	.00088	.00122
%RSD	15.903	109.83	99.916	24.757	182.96	162.88	411.95
#1	-.07164	.00084	.00116	-.04451	-.00032	.00034	-.00162
#2	-.05271	.01545	.03492	-.04626	.00061	-.00055	-.00005
#3	-.06896	.00448	.01490	-.06803	.00056	-.00141	.00079
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	378678	--	--	--	--	--	--
SDev	2542.827	--	--	--	--	--	--
%RSD	.6715011	--	--	--	--	--	--
#1	381111	--	--	--	--	--	--
#2	376038	--	--	--	--	--	--
3	378885	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 10/03/96 14:24:08
Comment:
Mode: CONC Corr. Factor: 1

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.00008	-.00006	-.00009	-.00019	-.00081	-.00053
SDev	.00026	.00004	.00029	.00014	.00018	.00067	.00008
%RSD	1408.0	55.655	480.63	151.66	98.998	82.348	14.409
#1	.00006	.00012	-.00016	-.00022	-.00028	-.00102	-.00055
#2	.00026	.00004	-.00029	-.00013	.00003	-.00134	-.00060
#3	-.00026	.00006	.00027	.00006	-.00031	-.00006	-.00045
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Ni2316	Mg3280	V 2924	Zn2138	As1890	Ti1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.00029	.00026	-.00044	.01951	.01966	.00063
SDev	.00027	.00022	.00088	.00009	.00121	.00144	.00125
%RSD	409.00	76.020	314.71	21.007	6.2016	7.3064	22.151
#1	.00020	.00012	.00085	-.00054	.01925	.01837	.00481
#2	-.00007	.00054	-.00073	-.00039	.02083	.01940	.00706
#3	-.00033	.00021	.00072	-.00038	.01845	.02121	.00001
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					.02000	.02000	
Range					30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00698	.00715	.00803	.01044	.00847	-.01644	-.01218
SDev	.00207	.00194	.00179	.00350	.00217	.00631	.00239
%RSD	29.585	27.093	22.362	33.561	25.594	38.389	19.614
#1	.00759	.00881	.00647	.00733	.01037	-.02368	-.01489
#2	.00468	.00502	.00999	.01423	.00611	-.01353	-.01127
#3	.00868	.00762	.00762	.00974	.00892	-.01210	-.01088
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06972	-.00202	-.00476	-.18193	.00656	.00914	.00776
SDev	.01465	.00272	.00473	.00346	.00100	.00028	.00055
%RSD	21.012	135.15	99.474	1.9006	15.220	3.0526	7.1263
#1	-.06603	-.00151	.00053	-.18244	.00669	.00937	.00727
#2	-.08586	.00042	-.00858	-.17824	.00550	.00883	.00836
#3	-.05727	-.00496	-.00622	-.18510	.00749	.00921	.00764
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	382125	--	--	--	--	--	--
SDev	6761.967	--	--	--	--	--	--
%RSD	1.769570	--	--	--	--	--	--
#1	389803	--	--	--	--	--	--
#2	379515	--	--	--	--	--	--
#3	377057	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 10/03/96 14:52:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43563	.01115	.01138	.11410	.02287	.05453	.03331
SDev	.00350	.00003	.00010	.00013	.00072	.00038	.00006
%RSD	.80449	.30876	.90674	.11199	3.1490	.70441	.17357
#1	.43897	.01112	.01126	.11407	.02215	.05490	.03325
#2	.43594	.01119	.01142	.11400	.02285	.05455	.03336
#3	.43198	.01115	.01145	.11424	.02359	.05413	.03332
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09233	.01954	.10918	.04926	.22214	.22161	.22761
SDev	.00095	.00064	.00018	.00082	.00316	.00433	.00319
%RSD	1.0335	3.2973	.16346	1.6557	1.4240	1.9533	1.4003
#1	.09224	.01882	.10899	.04847	.21983	.21699	.22393
#2	.09142	.02006	.10921	.05010	.22575	.22558	.22952
#3	.09332	.01974	.10934	.04920	.22086	.22227	.22937
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22929	.13232	.12934	.22336	.22208	-.01934	-.01538
SDev	.00102	.00174	.00120	.00201	.00444	.00392	.00767
%RSD	.44326	1.3168	.92646	.89889	1.9996	20.257	49.89
#1	.22863	.13424	.12801	.22486	.22098	-.01500	-.02423
#2	.22879	.13084	.13034	.22108	.22696	-.02041	-.01066
#3	.23046	.13186	.12968	.22413	.21829	-.02261	-.01104
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Range

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04551	-.00166	.00306	-.13004	.22876	.22252	.13035
SDev	.00829	.00498	.01293	.01764	.00154	.00239	.00022
%RSD	18.208	300.12	422.90	13.568	.67364	1.0755	.16834
#1	-.05432	-.00631	-.01183	-.11428	.22709	.22229	.13010
#2	-.04435	-.00226	.00948	-.12673	.22906	.22502	.13052
#3	-.03787	.00359	.01152	-.14910	.23012	.22023	.13043
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	378166	--	--	--	--	--	--
SDev	829.5716	--	--	--	--	--	--
%RSD	.2193670	--	--	--	--	--	--
#1	377251	--	--	--	--	--	--
#2	378378	--	--	--	--	--	--
#3	378869	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 10/03/96 14:59:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01112	.00383	.00229	.00451	.00303	-.00564	.00080
SDev	.00027	.00003	.00022	.00012	.00031	.00045	.00008
%RSD	2.4531	.83919	9.8488	2.6892	10.237	7.9760	10.385
#1	.01101	.00379	.00220	.00451	.00339	-.00602	.00071
#2	.01143	.00386	.00254	.00464	.00285	-.00575	.00086
#3	.01092	.00383	.00212	.00439	.00286	-.00514	.00083
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00425	.00009	-.00106	.00500	-.00111	0.01049	.01477
SDev	.00011	.00019	.00065	.00034	.00267	.00340	.00093
%RSD	2.6784	217.76	61.330	6.7047	240.73	32.395	6.3275
#1	.00433	-.00013	-.00181	.00516	.00183	0.00854	.01571
#2	.00412	.00017	-.00063	.00461	-.00369	0.01441	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00743	.00274	-.00096	.00296	-.00709	461.12	431.23
SDev	.00196	.00383	.00325	.00656	.00040	2.65	3.70
%RSD	26.367	139.82	339.30	221.67	5.7024	.57378	.85838
#1	-.00969	-.00045	.00259	.01024	-.00752	459.76	427.79
#2	-.00619	.00167	-.00168	-.00251	-.00671	464.17	435.15
#3	-.00642	.00698	-.00378	.00115	-.00703	459.44	430.74
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2[illegible]	Se1960	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	189.30	509.89	.02345	-.52911	-.00[illegible]01	-.00372	.00029
SDev	1.52	4.25	.00837	.01117	.00104	.00192	.00115
%RSD	.80124	.83268	35.696	2.1108	7[illegible].5	51.508	392.15
#1	188.00	505.85	.03306	-.51622	-.00121	-.00159	.00160
#2	190.97	514.32	.01955	-.53587	.00051	Q-.00529	-.00054
#3	188.94	509.51	.01774	-.53524	.00066	-.00429	-.00018
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	366771	--	--	--	--	--	--
SDev	2189.477	--	--	--	--	--	--
%RSD	.5969596	--	--	--	--	--	--
#1	366973	--	--	--	--	--	--
#2	364488	--	--	--	--	--	--
#3	368853	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 10/03/96 15:04:27
mment:
ode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50502	.49827	.95864	.48215	.46493	.50272	.49700
SDev	.00677	.00672	.01258	.00742	.00673	.00634	.00664
%RSD	1.3396	1.3489	1.3126	1.5393	1.4472	1.2605	1.3356

#1	.51114	.50372	.96892	.48794	.49067	.50926	.50200
#2	.50618	.50033	.96238	.48474	.48658	.50231	.49888
#3	.49776	.49076	.94461	.47379	.47753	.49661	.48963
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94522	1.1127	.46926	1.0035	1.0094	.97823	.99002
SDev	.01174	.0142	.00586	.0131	.0141	.01136	.01534
%RSD	1.2425	1.2800	1.2482	1.3010	1.3963	1.1617	1.5498
#1	.95450	1.1258	.47419	1.0149	1.0225	.97620	1.0051
#2	.94916	1.1147	.47081	1.0063	1.0111	.99047	.99040
#3	.93202	1.0975	.46279	.98928	.99448	.96802	.97440
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	220372	206871	206872	196071	196072	A13082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95858	1.0384	1.0292	.99887	.97127	466.84	434.[illegible]
SDev	.01050	.0104	.0142	.02633	.00228	6.01	3.91
%RSD	1.0948	.99683	1.3845	2.6361	.23288	1.2874	1.3617
#1	.96547	1.0489	1.0404	1.0275	.96903	472.65	439.11
#2	.96376	1.0382	1.0340	.99336	.97356	467.21	436.20
#3	.94650	1.0282	1.0131	.97573	.97123	460.65	427.76
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	192.87	520.55	.00718	2.1108	.96907	.98048	1.0323
SDev	2.64	6.96	.00839	.0243	.01185	.00790	.0128
%RSD	1.3709	1.3368	116.79	1.1503	1.2231	.80533	1.2423
#1	195.03	526.39	.01552	2.1388	.97870	.98853	1.0432
#2	193.66	522.41	.00726	2.0971	.97268	.98017	1.0354
#3	189.92	512.85	-.00125	2.0965	.95584	.97275	1.0182
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	369925	--	--	--	--	--	--
[illegible]	[illegible]		--	--	--	--	--

%Rsd	1.294313	--	--	--	--	--	--
#1	365590	--	--	--	--	--	--
#2	369120	--	--	--	--	--	--
#3	375064	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 15:09:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.8920	1.9621	1.9467	1.9517	1.9488	1.9128	1.9440
SDev	.0516	.0586	.0579	.0559	.0573	.0533	.0564
%RSD	2.7287	2.9855	2.9731	2.8644	2.9381	2.7883	2.8980
#1	1.9340	2.0130	1.9964	1.9999	1.9971	1.9561	1.9[illegible]
#2	Q1.8343	Q1.8981	Q1.8832	Q1.8904	Q1.8856	Q1.8532	Q1.8822
#3	1.9076	1.9752	1.9606	1.9648	1.9637	1.9290	1.9602
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Ti1908	Zr3496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9442	Q.23352	1.9563	1.9197	1.9574	1.9394	1.9534
SDev	.0557	.00659	.0563	.0548	.0538	.0462	.0520
%RSD	2.8650	2.8202	2.8789	2.8541	2.7462	2.3823	2.7132
#1	1.9918	.23840	2.0028	1.9659	2.0030	1.9761	1.9970
#2	Q1.8830	Q.22603	Q1.8937	Q1.8591	Q1.8981	Q1.8875	1.8944
#3	1.9579	Q.23612	1.9725	1.9341	1.9712	1.9545	1.9686
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9476	1.9382	1.9144	1.9519	1.9344	38.309	39.704
SDev	.0542	.0615	.0466	.0537	.0566	1.093	1.141
%RSD	2.7817	3.1745	2.4354	2.7521	2.9261	2.8533	2.8744
#1	1.9937	1.9876	1.9532	1.9966	1.9785	39.174	40.674
#2	1.8879	1.8693	1.8627	1.8923	1.8706	Q37.080	38.447
#3	1.9612	1.9578	1.9273	1.9667	1.9542	38.672	39.992
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

sdev	1.134	1.153	.996	.998	.0530	.0556	.0516
%RSD	2.9462	2.9179	2.5334	2.5276	2.7588	2.8664	2.6831
#1	40.128	40.639	40.190	40.255	1.9948	1.9845	1.9647
#2	Q37.888	38.395	38.231	38.352	Q1.8901	Q1.8778	Q1.8649
#3	39.490	40.014	39.523	39.823	1.9637	1.9584	1.9375
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	391113	--	--	--	--	--	--
SDev	8111.028	--	--	--	--	--	--
%RSD	2.073832	--	--	--	--	--	--
#1	385283	--	--	--	--	--	--
#2	400376	--	--	--	--	--	--
#3	387680	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 15:14:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	.00041	.00052	.00065	.00059	.00089	.00002
SDev	.00016	.00008	.00009	.00027	.00056	.00058	.00006
%RSD	243.24	19.523	16.456	41.767	95.317	146.82	298.62
#1	.00024	.00032	.00049	.00081	.00050	.00106	-.00005
#2	-.00004	.00043	.00045	.00033	.00007	-.00003	.00005
#3	-.00002	.00047	.00061	.00079	.00118	.00015	.00005
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00025	.00013	.00065	-.00014	-.00078	.00222	-.00036
SDev	.00039	.00079	.00074	.00027	.00119	.00139	.00264
%RSD	153.52	598.42	112.96	200.68	151.87	62.509	733.29
#1	-.00004	-.00069	-.00015	.00015	-.00058	.00310	.00153
#2	-.00002	.00021	.00081	-.00040	-.00206	.00062	.00076
#3	-.00070	.00088	.00129	-.00016	.00029	.00295	-.00338
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00153	.00471	.00141	.00272	.00060	.02721	.02741
SDev	.00060	.00126	.00046	.00248	.00064	.01858	.01018
%RSD	38.975	26.828	32.910	91.160	107.22	68.281	37.141
#1	.00140	.00610	.00185	.00274	.00134	.04862	.03633
#2	.00100	.00440	.00093	.00519	.00023	.01526	.02954
#3	.00217	.00363	.00144	.00023	.00023	.01776	.01633
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na3889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03531	.04787	.00916	-.20715	.00093	.00162	.00293
SDev	.00483	.00593	.00415	.02347	.00036	.00093	.00066
%RSD	13.666	12.387	45.299	12.295	60.768	70.264	22.128
#1	-.04005	.05470	.00498	-.17774	.00147	.00182	.00329
#2	-.03548	.04483	.01328	-.22234	.00096	.00190	.00210
#3	-.03040	.04408	.00922	-.22135	.00035	.00025	.00319
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	375127	--	--	--	--	--	--
SDev	7796.140	--	--	--	--	--	--
%RSD	2.078269	--	--	--	--	--	--
#1	366146	--	--	--	--	--	--
#2	380156	--	--	--	--	--	--
#3	379078	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-MB1 Operator:
Run Time: 10/03/96 15:20:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	.00026	.00020	.00000	.00153	.00153	.00151
SDev	.00021	.00001	.00018	.00064	.00063	.00021	.00006
%RSD	33.672	3.9733	87.346	40261.	40.858	13.628	3.8506
#1	.00077	.00027	.00002	.00008	.00131	.00165	.00155
#2	.00070	.00026	.00038	.00061	.00223	.00165	.00153
#3	.00038	.00025	.00022	-.00068	.00104	.00129	.00144

High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.00081	.00079	.00385	-.00050	.00134	.00447
SDev	.00157	.00058	.00060	.00020	.00130	.00310	.00260
%RSD	271.47	71.776	75.799	5.1523	261.82	230.69	51.498
#1	-.00060	.00141	.00011	.00394	-.00195	.00018	.00710
#2	.00237	.00078	.00122	.00399	-.00011	.00480	.00343
#3	-.00003	.00025	.00103	.00362	.00056	-.00100	.00286
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La4174
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	-.00399	.00233	-.00007	.00109	.00248	.08190
SDev	.00130	.00270	.00122	.00104	.00220	.00643	.00164
%RSD	67.174	67.540	52.473	1419.3	201.61	260.95	2.0137
.	.00045	-.00710	.00258	-.00102	-.00074	.00950	.08013
#2	.00246	-.00230	.00341	.00103	.00304	.00101	.08107
#3	.00289	-.00255	.00100	-.00023	.00048	-.00317	.07955
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Be1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00415	.02945	.05406	-.21397	.00280	.00072	.00024
SDev	.00248	.00391	.01415	.01433	.00011	.00181	.00113
%RSD	59.763	13.291	26.169	6.6963	3.7952	250.99	465.53
#1	-.00616	.03210	.06734	-.19742	.00269	-.00082	-.00063
#2	-.00493	.03131	.05567	-.22236	.00281	.00272	.00152
#3	-.00138	.02496	.03918	-.22211	.00291	.00026	-.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	384917	--	--	--	--	--	--
SDev	2749.463	--	--	--	--	--	--
%RSD	.7143008	--	--	--	--	--	--
#1	381946	--	--	--	--	--	--
#2	385432	--	--	--	--	--	--
[illegible]	[illegible]	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-LC1 Operator:
Run Time: 10/03/96 15:25:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74691	.60763	.42022	.51767	.32861	.81410	1.3673
SDev	.02290	.01889	.01208	.01626	.01139	.02479	.0420
%RSD	3.0664	3.1083	2.8746	3.1403	3.4664	3.0456	3.0752
#1	.77335	.62963	.43415	.53641	.34174	.84270	1.4159
#2	.73397	.59621	.41264	.50729	.32129	.80101	1.3417
#3	.73340	.59766	.41387	.50932	.32281	.79860	1.3440
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Cd2288	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33598	.43333	.44993	.53419	.33623	.45619	.33891
SDev	.01057	.01354	.01365	.01617	.01295	.01414	.01300
%RSD	3.1470	2.9875	3.0347	3.0262	3.8276	3.1191	3.8346
#1	.34819	.46894	.46569	.55286	.35317	.46946	.35380
#2	.32978	.44469	.44155	.52496	.33092	.44620	.32986
#3	.32997	.44636	.44256	.52475	.33059	.44392	.33307
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33275	.19478	.19696	.71988	.71000	24.795	17.516
SDev	.00612	.00390	.00768	.02053	.01954	.741	.533
%RSD	1.8403	1.9998	3.8991	2.8515	2.7514	2.9900	3.0433
#1	.33982	.19922	.20564	.74286	.73219	25.651	18.131
#2	.32944	.19316	.19421	.70337	.69539	24.376	17.184
#3	.32900	.19195	.19103	.71339	.70241	24.358	17.234
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb206
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.324	11.610	15.243	.55501	.33482	.71331	.19625
SDev	1.571	.374	.349	.02356	.00838	.01966	.00642
%RSD	3.1850	3.2239	2.2869	4.2443	2.5039	2.7837	3.2706
#1	51.138	12.042	15.645	.58142	.34449	.73576	.20332

#3	48.458	11.410	15.017	.53616	.33038	.70609	.19136
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	396354	--	--	--	--	--	--
SDev	11827.77	--	--	--	--	--	--
%RSD	2.984145	--	--	--	--	--	--
#1	382697	--	--	--	--	--	--
#2	403315	--	--	--	--	--	--
#3	403049	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-D1 Operator:
Run Time: 10/03/96 15:30:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2268	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01143	.00033	.00013	.00098	.01327	.00905	.01408
SDev	.00024	.00003	.00011	.00051	.00026	.00017	.00035
%RSD	2.1166	9.3304	78.817	52.040	1.9783	1.8591	3.9156
#1	.01119	.00029	.00015	.00096	.01351	.00920	.01461
#2	.01144	.00035	.00023	.00150	.01330	.00887	.01391
#3	.01168	.00035	.00002	.00048	.01299	.00909	.01406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00178	.00068	.01645	.00908	.00123	-.00159	.03840
SDev	.00083	.00011	.00032	.00030	.00169	.00160	.00214
%RSD	46.590	16.556	1.9183	3.3117	137.47	100.56	5.5735
#1	.00239	.00081	.01642	.00942	-.00072	.00025	.04042
#2	.00211	.00063	.01678	.00888	.00215	-.00262	.03615
#3	.00083	.00061	.01615	.00893	.00225	-.00239	.03862
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03812	.00108	.00013	-.00150	.00074	7.4578	[illegible]
SDev	.00094	.00342	.00089	.00220	.00347	.2533	[illegible]

#1	.03712	-.00280	.00116	-.00184	.00420	7.6675	.10738
#2	.03826	.00366	-.00034	-.00351	.00077	7.1623	.09963
#3	.03898	.00239	-.00043	.00085	-.00275	7.5435	.10645
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.881	.14857	.40737	-.21854	.03824	.00001	.00047
SDev	.278	.00281	.01071	.02863	.00065	.00196	.00008
%RSD	2.3371	1.8926	2.6280	13.103	1.7045	18007.	124.36
#1	12.067	.15084	.41984	-.19162	.03844	.00220	-.00014
#2	11.562	.14946	.39995	-.24863	.03739	-.00064	.00101
#3	12.013	.14542	.40251	-.21538	.03889	-.00156	.00056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
rtSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390976	--	--	--	--	--	--
SDev	6608.068	--	--	--	--	--	--
%RSD	1.690145	--	--	--	--	--	--
#1	386477	--	--	--	--	--	--
#2	398563	--	--	--	--	--	--
#3	387889	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-S1 Operator:
Run Time: 10/03/96 15:35:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8836	.04893	.04980	.49386	.21562	.24849	.50961
SDev	.0220	.00040	.00031	.00484	.00258	.00320	.00446
%RSD	1.1682	.81156	.61586	.97989	1.1946	1.2868	.87549
#1	1.9089	.04939	.05013	.49943	.21858	.25217	.51474
2	1.8736	.04877	.04973	.49075	.21385	.24633	.50743
#3	1.8684	.04865	.04953	.49139	.21444	.24698	.50663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01000
Elem	Ni3416	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3496

Avge	.49133	.05262	.49318	.50232	1.8916	1.9233	.03661
SDev	.00603	.00088	.00444	.00409	.0122	.0113	.00523
%RSD	1.2276	1.6802	.90072	.81525	.64436	.58601	.97017
#1	.49819	.05360	.49824	.50701	1.9055	1.9366	.04464
#2	.48686	.05238	.49137	.50057	1.8862	1.9151	.03096
#3	.48893	.05189	.48993	.49941	1.8830	1.9200	.03561
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317/9
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52811	.42581	.42436	1.8237	1.8033	14.620	.13454
SDev	.00042	.00178	.00351	.0218	.0222	.201	.00248
%RSD	.07899	.41905	.82713	1.1965	.45933	1.4062	1.8384
#1	.52856	.42617	.42797	1.8480	1.8127	14.344	.13777
#2	.52803	.42349	.42415	1.8150	1.8003	14.106	.13397
#3	.52774	.42687	.42096	1.8076	1.7939	14.209	.13317
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
gh						900.00	900.00
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.035	.21151	.50397	-.19636	.53170	1.8101	.42476
SDev	.133	.00841	.01261	.01292	.00201	.0128	.00233
%RSD	.82943	3.9781	2.5016	6.5793	.37736	.70654	.54875
#1	16.188	.22035	.51604	-.18199	.53401	1.8246	.42769
#2	15.955	.20360	.50498	-.20007	.53070	1.8052	.42395
#3	15.962	.21056	.49089	-.20702	.53038	1.8005	.42295
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385625	--	--	--	--	--	--
SDev	3358.075	--	--	--	--	--	--
%RSD	.8708136	--	--	--	--	--	--
1	381788	--	--	--	--	--	--
#2	387059	--	--	--	--	--	--
#3	388028	--	--	--	--	--	--

Method: EPA3 Sample Name: E15016-1 Operator:
Run Time: 10/03/96 15:39:58

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu2247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01078	.00026	.00003	.00236	.01307	.01201	.02416
SDev	.00031	.00002	.00014	.00045	.00049	.00057	.00090
%RSD	2.8920	7.0029	463.08	18.955	3.2533	4.7283	2.0856
#1	.01050	.00026	-.00013	.00205	.01308	.01166	.02380
#2	.01071	.00027	.00007	.00287	.01336	.01267	.02474
#3	.01111	.00024	.00014	.00215	.01438	.01171	.02390
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02000	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Cd1908	Zn2037/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00363	.00113	.01875	.01209	.00243	.00233	.04319
SDev	.00092	.00151	.00056	.00011	.00127	.00057	.00087
%RSD	25.283	133.51	2.9902	.94542	52.320	24.402	2.0190
1	.00346	.00020	.01830	.01205	.00105	.00298	.04243
2	.00463	.00287	.01938	.01222	.00236	.00209	.04417
#3	.00281	.00032	.01857	.01200	.00258	.00192	.04296
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04467	.00106	.00036	-.00080	.00491	7.1666	.42436
SDev	.00115	.00202	.00238	.00342	.00509	.0467	.00455
%RSD	2.5713	190.13	655.52	427.49	103.80	.65106	1.0712
#1	.04460	.00265	-.00177	-.00475	.01051	7.1889	.42591
#2	.04586	-.00122	-.00008	.00127	.00364	7.1980	.41924
#3	.04356	.00176	.00293	.00108	.00057	7.1130	.42792
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.463	.49156	.40765	-.12490	.04421	.00302	.00061
SDev	.090	.00439	.01301	.02033	.00100	.00235	.00169
%RSD	.62429	.89328	3.1906	16.274	2.2653	77.721	274.52
#1	14.403	.49047	.41632	-.10414	.04391	.00545	-.00026
#2	14.567	.49639	.41393	-.14477	.04533	.00267	-.00044
#3	14.419	.48781	.39269	-.12579	.04339	.00076	.00236
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	138.00	675.00	45.000	45.000	45.000

Intsta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387495	--	--	--	--	--	--
SDev	2354.581	--	--	--	--	--	--
%RSD	.6076410	--	--	--	--	--	--
#1	389476	--	--	--	--	--	--
#2	384892	--	--	--	--	--	--
#3	388118	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2817-5D1 Operator:
Run Time: 10/08/96 15:44:47
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2605
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01058	.00055	.00065	.00291	.01651	.00889	[illegible]
SDev	.00138	.00020	.00066	.00063	.00061	.00148	[illegible]
%RSD	13.102	36.279	155.93	22.182	3.7056	16.663	[illegible]
#1	.00906	.00076	.00046	.00302	.01616	.00978	[illegible]
#2	.01070	.00036	-.00026	.00350	.01722	.00718	.02272
#3	.01182	.00053	.00145	.00222	.01616	.00972	.02327
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00761	.00109	.02066	.01168	L-.01295	-.00332	.05067
SDev	.00376	.00125	.00115	.00036	.00979	.00324	.00289
%RSD	49.445	114.70	5.5814	3.1139	75.565	97.644	5.7059
#1	.00964	-.00000	.01947	.01127	L-.02425	.00042	.05377
#2	.00992	.00082	.02177	.01194	-.00717	L-.00538	.04804
#3	.00327	.00246	.02074	.01184	-.00744	L-.00500	.05021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04652	-.00556	.00044	.00599	.00159	7.1017	.38538
SDev	.00253	.01648	.01053	.02068	.00807	.0520	.03555
%RSD	5.4317	296.08	2382.3	345.40	508.62	.73210	9.2255
#1	.04777	.00177	-.01029	-.01576	.01091	7.0508	[illegible]
#2	.04361	-.02443	.01076	.00833	-.00304	7.1547	.34433
#3	.04818	.00597	.00085	.02540	-.00311	7.0997	[illegible]

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.175	.49397	.37031	-1.0437	.04603	.00314	-.00147
SDev	.124	.00791	.00633	.0079	.00248	.00296	.00444
%RSD	.87611	1.6011	1.7138	.75217	5.1640	94.118	302.96
#1	14.033	.50122	.37678	-1.0515	.04990	.00212	L-.00610
#2	14.229	.49515	.36409	-1.0358	.04522	.00083	-.00087
#3	14.263	.48553	.37007	-1.0439	.04899	.00648	.00260

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	185.00	578.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00500	-.00500	-.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	384575	--	--	--	--	--	--
SDev	1219.201	--	--	--	--	--	--
%RSD	.3170260	--	--	--	--	--	--
#1	385183	--	--	--	--	--	--
#2	383171	--	--	--	--	--	--
#3	385370	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 15:49:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9236	2.0060	1.9895	1.9951	1.9953	1.9483	1.9885
SDev	.0149	.0231	.0245	.0228	.0237	.0161	.0227
%RSD	.77558	1.1505	1.2326	1.1420	1.1863	.82634	1.1407
#1	1.9199	1.9956	1.9765	1.9841	1.9834	1.9448	1.9787
#2	1.9109	1.9900	1.9743	1.9799	1.9799	1.9343	1.9732
#3	1.9401	2.0325	2.0178	2.0213	2.0226	1.9659	2.0143

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9875	0.23736	1.9999	1.9587	1.9958	1.9804	-.0033
SDev	.0214	.00339	.0217	.0220	.0203	.0207	[illegible]
%RSD	1.0782	1.4277	1.0838	1.1248	1.0178	1.0460	[illegible]

#2	1.9732	[illegible]	1.9830	1.9450	[illegible]	[illegible]	[illegible]
#3	2.0122	[illegible]	2.0240	1.9829	2.0192	2.0048	2.0380
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca317[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9989	1.9885	1.9637	1.9966	1.9912	39.027	40.750
SDev	.0326	.0355	.0272	.0248	.0404	.296	.506
%RSD	1.6319	1.7863	1.3836	1.2396	2.0266	.75932	1.2403
#1	1.9826	1.9653	1.9453	1.9763	1.9645	38.957	40.541
#2	1.9777	1.9708	1.9506	1.9895	1.9714	38.771	40.41[illegible]
#3	2.0365	2.0294	1.9949	2.0242	2.0375	39.352	41.2[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.000[illegible]
Elem	Fe2714	Mg2790	K 7664	Na5889	Mo2202	Se1960	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.120	40.525	39.660	40.140	2.0006	1.9980	1.9[illegible]
SDev	.472	.473	.145	.409	.0317	.0350	.0300
%RSD	1.1764	1.1676	.36345	1.0193	1.5843	1.7587	1.51[illegible]
#1	39.923	40.302	39.992	39.959	1.9831	1.9685	1.9[illegible]
#2	39.778	40.204	39.705	39.852	1.9815	1.9774	1.90[illegible]
#3	40.658	41.068	39.883	40.608	2.0372	2.0331	2.00[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.000[illegible]
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.000[illegible]
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	383897	--	--	--	--	--	--
SDev	5636.644	--	--	--	--	--	--
%RSD	1.468268	--	--	--	--	--	--
#1	386539	--	--	--	--	--	--
#2	387728	--	--	--	--	--	--
#3	377425	--	--	--	--	--	--

[illegible]thod: EPA3 Sample Name: CCB Operator:
[illegible]n Time: 10/03/96 15:54:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00048	.00046	.00045	.00034	-.00056	-.00[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.00008	.00050	.00048	.00076	.00070	-.00050	[illegible]
#2	.00016	.00042	.00052	.00054	.00040	-.00043	.00004
#3	.00016	.00052	.00030	.00000	-.00008	-.00076	[illegible]
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	-.00014	.00098	-.00076	-.00124	.00149	[illegible]
SDev	.00041	.00120	.00045	.00022	.00272	.00142	[illegible]
%RSD	353.38	846.94	47.427	76.597	220.04	101.70	140.[illegible]
#1	.00051	-.00137	.00147	-.00003	-.00424	.00278	[illegible]
#2	-.00030	.00103	.00069	-.00041	.00106	-.00003	[illegible]
#3	.00014	-.00008	.00069	-.00041	-.00052	.00145	[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba3179
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00226	.00396	-.00121	.00074	-.00139	-.03471	[illegible]
SDev	.00194	.00610	.00100	.00080	.00439	.00636	[illegible]
%RSD	85.675	154.19	82.463	107.18	316.12	18.317	24.[illegible]
#1	.00439	.00998	-.00144	.00077	.00286	-.04204	[illegible]
#2	.00061	-.00223	-.00012	.00153	-.00591	-.03058	[illegible]
#3	.00178	.00412	-.00208	-.00007	-.00111	-.03153	[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05002	.00788	.01164	-.21843	.00065	-.00066	.00053
SDev	.00399	.00467	.00904	.00816	.00006	.00280	.00168
%RSD	7.9722	59.237	77.673	3.7345	8.6713	423.59	313.93
#1	-.04858	.01230	.02115	-.22778	.00071	.00218	.00238
#2	-.04695	.00833	.01065	-.21277	.00060	-.00342	-.00080
#3	-.05453	.00300	.00314	-.21474	.00065	-.00074	.00000
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	[illegible]
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	[illegible]	--	--	--	--	--	--

Avge	390065	--	--	--	--	--	--
SDev	10802.09	--	--	--	--	--	--
%RSD	2.765761	--	--	--	--	--	--
#1	403038	--	--	--	--	--	--
#2	384270	--	--	--	--	--	--
#3	384387	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIM Operator:
Run Time: 10/03/96 16:07:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	.00004	.00027	.00045	.00066	-.00031	-.00032
SDev	.00001	.00001	.00017	.00012	.00043	.00035	.00007
%RSD	10.766	27.696	63.000	26.917	66.674	114.49	22.174
#1	-.00010	.00003	.00011	.00054	.00062	-.00021	-.00032
#2	-.00012	.00003	.00045	.00031	.00015	-.00002	-.00028
#3	-.00012	.00005	.00024	.00051	.00055	-.00070	-.00039
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.00049	.00077	.00157	.01853	.01877	.00002
SDev	.00053	.00054	.00051	.00011	.00271	.00078	.00200
%RSD	91.648	108.83	66.571	7.1326	14.623	4.1359	99.901
#1	.00032	.00074	.00117	.00146	.01795	.01966	.00598
#2	.00023	-.00012	.00095	.00157	.01615	.01840	.00272
#3	.00118	.00086	.00019	.00168	.02148	.01824	.00636
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .02000 30.000	QC Pass .02000 30.000	NOCHECK

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00603	.00849	.01087	.01172	.01007	-.02991	-.01297
SDev	.00084	.00290	.00324	.00367	.00364	.00449	.00023
%RSD	13.881	34.175	29.772	31.349	36.154	15.008	1.7805
#1	.00576	.00605	.01101	.01163	.00881	-.02900	-.01271
#2	.00697	.01171	.00756	.00809	.01418	-.03479	-.01314
#3	.00536	.00773	.01403	.01543	.00723	-.02595	-.01307
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05112	.00612	.03157	-.21925	.00572	.01064	.01010
SDev	.01244	.00349	.00208	.00726	.00014	.00133	.00162
%RSD	24.333	57.113	6.5904	3.3136	2.4701	12.489	16.016
#1	-.03928	.01014	.03386	-.22738	.00586	.00977	.00988
#2	-.05001	.00432	.02980	-.21686	.00558	.01217	.00896
#3	-.06408	.00388	.03106	-.21344	.00572	.00998	.01195
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NotUsed	NotUsed	NotUsed	NotUsed	NotUsed	NotUsed
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	384283	--	--	--	--	--	--
SDev	600.0430	--	--	--	--	--	--
%RSD	.1704584	--	--	--	--	--	--
#1	383536	--	--	--	--	--	--
#2	384738	--	--	--	--	--	--
#3	384556	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 10/03/96 16:12:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38370	.00995	.01009	.10100	.02005	.04686	.02922
SDev	.03602	.00074	.00094	.00889	.00125	.00561	.00272
%RSD	9.3874	7.4663	9.2940	8.8018	6.2368	11.973	9.3263
#1	.34223	.00909	.00901	.09079	.01864	.04039	.02608
#2	.40719	.01044	.01065	.10705	.02049	.05036	.03096
#3	.40169	.01032	.01061	.10516	.02103	.04982	.03063
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07878	.01653	.09758	.03995	.19771	.19981	.20403
SDev	.00623	.00093	.00804	.00358	.01978	.01542	.01302
%RSD	7.9110	5.6383	8.2392	8.9671	10.006	7.7158	6.3817
#1	.07161	.01545	.08830	.03582	.17488	.18209	.18909
#2	.08291	.01709	.10249	.04215	.20960	.21020	.21298
#3	.08183	.01704	.10195	.04189	.20867	.20712	.21001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK

Range	30.000	30.000	30.000	30.000	30.000	30.000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20355	.11611	.11547	.19961	.19846	-.05045	-.02329
SDev	.01613	.01176	.00585	.01210	.01814	.02599	.00489
%RSD	7.9236	10.127	5.0629	6.0599	9.1383	51.518	21.001
#1	.18495	.10271	.10919	.18565	.17807	-.08028	-.01766
#2	.21365	.12473	.12074	.20628	.21279	-.03273	-.02575
#3	.21205	.12088	.11649	.20691	.20452	-.03833	-.02647
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.07044	-.00159	-.00684	-.15306	.20373	.19886	.11570
SDev	.00604	.00198	.01070	.01987	.01509	.01603	.00777
%RSD	9.2794	124.19	156.33	12.980	7.4074	8.0592	6.7185
#1	-.07060	.00030	.00080	-.17524	.18635	.18061	.10709
#2	-.07695	-.00364	-.01907	-.13688	.21345	.21064	.12209
#3	-.06388	-.00143	-.00226	-.14706	.21140	.20533	.11797
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .20000 30.000	QC Pass .20000 30.000	QC Pass .12000 30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	401327	--	--	--	--	--	--
SDev	31682.32	--	--	--	--	--	--
%RSD	7.894396	--	--	--	--	--	--
#1	437887	--	--	--	--	--	--
#2	381917	--	--	--	--	--	--
#3	384176	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 10/03/96 16:20:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01158	.00413	.00278	.00432	.00284	-.00578	.00084
SDev	.00027	.00001	.00017	.00010	.00036	.00045	.00012
%RSD	2.3341	.30546	6.0236	2.2896	12.573	7.8536	14.160
#1	.01173	.00414	.00280	.00432	.00313	-.00533	[illegible]
#2	.01174	.00412	.00294	.00442	.00244	-.00624	[illegible]
#3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.00577	[illegible]

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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Z2037/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00300	.00050	-.00100	.00465	-.00175	Q.00779	.01387
SDev	.00091	.00052	.00021	.00021	.00353	.00248	.00707
%RSD	30.488	103.54	20.619	4.6019	201.96	31.795	50.961
#1	.00296	.00090	-.00096	.00449	.00151	Q.00515	.01254
#2	.00393	.00068	-.00122	.00489	Q-.00549	Q.01006	.00756
#3	.00210	-.00008	-.00081	.00456	-.00126	Q.00814	.02131
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	Z203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01015	-.00012	.00272	.01122	-.00792	457.07	424.39
SDev	.00822	.01422	.00491	.00166	.01245	3.28	3.03
%RSD	81.001	11921.	180.36	14.822	157.18	.71791	.71381
#1	-.00648	.00379	-.00164	.01309	-.00145	458.99	426.40
#2	-.00440	.01174	.00176	.00992	-.00004	458.94	426.23
#3	-.01956	-.01589	.00803	.01064	-.02227	453.28	421.10
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	187.24	504.26	.01380	-.52736	-.00212	-.00153	.00179
SDev	1.41	3.46	.00609	.00265	.00324	.00846	.00287
%RSD	.75517	.68627	44.107	.50268	152.57	553.55	159.84
#1	188.14	506.17	.02083	-.52971	-.00012	.00341	.00019
#2	187.97	506.35	.01040	-.52449	-.00039	.00330	Q.00510
#3	185.61	500.27	.01017	-.52787	Q-.00586	Q-.01129	.00009
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

ntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSE
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	371068	--	--	--	--	--	--
SDev	2053.343	--	--	--	--	--	--
%RSD	.5533598	--	--	--	--	--	--

#2	369793	--	--	--	--	--	--
#3	373437	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 10/03/96 16:25:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49896	.49069	.94352	.47618	.47824	.49801	.49066
SDev	.00156	.00127	.00269	.00161	.00141	.00197	.00143
%RSD	.31344	.25883	.28494	.33842	.29527	.39491	.29043
#1	.49719	.48922	.94061	.47438	.47711	.49600	[illegible]
#2	.49953	.49149	.94591	.47675	.47776	.49809	[illegible]
#3	.50015	.49135	.94404	.47743	.47962	.49993	[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92800	1.0875	.46325	.98883	.99465	.96626	.97736
SDev	.00208	.0039	.00155	.00463	.00702	.01230	.00285
%RSD	.22428	.36229	.33388	.46803	.70545	1.2728	.29156
#1	.92567	1.0834	.46149	.98384	.98733	.95251	.97424
#2	.92866	1.0880	.46385	.98968	.99530	.97007	.97803
#3	.92967	1.0912	.46441	.99298	1.0013	.97621	.97982
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	-

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94697	1.0251	1.0107	.99330	.95745	462.08	427.29
SDev	.00117	.0075	.0054	.01336	.01316	1.69	.99
%RSD	.12319	.73393	.53090	1.3455	1.3743	.36527	.23088
#1	.94829	1.0165	1.0099	.99429	.94274	460.25	426.16
#2	.94654	1.0294	1.0164	1.0061	.96150	462.40	427.66
#3	.94608	1.0296	1.0058	.97947	.96810	463.58	428.01
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	189.86	512.95	-.00865	2.0890	.95712	.96941	1.0135
SDev	.55	1.71	.00511	.0198	.00020	.00851	.0046
%RSD	.28919	.33371	59.029	.94924	.02081	.87790	.45183

#1	189.23	511.05	-.01433	2.0676	[illegible]	[illegible]	[illegible]
#2	190.10	513.44	-.00445	2.0925	.95705	.97639	1.0[illegible]
#3	190.24	514.37	-.00717	2.1068	.95734	.97191	1.01[illegible]
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	369245	--	--	--	--	--	--
SDev	145.2595	--	--	--	--	--	--
%RSD	.0393396	--	--	--	--	--	--
#1	369339	--	--	--	--	--	--
#2	369319	--	--	--	--	--	--
#3	369078	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 16:30:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9174	1.9970	1.9793	1.9855	1.9873	1.9440	1.9824
SDev	.0140	.0176	.0160	.0162	.0171	.0147	.0163
%RSD	.73069	.88282	.80719	.81408	.86259	.75711	.80403
#1	1.9319	2.0134	1.9934	2.0009	2.0029	1.9598	1.9960
#2	1.9162	1.9993	1.9824	1.9868	1.9901	1.9417	1.9831
#3	1.9039	1.9784	1.9619	1.9687	1.9690	1.9306	1.9662
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn3072
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9777	0.23539	1.9934	1.9503	1.9973	1.9676	1.9935
SDev	.0181	.00198	.0163	.0152	.0156	.0157	.0205
%RSD	.91547	.84040	.81781	.78143	.78282	.79644	1.0270
#1	1.9940	0.23698	2.0094	1.9647	2.0124	1.9839	2.0118
#2	1.9808	0.23601	1.9940	1.9518	1.9983	1.9664	1.9978
#3	1.9582	0.23318	1.9768	1.9343	1.9811	1.9526	1.9712
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHEC[illegible]
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

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Elem	2203/2	2068/1	2066/2	1960/1	1960/2	Hg3082	Cd2[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

SDev	.0282	.0222	.0129	.0190	.0222	.257	.329
%RSD	1.1676	1.1239	.66277	.95382	1.1277	.66556	.81196
#1	2.0048	1.9895	1.9622	2.0136	1.9873	39.266	40.797
#2	1.9871	1.9813	1.9519	1.9971	1.9796	38.927	40.514
#3	1.9589	1.9476	1.9365	1.9756	1.9456	38.763	40.141
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.948	40.473	39.822	40.014	1.9865	1.9791	1.9577
SDev	.323	.332	.244	.214	.0223	.0210	.0199
%RSD	.80977	.82001	.61238	.53605	1.1203	1.0610	.61230
#1	40.247	40.794	40.079	40.253	2.0071	1.9961	1.9713
#2	39.992	40.493	39.795	39.949	1.9907	1.9805	1.9617
#3	39.604	40.131	39.594	39.839	1.9639	1.9506	1.9401
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385821	--	--	--	--	--	--
SDev	2856.798	--	--	--	--	--	--
%RSD	.7404472	--	--	--	--	--	--
#1	382988	--	--	--	--	--	--
#2	385773	--	--	--	--	--	--
#3	388701	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 16:35:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.00030	.00034	.00060	.00002	-.00050	-.00025
SDev	.00001	.00003	.00021	.00026	.00046	.00010	.00011
%RSD	148.40	8.4497	61.016	43.247	2966.9	19.475	42.580
1	.00003	.00031	.00010	.00071	.00028	-.00061	-.00034
#2	-.00000	.00032	.00049	.00030	-.00051	-.00049	-.00027
#3	.00001	.00027	.00043	.00078	.00028	-.00041	-.00013
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00008	.00031	-.00052	-.00129	.00210	-.0010
SDev	.00080	.00044	.00031	.00007	.00104	.00386	.00121
%RSD	1005.8	534.76	59.924	13.853	81.033	183.79	81.940
#1	-.00074	.00045	.00016	-.00043	-.00241	.00121	-.00016
#2	.00013	-.00040	.00070	-.00056	-.00112	0.00589	-.00260
#3	.00085	.00020	.00068	-.00056	-.00034	-.00062	-.00306
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ba4554
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00097	-.00120	.00081	.00739	-.00592	.01643	.02647
SDev	.00110	.00257	.00166	.00297	.00176	.01730	.02058
%RSD	114.00	213.04	205.65	40.141	29.728	105.33	77.202
#1	-.00020	-.00349	.00251	.01013	-.00538	.03592	.05097
#2	.00110	-.00169	-.00082	.00424	-.00404	.01049	.02376
#3	.00200	.00157	.00074	.00779	-.00791	.00288	.01068
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Sb1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04762	.05428	.01145	-.14683	.00006	-.00147	.00016
SDev	.00308	.02003	.00632	.00569	.00025	.00125	.00111
%RSD	6.4747	36.909	55.131	3.8754	396.01	84.924	710.60
#1	-.05117	.07732	.01679	-.14028	-.00015	-.00017	.00033
#2	-.04565	.04446	.00448	-.14965	.00000	-.00160	-.00109
#3	-.04604	.04104	.01309	-.15057	.00034	-.00266	.00103
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	5.0000	5.0000	5.0000	.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	392330	--	--	--	--	--	--
SDev	752.8851	--	--	--	--	--	--
RSD	.1919010	--	--	--	--	--	--
#1	391490	--	--	--	--	--	--
#2	392944	--	--	--	--	--	--
#3	392556	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 19:34:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Ca2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9499	2.0119	1.9945	2.0014	2.0001	1.9746	1.9914
SDev	.0303	.0279	.0286	.0292	.0280	.0319	.0287
%RSD	1.5522	1.3868	1.4315	1.4586	1.3983	1.6163	1.4410
#1	1.9170	1.9830	1.9645	1.9704	1.9707	1.9397	1.9606
#2	1.9766	2.0387	2.0213	2.0283	2.0264	2.0023	2.0174
#3	1.9561	2.0140	1.9978	2.0055	2.0031	1.9818	1.9962
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9917	.23847	2.0026	1.9721	2.0099	1.9837	2.0009
SDev	.0279	.00375	.0286	.0275	.0295	.0302	.0300
%RSD	1.3987	1.5711	1.4283	1.3947	1.4700	1.5206	1.5007
#1	1.9628	0.23428	1.9722	1.9427	1.9789	1.9531	1.9667
#2	2.0184	.24149	2.0289	1.9972	2.0377	2.0134	2.0231
#3	1.9938	.23965	2.0067	1.9764	2.0132	1.9845	2.0127
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9973	1.9880	1.9639	1.9992	1.9871	38.651	40.130
SDev	.0269	.0365	.0310	.0282	.0315	.662	.529
%RSD	1.3461	1.8349	1.5787	1.4095	1.5855	1.7118	1.3183
#1	1.9708	1.9514	1.9285	1.9694	1.9521	037.927	39.579
#2	2.0246	2.0243	1.9866	2.0255	2.0132	39.225	40.634
#3	1.9965	1.9884	1.9765	2.0026	1.9960	38.800	40.175
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.459	39.683	39.953	39.342	1.9985	1.9911	1.9719
SDev	.566	.555	.674	.652	.0275	.0303	.0324
%RSD	1.4342	1.3974	1.6858	1.6569	1.3751	1.5234	1.6407
#1	38.859	39.091	39.226	38.718	1.9695	1.9579	1.9362
#2	39.984	40.191	40.556	40.019	2.0241	2.0173	1.9992
#3	39.535	39.768	40.078	39.288	2.0019	1.9982	1.9805

Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	387352	--	--	--	--	--	--
SDev	5324.930	--	--	--	--	--	--
%RSD	1.374702	--	--	--	--	--	--
#1	393282	--	--	--	--	--	--
#2	382980	--	--	--	--	--	--
#3	385793	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 19:39:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00051	.00052	.00038	-.00061	-.00051	.00008
SDev	.00023	.00016	.00015	.00076	.00073	.00052	.00009
%RSD	105.23	32.588	29.068	198.68	120.51	101.98	101.37
#1	.00036	.00070	.00068	.00069	-.00056	-.00095	.00018
#2	.00036	.00042	.00047	.00093	.00010	-.00064	.00002
#3	-.00005	.00041	.00040	-.00048	-.00136	.00006	.00005
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	.00500	.00500	.05000	.01000	.02500	.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00101	-.00027	.00078	-.00028	-.00155	.00475	-.00486
SDev	.00035	.00037	.00059	.00031	.00344	.00150	.00245
%RSD	34.521	139.77	76.213	111.27	222.06	31.649	50.470
#1	-.00081	-.00051	.00145	-.00002	-.00042	Q.00587	-.00751
#2	-.00080	.00016	.00056	-.00019	.00119	.00304	-.00267
#3	-.00141	-.00046	.00033	-.00063	Q-.00540	Q.00533	-.00440
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	La3174
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00345	.00222	-.00105	.00462	-.00305	-.02963	-.01960
SDev	.00115	.00216	.00295	.00622	.00184	.00915	.00552
%RSD	33.262	97.224	280.31	134.66	60.414	30.893	28.176
#1	.00477	.00357	-.00401	.00245	-.00092	-.03982	[illegible]

#3	.00289	-.00027	.00189	.01163	-.00414	-.02693	-.02538
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05719	.00857	.01353	-.14398	.00071	-.00048	.00003
SDev	.00825	.00784	.00262	.00931	.00022	.00205	.00137
%RSD	14.421	91.594	19.366	6.4636	31.531	428.17	2507.1
#1	-.04925	.01318	.01278	-.15418	.00071	.00022	-.00147
#2	-.06572	.01301	.01137	-.14183	.00094	-.00278	.00044
#3	-.05660	-.00049	.01644	-.13594	.00049	.00113	.00119
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390489	--	--	--	--	--	--
SDev	10957.50	--	--	--	--	--	--
%RSD	2.806101	--	--	--	--	--	--
#1	402368	--	--	--	--	--	--
#2	388321	--	--	--	--	--	--
#3	380777	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-MB2 Operator:
Run Time: 10/03/96 19:45:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00019	.00035	-.00004	.00126	.00078	.00053
SDev	.00021	.00002	.00012	.00053	.00051	.00041	.00003
%RSD	64.128	12.025	35.645	1185.0	40.363	51.805	6.2090
#1	.00027	.00016	.00029	-.00006	.00161	.00125	.00056
#2	.00015	.00019	.00026	-.00056	.00068	.00059	.00053
#3	.00055	.00020	.00049	.00049	.00148	.00051	.00050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.00500	.00400	.05000	.01000	.02500	.01500
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.00071	.00047	.00109	-.00277	-.00313	[illegible]
SDev	.00053	.00048	.00021	.00006	.00195	.00253	.00351

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#1	.00092	.00054	.00026	.00102	-.00384	-.00230	-.00023
#2	-.00010	.00033	.00046	.00109	-.00436	-.00112	-.00043
#3	.00017	.00125	.00068	.00115	-.00060	L-.00597	.00574
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.04000	.01000	.05000	.02000	.01000	.00500	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00243	.00138	-.00170	-.00434	.00065	-.02771	.03606
SDev	.00092	.00203	.00240	.00178	[illegible]	.00592	.00839
%RSD	37.798	147.33	141.58	41.125	457.90	21.380	23.249
#1	.00294	.00235	.00065	-.00489	[illegible]	-.02100	.04388
#2	.00298	.00274	-.00415	-.00576	-.00105	-.02823	.02721
#3	.00137	-.00096	-.00159	-.00234	[illegible]	-.03440	.03715
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						.20000	5.0000
Low						-.20000	-5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Sb1960	Se2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01308	.01227	.00812	-.18202	.00221	-.00099	-.00060
SDev	.00862	.00497	.00495	.02354	.00056	.00204	.00165
%RSD	65.883	40.537	60.918	12.934	25.146	205.63	252.86
#1	-.02104	.01485	.01378	-.17632	.00191	.00130	.00124
#2	-.01427	.00653	.00600	-.16186	.00187	-.00261	-.00184
#3	-.00393	.01542	.00459	-.20790	.00285	-.00168	-.00136
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	5.0000	5.0000	5.0000	.00300	.00500	.00500
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	385554	--	--	--	--	--	--
SDev	6878.220	--	--	--	--	--	--
%RSD	1.783984	--	--	--	--	--	--
#1	378858	--	--	--	--	--	--
#2	385203	--	--	--	--	--	--
#3	392601	--	--	--	--	--	--

Method: EPA3 Sample Name: MP2857-LC2 Operator:
Run Time: 10/03/96 19:49:59
Comment:
Mode: CONC Corr. Factor: 1

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74890	.59390	.40805	.50354	.31845	.80791	1.3017
SDev	.00787	.00498	.00362	.00454	.00275	.00946	.0116
%RSD	1.0513	.83877	.88699	.90230	.86331	1.1713	.86058
#1	.75737	.59917	.41205	.50815	.32132	.81805	1.3640
#2	.74750	.59325	.40708	.50340	.31819	.80638	1.3502
#3	.74181	.58927	.40501	.49907	.31584	.79931	1.3409
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02500	-.01500

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Cd1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32490	.33480	.43813	.52708	.33051	.44214	[illegible]
SDev	.00349	.00268	.00380	.00498	.00263	.00620	.00187
%RSD	1.0758	.76961	.86887	.93492	.79637	1.4029	[illegible]
#1	.32878	.33767	.43724	.53193	.33245	.44862	.33216
#2	.32392	.33404	.43268	.52724	.33157	.43592	[illegible]
#3	.32200	.33269	.42959	.52208	.32751	.44219	.32809
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32879	.12962	.12748	.70057	.69033	28.330	17.418
SDev	.00676	.00472	.00087	.00173	.01137	.307	.135
%RSD	2.0572	3.6393	.68505	.24648	1.6464	1.0834	.77523
#1	.33621	.13476	.12757	.70200	.70330	28.655	17.558
#2	.32719	.12548	.12831	.70105	.68561	28.291	17.407
#3	.32297	.12861	.12657	.69865	.68209	28.045	17.289
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High						900.00	900.00
Low						-.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	44.720	11.746	15.868	.50029	.32923	.69376	.12821
SDev	.382	.098	.221	.01675	.00513	.00806	.00154
%RSD	.85356	.83400	1.3908	3.3474	1.5589	1.1615	1.1978
#1	45.104	11.846	16.120	.51847	.33489	.70289	.12998
#2	44.715	11.742	15.778	.49689	.32796	.69077	.12738
#3	44.340	11.650	15.707	.48550	.32486	.68762	.12727
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00300	-.00500	-.00500

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	405657	--	--	--	--	--	--
SDev	3126.296	--	--	--	--	--	--
%RSD	.7706755	--	--	--	--	--	--
#1	402724	--	--	--	--	--	--
#2	405300	--	--	--	--	--	--
#3	408946	--	--	--	--	--	--

Method: EPA3 Sample Name: E15016-2 Operator:
Run Time: 10/03/96 19:54:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04708	.00059	.00019	.01030	.06614	.12908	.23245
SDev	.00125	.00002	.00002	.00018	.00112	.00347	.00607
%RSD	2.6514	3.6113	9.9301	1.7609	3.6241	2.6933	2.6067
	.04690	.00060	.00018	.01030	.06547	.12734	.23097
#2	.04841	.00057	.00018	.01048	.06662	.13179	.23910
#3	.04593	.00060	.00021	.01012	.06433	.12411	.22731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.0000	9.0000	10.000	45.000	45.000	45.000	45.000
Low	-.20000	-.00500	-.00400	-.05000	-.01000	-.02000	-.01000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zn2071
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01508	.00385	.06969	.10500	.00117	.00159	.49798
SDev	.00089	.00055	.00187	.00276	.00087	.00127	.01213
%RSD	5.8899	14.390	2.6799	2.6239	73.997	80.161	2.4362
#1	.01448	.00341	.06900	.10441	.00144	.00148	.49502
#2	.01610	.00447	.07180	.10800	.00188	.00291	.51132
#3	.01465	.00367	.06826	.10259	.00020	.00037	.48761
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	45.000	1.8000	45.000	18.000	9.0000	45.000	
Low	-.04000	-.01000	-.05000	-.02000	-.01000	-.00500	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50331	.00608	.00223	.00637	.00358	11.708	7.4191
SDev	.00702	.00261	.00148	.00255	.00225	.283	.1987
%RSD	1.3949	42.931	66.587	40.034	62.770	2.4140	2.6776
#1	.49708	.00766	.00265	.00390	.00415	11.672	7.3648
#2	.51092	.00307	.00345	.00622	.00110	12.007	7.6399
#3	.50193	.00753	.00058	.00900	.00549	11.445	7.2[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pa[illegible]

Low						.20000	-5.0000

Elem	Fe2714	Mg2790	K 7664	Na8887	[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	34.175	4.9101	.64811	.74074	.50165	.00453	.00355
SDev	.907	.1272	.01761	.01362	.00621	.00196	.00073
%RSD	2.6552	2.5910	2.7173	1.8382	1.6446	43.335	20.680
#1	33.931	4.8759	.65207	.75144	.49643	.00409	.00433
#2	35.179	5.0509	.66341	.74537	.51103	.00282	.00334
#3	33.414	4.8034	.62886	.72541	.49713	.00667	.00291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	900.00	900.00	135.00	675.00	45.000	45.000	45.000
Low	-.10000	-5.0000	-5.0000	-5.0000	-.00500	-.00500	-.00500
IntSta	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	400384	--	--	--	--	--	--
SDev	8250.198	--	--	--	--	--	--
%RSD	2.060573	--	--	--	--	--	--
#1	402211	--	--	--	--	--	--
#2	391373	--	--	--	--	--	--
#3	407567	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 19:59:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9625	2.0177	2.0053	2.0118	2.0091	1.9870	2.0056
SDev	.0099	.0116	.0105	.0102	.0111	.0103	.0109
%RSD	.50227	.57349	.52485	.50893	.55372	.51878	.54454
#1	1.9737	2.0305	2.0172	2.0232	2.0216	1.9987	2.0178
#2	1.9584	2.0148	2.0018	2.0087	2.0050	1.9827	2.0015
#3	1.9553	2.0079	1.9970	2.0034	2.0005	1.9795	1.9970
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0028	.24132	2.0146	1.9870	2.0179	1.9994	2.0165
SDev	.0094	.00138	.0117	.0106	.0111	.0128	.0026
%RSD	.47128	.57046	.57887	.53477	.55149	.63806	.13875
#1	2.0131	.24167	2.0279	1.9991	2.0207	2.0138	2.0195
#2	2.0008	.24025	2.0098	1.9824	2.0125	1.9893	2.0141

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0120	2.0036	1.9882	2.0204	2.0057	38.859	40.301
SDev	.0059	.0016	.0067	.0022	.0100	[illegible]	[illegible]
%RSD	.29263	.07937	.33892	.10985	.49995	.52174	[illegible]
#1	2.0184	2.0038	1.9958	2.0229	2.0023	39.093	40.361
#2	2.0106	2.0020	1.9830	2.0186	2.0169	38.754	40.219
#3	2.0069	2.0051	1.9857	2.0197	1.9977	38.731	40.122
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Be1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.633	39.906	40.199	39.739	2.0135	2.0106	1.9934
SDev	.202	.214	.275	.341	.0047	.0063	.0047
SD	.51030	.53560	.68880	.85835	.23541	.31533	.23498
#1	39.866	40.150	40.515	40.131	2.0189	2.0092	1.9980
#2	39.574	39.814	40.017	39.570	2.0118	2.0175	1.9896
#3	39.478	39.753	40.064	39.514	2.0099	2.0051	1.9922
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	382547	--	--	--	--	--	--
SDev	1929.272	--	--	--	--	--	--
%RSD	.5043228	--	--	--	--	--	--
#1	380352	--	--	--	--	--	--
#2	383315	--	--	--	--	--	--
#3	383974	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 20:04:25
mment:
de: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.00046	.00060	.00083	-.00031	-.00012	[illegible]
SDev	.00017	.00009	.00017	.00047	.00035	.00017	[illegible]
%RSD	69.356	19.901	29.206	56.470	112.98	145.40	[illegible]

#1	.00005	.00052	.00076	.00043	-.00070	.00002	.00012
#2	.00034	.00042	.00056	.00135	-.00004	-.00031	-.00005
#3	.00036	.00039	.00043	.00057	-.00018	-.00007	-.00005
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	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	22073
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.00023	.00100	-.00024	-.00116	.00480	-.00165
SDev	.00065	.00056	.00040	.00017	.00147	.00138	.00031
%RSD	209.02	242.12	40.205	73.313	126.57	28.820	18.556
#1	.00001	-.00041	.00111	-.00009	-.00225	.00370	-.00127
#2	-.00013	.00045	.00133	-.00020	-.00173	.00633	-.00155
#3	.00106	.00063	.00052	-.00043	.00051	.00434	-.00125
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00300	.00300	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00260	-.00030	-.00016	.00506	-.00400	-.02330	-.01457
SDev	.00127	.00210	.00019	.00768	.00192	.00146	.00034
%RSD	48.672	697.88	121.39	151.19	48.102	5.7602	2.3350
#1	.00315	.00207	.00006	.00489	-.00254	-.02685	-.01500
#2	.00350	-.00192	-.00031	.01284	-.00328	-.02509	-.01468
#3	.00115	-.00105	-.00023	-.00251	-.00618	-.02397	-.01432
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						.00000	.00000
Range						.20000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04656	.00961	.01169	-.13626	.00122	-.00096	-.00019
SDev	.00269	.00499	.00977	.01011	.00086	.00361	.00033
%RSD	5.7671	51.902	83.599	7.4223	70.660	376.54	438.01
#1	-.04547	.00549	.00044	-.12472	.00148	-.00005	.00075
#2	-.04962	.01516	.01655	-.14355	.00191	.00211	-.00083
#3	-.04459	.00819	.01808	-.14053	.00026	-.00494	-.00049
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	389172	--	--	--	--	--	--

%RSD	.256240	--	--	--	--	--	--
#1	390147	--	--	--	--	--	--
#2	389216	--	--	--	--	--	--
#3	388154	--	--	--	--	--	--

Method: EPA3 Sample Name: CRIA Operator:
Run Time: 10/03/96 20:16:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	.00006	.00020	.00047	.00022	-.00040	-.00029
SDev	.00015	.00003	.00017	.00043	.00042	.00040	.00004
%RSD	80.660	42.815	86.090	91.665	188.65	100.64	15.469
#1	-.00001	.00009	.00021	.00000	-.00002	-.00087	-.00031
#2	-.00028	.00006	.00002	.00086	-.00002	-.00018	-.00030
#3	-.00027	.00004	.00037	.00086	.00071	-.00015	-.00025
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3571
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	.00013	.00033	.00159	.01807	.01863	.00399
SDev	.00076	.00025	.00013	.00007	.00200	.00232	.00059
%RSD	1367.2	201.55	39.792	4.2228	11.055	12.464	14.735
#1	-.00079	-.00017	.00027	.00162	.01798	.02119	.00372
#2	-.00010	.00029	.00024	.00163	.02011	.01666	.00466
#3	.00072	.00025	.00048	.00151	.01612	.01803	.00358
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .02000 30.000	QC Pass .02000 30.000	NOCHECK

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00808	.01011	.01043	.01074	.00834	-.02296	-.01559
SDev	.00072	.00522	.00057	.00077	.00136	.00246	.00776
%RSD	8.9270	51.627	5.4850	7.1670	16.360	10.722	50.404
#1	.00738	.00624	.01077	.01065	.00933	-.02376	-.01107
#2	.00804	.00804	.01076	.01002	.00678	-.02493	-.01076
#3	.00882	.01604	.00977	.01155	.00890	-.02020	-.02439
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

SDev	.00519	.00222	.00439	.01006	.00049	.00111	.00136
%RSD	9.6432	73.906	13.917	4.9133	7.2391	12.077	13.176
#1	-.05965	.00448	.02882	-.19661	.00619	.00979	.00928
#2	-.05232	.00045	.02919	-.20149	.00694	.00788	.00987
#3	-.04961	.00407	.03660	-.21595	.00711	.00960	.01188
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.00600	.01000	.01000
Range					30.000	30.000	30.000
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	378216	--	--	--	--	--	--
SDev	689.8529	--	--	--	--	--	--
%RSD	.1823965	--	--	--	--	--	--
#1	378955	--	--	--	--	--	--
#2	378104	--	--	--	--	--	--
#3	377589	--	--	--	--	--	--

Method: EPA3 Sample Name: CRI Operator:
Run Time: 10/03/96 20:21:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40742	.01031	.01065	.10595	.02110	.05036	.03058
SDev	.00456	.00010	.00019	.00111	.00035	.00098	.00042
%RSD	1.1196	.98626	1.8343	1.0475	1.6516	1.9561	1.3885
#1	.40227	.01021	.01049	.10467	.02083	.04942	.03019
#2	.41095	.01042	.01086	.10650	.02149	.05138	.03102
#3	.40904	.01030	.01059	.10667	.02098	.05026	.03054
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.01000	.01000	.10000	.02000	.05000	.03000
Range	30.000	30.000	30.000	30.000	30.000	30.000	30.000

Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	220371
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08248	.01743	.10139	.04179	.20538	.20478	.20797
SDev	.00235	.00028	.00097	.00068	.00134	.00370	.00332
%RSD	2.8488	1.5820	.95591	1.6200	.65097	1.8094	1.5982
#1	.07978	.01732	.10037	.04103	.20419	.20145	.20457
#2	.08359	.01775	.10229	.04231	.20683	.20877	.20814
#3	.08407	.01723	.10151	.04204	.20512	.20412	.21121
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.08000	.02000	.10000	.04000	.20000	.20000	
Range	30.000	30.000	30.000	30.000	30.000	30.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21099	.12107	.12136	.21103	.20836	-.03008	-.02162
SDev	.00299	.00209	.00251	.00835	.00494	.00435	.00644
%RSD	1.4171	1.7265	2.0693	3.9576	2.3698	14.459	29.778
#1	.20850	.12086	.11861	.20138	.20426	-.03503	-.01420
#2	.21431	.12326	.12196	.21570	.21384	-.02684	-.02497
#3	.21018	.11909	.12352	.21600	.20698	-.02858	-.02570
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05091	-.00289	-.00855	-.13016	.21002	.20927	.12125
SDev	.00621	.00158	.00604	.00177	.00257	.00362	.00166
%RSD	12.201	54.769	70.588	1.3619	1.2244	2.6831	1.3701
#1	-.04931	-.00455	-.01312	-.13110	.20722	.20382	.11936
#2	-.04865	-.00272	-.00171	-.13124	.21228	.21448	.12241
#3	-.05776	-.00140	-.01082	-.12810	.21055	.21000	.12206
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value					.20000	.20000	.12000
Range					30.000	30.000	30.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	383023	--	--	--	--	--	--
SDev	4293.909	--	--	--	--	--	--
%RSD	1.121057	--	--	--	--	--	--
#1	387808	--	--	--	--	--	--
#2	379505	--	--	--	--	--	--
#3	381757	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSA Operator:
Run Time: 10/03/96 20:28:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01190	.00419	.00296	.00468	.00329	-.00531	.00090
SDev	.00014	.00004	.00015	.00019	.00016	.00067	.00007
%RSD	1.1355	.96859	4.9243	4.0603	4.9762	12.558	7.8530
#1	.01196	.00423	.00308	.00471	.00348	-.00454	.00095
#2	.01200	.00419	.00280	.00448	.00320	-.00566	.00094
#3	.01174	.00415	.00299	.00486	.00319	-.00571	.00085

Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.00500	.00500	.05000	.01000	.02500	.01500
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	Zr3271
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00293	.00016	-.00130	.00483	-.00447	0.01539	.00621
SDev	.00087	.00103	.00014	.00005	.00246	.00291	.00263
%RSD	29.791	631.70	10.775	.97802	55.035	18.910	42.329
#1	.00370	.00084	-.00130	.00486	-.00230	0.01211	.00473
#2	.00311	.00068	-.00144	.00486	0-.00714	0.01639	.00924
#3	.00198	-.00103	-.00116	.00478	-.00397	0.01767	.00468
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	Zr3271	206871	206872	196071	196072	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00211	.01017	-.00250	.00543	-.00418	460.06	427.42
SDev	.00387	.00221	.00141	.00303	.00799	6.84	6.20
%RSD	175.38	21.691	55.581	55.892	190.98	1.4701	1.5184
#1	-.00591	.01190	-.00132	.00193	.00042	472.69	435.47
#2	-.00254	.00769	-.00220	.00708	.00043	463.01	426.37
#3	.00182	.01093	-.00421	.00727	-.01340	459.49	422.02
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						100.00	100.00
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	188.55	506.74	.01642	-.49557	.00062	-.00096	.00167
SDev	3.52	8.90	.00861	.01014	.00265	.00487	.00120
%RSD	1.8662	1.7565	52.459	2.0454	427.24	505.76	72.164
#1	192.56	516.94	.02512	-.50100	-.00234	.00094	.00300
#2	187.13	502.74	.00790	-.48387	.00141	.00267	.00111
#3	185.97	500.54	.01622	-.50183	.00279	0-.00650	.00084
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			.00000	.00000	.00000
Range	40.000	100.00			.00300	.00500	.00500

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	366741	--	--	--	--	--	--
SDev	5769.918	--	--	--	--	--	--
%RSD	1.573295	--	--	--	--	--	--
#1	360092	--	--	--	--	--	--
#2	370483	--	--	--	--	--	--

Method: EPA3 Sample Name: ICSAB Operator:
Run Time: 10/03/96 20:33:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Co2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50603	.49165	.94902	.47801	.47832	.50393	.49168
SDev	.00773	.00730	.01316	.00750	.00759	.00756	.00747
%RSD	1.5278	1.4849	1.3866	1.5688	1.5862	1.5046	1.5198
#1	.51450	.49902	.96168	.48510	.48334	.51241	.49940
#2	.50422	.49149	.94360	.47876	.47910	.50159	.49100
#3	.49936	.48443	.93508	.47016	.47054	.49730	.48434
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	1.0000	.50000	.50000	.50000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Ni2316	Ag3280	[illegible] 2924	Zn2138	As1890	Cd1908	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93422	1.1124	.46421	.99846	1.0033	.96126	.97474
SDev	.01469	.0156	.00736	.01465	.0112	.01174	.00394
%RSD	1.5729	1.4068	1.5847	1.4671	1.1471	1.2210	.40440
#1	.94962	1.1296	.47171	1.0138	1.0171	.97239	.97694
#2	.93270	1.1086	.46290	.99691	.99873	.96240	.97334
#3	.92035	1.0990	.45701	.98465	.99590	.94900	.96594
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1.0000	1.0000	.50000	1.0000	1.0000	1.0000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Al3082	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94922	1.0241	1.0264	1.0026	.97268	464.90	428.49
SDev	.01819	.0199	.0104	.0034	.01384	6.91	6.19
%RSD	1.9167	1.9409	1.0095	.33923	1.4228	1.4858	1.4454
#1	.96483	1.0376	1.0383	1.0025	.98262	472.46	434.57
#2	.95360	1.0334	1.0215	.99926	.97854	463.32	428.71
#3	.92924	1.0013	1.0194	1.0061	.95687	458.91	422.19
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						500.00	500.00
Range						20.000	20.000

Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	190.35	513.26	.00381	2.1128	.95708	.98267	1.0257
SDev	3.02	8.02	.00388	.0418	.01344	.00836	[illegible]
%RSD	1.5842	1.5624	101.84	1.9789	1.4043	.85023	[illegible]
#1	193.34	521.22	[illegible]	2.1610	.96868	.98927	[illegible]

#3	187.31	505.18	.00210	1.0000	.94155	.97127	1.0161
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	200.00	500.00			1.0000	1.0000	1.0000
Range	20.000	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	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	368707	--	--	--	--	--	--
SDev	3308.218	--	--	--	--	--	--
%RSD	.8972493	--	--	--	--	--	--
#1	365079	--	--	--	--	--	--
#2	369484	--	--	--	--	--	--
#3	371557	--	--	--	--	--	--

Method: EPA3 Sample Name: CCV Operator:
Run Time: 10/03/96 20:28:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9590	1.9992	1.9907	1.9959	1.9919	1.9817	1.9889
SDev	.0126	.0155	.0148	.0132	.0148	.0145	.0137
%RSD	.64065	.77616	.74497	.66019	.74468	.73328	.68902
#1	1.9733	2.0171	2.0078	2.0111	2.0089	1.9984	2.0046
#2	1.9496	1.9897	1.9821	1.9879	1.9819	1.9719	1.9793
#3	1.9541	1.9908	1.9822	1.9887	1.9848	1.9748	1.9828
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ni2316	Ag3280	V 2924	Zn2138	As1890	Tl1908	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9908	.24224	1.9984	1.9801	2.0113	1.9847	1.9973
SDev	.0150	.00180	.0141	.0141	.0127	.0232	.0116
%RSD	.75372	.74289	.70507	.71294	.63311	1.1677	.58946
#1	2.0061	.24430	2.0146	1.9964	2.0250	2.0115	2.0047
#2	1.9901	.24096	1.9888	1.9719	2.0093	1.9709	1.9838
#3	1.9761	.24146	1.9918	1.9720	1.9997	1.9717	2.0038
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	2.0000	.25000	2.0000	2.0000	2.0000	2.0000	
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Elem	2203/2	2068/1	2068/2	1960/1	1950/2	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0001	1.9934	1.9751	2.0021	[illegible]	[illegible]	[illegible]
SDev	.0113	[illegible]	.0165	.0220	.0126	.083	[illegible]

#1	2.0130	2.0043	1.9922	2.0183	2.0176	38.334	37.313
#2	1.9951	1.9889	1.9593	1.9770	1.9124	38.454	37.998
#3	1.9922	1.9931	1.9737	2.0111	2.0025	38.436	37.433
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						40.000	40.000
Range						5.0000	5.0000
Elem	Fe2714	Mg2790	K 7664	Na5889	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.131	39.534	40.275	39.703	1.9992	2.0037	1.9[illegible]
SDev	.299	.299	.290	.282	.0049	.0152	.0130
%RSD	.76426	.75518	.71990	.70986	.48321	.76063	.66674
#1	39.471	39.879	40.590	40.026	2.0003	2.0180	[illegible]
#2	38.909	39.348	40.197	39.530	1.9913	1.9877	[illegible]
#3	39.013	39.376	40.032	39.551	1.9990	2.0004	[illegible]
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	40.000	40.000	40.000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
totd	1	2	3	4	5	6	7
mode	#Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	382879	--	--	--	--	--	--
SDev	817.7098	--	--	--	--	--	--
%RSD	.2135685	--	--	--	--	--	--
#1	381956	--	--	--	--	--	--
#2	383512	--	--	--	--	--	--
#3	383170	--	--	--	--	--	--

Method: EPA3 Sample Name: CCB Operator:
Run Time: 10/03/96 20:43:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.00052	.00059	.00064	.00008	-.00083	-.00015
SDev	.00007	.00006	.00002	.00022	.00021	.00068	.00008
%RSD	29.535	11.902	2.6161	33.497	259.15	81.952	50.478
#1	.00015	.00059	.00061	.00044	-.00003	-.00147	-.00018
2	.00027	.00048	.00059	.00062	-.00005	-.00092	-.00029
3	.00027	.00048	.00058	.00087	.00032	-.00011	-.00000
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	.00500	.00500	.05000	.01000	.02500	.01000
Elem	Ni2316	Mg2280	K 2024	Zn2138	Fe2714	Pb2203	[illegible]

Avge	.00017	.00023	.00052	-.00020	[illegible]	[illegible]	[illegible]
SDev	.00023	.00015	.00062	.00013	[illegible]	[illegible]	[illegible]
%RSD	129.88	66.024	118.45	65.069	46.74[illegible]	1[illegible].70	39.131
#1	.00032	.00017	[illegible]	-.00006	-.00137	-.00045	-.00328
#2	-.00009	.00012	.00043	-.00033	-.00132	0.00068	-.00315
#3	.00029	.00040	.00118	-.00022	-.00101	.00211	-.00144
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.04000	.01000	.05000	.02000	.00500	.00500	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	413062	Ca317/9
units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00214	.00060	[illegible]	.00455	[illegible]	[illegible]	[illegible]
SDev	.00099	[illegible]	[illegible]	.00555	[illegible]	[illegible]	[illegible]
%RSD	46.474	23[illegible].23	59.58[illegible]	122.12	67.2[illegible]	[illegible]	64.[illegible]
#1	.00302	-.00[illegible]	[illegible]	.00485	[illegible]	[illegible]	[illegible]
#2	.00106	.00173	-.00072	.00502	[illegible]	.00862	.01007
#3	.00234	.00104	-.00241	-.00123	[illegible]	[illegible]	[illegible]
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	[illegible]	[illegible]
Value						[illegible]	[illegible]
Range						.20000	[illegible]
Elem	Fe2714	Mg2790	K 7664	Na3889	Pb2[illegible]	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04677	.05443	.01622	-.14352	.00058	-.00000	-.00079
SDev	.01074	.01577	.00182	.00610	.00078	.00126	.00076
%RSD	22.973	28.978	11.204	4.2507	133.33	28145.	100.49
#1	-.05455	.07258	.01715	-.13740	.00095	.00145	-.00113
#2	-.05125	.04405	.01739	-.14354	-.00031	-.00069	.00042
#3	-.03451	.04667	.01413	-.14960	.00111	-.00077	-.00125
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	5.0000	5.0000	5.0000	.00300	.00500	.00500
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	390104	--	--	--	--	--	--
SDev	4615.631	--	--	--	--	--	--
%RSD	1.183178	--	--	--	--	--	--
1	384775	--	--	--	--	--	--
#2	392821	--	--	--	--	--	--
#3	392717	--	--	--	--	--	--

CLP

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... :	2857	PREP DATE..... :	10/3/96
METHOD BLANK..... :	2857	PREP TIME START :	10:35
		PREP TIME END :	6:00
LAB CONTROL CHECK :	2857	——>SOURCE LOT # :	ERA#228
MATRIX DUPE..... :	2857	——>LAB SAMPLE ID :	E15016-1
MATRIX SPIKE ... :	2857	——>LAB SAMPLE ID :	E15016-1

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP 2857 MB1				100 ml	10ml 1:1 HNO3	
	MP2857 LC1	1.00089				5ml conc HNO3	
	MP 2857 S1	1.00g				5ml H2O2	2ml HCl 5+
	MP 2857 B1					5ml 1:1 HCl	2ml Ag spam
	MP 2857 D1	1.00g					
	MP 2857 SD1						
1	E15016-1	1.009	89.9	0.899			
2	~~E15016-2~~	~~1.00g~~					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→							

this line is use for any additional QC requirements

SIGNATURE Dipti DATE 10/3/96
COMMENTS MP2857

METALS BY ICAP DIGESTION LOG
SOIL MATRIX

PREP BATCH..... : MP2857-MB	PREP DATE..... : 10-3-96
METHOD BLANK..... : MP2857-MB2	PREP TIME START : 15:00
	PREP TIME END : 17:30
LAB CONTROL CHECK : MP2857-LC2	——>SOURCE LOT # : ER0228
MATRIX DUPE..... :	——>LAB SAMPLE ID :
MATRIX SPIKE ... :	——>LAB SAMPLE ID :

	SAMPLE ID	WET WT/g	% SOL.	DRY WT/g	FIN. VOL.	ACID USED	COMMENTS
	MP2857-MB2				200	10ml 1:1 HNO3 5ml Conc HCl	
	MP2857-LC2	1.0001		1.00		5ml H2O 5ml HNO3 5ml H2O2 5ml 1:1 HCl	
1	E16016-2	1.00	96.9	0.969	↓	↓	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
→							

this line is use for any additional QC requirements

SIGNATURE Brent Bue DATE 10-3-96
COMMENTS

CLP-SAMPLE DESCRIPTION LOG
FOR SAMPLE PREPERATION

sample number	color before	color after	clarity before	clarity after	texture	artifacts
E 1 5 0 16-1	Brown	yellow			Sandy/medium	
E15016-2	Brown	yellow			Sandy/medium	

Date of sample preperation: 10/3/96 Sample prepared by: [illegible]

Comments:

C/P E15016

Accutest New Jersey

DATA REVIEW REPORT (rev01)

Worknum: GN6164

Oct 04, 1996 08:40 am

Function: GENCHEM

Analyst: LEN Instrument: NONE Run Date: 03-OCT-96

Sample	Tag	Parameter	CAS No.	M	Type	Result	Units	Qual	Text	RDL	R.T.	Prod
E15016-1		Wet Weight (Total)		N	RAW	28.54	g					%SOL
E15016-1		Tare Weight		N	RAW	18.04	g					%SOL
E15016-1		Dry Weight (Total)		N	RAW	27.48	g					%SOL
E15016-1		Solids, Percent		Y	REG	89.9	%					%SOL
E15016-1		Moisture, Percent		N	REG	10.1	%					%SOL
E15016-2		Wet Weight (Total)		N	RAW	2.1083	g					%SOL
E15016-2		Tare Weight		N	RAW	1.2659	g					%SOL
E15016-2		Dry Weight (Total)		N	RAW	2.0818	g					%SOL
E15016-2		Solids, Percent		Y	REG	96.9	%					%SOL
E15016-2		Moisture, Percent		N	REG	3.1	%					%SOL
GN6164-D1		Wet Weight (Total)		N	RAW	30.79	g					%SOL
GN6164-D1		Tare Weight		N	RAW	20.23	g					%SOL
GN6164-D1		Dry Weight (Total)		N	RAW	29.76	g					%SOL
GN6164-D1		Solids, Percent		Y	REG	90.2	%					%SOL
GN6164-D1		Solids, Percent		Y	RPD	0.3	%					%SOL
GN6164-D1		Moisture, Percent		N	REG	9.8	%					%SOL
GN6164-D1		Moisture, Percent		N	RPD	3.	%					%SOL

%SOLIDS,
METHOD REFERENCE: EPA 160.3M
MDL: 2.0
UNITS: %

GN 6164

104°C Start 0845 (w/s) *
End 7:30 (10/4)

ANALYST: Lm
DATE: 10-3-96

SAMPLE ID	G (WET) TOTAL WT (B)	G TARE WT (A)		G (WET) SAMP WT	G (DRY) TOTAL WT (C)	G (DRY) SAMPLE WT	% SOLIDS	RPD
1 E15016-1	28.54	18.04	MS		27.48		89.9	
E15016-1 DUP	30.79	20.23	SG		29.76		90.3	
2 E15016-2	2.1083	1.2659			2.0818		96.9	
3								
4								
5								
6								
7								
8								
9								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
REDRY 1 E15016-1	30.79	20.23	SG		29.76			
REDRY 2								

COMMENTS: Lmch

* Sample E15016-2 put in the oven at 16:00 10/3/96

QC REVIEW: (Initials) 10-3-96 DATE: