ENVIRONMENTAL SERVICES ASSISTANCE TEAM -- ZONE 2

ICF Technology, Inc.

ManTech Environmental Technology, Inc.

ESAT Region 7
ManTech Env. Tech., Inc.
25 Funston Road
Kansas City, KS 66115
(913) 551-5000

To: Mike Thomas
ENAN Section Chief

Through: Harold Brown, Ph.D. 12/2/94
Deputy Project Officer for Region 7 ESAT, EPA

From: Tabatha J. Adkins
Scientist, ESAT

Through: Ron Ross RAR
Region 7 ESAT Team Leader

Date: **December 01, 1994**

Subject: Case narrative and assignment completion.

Report:.....McDonnell Douglas
TID#:.....07-9409-505
ICF Acct. #:.....045-05-505-01
METI Sales Order:.....1113-505
EPA Activity #:.....ADF04
ESAT Document Control #:.....ESAT-7-505-5008

ESAT was assigned 19 soil samples for total metals by ICAP, mercury, cyanides and % solids and 5 water samples for total metals by ICAP, GFAA (W05), cyanides and mercury. This project was completed on 12/01/94. This is the final report.

Discussion

All data has been entered into LAST. LAST and Lotus sheets are attached. If any QC outliers are present, they are explained on an attached note to file. The Data Quality Assessment Record is attached.

30289826
Superfund

ENVIRONMENTAL SERVICES ASSISTANCE TEAM -- ZONE 2

ICF Technology, Inc.

ManTech Environmental Technology, Inc.

ESAT Region 7
ManTech Env. Tech., Inc.
25 Funston Road
Kansas City, KS 66115
(913) 551-5000

DATE: December 2, 1994

SUBJECT: Activity Number: ADF04
Site Description: McDonnell Douglas

FROM: Francis Zigmund

TO: LABO Primary File

ESAT's comments regarding the subject activity are as follows:

Sample Numbers: 001-019 (Soil - Total Metals)

The matrix spike and duplicate recoveries for QC samples related to the sample numbers listed above were not in control. The Laboratory Control Sample was in control. The recovery deviations for the specific QC samples are shown in Table 1.

Table 1
[SPIKE RECOVERIES VS CONTROL LIMITS]

Sample 001 Spiked

Elements	Spike Rec.	Dupl. Rec.	LCL	UCL
Silver (Ag)	127	129	*	113
Arsenic (As)	180	185	*	126
Cadmium (Cd)	131	134	*	127
Selenium (Se)	132	126	*	119
Vanadium (V)	149	146	*	122

LCL - Lower Control Limit; UCL - Upper Control Limit; * - In Control

The recovery deviations in the spike were attributed to matrix interference effects in the spiked sample.

Even though, due to matrix interferences, exact concentrations cannot be reported for elements listed in Table 1, maximum and minimum concentrations can be predicted with relative certainty. The concentration ranges are reported in Table 2.

Table 2
[Soil - Results reported in mg/Kg]

Sample #	001	002	003	004	005
Ag	0.615U	0.615U	0.615U	0.615U	0.615U
As	12.1-22.4	11.1-20.5	8.86-16.4	7.51-13.9	7.51-13.9
Cd	0.487U-0.620	0.487U	0.487U	0.487U	0.487U
Se	3.090U-3.71	3.090U	3.090U	3.090U	3.090U
V	19.7-29.3	16.3-24.3	15.0-22.4	12.3-16.8	11.0-16.4
Sample #	**006**	**007**	**008**	**009**	**010**
Ag	6.15U	0.615U	0.615U	0.615U	0.737-0.951
As	1.26-2.33	11.7-21.7	2.63-4.87	23.8-44.1	3.01-5.57
Cd	0.487U-6.21	0.487U	0.531-0.712	0.487U	1.10-1.48
Se	3.090U	3.090U	3.090U-3.14	3.090U	3.090U
V	3.050U	14.0-20.9	3.79-5.64	27.5-41.0	3.33-4.96
Sample #	**011**	**012**	**013**	**014**	**015**
Ag	0.615U	0.615U	0.615U	0.615U	0.615U
As	7.67-14.2	13.1-24.3	14.3-26.5	10.1-18.6	7.62-14.1
Cd	0.487U	0.487U	0.487U	0.487U	0.487U
Se	3.090U	3.090U	3.090U	3.090U	3.090U
V	9.40-14.0	17.4-26.0	16.4-24.4	12.8-19.0	9.76-14.5
Sample #	**016**	**017**	**018**	**019**	**-----**
Ag	0.615U	0.615U	0.615U	0.615U	
As	10.3-19.0	13.8-25.5	13.5-24.9	25.9-48.0	
Cd	0.487U	0.487U	0.487U	0.487U	
Se	3.090U	3.090U	3.090U	3.090U	
V	11.4-17.0	15.0-22.2	14.8-22.0	22.1-33.0	

Sample Numbers: 022-026 (Water - Total Metals)

Slight Zinc contamination was found in the Method Reagent Blank. In accordance with Laboratory policy, only those samples containing Zinc at levels less than five times the level of contamination found in the blank have been "U" coded, indicating the Method Detection Limit has been raised to the level of Zinc found in the sample. In no case would the actual level of Zinc in these samples be greater than the "U" coded value shown.

This data substantially fulfills the data requirements of the work order under which the analyses were performed.

PL: Bob Dona, EDSB

USEPA Region VII Analytical Services Request (ASR) Form

Activity No.: ~~R07014~~ ADF04 Date: Sept 23, 1994
Site Name, City, & State: McDonnell-Douglas St Charles Facility, St Charles, Missouri
EPA Project Manager: Ms. Pat Reitz
Section/Branch: PRMT/RCRA Phone No.: (913) 551-7674
Contractor Contact: Ed Moriarty
Contractor: SAIC Phone No.: (703) 734-3122
Projected Sample Delivery Date: ~~Oct 20, 1994~~ 12/2/94
Funding Program Element:

LEW ESAT

Lew 10-28-94

Request Summary:

No. of Samples	Matrix	Group/Parameter Name	Group/Parameter MGP Code
21	Soil	~~Pr~~ SVOCs, Metals + Hg, CN ~~% solid~~	SS, S~~26~~ 28, ST09 SG07
10	Water	SVOCs, Metals + Hg, CN	WS, W05, WT09
5	Water	VOCs	WV

Use additional pages as needed for clarity.

Levels Of Interest Are Specified (mark one): In The QA Document-☒
or On The Back-☐

Special Requirements or Comments:

- Require quick Turn around of samples - 21 day (No later than 11/20/94)
- Soil samples will be delivered in sample tubes. Sample aliquots will have to be extracted for VOC analysis. Remainder ~~to~~ of sample should be divided among respective labs., and homogenized prior to analysis.

NOTE: Submit This Form To RQAM/ENSV 30 Days Before Sample Delivery

Approvals:

Pat Reitz 10/3/94 Robert
EPA Project Manager (Date) EPA Branch

5 VOC (ALL) go to EPA Per Mike

The Following Is Completed By ENSV

QA Document: ☐-Generic QAPP ☐-Site Specific QAPP ☐-

Concurrences:

RQAM: DRAFT Comment:

Chief, LABO: M. Thomas B 10/14/94 Comment:

Laboratory Assignment: ☐-Other

☒-Region VII 5 Water VOCs per M. Thomas

☒-ESAT

☐-CLP

☐-RECAP

Scheduled Completion:

☐-Routine:
- Non-CLP = 4 weeks
- CLP = 8 weeks

☐-Other:

Date:

Amended 10/27/94 ds change sample delivery date ESAT and Lab Assignment

LEO ESAT 11-17-94

To: #SAMPLENOTIFY

From: "Diane Jacks" <R7ENSV/DJACKS>
Date: 17 Nov 94 12:47:11
Subject: SAMPLE RECEIPT NOTICE-ADF04

DATE SAMPLES RECEIVED: 11/17/94
ACTIVITY NUMBER: ADF04
ACTIVITY NAME: MCDONNELL-DOUGLAS
DUE DATE: 21 DAY TAT

SAMPLE NUMBERS	MATRIX	PARAMETERS
001,002,003,004,006,007 008,009,010D,011D,012,013, 014,015,016,017	SOIL	SV VOA, SS BNA, S26 MET, ST09 CYANIDE
005F	SOIL	SV VOA
018, 019	SOIL	S26 MET, ST09 CYANIDE
022,023,024,025F,026	WATER	WV VOA, WS BNA, W05 DRINK WATER SPFD MET, WT09 CYANIDE

REMARKS: SAMPLES STORED IN 171 REFRIG VOA IN ESAT REFRIG. ACTIVITY INCOMPLETE. SAMPLES COLLECTED 11/14. CONTAINERS LABELED WITH GREEN DOT.

Due Date = 12-2-94

Jim
ESA7

JK
11/18/94

To: #SAMPLENOTIFY
From: "Diane Jacks" <R7ENSV/DJACKS>
Date: 17 Nov 94 16:54:18
Subject: SAMPLE RECEIPT CORRECTION-ADF04

PLEASE CHANGE ADF04 SAMPLE NUMBER 010D AND 011D TO 010 AND 011.

THANK YOU.

Due 12/2/94

DEC 1994
RECEIVED

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: CYANIDES Matrix: WATER Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: _____ Analyst (or contract laboratory data reviewer) _____ Reviewer

Sample Numbers:

955M,955G			
022, 023, 024			
025F, 026, 026S			
026W			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?			X
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?	X		
Were matrix spike duplicate recoveries in control?	X		
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

Revision 5: 10/11/93

MKT

ANALYSIS TYPE: TOTAL CYANIDES

TITLE: ADF04 MATRIX: WATER UNITS: MG/L
LAB: REGION VII ESAT METHOD: 3351W03 CASE: N/A
SAMPLE PREP: TJA ANALYST: TJA REVIEWER: DATE: 11-29-94

SPIKE RECOVERIES

ADF04026	ADF04026S	ADF04026R	ADF04026%
0.002 U	0.096	0.100	96.0

ADF04026	ADF04026W	ADF04026B	ADF04026%
0.002 U	0.101	0.100	101

DUPLICATE COMPARISON

ADF04026S	ADF04026W	RPD
0.096	0.101	5.076

METHOD STANDARD RESULTS

ADF04955G	ADF04955H	% RECOVERY
0.043	0.050	85.3

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: CYANIDES Matrix: SOIL Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: Analyst _____ Reviewer _____
(or contract laboratory data reviewer)

Sample Numbers:

952M, 952G, 001
001S, 001W, 002
003 - 019

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?			X
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?	X		
Were matrix spike duplicate recoveries in control?	X		
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

Revision 5: 10/11/93

MKT

ANALYSIS TYPE: TOTAL CYANIDES

TITLE: ADF04 MATRIX: SOIL UNITS: MG/KG
LAB: REGION VII ESAT METHOD: 3351W03 CASE: N/A
SAMPLE PREP: TJA ANALYST: TJA REVIEWER: DATE: 11-29-94

SPIKE RECOVERIES

ADF04001	ADF04001S	ADF04001R	ADF04001%
0.04 U	0.75	1.292	58.1

ADF04001	ADF04001W	ADF04001B	ADF04001%
0.04 U	0.91	1.292	70.5

DUPLICATE COMPARISON

ADF04001S	ADF04001W	RPD
0.751	0.91	0.17

METHOD STANDARD RESULTS

ADF04952G	ADF04952H	% RECOVERY
0.675	0.63	107

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: MERCURY Matrix: WATER Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: Analyst (or contract laboratory data reviewer) ____ Reviewer ____

Sample Numbers:

960M, 960G			
022, 023, 024			
025F, 026, 026S			
026W			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?			X
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?	X		
Were matrix spike duplicate recoveries in control?	X		
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

MKT

ANALYSIS TYPE: TOTAL MERCURY-ADF04

TITLE: McDONNELL-DOUGLAS MATRIX: WATER UNITS: UG/L
LAB: REGION VII ESAT METHOD: 3121.14A CASE: N/A
SAMPLE PREP: KL ANALYST: KL REVIEWER: DATE: 11/29/94

MATRIX SPIKE RECOVERY

ELEMENT	ADF04022	ADF04022S	ADF04022R	ADF04022%
MERCURY	0.100 U	0.987	1.00	99

MATRIX SPIKE DUPLICATE RECOVERY

ELEMENT	ADF04022	ADF04022W	ADF04022B	ADF04022%
MERCURY	0.100 U	1.03	1.00	103

MATRIX SPIKE DUPLICATE COMPARISON

ELEMENT	ADF04022S	ADF04022W	ADF04022%
MERCURY	0.987	1.03	4

METHOD STANDARD RECOVERY

ELEMENT	ADF04960G	ADF04960H	ADF04960%
MERCURY	2.83	2.93	97

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: MERCURY Matrix: SOIL Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: _____ Analyst (or contract laboratory data reviewer) _____ Reviewer

Sample Numbers:

961M, 961G, 001			
001S, 001W, 002			
003 - 019			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?			X
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?	X		
Were matrix spike duplicate recoveries in control?	X		
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

Revision 5: 10/11/93

MKT

ANALYSIS TYPE: TOTAL MERCURY-ADF04

TITLE: McDONNELL-DOUGLAS MATRIX: SOIL UNITS: MG/KG
LAB: REGION VII ESAT METHOD: 3121.14A CASE: N/A
SAMPLE PREP: KL ANALYST: KL REVIEWER: DATE: 11/29/94

MATRIX SPIKE RECOVERY

ELEMENT	ADF04001	ADF04001S	ADF04001R	ADF04001%
MERCURY	0.0383	0.109	0.0646	106

MATRIX SPIKE DUPLICATE RECOVERY

ELEMENT	ADF04001	ADF04001W	ADF04001B	ADF04001%
MERCURY	0.0383	0.114	0.0646	111

MATRIX SPIKE DUPLICATE COMPARISON

ELEMENT	ADF04001S	ADF04001W	ADF04001%
MERCURY	0.109	0.114	4

METHOD STANDARD RECOVERY

ELEMENT	ADF04961G	ADF04961H	ADF04961%
MERCURY	11.6	12.7	91

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: TOTAL METALS Matrix: WATER Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: _____ Analyst (or contract laboratory data reviewer) _____ Reviewer

Sample Numbers:

950M, 950G			
022, 023, 024			
025F, 026, 026S			
026W			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?	X		
If yes, were blank rules applied to the data?	X		
3. Spikes:			
Were matrix spike recoveries in control?	X		
Were matrix spike duplicate recoveries in control?	X		
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

MKT

ANALYSIS TYPE:TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS: UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST:TJA DATE: 12-01-94

METHOD STANDARD RESULTS

		5ADF04950G	5ADF04950H	% RECOVERY
WM01	SILVER	98.5	93.7	105
WM02	ALUMINUM	948	1000	95
WM27	ARSENIC	47.3	50	95
WM04	BARIUM	932.3984	1000	93
WM05	BERYLLIUM	91.23204	100	91
WM06	CADMIUM	88.30548	100	88
WM07	COBALT	89.10433	100	89
WM08	CHROMIUM	89.3646	100	89
WM09	COPPER	946.1053	1000	95
WM10	IRON	932.1871	1000	93
WM11	MANGANESE	890.0879	1000	89
WM12	MOLYBDENUM	97.0287	100	97
WM13	NICKEL	893.7429	1000	89
WM30	LEAD	48.7	50	97
WM31	ANTIMONY	921	1000	92
WM32	SELENIUM	47.2	50	94
WM17	TITANIUM	888.3116	1000	89
WM33	THALLIUM	43.2	50	86
WM19	VANADIUM	93.50091	100	94
WM20	ZINC	950.4999	1000	95
WM21	CALCIUM MG/L	117.2584	122	96
WM22	MAGNESIUM MG/L	86.94475	100	87
WM23	SODIUM MG/L	92.64227	92.3	100
WM24	POTASSIUM MG/L	91.17264	91.7	99

ANALYSIS TYPE:TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS: UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

SPIKE RESULTS

			5ADF04026	5ADF04026S	5ADF04026R	% RECOVERY
WM01	SILVER		7.88 U	72.9248	93.7	78
WM02	ALUMINUM		50.7 U	921.23913	1000	92
WM27	ARSENIC		1.66 U	36.8	50	74
WM04	BARIUM		3.94 U	938.89019	1000	94
WM05	BERYLLIUM		0.995 U	92.48092	100	92
WM06	CADMIUM		3.69 U	91.49502	100	91
WM07	COBALT		5.31 U	91.87442	100	92
WM08	CHROMIUM		14.2 U	90.23612	100	90
WM09	COPPER		8.32 U	951.77807	1000	95
WM10	IRON		65.9 U	915.6842	1000	92
WM11	MANGANESE		1.53 U	899.54089	1000	90
WM12	MOLYBDENUM		5.62 U	95.68991	100	96
WM13	NICKEL		11.5 U	902.76647	1000	90
WM30	LEAD		0.557 U	43.1	50	86
WM31	ANTIMONY		4.37 U	1108	1000	111
WM32	SELENIUM		1.81 U	44.1	50	88
WM17	TITANIUM		15.2 U	872.72723	1000	87
WM33	THALLIUM		2.8	34.9	50	66
WM19	VANADIUM		2.51 U	89.51563	100	90
WM20	ZINC		14.73236 U	959.42724	1000	96
WM21	CALCIUM	MG/L	1.1 U	116.04022	122	95
WM22	MAGNESIUM	MG/L	1.03 U	84.85266	100	85
WM23	SODIUM	MG/L	1.61 U	89.57014	92.3	97
WM24	POTASSIUM	MG/L	1.04 U	88.31175	91.7	96

ANALYSIS TYPE:TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS: UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

SPIKE RESULTS

		5ADF04026	5ADF04026W	5ADF04026B	% RECOVERY
WM01	SILVER	7.88 U	74.88106	93.7	80
WM02	ALUMINUM	50.7 U	928.16455	1000	93
WM27	ARSENIC	1.66 U	40.1	50	80
WM04	BARIUM	3.94 U	958.63262	1000	96
WM05	BERYLLIUM	0.995 U	94.14656	100	94
WM06	CADMIUM	3.69 U	90.45002	100	90
WM07	COBALT	5.31 U	92.79779	100	93
WM08	CHROMIUM	14.2 U	90.24363	100	90
WM09	COPPER	8.32 U	977.3009	1000	98
WM10	IRON	65.9 U	921.8067	1000	92
WM11	MANGANESE	1.53 U	913.74218	1000	91
WM12	MOLYBDENUM	5.62 U	98.36414	100	98
WM13	NICKEL	11.5 U	918.92785	1000	92
WM30	LEAD	0.557 U	41.8	50	84
WM31	ANTIMONY	4.37 U	815	1000	82
WM32	SELENIUM	1.81 U	41.7	50	83
WM17	TITANIUM	15.2 U	881.1687	1000	88
WM33	THALLIUM	2.8	31.5	50	60
WM19	VANADIUM	2.51 U	93.19435	100	93
WM20	ZINC	14.73236 U	967.04406	1000	97
WM21	CALCIUM MG/L	1.1 U	117.02416	122	96
WM22	MAGNESIUM MG/L	1.03 U	86.38908	100	86
WM23	SODIUM MG/L	1.61 U	90.99868	92.3	99
WM24	POTASSIUM MG/L	1.04 U	90.22402	91.7	98

ANALYSIS TYPE: TOTAL WATER METALS

TITLE: ADF04
REGION VII EPA
SAMPLE PREP:TJA

MATRIX: WATER UNITS:UG/L
METHOD: 6010
ANALYST:TJA DATE: 12-01-94

DUPLICATE COMPARISON

		5ADF04026S	5ADF04026W	RPD
WM01	SILVER	72.9248	74.88	1.872
WM02	ALUMINUM	921.239	928.2	0.530
WM27	ARSENIC	36.8	40.1	6.069
WM04	BARIUM	938.89	958.6	1.471
WM05	BERYLLIUM	92.4809	94.15	1.262
WM06	CADMIUM	91.495	90.45	0.812
WM07	COBALT	91.8744	92.8	0.707
WM08	CHROMIUM	90.2361	90.24	0.006
WM09	COPPER	951.778	977.3	1.871
WM10	IRON	915.684	921.8	0.471
WM11	MANGANESE	899.541	913.7	1.108
WM12	MOLYBDENUM	95.6899	98.36	1.949
WM13	NICKEL	902.766	918.9	1.255
WM30	LEAD	43.1	41.8	2.165
WM31	ANTIMONY	1108	815	21.548
WM32	SELENIUM	44.1	41.7	3.956
WM17	TITANIUM	872.727	881.2	0.681
WM33	THALLIUM	34.9	31.5	7.241
WM19	VANADIUM	89.5156	93.19	2.847
WM20	ZINC	959.427	967	0.559
WM21	CALCIUM	116.04	117	0.597
WM22	MAGNESIUM	84.8527	86.39	1.269
WM23	SODIUM	89.5701	91	1.119
WM24	POTASSIUM	88.3118	90.22	1.515

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: TOTAL METALS Matrix: SOIL Activity #: ADF04

Activity Name: MCDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures:
Analyst _____ Reviewer _____
(or contract laboratory data reviewer)

Sample Numbers:

951M, 951G			
001, 001S, 001W			
002 - 019			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?			X
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?			X
Were matrix spike duplicate recoveries in control?			X
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?	X		
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

Revision 5: 10/11/93

MKI

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
PREP: TJA ANALYST: TJA DATE: 12-01-94

METHOD STANDARD RESULTS

	5ADF04951G	5ADF04951H	% RECOVERY
SILVER	27.407	22.20	123
ALUMINUM	348.405	325.00	107
ARSENIC	977.721	917.00	107
BARIUM	4.979	4.80	104
BERYLLIUM	20.741	19.40	107
CADMIUM	41.847	45.40	92
COBALT	134.160	144.00	93
CHROMIUM	92.327	99.60	93
COPPER	7092.593	6910.00	103
IRON	18318.148	22430.00	82
MANGANESE	186.430	208.00	90
MOLYBDENUM	46.924	46.924	100
NICKEL	65.207	60.90	107
LEAD	239.577	236.00	102
ANTIMONY	287.915	211.00	136
SELENIUM	46.350	39.20	118
THALLIUM	54.155	39.00	139
VANADIUM	68.560	65.80	104
ZINC	226.715	187.00	121
CALCIUM	183333.333	196200.00	93
MAGNESIUM	102827.476	118100.00	87
SODIUM	199.580	199.580	100
POTASSIUM	25.500	25.500	100

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
PREP: TJA ANALYST: TJA DATE: 12-01-94

SPIKE RESULTS

	5ADF04001	5ADF04001S	5ADF04001R	% RECOVERY
SILVER	0.615 U	25.410	20.00	127
ALUMINUM	12218.583	28683.641	10200.00	128
ARSENIC	22.397	76.294	20.00	180
BARIUM	161.307	290.532	120.00	103
BERYLLIUM	0.923	18.541	20.00	89
CADMIUM	0.620	27.025	20.00	131
COBALT	7.147	29.670	20.00	109
CHROMIUM	17.728	47.006	20.00	125
COPPER	21.908	48.896	20.00	117
IRON	12352.857	52218.937	40000.00	100
MANGANESE	373.931	854.806	540.00	94
MOLYBDENUM	0.393 U	16.942	20.00	85
NICKEL	20.532	49.133	20.00	121
LEAD	41.178	174.275	120.00	108
ANTIMONY	2.643	196.563	220.00	88
SELENIUM	3.705	31.218	20.00	132
THALLIUM	3.150 U	205.505	200.00	103
VANADIUM	29.285	73.486	20.00	149
ZINC	113.596	525.218	420.00	98
CALCIUM	13245.704	31380.394	20000.00	94
MAGNESIUM	4577.616	20111.787	20000.00	82
SODIUM	247.315	20348.544	20000.00	100
POTASSIUM	1952.694	25141.568	20000.00	115

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
PREP: TJA ANALYST: TJA DATE: 12-01-94

SPIKE RESULTS

	5ADF04001	5ADF04001W	5ADF04001B	% RECOVERY
SILVER	0.615 U	25.850	20.00	129
ALUMINUM	12218.583	27278.093	10200.00	122
ARSENIC	22.397	78.239	20.00	185
BARIUM	161.307	291.599	120.00	104
BERYLLIUM	0.923	18.916	20.00	90
CADMIUM	0.620	27.676	20.00	134
COBALT	7.147	29.923	20.00	110
CHROMIUM	17.728	46.302	20.00	123
COPPER	21.908	49.151	20.00	117
IRON	12352.857	52324.341	40000.00	100
MANGANESE	373.931	863.048	540.00	94
MOLYBDENUM	0.393 U	17.019	20.00	85
NICKEL	20.532	49.147	20.00	121
LEAD	41.178	176.030	120.00	109
ANTIMONY	2.643	213.235	220.00	96
SELENIUM	3.705	29.901	20.00	126
THALLIUM	3.150 U	213.687	200.00	107
VANADIUM	29.285	71.865	20.00	146
ZINC	113.596	533.574	420.00	100
CALCIUM	13245.704	31245.815	20000.00	94
MAGNESIUM	4577.616	20101.135	20000.00	82
SODIUM	247.315	20533.108	20000.00	101
POTASSIUM	1952.694	25264.464	20000.00	115

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

DUPLICATE COMPARISON

		5ADF04001S	5ADF04001W	RSD
SM01	SILVER	25.410	25.850	1
SM02	ALUMINUM	28683.641	27278.093	2
SM03	ARSENIC	76.294	78.239	1
SM04	BARIUM	290.532	291.599	0
SM05	BERYLLIUM	18.541	18.916	1
SM06	CADMIUM	27.025	27.676	1
SM07	COBALT	29.670	29.923	0
SM08	CHROMIUM	47.006	46.302	1
SM09	COPPER	48.896	49.151	0
SM10	IRON	52218.937	52324.341	0
SM11	MANGANESE	854.806	863.048	0
SM12	MOLYBDENUM	16.942	17.019	0
SM13	NICKEL	49.133	49.147	0
SM14	LEAD	174.275	176.030	0
SM15	ANTIMONY	196.563	213.235	4
SM16	SELENIUM	31.218	29.901	2
SM18	THALLIUM	205.505	213.687	2
SM19	VANADIUM	73.486	71.865	1
SM20	ZINC	525.218	533.574	1
SM21	CALCIUM	31380.394	31245.815	0
SM22	MAGNESIUM	20111.787	20101.135	0
SM23	SODIUM	20348.544	20533.108	0
SM24	POTASSIUM	25141.568	25264.464	0

Data Quality Assessment Record: Inorganics

Please print the information below:

Review Date: 12/01/94 Analyses: % SOLIDS Matrix: SOILS Activity #: ADF04

Activity Name: McDONNELL DOUGLAS

Check One: EPA ____ ESAT x CLP ____ Other (specify) ____

Signatures: _____ Analyst (or contract laboratory data reviewer) _____ Reviewer

Sample Numbers:

001, 002, 003	019, 005F		
004, 005, 006			
007, 008, 009			
010, 011, 012			
013, 014, 015			
016, 017, 018			

An explanation for any "no" answer must be provided.

	Yes	N/A	No
1. Summary:			
Were all requested analyses performed?	X		
Were all required QC checks performed?	X		
Were all required documents present?	X		
Were requested detection limits met:	X		
2. Blanks:			
Were any contaminants noted in the blanks?		X	
If yes, were blank rules applied to the data?		X	
3. Spikes:			
Were matrix spike recoveries in control?		X	
Were matrix spike duplicate recoveries in control?		X	
4. Duplicates:			
Was duplicate precision in control?		X	
5. Method Standard / Laboratory Control Sample:			
Were percent recoveries in control?		X	
6. Holding Times:			
Were samples properly preserved?	X		
Were holding time requirements met?	X		

MKT

ANALYSIS TYPE: % SOLIDS

TITLE:	ADF04	MATRIX:	SOILS	UNITS:	--
LAB:	REGION VII EAT	METHOD:	6010	CASE:	N/A
SAMPLE	PREP: TJA ANALYST: TJA		REVIEWER:	DATE:	11-21-94

	PAN WT (g)	WET WT (g)	DRY+PAN	DRY WT (g)	% SOLIDS
SG07 ADF04001	1.58	5.13	5.55	3.97	77.4
SG07 ADF04002	1.58	5.16	5.79	4.21	81.6
SG07 ADF04003	1.57	5.08	5.75	4.18	82.3
SG07 ADF04004	1.58	5.02	5.96	4.38	87.3
SG07 ADF04005	1.57	5.31	6.14	4.57	86.1
SG07 ADF04005F	1.57	5.07	6.58	5.01	98.8
SG07 ADF04006	1.57	6.84	7.64	6.07	88.7
SG07 ADF04007	1.57	5.21	6.04	4.47	85.8
SG07 ADF04008	1.58	5.55	6.46	4.88	87.9
SG07 ADF04009	1.58	5.12	4.51	2.93	57.2
SG07 ADF04010	1.57	5.33	6.31	4.74	88.9
SG07 ADF04011	1.57	5.18	6.12	4.55	87.8
SG07 ADF04012	1.58	5.43	5.98	4.4	81.0
SG07 ADF04013	1.58	5.3	5.94	4.36	82.3
SG07 ADF04014	1.58	6.66	7.34	5.76	86.5
SG07 ADF04015	1.58	6.58	7.13	5.55	84.3
SG07 ADF04016	1.59	5.66	6.28	4.69	82.9
SG07 ADF04017	1.57	5.45	6.08	4.51	82.8
SG07 ADF04018	1.57	5.34	5.97	4.4	82.4
SG07 ADF04019	1.57	5.17	5.69	4.12	79.7

DEC 1994
RECEIVED

ANALYSIS TYPE: TOTAL CYANIDE

TITLE: ADF04 MATRIX: SEDIMENT UNITS: MG/KG
LAB: REGION VII ESAT METHOD: 3351S03 CASE: N/A
PREP: TJA ANALYST: TJA REVIEWER: DATE: 11-29-94

SAMPLE #	CONC (MG/L)	DILUTION FACTOR	SAMPLE WT	% SOLIDS	MG/KG
ADF04952M	0	1	20.00	100.00	0.040 U
ADF04952G	0.054	1	20.00	100.00	0.675
ADF04952H	0.0504	1	20.00	100.00	0.630
ADF04001	0.001	1	19.46	77.40	0.040 U
ADF04001S	0.046	1	19.79	77.40	0.751
ADF04001R	0.080	1	20.00	77.40	1.292
ADF04001W	0.056	1	19.86	77.40	0.911
ADF04001B	0.080	1	20.00	77.40	1.292
ADF04002	0.001	1	19.93	81.60	0.040 U
ADF04003	0.004	1	19.87	82.30	0.040 U
ADF04004	0.001	1	19.51	87.30	0.040 U
ADF04005	0.001	1	19.71	86.10	0.040 U
ADF04006	0.001	1	19.12	88.70	0.040 U
ADF04007	0.001	1	19.75	85.80	0.040 U
ADF04008	0.001	1	19.71	87.90	0.040 U
ADF04009	0.001	1	19.60	57.20	0.040 U
ADF04010	0.001	1	19.45	88.90	0.040 U
ADF04011	0.001	1	19.17	87.80	0.040 U
ADF04012	0.001	1	19.62	81.00	0.040 U
ADF04013	0.001	1	19.69	82.30	0.040 U
ADF04014	0.001	1	19.20	86.50	0.040 U
ADF04015	0.001	1	19.22	84.30	0.040 U
ADF04016	0.001	1	19.92	82.90	0.040 U
ADF04017	0.001	1	19.27	82.80	0.040 U
ADF04018	0.004	1	19.21	82.40	0.040 U
ADF04019	0.004	1	19.89	79.70	0.040 U

ADF03	Sb	As	Cd	Pb	Se
950M	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
032F	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
033F	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
950G	1069	43.6	44.0	48.3	56.3
950H	1000	50.0	50.0	50.0	50.0
034	4.37 u	1.66 u	1.44 u	.557 u	2.00
035	4.37 u	1.66 u	1.44 u	.700	1.81 u
037	4.37 u	1.66 u	1.44 u	1.80	1.85
037S	996	36.3	32.8	43.3	38.9
037R	1000	50.0	50.0	50.0	50.0
037W	860	38.8	33.0	38.8	37.9
037B	1000	50.0	50.0	50.0	50.0
038	4.37 u	1.66 u	~~1.44~~ u	.557 u	~~1.81 u~~
031	12.3	ICAP (710)	2.00	ICAP (1172)	8.40

ADF04					
950M	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
025F	4.37 u	1.66 u	1.44 u	.800	1.81 u
950G	921	47.3	43.2	48.7	47.2
950H	1000	50.0	50.0	50.0	50.0
022	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
023	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
024	4.37 u	1.66 u	1.44 u	.557 u	1.81 u
026	4.37 u	1.66 u	2.80	.557 u	1.81 u
026S	1108	36.8	34.9	43.1	44.1
026R	1000	50.0	50.0	50.0	50.0
026W	815	40.1	31.5	41.8	41.7
026B	1000	50.0	50.0	50.0	50.0

INITIAL

CALIBRATION

DATA

Waters
ADF04

Editing Samples Autosampler Setup
Table Name: ADF04W Set #1: WATERS TOTAL
Auto Rinse? Yes
Sample Positions: 0/20 STD Positions (approx.): 14/19
Page 1 of 4

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
-S	1/4	BLNK			
-S	1/3	MATL			
-S	1/2	MINL			
-S	1/1	1PPM			
-Q	1/1	1PPM	1	1PPMICV	No Action
-Q	1/2	MINL	1	MINL1	No Action
-Q	1/3	MATL	1	MATL1	No Action
-Q	1/6	WP475	1	ICVS2	No Action
-Q	1/4	BLNK	1	BLANK	No Action
1	2/1	ADF04950M	1		
2	2/2	ADF04025F	1		
3	2/3	ADF04950G	1		
-R	(RS)	Rinse			
4	2/4	ADF04022	1		

F1= InsSample F2= Delete
F3= InsQC F4=
Enter Sample Name F5= InsStds F6= InsProfile
(up to 20 characters) F7= InsBlank F8= InsRinse
<Arrow> keys active <Page> keys active F9= Done/Keep F10=HELP

Editing Samples Autosampler Setup
Table Name: ADF04W Set #1: WATERS TOTAL
Auto Rinse? Yes
Sample Positions: 0/20 STD Positions (approx.): 14/19
Page 2 of 4

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
5	2/5	ADF04023	1		
6	2/6	ADF04024	1		
7	2/7	ADF04026	1		
8	2/8	ADF04026S	1		
9	2/9	ADF04026W	1		
-R	(RS)	Rinse			
-Q	1/2	MINL	1	MINL1	No Action
-Q	1/3	MATL	1	MATL1	No Action
-Q	1/1	1PPM	1	1PPMCCV	No Action
-Q	1/6	WP475	1	ICVS2	No Action
-Q	1/4	BLNK	1	BLANK	No Action
10	2/10	ADF03950M	1		
11	2/11	ADF03032F	1		
12	2/12	ADF03033F	1		

F1= InsSample F2= Delete
F3= InsQC F4=
Enter Sample Name F5= InsStds F6= InsProfile
(up to 20 characters) F7= InsBlank F8= InsRinse
<Arrow> keys active <Page> keys active F9= Done/Keep F10=HELP

Editing Samples Autosampler Setup
Table Name: ADF04W Set #1: WATERS TOTAL
Auto Rinse? Yes
Sample Positions: 0/20 STD Positions (approx.): 14/19
Page 3 of 4

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
13	2/13	ADF03950G	1		
-R	(RS)	Rinse			
14	2/14	ADF03034	1		

15	2/15	ADF03037	1		
16	2/16	ADF03037	1		
17	2/17	ADF03037S	1		
18	2/18	ADF03037W	1		
-R	(RS)	Rinse			
19	2/19	ADF03038	1		
20	2/20	ADF03031	1		
-D	1/3	MATL	1	MATL1	No Action
-D	1/2	MINL	1	MINL1	No Action
-D	1/1	IPPM	1	IPPMEIV	No Action
-D	1/6	WP475	1	ICV52	No Action

F1= InsSample F2= Delete
F3= InsDE F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

Editing Samples Autosampler Setup
Table Name: ADF04W Set #1: WATERS TOTAL
Auto Rinse? Yes
Sample Positions: 0/20 STD Positions (approx.): 14/19
Page 4 of 4

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
-D	1/4	BLNK	1	BLANK	No Action

F1= InsSample F2= Delete
F3= InsDE F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

(up to 20 characters) F7= InsBlank F8= InsRinse
<Arrow> keys active <Page> keys active F9= Done/Keep F10=HELP

Standardization Rpt. Thu 11-24-94 10:20:44 AM page 1

Method: RGNVII Standard: BLNK

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Avge	-.005	.015	-.000	.000	.001	.000	.000
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	8.00	1.84	70.7	.000	.000	.000	70.7
#1	-.005	.015	-.000	.000	.001	.000	.000
#2	-.006	.016	-.001	.000	.001	.000	.001

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Avge	.002	.001	.004	-.006	.000	.001	.002
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	7.44	.000	9.43	2.40	.000	23.6	28.3
#1	.002	.001	.005	-.006	.000	.001	.001
#2	.002	.001	.004	-.006	.000	.001	.002

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Avge	-.002	-.002	-.002	-.015	.000	.001	.009
SDev	.002	.000	.000	.003	.000	.000	.001
%RSD	141.	14.1	.000	18.6	.000	10.9	14.3
#1	-.003	-.002	-.002	-.017	.000	.001	.008
#2	.000	-.002	-.002	-.013	.000	.001	.010

Elem	Mg2790	Na5895	K_7664
Avge	.001	.002	.003
SDev	.001	.000	.000
%RSD	116.	11.8	.000
#1	.000	.003	.003
#2	.002	.002	.003

Method: RENVII Standard: MATL

Elem	Ag3280	Ti3773	Mg2790
Avge	.100	.026	5.86
SDev	.001	.001	.01
%RSD	.705	2.18	.162
#1	.101	.026	5.85
#2	.100	.026	5.87

Method: RENVII Standard: MINL

Elem	Al3082	Ca3179	Na3893	K_7664
Avge	.143	41.9	11.6	3.08
SDev	.000	.3	.3	.07
%RSD	.195	.774	2.29	2.24
#1	.143	41.6	11.4	3.03
#2	.144	42.1	11.8	3.13

Method: RENVII Standard: IPPM

Elem	As1938	Ba4934	Be3130	Cd2265	Co2288	Cr2677	Cu3247
Avge	.034	.370	.242	.189	.217	.234	.177
SDev	.000	.003	.002	.002	.003	.005	.002
%RSD	1.19	.918	.761	.823	1.17	2.24	.878
#1	.034	.367	.240	.188	.215	.230	.176
#2	.035	.372	.243	.190	.219	.237	.178

Elem	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Avge	.159	.249	.130	.211	.078	.205	.112
SDev	.002	.003	.001	.002	.001	.004	.002
%RSD	1.16	1.26	.943	1.07	.729	2.00	2.01
#1	.158	.246	.149	.210	.078	.202	.114
#2	.160	.271	.131	.213	.077	.208	.111

Elem	Ti3349	V 2924	Zn2138
Avge	.132	.326	.138
SDev	.002	.003	.001
%RSD	1.12	.780	.715
#1	.131	.325	.137
#2	.133	.328	.139

CONTINUING

CALIBRATION

DATA

Waters
ADF04

Analysis Report QC Standard Thu 11-24-94 10:34:37 AM page 1

Method: RGNVII Sample Name: 1PPM Operator: TJA
Run Time: 11/24/94 10:30:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.55	-5.87	997.	1000.	1010.	1010.	1020.
SDev	1.34	2.17	8.	1.	7.	5.	3.
%RSD	29.4	36.9	.787	.076	.702	.518	.322
#1	-5.50	-4.34	992.	1000.	1000.	1010.	1010.
#2	-3.60	-7.40	1000.	1000.	1010.	1010.	1020.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			3.00	3.00	3.00	3.00	3.00

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1010.	1010.	1010.	1010.	1020.	1010.	999.
SDev	4.	2.	5.	4.	1.	1.	2.
%RSD	.363	.159	.448	.357	.093	.065	.186
#1	1010.	1010.	1010.	1010.	1020.	1010.	1000.
#2	1010.	1010.	1010.	1010.	1020.	1010.	997.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Elem	Sb2068	Se1960	Tl3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1010.	01030.	1010.	-.341	1010.	1020.	.014
SDev	8.	41.	12.	30.92	7.	7.	.001
%RSD	.745	3.94	1.19	9080.	.687	.711	7.31
#1	1000.	01060.	997.	-22.2	1000.	1010.	.013
#2	1010.	1010.	1010.	21.5	1010.	1020.	.015
Errors	QC Pass	~~QC Fail~~	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	3.00	3.00	3.00		3.00	3.00	

passes at limit

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.000	.025	.034
SDev	.013	.009	.021
%RSD	.000	34.1	61.4
#1	-.009	.019	.049
#2	.009	.031	.019
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Analysis Report QC Standard Thu 11-24-94 10:38:12 AM page 1

Method: RGNVII Sample Name: MINL Operator: TJA
Run Time: 11/24/94 10:34:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.03	1030.	-.097	13.3	1.26	-.581	-2.77
SDev	2.48	1.	7.832	.4	.59	.750	1.31
%RSD	240.	.106	8070.	2.88	46.8	129.	47.1
#1	-2.92	1030.	-5.64	13.0	.841	-1.11	-1.83
#2	.843	1030.	5.44	13.5	1.67	-.051	-3.69
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-6.47	1.70	-15.9	5.15	7.35	-2.76	-10.5
SDev	2.44	.80	1.8	.51	.93	2.68	1.9
%RSD	37.7	47.1	11.3	10.00	12.9	97.0	17.7
#1	-4.73	1.14	-17.1	4.78	6.68	-4.66	-11.8
#2	-8.20	2.27	-14.6	5.51	8.02	-.868	-9.20
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	5.31	10.5	-1.95	-53.9	-1.23	-.627	101.
SDev	6.83	24.7	.92	34.5	3.47	.010	1.
%RSD	129.	236.	47.1	64.1	283.	1.64	.723
#1	.472	-6.99	-2.60	-29.5	-3.68	-.619	101.
#2	10.1	28.0	-1.30	-78.3	1.23	-.634	102.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.045	102.	102.
SDev	.010	1.	1.
%RSD	21.3	1.22	1.06
#1	.038	103.	102.
#2	.052	101.	101.
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Method: RGNVII Sample Name: MATL Operator: TJA
Run Time: 11/24/94 10:38:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1050.	2.29	-3.54	1.08	.832	.006	-2.31
SDev	3.	3.26	15.63	.00	.000	.001	1.96
%RSD	.313	142.	283.	.108	.005	14.5	84.9
#1	1040.	-.009	3.33	1.08	.832	.006	-3.69
#2	1050.	4.60	-16.6	1.08	.832	.005	-.923
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.32	25.0	-21.7	-.003	1.33	-1.88	17.1
SDev	4.27	.0	1.7	1.541	1.89	1.34	7.4
%RSD	98.9	.001	8.01	52900.	142.	71.5	43.5
#1	-1.30	25.0	-20.3	-1.09	2.67	-.928	22.3
#2	-7.33	25.0	-22.9	1.09	-.003	-2.83	11.8
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	4.82	22.7	.000	1100.	1.53	-1.91	.046
SDev	.68	17.3	3.67	27.	1.30	1.81	.018
%RSD	14.1	76.2	.000	2.49	84.9	95.1	38.1
#1	4.34	10.5	-2.60	1120.	2.45	-3.19	.059
#2	5.31	35.0	2.60	1080.	.613	-.625	.034
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	49.9	.034	.003
SDev	.1	.013	.015
%RSD	.290	39.9	521.
#1	49.8	.043	.014
#2	50.0	.024	-.008
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Method: RGNVII Sample Name: WP475 Operator: TIA
Run Time: 11/24/94 10:41:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.28	779.	240.	28.1	823.	54.0	559.
SDev	2.48	2.	.	.0	.	.0	1.
%RSD	210.	.280	.006	.007	.000	.000	.117
#1	.620	777.	240.	28.1	823.	54.0	560.
#2	-3.18	781.	240.	28.1	823.	54.0	559.
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		700.	200.		750.	50.0	500.
Range		25.0	25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	177.	294.	460.	399.	.082	283.	304.
SDev	1.	.	2.	1.	.000	1.	13.
%RSD	.691	.000	.274	.127	.274	.237	4.26
#1	176.	294.	459.	399.	.082	283.	294.
#2	178.	294.	461.	398.	.082	284.	0317.
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	150.	250.	400.				250.
Range	25.0	25.0	25.0				25.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	La3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-3.69	85.7	1.95	10.7	842.	0253.	.020
SDev	10.93	7.4	.92	27.4	2.	.	.002
%RSD	296.	8.65	47.1	255.	.237	.001	12.1
#1	4.04	80.5	2.60	-8.61	844.	0253.	.021
#2	-11.4	91.0	1.30	30.1	841.	0253.	.018
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value		40.0			750.	200.	
Range		200.			25.0	25.0	

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	.032	.471	-.112
SDev	.010	.006	.004
%RSD	30.6	1.30	3.36
#1	.038	.475	-.114
#2	.025	.466	-.109
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: BLNK Operator: TIA
Run Time: 11/24/94 10:45:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.74	2.31	-5.55	.540	1.66	-2.64	-.923
SDev	.00	1.09	7.83	.001	.00	.75	.000
%RSD	.054	47.2	141.	.155	.002	28.3	.000
#1	-4.74	1.54	-11.1	.541	1.66	-3.17	-.923
#2	-4.74	3.08	-.017	.539	1.66	-2.11	-.923
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	50.0	50.0	2.00	2.00	5.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.30	2.27	-1.80	1.09	2.00	8.04	-.000
SDev	.00	.00	3.54	.00	.94	.67	3.373
%RSD	.069	.000	197.	.189	47.1	8.31	4677e6
#1	1.30	2.27	-4.30	1.09	2.67	7.39	-3.94
#2	1.29	2.27	.705	1.09	1.34	8.54	3.94
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	50.0	2.00		20.0	50.0

Elem	Sb2068	Se1960	Ti3349	Ti3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	11.6	-5.24	-.649	-41.8	-1.23	1.25	.010
SDev	.7	7.42	2.755	85.7	1.73	.91	.006
%RSD	5.90	141.	424.	205.	141.	72.6	57.2
#1	11.1	-.001	-2.60	-102.	.000	1.89	.006
#2	12.1	-10.5	1.30	18.8	-2.45	.608	.014
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	50.0	50.0		300.		20.0	2.00

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.007	.004	.006
SDev	.004	.006	.009
%RSD	53.0	141.	164.
#1	.009	.009	.012
#2	.004	-.000	-.001
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

Method: REGVII Sample Name: MINL Operator: TJA
Run Time: 11/24/94 11:21:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.92	1020.	-8.38	13.0	.425	-1.11	-3.23
SDev	.00	3.	19.56	.0	.389	.00	4.57
%RSD	.116	.319	233.	.009	138.	.044	141.
#1	-2.92	1020.	-22.2	13.0	.009	-1.11	-6.46
#2	-2.93	1020.	5.45	13.0	.841	-1.11	-.000
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-6.90	2.27	-13.4	4.78	-.670	-5.61	-3.94
SDev	.61	.00	1.8	1.03	.945	1.34	7.43
%RSD	8.81	.007	13.1	21.5	141.	23.9	189.
#1	-7.33	2.27	-14.6	5.51	-1.34	-6.55	-9.20
#2	-6.47	2.27	-12.1	4.06	-.002	-4.66	1.31
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Tl3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-5.32	15.7	-3.90	-112.	-3.37	.663	103.
SDev	9.56	42.0	1.84	20.	1.30	1.81	1.
%RSD	180.	267.	47.1	18.3	38.6	274.	.721
#1	-12.1	-14.0	-2.60	-126.	-4.29	1.95	103.
#2	1.44	45.4	-5.19	-97.5	-2.45	-.620	104.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.077	99.5	101.
SDev	.011	1.0	1.
%RSD	14.1	.961	.794
#1	.085	98.8	100.
#2	.069	100.	101.
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Method: RGNVII Sample Name: MATL Operator: TJA
Run Time: 11/24/94 11:47:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1000.	6.92	-8.28	2.45	-.000	2.57	.454
SDev	7.	7.61	.04	.00	.000	.73	1.93
%RSD	.739	110.	.487	.013	16.9	28.2	424.
#1	1000.	1.54	-8.25	2.45	-.000	2.06	1.81
#2	1010.	12.3	-8.31	2.45	-.000	3.08	-.907
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	2.48	25.4	-5.95	1.81	7.83	1.41	16.5
SDev	1.17	.0	1.72	.51	1.85	1.30	3.6
%RSD	47.2	.000	28.8	28.2	23.6	92.3	21.8
#1	3.31	25.4	-4.74	2.17	9.14	2.33	14.0
#2	1.65	25.4	-7.17	1.45	6.53	.490	19.0
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-3.29	20.6	2.74	1000.	1.85	-1.84	.004
SDev	9.99	5.8	.00	35.3	.87	.01	.000
%RSD	303.	28.3	.000	3.53	47.1	.281	8.32
#1	-10.4	16.3	2.74	1020.	1.23	-1.84	.004
#2	3.77	24.7	2.74	975.	2.47	-1.83	.004
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	50.1	.003	.008
SDev	.1	.001	.019
%RSD	.188	35.4	239.
#1	50.0	.003	-.006
#2	50.1	.004	.022
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Method: RGNVII Sample Name: 1PPM Operator: TJA
Run Time: 11/24/94 11:51:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	.116	3.46	1000.	999.	1000.	1000.	995.
SDev	1.24	1.09	23.	5.	1.	4.	6.
%RSD	1070.	19.3	2.32	.464	.058	.436	.580
#1	.994	4.89	986.	1000.	1000.	998.	991.
#2	-.762	6.43	1020.	995.	1000.	1000.	999.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			3.00	3.00	3.00	3.00	3.00

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1010.	998.	999.	1000.	1010.	1000.	1010.
SDev	3.	4.	1.	3.6	3.	4.	.
%RSD	.466	.401	.100	.357	.275	.390	.000
#1	1000.	1000.	999.	997.	1010.	1000.	1010.
#2	1010.	995.	1000.	1000.	1010.	1010.	1010.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	5.00	5.00	5.00	5.00	5.00	5.00	5.00

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1010.	993.	991.	66.0	1000.	1010.	.019
SDev	6.	9.	2.	57.2	1.	6.	.006
%RSD	.593	.938	.193	86.6	.087	.600	31.8
#1	1010.	1000.	992.	106.	1000.	1000.	.015
#2	1000.	987.	990.	25.6	1000.	1010.	.023
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	5.00	5.00	5.00		5.00	5.00	

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.034	.035	.026
SDev	.006	.007	.052
%RSD	17.7	20.7	201.
#1	.038	.041	-.011
#2	.030	.030	.063
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: WP475 Operator: TJA
Run Time: 11/24/94 11:54:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Co2286	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.21	815.	237.	29.1	832.	57.0	553.
SDev	1.24	10.	4.	.8	.	.7	4.
%RSD	102.	1.20	1.61	2.83	.000	1.29	.693
#1	-.333	822.	240.	29.7	832.	56.5	558.
#2	-2.08	808.	233.	28.6	832.	57.5	553.
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		700.	200.		750.	50.0	500.
Range		25.0	25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	179.	293.	665.	398.	5.30	282.	305.
SDev	1.	2.	1.	.	1.85	3.	5.
%RSD	.327	.819	.127	.001	34.8	1.15	1.77
#1	179.	293.	665.	398.	6.61	280.	308.
#2	178.	291.	666.	398.	4.00	284.	301.
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	150.	250.	600.				250.
Range	25.0	25.0	25.0				25.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_3924	Zn2138	Cd3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-8.29	37.7	2.74	-96.0	844.	8254.	.014
SDev	4.66	14.0	1.94	24.7	2.	1.	.006
%RSD	56.1	24.2	70.7	25.7	.258	.335	40.7
#1	-3.00	47.6	4.11	-113.	842.	8254.	.018
#2	-11.6	47.9	1.37	-78.6	846.	8255.	.010
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value		40.0			750.	200.	
Range		200.			25.0	25.0	

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.003	.472	-.162
SDev	.004	.009	.004
%RSD	106.	1.81	2.39
#1	.001	.478	-.159
#2	.006	.465	-.165
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RENVII Sample Name: BLNK Operator: TJA
Run Time: 11/24/94 11:58:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.75	16.9	-16.6	.272	.409	1.03	1.36
SDev	.00	13.1	3.8	.000	.378	.00	1.93
%RSD	.105	77.2	23.0	.120	141.	.312	141.
#1	-1.75	26.2	-13.9	.272	.817	1.03	.000
#2	-1.75	7.69	-19.3	.272	.000	1.03	2.72
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	30.0	50.0	2.00	2.00	5.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.24	-.000	.014	-1.08	.453	2.30	6.35
SDev	1.76	.800	3.44	.31	.923	1.30	3.39
%RSD	141.	452000.	24400.	46.9	141.	56.5	56.6
#1	2.48	-.566	2.43	-1.44	.000	1.38	8.83
#2	-.001	.565	-2.42	-.721	1.31	3.22	3.81
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	50.0	2.00		20.0	50.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_3124	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	.476	23.1	1.37	4.83	1.23	-.620	-.002
SDev	7.33	14.0	1.94	36.8	.00	.004	.002
%RSD	1540.	60.6	141.	1180.	.000	.673	110.
#1	3.66	13.2	2.74	-35.3	1.23	-.617	-.004
#2	-4.70	32.9	-.000	45.0	1.23	-.623	-.000
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	50.0	50.0		300.		20.0	2.00

Elem	Mg2790	Na3303	K_7664
Units	MG/L	MG/L	MG/L
Avge	.016	.009	-.001
SDev	.002	.010	.006
%RSD	14.9	103.	679.
#1	.018	.016	-.005
#2	.014	.003	.003
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

Method: RGNVII Sample Name: WP475 Operator: TJA
Run Time: 11/24/94 12:53:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.09	808.	243.	28.0	830.	57.5	549.
SDev	2.47	13.	4.	.0	6.	1.4	3.
%RSD	118.	1.62	1.63	.005	.766	2.52	.585
#1	-.338	799.	246.	28.0	825.	58.5	546.
#2	-3.83	817.	240.	28.0	834.	56.5	551.
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		700.	200.		750.	50.0	500.
Range		25.0	25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2577	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	181.	287.	458.	390.	5.96	280.	310.
SDev	2.	4.	3.	2.	.92	1.	13.
%RSD	.970	1.39	.520	.392	15.5	.449	4.06
#1	180.	285.	461.	389.	6.61	279.	0319.
#2	182.	290.	456.	391.	5.30	281.	301.
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	150.	250.	600.				250.
Range	25.0	25.0	25.0				25.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-2.17	52.8	1.37	82.2	824.	0254.	.030
SDev	2.66	16.3	.00	71.0	3.	1.	.000
%RSD	122.	30.9	.000	86.1	.422	.338	1.11
#1	-.293	64.3	1.37	32.3	824.	0254.	.031
#2	-4.06	41.3	1.37	133.	829.	0255.	.030
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Fail	NOCHECK
Value		40.0			750.	200.	
Range		200.			25.0	25.0	

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	.011	.472	-.121
SDev	.007	.005	.045
%RSD	65.3	1.03	36.9
#1	.016	.469	-.153
#2	.006	.476	-.090
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: BLNK Operator: TJA
Run Time: 11/24/94 12:56:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	5.24	26.2	-2.90	.817	.817	1.03	1.81
SDev	.00	4.4	7.79	.001	.000	.00	.00
%RSD	.055	16.6	269.	.139	.020	.194	.000
#1	5.23	29.2	-8.41	.818	.817	1.03	1.81
#2	5.24	23.1	2.61	.816	.817	1.03	1.81
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	30.0	30.0	2.00	2.00	3.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.65	-.000	3.32	-.355	-.652	5.07	8.88
SDev	1.17	.800	.84	.310	2.769	2.60	10.8
%RSD	70.8	1370000.	15.3	143.	425.	51.4	121.
#1	2.48	-.366	6.12	.005	1.31	6.91	1.27
#2	.827	.365	4.92	-.716	-2.61	3.22	16.5
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	30.0	2.00		20.0	30.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	5.66	34.6	2.05	-25.5	3.08	-1.85	.003
SDev	1.33	9.3	.97	14.4	4.36	.01	.002
%RSD	23.4	26.9	47.1	56.3	141.	.530	76.1
#1	4.73	41.2	2.74	-35.7	.000	-1.86	.005
#2	6.60	28.0	1.37	-15.4	6.17	-1.85	.001
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	50.0	50.0		300.		20.0	2.00

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.013	.011	.025
SDev	.002	.010	.051
%RSD	18.9	87.0	207.
#1	.014	.018	-.011
#2	.011	.004	.061
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

Method: REGNVII Sample Name: MATL Operator: TJA
Run Time: 11/24/94 12:42:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1040.	504.	-.315	7.10	-.802	.148	3.18
SDev	2.	184.	1.131	1.93	.006	.560	.64
%RSD	.236	36.5	359.	27.2	.710	391.	20.2
#1	1040.	634.	-1.12	8.46	-.798	.558	3.63
#2	1040.	374.	.483	5.73	-.806	-.262	2.72
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.24	24.3	954.	27.5	-3.14	5.75	8.88
SDev	2.93	1.6	375.	9.9	.97	1.87	7.18
%RSD	235.	6.58	39.3	35.9	30.8	32.6	80.8
#1	3.32	23.5	1220.	34.5	-2.46	4.42	3.81
#2	-.827	23.2	689.	20.5	-3.83	7.07	14.0
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Tl3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-2.81	33.9	-.000	1060.	3.39	1.63	.494
SDev	9.32	19.9	.000	71.	1.31	.06	.182
%RSD	331.	58.6	.000	6.70	38.6	3.92	36.8
#1	3.78	47.9	-.000	1010.	4.32	1.59	.623
#2	-9.40	19.9	-.000	1110.	2.47	1.68	.366
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	49.9	.023	.048
SDev	.4	.012	.007
%RSD	.817	48.8	15.0
#1	50.2	.034	.053
#2	49.6	.016	.043
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Method: REGNVII Sample Name: MINL Operator: TJA
Run Time: 11/24/94 14:20:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag32880	Al30082	As19336	Ba49334	Be31130	Cd22643	Co22886
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-.880	985.	2.00	13.9	.009	-1.02	4.30
SDev	.000	13.	3.42	.0	.000	.69	3.04
%RSD	.027	1.30	171.	.001	.125	67.4	70.7
#1	-.880	976.	-.423	13.9	.009	-.532	2.15
#2	-.880	994.	4.42	13.9	.009	-1.50	6.44
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr26477	Cu32947	Fe23999	Mn25376	Mo20020	Ni23116	Pb22203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	3.68	.343	9.24	6.74	5.03	2.70	12.1
SDev	2.89	.767	2.51	.50	.89	3.07	3.4
%RSD	78.6	141.	27.2	7.43	17.7	114.	28.3
#1	1.63	.001	7.46	6.39	5.65	4.87	9.70
#2	5.72	1.09	11.0	7.10	4.40	.530	14.5
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb20468	Se19660	Tl13449	Tl13775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-6.19	5.44	-1.72	156.	.288	-.597	100.
SDev	3.12	11.0	.00	22.	2.04	.011	1.
%RSD	50.4	202.	.000	14.1	707.	1.83	1.09
#1	-8.40	13.2	-1.72	171.	-1.15	-.605	99.3
#2	-3.98	-2.33	-1.72	140.	1.73	-.589	101.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg27970	Na37893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.072	99.6	98.9
SDev	.014	.0	.0
%RSD	19.7	.019	.025
#1	.062	99.5	98.9
#2	.082	99.6	98.9
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Method: RGNVII Sample Name: 1PPM Operator: TJA
Run Time: 11/24/94 14:23:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.13	6.33	993.	1000.	999.	1000.	1000.
SDev	.00	1.07	28.	6.	3.	7.	6.
%RSD	.041	17.0	2.81	.602	.332	.681	.607
#1	-3.13	5.57	973.	997.	993.	996.	997.
#2	-3.13	7.08	1010.	1010.	1000.	1010.	1010.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			3.00	3.00	3.00	3.00	3.00

Elem	Cr2677	Cu3247	Fe2999	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1000.	1000.	999.	997.	1010.	1000.	993.
SDev	4.	6.	3.	3.	9.	9.	15.
%RSD	.405	.612	.346	.499	.880	.861	1.53
#1	997.	999.	997.	993.	1000.	997.	1010.
#2	1000.	1010.	1000.	1000.	1020.	1010.	984.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Elem	Sb2068	Se1960	Ti3349	Tl1775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1010.	1000.	987.	63.3	993.	1000.	.079
SDev	6.	18.	2.	111.	7.	8.	.015
%RSD	.557	1.76	.247	175.	.738	.823	18.4
#1	1010.	988.	989.	142.	989.	997.	.089
#2	1000.	1010.	986.	-15.2	1000.	1010.	.069
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	5.00	5.00	5.00		5.00	5.00	

Elem	Mg2790	Na3303	K_7664
Units	MG/L	MG/L	MG/L
Avge	.005	.080	.064
SDev	.000	.015	.016
%RSD	.000	19.0	25.4
#1	.005	.090	.073
#2	.005	.069	.052
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

PERFORMANCE

[X] ICAP [ ] Furnace AA

EVALUATION

STANDARD

NO. LCS 950G

Waters
ADF027

Method: RGNVII Sample Name: ADF04[illegible] Operator: TJA
Run Time: 11/24/94 10:56:06
Comment:
Mode: CONC Corr. Factor: 1

used AD03[illegible] From Same Bottle

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	72.1	930.	930.	932.	91.2	88.3	89.1
SDev	.0	21.	43.	17.	1.8	1.5	8.3
%RSD	.03	2.22	4.63	1.80	1.94	1.71	9.33
#1	72.0	916.	899.	921.	90.0	87.2	83.1
#2	72.1	945.	960.	944.	92.3	89.4	95.1

93.7

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	89.4	946.	932.	890.	97.0	894.	949.
SDev	6.1	18.	23.	25.	.9	27.	30.
%RSD	6.86	1.87	2.48	2.84	.977	3.01	5.29
#1	85.0	934.	916.	872.	96.4	875.	913.
#2	93.7	959.	949.	908.	97.7	913.	984.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	987.	924.	888.	1140.	93.5	950.	117.
SDev	23.	6.	17.	108.	6.3	32.	3.
%RSD	2.36	.669	1.86	9.43	6.96	3.42	2.96
#1	970.	920.	877.	1070.	88.9	928.	115.
#2	1000.	928.	900.	1220.	98.1	973.	120.

1120 122

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	86.9	92.6	91.2
SDev	1.8	1.1	1.2
%RSD	2.07	1.17	1.36
#1	85.7	91.9	90.3
#2	88.2	93.4	92.0

91.7

Analysis Report Thu 11-24-94 02:46:04 PM page 1

Method: RGNVII Sample Name: ADF049306 Operator: TJA
Run Time: 11/24/94 14:42:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	98.5	881.	905.	933.	92.9	86.6	91.9
SDev	3.7	13.	17.	4.	.3	1.4	.6
%RSD	3.72	1.49	1.93	.443	.372	1.57	.661
#1	101.	871.	893.	932.	92.3	85.7	92.4
#2	95.9	892.	917.	933.	93.2	87.6	91.5

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	91.3	942.	914.	864.	91.3	868.	899.
SDev	2.9	10.	4.	5.	1.8	.	3.
%RSD	3.16	1.06	.491	.634	1.93	.002	.381
#1	93.3	935.	911.	860.	89.9	868.	902.
#2	89.2	949.	917.	868.	92.5	868.	897.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_3924	Zn2138	Cs3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	947.	880.	812.	1110.	89.7	883.	111.
SDev	18.	10.	1.	6.	2.0	6.	1.
%RSD	1.86	1.12	.100	.564	2.27	.654	1.18
#1	933.	887.	811.	1110.	91.1	879.	110.
#2	959.	873.	812.	1100.	88.2	887.	112.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	89.6	87.3	85.7
SDev	.7	.9	.1
%RSD	.744	.982	.134
#1	89.1	86.7	85.6
#2	90.0	87.9	85.8

Analysis Report Thu 11-24-94 02:49:39 PM page 1

Method: RGNVII Sample Name: ADF03950G Operator: TJA
Run Time: 11/24/94 14:46:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	98.5	898.	892.	941.	93.2	88.1	91.9
SDev	7.4	4.	7.	16.	1.1	.7	4.3
%RSD	7.56	.475	.784	1.68	1.14	.784	4.63
#1	93.2	895.	888.	930.	92.5	87.6	88.9
#2	104.	901.	897.	953.	94.0	88.6	94.9

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	88.4	949.	924.	869.	91.2	868.	891.
SDev	.0	16.	10.	12.	.0	14.	19.
%RSD	.015	1.70	1.08	1.37	.001	1.64	2.12
#1	88.4	937.	917.	861.	91.2	858.	878.
#2	88.4	960.	931.	878.	91.2	878.	904.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	951.	859.	815.	1030.	89.1	896.	111.
SDev	18.	25.	22.	10.	2.0	13.	2.
%RSD	1.92	2.95	2.69	1.02	2.29	1.47	1.54
#1	938.	876.	800.	1040.	87.6	887.	110.
#2	964.	841.	831.	1020.	90.5	906.	112.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	90.1	87.8	86.5
SDev	1.5	1.8	1.1
%RSD	1.69	2.08	1.31
#1	89.0	86.5	85.7
#2	91.1	89.1	87.3

Thu 11-24-94 Operator:PMJA page 1

Run Time: 11/24/94 Sample Name: ADF03031 1Thu 11-24-94 Operator:PMJA page 1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286

Method: RGNVII Sample Name: ADF039500 Operator: TJA
Run Time: 11/24/94 12:12:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	68.5	948.	958.	938.	89.6	90.9	88.9
SDev	1.1	41.	19.	33.	2.9	.0	2.6
%RSD	1.63	4.36	2.01	3.50	3.23	.015	2.89
#1	69.3	919.	944.	915.	87.5	90.9	87.1
#2	67.7	977.	971.	961.	91.6	90.9	90.7

93.7 TV

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	91.2	934.	932.	890.	91.5	887.	918.
SDev	2.3	36.	24.	26.	1.8	25.	.
%RSD	2.54	3.85	2.59	2.86	2.01	2.80	.000
#1	92.9	909.	915.	872.	92.8	870.	918.
#2	89.6	960.	949.	908.	90.2	905.	918.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	962.	891.	871.	1060.	91.9	942.	120.
SDev	17.	5.	34.	5.	2.6	26.	3.
%RSD	1.81	.522	3.89	.516	2.85	2.74	2.74
#1	950.	895.	847.	1070.	90.0	924.	118.
#2	974.	888.	895.	1060.	93.7	960.	122.

1120 TV

122 TV

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	86.0	89.1	89.0
SDev	3.1	3.4	3.7
%RSD	3.58	3.82	3.01
#1	83.8	86.9	87.1
#2	88.1	91.3	90.9

91.7 TV

Used ADF04 9500 92.6 same Bottle

METALS BY ICAP

[X]TOTAL [ ]DISSOLVED

MATRIX

SPIKE

&

SPIKE DUPLICATE

DATA

waters
ADF04

Method: RGNVII Sample Name: ADF04026W Operator: TJA
Run Time: 11/24/94 11:17:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	74.9	928.	944.	959.	94.1	90.5	92.8
SDev	4.0	24.	70.	12.	1.2	3.0	.7
%RSD	5.32	2.58	7.46	1.24	1.23	3.30	.704
#1	77.7	911.	894.	950.	93.3	88.3	92.3
#2	72.1	945.	993.	967.	95.0	92.6	93.3

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	90.2	977.	922.	914.	98.4	919.	947.
SDev	.0	12.	12.	7.	.9	2.	11.
%RSD	.008	1.23	1.27	.790	.959	.222	1.18
#1	90.2	969.	914.	909.	99.0	917.	940.
#2	90.2	986.	930.	919.	97.7	920.	955.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	998.	982.	881.	1070.	93.2	967.	117.
SDev	18.	20.	14.	73.	2.6	7.	1.
%RSD	1.85	2.12	1.56	7.02	2.79	.748	.801
#1	985.	918.	871.	1020.	95.0	962.	116.
#2	1010.	946.	891.	1120.	91.4	972.	118.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	86.4	91.0	90.2
SDev	1.0	1.7	1.1
%RSD	1.13	1.84	1.21
#1	85.7	89.8	89.5
#2	87.1	92.2	91.0

Method: RSNVII Sample Name: ADF040265 Operator: TJA
Run Time: 11/24/94 11:14:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Ca2265	Cd2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	72.9	921.	933.	939.	92.3	91.3	91.9
SDev	1.4	16.	43.	23.	2.4	.0	2.0
%RSD	1.96	1.77	4.60	2.44	2.55	.015	2.13
#1	71.9	910.	905.	923.	90.3	91.3	90.3
#2	73.9	933.	966.	955.	94.1	91.5	93.5

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	90.2	952.	916.	900.	93.7	903.	940.
SDev	1.2	27.	17.	17.	6.6	21.	19.
%RSD	1.37	2.87	1.81	1.89	6.92	2.31	1.98
#1	89.4	932.	904.	888.	91.0	888.	926.
#2	91.1	971.	927.	912.	100.	918.	953.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	990.	920.	873.	944.	89.5	959.	116.
SDev	27.	51.	17.	57.	.0	16.	1.
%RSD	2.77	5.51	1.89	6.01	.000	1.69	1.10
#1	970.	885.	861.	904.	89.5	948.	115.
#2	1010.	956.	884.	984.	89.5	971.	117.

Elem	Mg2790	Na3303	K_7664
Units	MG/L	MG/L	MG/L
Avge	84.9	89.6	88.3
SDev	2.4	2.4	2.5
%RSD	2.79	2.65	2.86
#1	83.2	87.9	86.5
#2	86.5	91.2	90.1

METALS BY ICAP

[X] TOTAL [ ] DISSOLVED

SAMPLE

DATA

DILUTION: None

Water
ADH04

Method: RGNVII Sample Name: ADF03950M Operator: TJA
Run Time: 11/24/94 12:02:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-.013	33.9	-16.7	.818	.002	1.52	.454
SDev	2.478	6.5	11.6	.001	.000	.73	1.93
%RSD	18600.	19.3	69.6	.137	12.0	47.9	424.
#1	1.74	29.3	-24.9	.819	.002	1.01	-.907
#2	-1.77	38.5	-8.47	.817	.002	2.04	1.81

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	4.16	1.70	53.6	1.11	-.646	1.87	5.08
SDev	2.34	1.60	1.7	.51	.923	3.26	5.38
%RSD	56.3	94.3	3.25	45.7	143.	173.	106.
#1	2.50	.566	52.3	1.47	-1.30	-.437	1.27
#2	5.81	2.83	54.8	.751	.007	4.17	8.88

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-.467	6.60	1.37	19.8	3.08	16.5	.590
SDev	5.958	2.33	.00	70.8	1.74	.0	.007
%RSD	1280.	35.3	.000	357.	56.6	.075	1.26
#1	3.77	8.24	1.37	-30.2	4.32	16.5	.585
#2	-4.70	4.95	1.37	69.9	1.85	16.5	.596

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.033	1.54	.072
SDev	.000	.00	.026
%RSD	.000	.079	36.1
#1	.033	1.54	.053
#2	.033	1.54	.090

used ADF04 950 M same Bottle

Method: RGNVII Sample Name: ADF04950M Operator: TJA
Run Time: 11/24/94 10:49:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-.959	28.5	5.38	.811	.001	-1.08	-3.23
SDev	2.480	3.3	23.3	.382	.000	.00	1.94
%RSD	279.	11.5	437.	47.1	6.32	.377	60.6
#1	-2.85	26.2	-11.2	1.08	.002	-1.07	-1.85
#2	.936	30.8	22.0	.541	.001	-1.08	-4.62

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.14	2.27	40.3	.384	.003	-1.40	3.26
SDev	2.44	.00	1.7	.000	1.89	3.33	1.86
%RSD	114.	.000	4.30	.077	37600.	239.	35.4
#1	-.416	2.27	39.3	.384	-1.33	.966	6.37
#2	-3.87	2.27	41.3	.384	1.34	-3.73	3.94

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	6.27	27.1	.649	-65.6	-.307	16.0	.476
SDev	4.11	43.3	.918	37.3	2.168	.0	.003
%RSD	65.4	160.	141.	57.2	707.	.076	.710
#1	9.18	57.7	-.000	-39.0	1.23	16.0	.478
#2	3.37	-3.49	1.30	-92.1	-1.84	16.0	.473

Elem	Mg2790	Na3303	K 7664
Units	MG/L	MG/L	MG/L
Avge	.032	1.63	.040
SDev	.007	.03	.035
%RSD	22.9	1.75	86.7
#1	.026	1.61	.063
#2	.037	1.65	.016

Used ADF03 950ml 500ml Bottle 1.54

Method: RGNVII Sample Name: 0BF04025F Operator: TJA
Run Time: 11/24/94 10:52:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2268	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.87	40.0	-11.3	.812	.003	-.010	-3.23
SDev	.00	4.4	7.8	.381	.000	1.498	1.96
%RSD	.145	10.9	69.2	47.0	6.91	14900.	60.6
#1	-2.86	36.9	-16.8	.542	.003	-1.07	-1.83
#2	-2.87	43.1	-5.76	1.08	.003	1.05	-4.62

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.67	2.84	20.8	.736	-.666	-.438	-.000
SDev	.61	2.41	3.6	.916	2.835	3.350	5.377
%RSD	36.4	84.8	17.2	70.1	426.	765.	4677e6
#1	-2.11	4.54	18.3	.371	1.34	-2.81	-3.94
#2	-1.24	1.13	23.3	1.10	-2.67	1.93	3.94

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-2.42	14.0	2.60	-60.9	-2.45	51.8	.351
SDev	4.11	32.1	.00	3.7	1.73	.0	.006
%RSD	170.	230.	.000	6.07	70.7	.025	1.10
#1	-5.32	-8.74	2.60	-58.3	-3.68	51.8	.347
#2	.487	36.7	2.60	-63.5	-1.23	51.8	.356

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	.032	1.55	.138
SDev	.008	.00	.036
%RSD	26.1	.079	26.4
#1	.026	1.55	.112
#2	.038	1.55	.163

Blank Rule appears

Method: RGNVII Sample Name: ADF04023 Operator: TJA
Run Time: 11/24/94 11:03:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.09	30.8	16.5	53.3	.418	-1.08	-2.31
SDev	6.70	2.2	7.8	.4	.588	.00	.65
%RSD	217.	7.05	47.3	.716	141.	.227	28.3
#1	1.64	32.3	22.0	53.0	.834	-1.08	-2.77
#2	-7.83	29.2	10.9	53.6	.002	-1.08	-1.85

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.43	4.54	45.8	7.67	1.34	-2.34	18.4
SDev	3.05	.00	5.3	1.03	.00	.67	9.3
%RSD	89.0	.004	11.7	13.5	.049	28.5	50.5
#1	-5.59	4.54	42.0	6.93	1.34	-1.87	11.8
#2	-1.27	4.54	49.6	8.40	1.34	-2.81	25.0

Elem	Sb2068	Se1960	Tl3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	.960	5.25	-.000	-4.88	1.23	22.4	24.8
SDev	6.15	9.89	.000	27.48	.87	.0	.1
%RSD	640.	188.	.000	563.	70.7	.007	.275
#1	5.31	12.2	-.000	-24.3	1.84	22.4	24.7
#2	-3.39	-1.74	-.000	14.3	.613	22.4	24.8

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	15.8	10.3	1.34
SDev	.0	.0	.03
%RSD	.291	.142	1.90
#1	15.8	10.3	1.32
#2	15.8	10.3	1.36

Blank
below
appl

Analysis Report Thu 11-24-94 11:03:38 AM page 1

Method: RGNVII Sample Name: ADF04022 Operator: TJA
Run Time: 11/24/94 11:00:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-.012	36.2	5.35	.811	.417	-.009	-2.77
SDev	4.013	9.8	7.78	.382	.589	.001	2.61
%RSD	32400.	27.1	145.	47.1	141.	6.03	94.3
#1	-2.85	29.2	-.148	.541	.001	-.009	-.923
#2	2.83	43.1	10.9	1.08	.834	-.009	-4.62

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-5.16	.567	12.0	.369	1.34	-2.83	9.20
SDev	.61	.802	.0	.001	.00	.00	7.43
%RSD	11.8	141.	.338	.131	.000	.007	80.8
#1	-4.73	1.13	11.9	.369	1.34	-2.83	3.94
#2	-5.59	.000	12.0	.370	1.34	-2.83	14.5

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	2.41	19.2	1.95	-46.0	.307	17.9	.467
SDev	.00	27.2	2.75	3.4	1.30	.9	.002
%RSD	.000	141.	141.	7.38	424.	5.05	.434
#1	2.41	38.5	3.90	-48.4	-.613	17.3	.466
#2	2.41	.002	-.000	-43.6	1.23	18.6	.469

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.058	1.41	.078
SDev	.004	.00	.023
%RSD	6.24	.346	29.9
#1	.055	1.42	.062
#2	.061	1.41	.095

Blank
Rule
Applied

Method: REGNVII Sample Name: ADF04024 Operator: TJA
Run Time: 11/24/94 11:07:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.85	28.5	5.40	.248	.833	-2.12	-4.42
SDev	.00	3.3	7.82	.382	.000	1.50	.00
%RSD	.052	11.5	143.	142.	.021	70.7	.000
#1	-2.85	26.1	-.130	-.002	.833	-3.18	-4.42
#2	-2.84	30.8	10.9	.539	.833	-1.06	-4.42

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.44	2.84	11.4	1.44	.470	3.80	11.8
SDev	.00	.80	2.7	.32	2.84	2.68	.0
%RSD	.000	28.3	23.5	35.3	423.	70.4	.000
#1	-4.44	2.27	9.48	1.10	-1.34	1.90	11.8
#2	-4.44	3.40	13.2	1.82	2.68	5.70	11.8

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	.492	16.6	.449	9.33	-.413	10.9	.429
SDev	8.20	30.9	.918	7.06	2.601	.0	.001
%RSD	1670.	186.	141.	75.7	424.	.096	.138
#1	-3.31	38.5	1.30	14.3	1.23	10.9	.429
#2	4.29	-5.24	-.000	4.34	-2.43	10.9	.429

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	.038	1.18	.049
SDev	.002	.02	.037
%RSD	4.29	1.43	52.9
#1	.040	1.17	.095
#2	.037	1.19	.043

Blank Rule Applied

Method: RGNVII Sample Name: A0F0402A Operator: TJA
Run Time: 11/24/94 11:10:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.75	20.0	-3.40	.269	.001	-1.60	-2.31
Sdev	.00	2.2	3.91	.383	.000	.73	1.96
%RSD	.009	10.9	46.3	142.	21.4	47.1	84.9
#1	-4.75	21.5	-5.64	-.001	.001	-2.13	-.923
#2	-4.75	18.5	-11.2	.340	.001	-1.06	-3.69

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-6.02	1.70	6.93	.003	2.01	-4.73	11.8
Sdev	.61	.80	1.77	.315	.94	4.02	3.7
%RSD	10.1	47.1	25.5	20000.	47.1	85.0	31.4
#1	-6.46	1.13	5.69	-.362	2.67	-7.58	14.3
#2	-5.59	2.27	8.20	.367	1.34	-1.89	9.20

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-.494	-.873	.649	-53.2	-2.15	14.7	.499
Sdev	6.820	6.180	.918	.3	.43	.0	.019
%RSD	1380.	708.	141.	.521	20.2	.104	3.86
#1	4.33	-5.24	-.000	-53.0	-2.45	14.7	.485
#2	-5.32	3.50	1.30	-53.4	-1.84	14.7	.513

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	.033	1.60	.050
Sdev	.005	.00	.000
%RSD	14.5	.076	.845
#1	.030	1.60	.050
#2	.037	1.60	.049

Blank Rule applies

INITIAL

CALIBRATION

DATA

Soils
ADF04

Editing Samples — Autosampler Setup

Table Name: ADF045 — Set #1: SOIL TOTAL METALS

Auto Rinse? Yes

Sample Positions: 0/35 — STD Positions (approx.): 14/19

Page 1 of 5

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
-S	1/4	BLNK			
-S	1/3	MATL			
-S	1/2	MINL			
-S	1/1	IPPM			
-D	1/1	IPPM	1	IPPMICV	No Act
-D	1/3	MATL	1	MATL1	No Act
-D	1/2	MINL	1	MINL1	No Act
-D	1/6	ICAP19	1	ICAP19	No Act
-D	1/4	BLNK	1	BLANK	No Act
1	2/1	ADF0495IM	1		
2	2/2	ADF0495IG	1		
-R	(RS)	Rinse			
3	2/3	ADF04001	1		
4	2/4	ADF04001S	1		

F1= InsSample F2= Delete
F3= InsCC F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

DEC 1994 RECEIVED

Editing Samples — Autosampler Setup

Table Name: ADF045 — Set #1: SOIL TOTAL METALS

Auto Rinse? Yes

Sample Positions: 0/35 — STD Positions (approx.): 14/19

Page 2 of 5

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
5	2/5	ADF04001W	1		
-R	(RS)	Rinse			
6	2/6	ADF04002	1		
7	2/7	ADF04003	1		
8	2/8	ADF04004	1		
9	2/9	ADF04005	1		
10	2/10	ADF04006	1		
-R	(RS)	Rinse			
-D	1/3	MATL	1	MATL1	No Action
-D	1/2	MINL	1	MINL1	No Action
-D	1/1	IPPM	1	IPPMICV	No Action
-D	1/6	ICAP19	1	ICAP19	No Action
-D	1/4	BLNK	1	BLANK	No Action
11	2/11	ADF04007	1		

F1= InsSample F2= Delete
F3= InsCC F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

Editing Samples — Autosampler Setup

Table Name: ADF045 — Set #1: SOIL TOTAL METALS

Auto Rinse? Yes

Sample Positions: 0/35 — STD Positions (approx.): 14/19

Page 3 of 5

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
12	2/12	ADF04008	1		
13	2/13	ADF04009	1		
14	2/14	ADF04010	1		

15	2/15	ADP04011	1
16	2/16	ADP04012	1
17	2/17	ADP04013	1
18	2/18	ADP04014	1
19	2/19	ADP04015	1
20	2/20	ADP04016	1
21	2/21	ADP04017	1
22	2/22	ADP04018	1
23	2/23	ADP04019	1
-R	(RS)	Rinse	
-D	1/3	MATL	1

MATL1 No Action

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

F1= InsSample F2= Delete
F3= InsDE F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Editing Samples Autosampler Setup
Table Name: ADP045 Set #1: SOIL TOTAL METALS
Auto Rinse? Yes
Sample Positions: 0/35 STD Positions (approx.): 14/19
Page 4 of 5

Samp	R/Pos	SampleName	Factor	CheckTable	Failure Action
-D	1/2	MINL	1	MINL1	No Action
-D	1/1	IPPM	1	IPPMCV	No Action
-D	1/6	ICAP19	1	ICAP19	No Action
-D	1/4	BLANK	1	BLANK	No Action
24	2/24	24	1		
25	2/25	25	1		
26	2/26	26	1		
27	2/27	27	1		
28	2/28	28	1		
29	2/29	29	1		
30	2/30	30	1		
31	2/31	31	1		
32	2/32	32	1		
33	2/33	33	1		

Enter Sample Name
(up to 20 characters)
<Arrow> keys active <Page> keys active

F1= InsSample F2= Delete
F3= InsDE F4=
F5= InsStds F6= InsProfile
F7= InsBlank F8= InsRinse
F9= Done/Keep F10=HELP

Standardization Rpt. Sun 11-27-94 11:36:24 AM page 1

Method: RGNVII Standard: BLNK

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Avge	-.005	.016	-.000	.000	.001	-.000	-.000
SDev	.000	.002	.000	.000	.000	.000	.000
%RSD	.000	9.66	.000	.000	.000	141.	47.1
#1	-.005	.015	-.000	.000	.001	-.000	-.000
#2	-.005	.017	-.000	.000	.001	.000	-.000

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Avge	.001	.001	.004	-.004	.000	.001	.002
SDev	.000	.000	.000	.000	.000	.001	.000
%RSD	23.6	20.2	7.07	.000	47.1	70.7	18.4
#1	.001	.001	.004	-.004	.000	.001	.002
#2	.001	.002	.004	-.004	.000	.000	.003

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Avge	-.002	-.003	-.002	-.014	-.000	.001	.007
SDev	.000	.001	.000	.001	.000	.000	.000
%RSD	5.66	36.7	15.7	8.78	47.1	10.9	5.98
#1	-.002	-.003	-.002	-.015	-.000	.001	.007
#2	-.003	-.002	-.002	-.014	-.000	.001	.007

Elem	Mg2790	Na5895	K_7664
Avge	.001	.017	.002
SDev	.000	.002	.001
%RSD	32.6	11.8	53.0
#1	.001	.015	.001
#2	.002	.018	.002

Standardization Rpt. Sun 11-27-94 11:40:04 AM page 1

Method: RGNVII Standard: MATL

Elem	Ag3280	Ti3775	Mg2790
Avge	.051	.030	5.75
SDev	.002	.002	.01
%RSD	3.08	7.59	.165
#1	.052	.028	5.74
#2	.049	.031	5.76

Standardization Rpt. Sun 11-27-94 11:43:44 AM page 1

Method: RGNVII Standard: MINL

Elem	Al3082	Ca3179	Na5895	K_7664
Avge	.139	24.8	15.8	3.71
SDev	.001	.2	.1	.01
%RSD	.406	.655	.821	.179
#1	.140	24.7	15.7	3.71
#2	.139	24.9	15.9	3.71

Standardization Rpt. Sun 11-27-94 11:47:34 AM page 1

Method: RGNVII Standard: 1PPM

Elem	As1936	Ba4934	Be3130	Cd2265	Co2286	Cr2677	Cu3247
Avge	.030	.393	.250	.143	.168	.164	.203
SDev	.000	.000	.001	.000	.001	.000	.001
%RSD	.000	.072	.567	.198	.589	.086	.628
#1	.030	.393	.249	.143	.167	.164	.204
#2	.030	.393	.251	.143	.169	.164	.202

Elem	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Avge	.132	.210	.116	.169	.061	.170	.098
SDev	.000	.000	.000	.001	.000	.003	.001
%RSD	.000	.135	.243	.419	.000	1.99	1.15
#1	.132	.210	.116	.169	.061	.173	.097
#2	.132	.210	.116	.168	.061	.168	.099

Elem	Ti3349	V_2924	Zn2138
Avge	.171	.277	.117
SDev	.000	.000	.001
%RSD	.000	.051	.724
#1	.171	.277	.117
#2	.171	.277	.118

Analysis Report QC Standard Sun 11-27-94 11:51:32 AM page 1

Method: REGVII Sample Name: 1PPM Operator: TJA
Run Time: 11/27/94 11:47:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.04	14.8	977.	1010.	994.	1000.	1000.
SDev	2.55	3.4	32.	1.	2.	1.	1.
%RSD	246.	23.3	3.27	.143	.172	.099	.084
#1	2.84	12.3	1000.	1010.	993.	1000.	1010.
#2	-.769	17.2	0954.	1010.	995.	1010.	1000.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			3.00	3.00	3.00	3.00	3.00

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	990.	1020.	1000.	997.	1010.	999.	01040.
SDev	1.	1.	6.	1.	7.	3.	2.
%RSD	.088	.069	.438	.133	.727	.252	.232
#1	990.	1020.	1010.	998.	1010.	997.	01030.
#2	991.	1020.	997.	996.	1000.	1000.	01040.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Elem	Sb2068	Se1960	Tl3847	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1010.	01030.	1000.	49.2	992.	997.	.044
SDev	2.	13.	5.	25.7	1.	4.	.003
%RSD	.244	1.22	.490	52.3	.103	.368	6.55
#1	1010.	01040.	998.	67.4	992.	993.	.042
#2	1010.	1020.	1000.	31.0	991.	1000.	.046
Errors	QC Pass	QC Fail	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	3.00	3.00	3.00		3.00	3.00	

passed 1030 is upper limit

pass

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	-.002	.029	.118
SDev	.001	.012	.016
%RSD	70.7	40.9	13.4
#1	-.001	.037	.129
#2	-.003	.020	.107
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: MATL Operator: TJA
Run Time: 11/27/94 11:51:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1020.	7.29	3.22	2.29	1.61	3.49	-.000
Sdev	3.	2.30	13.8	1.08	.00	.99	.840
%RSD	.300	31.3	427.	47.1	.012	28.3	140496
#1	1020.	8.91	12.9	3.05	1.61	4.19	-.594
#2	1010.	5.67	-6.51	1.53	1.61	2.79	.594
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.84	26.3	-19.3	2.33	5.17	1.21	-6.79
Sdev	.87	2.1	2.2	.66	1.22	3.03	7.20
%RSD	47.0	8.01	11.2	28.4	23.6	415.	106.
#1	-1.23	27.3	-18.0	2.80	6.04	4.77	-1.70
#2	-2.45	24.8	-21.1	1.86	4.31	-2.35	-11.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	7.81	-10.9	3.47	1030.	2.88	-1.73	-.003
Sdev	8.17	8.4	1.64	13.	1.33	1.24	.003
%RSD	83.3	77.1	47.1	1.23	33.0	71.8	121.
#1	13.4	-4.96	4.62	1040.	3.97	-2.61	-.000
#2	4.03	-16.8	2.31	1020.	1.80	-.853	-.005
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	50.4	-.044	-.010
Sdev	.0	.012	.007
%RSD	.071	18.2	73.9
#1	50.4	-.036	-.005
#2	50.4	-.072	-.014
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Analysis Report QC Standard Sun 11-27-94 11:59:29 AM page 1

Method: RGNVII Sample Name: MINL Operator: TJA
Run Time: 11/27/94 11:55:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	10.7	994.	-8.71	12.2	.009	1.34	1.19
SDev	10.2	18.	4.48	.7	.001	.00	.84
%RSD	94.8	1.85	51.5	5.87	5.56	.323	70.7
#1	3.54	981.	-11.9	11.7	.008	1.34	1.78
#2	17.9	1010.	-5.54	12.7	.009	1.35	.594
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.07	.497	-10.5	4.72	2.59	.079	-23.8
SDev	2.60	.702	3.3	.00	.00	6.71	12.0
%RSD	84.8	141.	31.4	.081	.016	8440.	50.5
#1	-4.91	.001	-12.8	4.71	2.59	-4.66	-32.3
#2	-1.23	.994	-8.14	4.72	2.59	4.82	-15.3
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	8.66	20.8	.000	22.0	-.000	-.864	96.9
SDev	4.91	2.8	.000	34.6	.510	.025	1.9
%RSD	56.7	13.5	.000	158.	684e6	2.95	2.00
#1	5.18	18.8	.000	-2.50	.360	-.846	95.5
#2	12.1	22.8	.000	46.4	-.360	-.883	98.3
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.078	103.	101.
SDev	.001	6.	4.
%RSD	1.57	5.41	3.73
#1	.077	98.6	98.2
#2	.079	106.	104.
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Analysis Report QC Standard Sun 11-27-94 12:03:26 PM page 1

Method: RGNVII Sample Name: ICAP19 Operator: TJA
Run Time: 11/27/94 11:59:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	3.54	9.09	87.6	.231	91.9	99.0	95.6
SDev	10.2	6.58	23.0	.358	1.1	.0	1.7
%RSD	288.	75.7	26.2	155.	1.24	.002	1.76
#1	10.7	14.0	071.4	.484	91.1	99.0	96.8
#2	-3.66	4.22	104.	-.023	92.7	99.0	94.4
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value			100.		96.0	94.0	100.
Range			25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	97.6	95.4	79.8	96.6	107.	95.8	90.0
SDev	2.6	1.4	1.0	.7	1.	2.5	9.6
%RSD	2.67	1.47	1.24	.683	1.14	2.63	10.7
#1	99.4	94.4	79.1	97.1	108.	97.6	96.8
#2	95.8	96.4	80.5	96.2	106.	94.0	83.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	103.	103.	102.	102.	106.	102.	101.
Range	25.0	25.0	200.	25.0	25.0	25.0	25.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	106.	101.	94.2	144.	97.7	93.2	.146
SDev	2.	15.	.8	57.	2.0	1.2	.015
%RSD	1.55	15.2	.868	39.8	2.09	1.30	10.1
#1	107.	90.2	93.6	184.	99.1	94.0	.157
#2	105.	112.	94.8	103.	96.3	92.3	.136
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	99.0	99.0	101.		101.	101.	
Range	25.0	25.0	25.0		25.0	25.0	

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.109	-.007	-.021
SDev	.012	.001	.055
%RSD	11.3	12.9	261.
#1	.117	-.008	.018
#2	.100	-.006	-.060
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Analysis Report QC Standard Sun 11-27-94 12:11:34 PM page 1

Method: RGNVII Sample Name: BLNK Operator: TJA
Run Time: 11/27/94 12:07:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	3.60	19.3	16.1	.000	.000	.697	-.000
SDev	5.10	3.4	4.6	.000	.000	.987	2.519
%RSD	141.	17.7	28.3	70.8	85.5	142.	140906
#1	-.002	21.9	19.4	.000	.000	-.001	-1.78
#2	7.21	17.0	12.9	.001	.000	1.39	1.78
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	50.0	50.0	2.00	2.00	5.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.23	.000	-2.23	.932	3.45	.001	-3.40
SDev	.00	1.41	3.21	.002	1.22	.003	2.40
%RSD	.093	918000.	144.	.236	35.3	267.	70.7
#1	-1.23	.994	.041	.934	2.59	.003	-1.70
#2	-1.23	-.993	-4.50	.931	4.31	-.001	-5.09
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	50.0	2.00		20.0	50.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	9.81	8.92	2.31	42.9	1.44	.000	.004
SDev	1.63	5.61	.00	70.2	1.53	1.22	.001
%RSD	16.6	62.9	.000	164.	106.	287000.	23.7
#1	8.66	4.93	2.31	-6.79	.360	.866	.005
#2	11.0	12.9	2.31	92.6	2.52	-.865	.004
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	50.0	50.0		300.		20.0	2.00

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.001	.007	.031
SDev	.010	.010	.004
%RSD	1130.	141.	12.5
#1	-.006	.014	.028
#2	.008	-.000	.033
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

CONTINUING

CALIBRATION

DATA

Soils
ADF04

Analysis Report QC Standard Sun 11-27-94 12:57:54 PM page 1

Method: RGNVII Sample Name: MATL Operator: TJA
Run Time: 11/27/94 12:54:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	997.	48.7	9.46	1.53	.807	1.37	-2.38
SDev	15.	3.4	23.0	.00	.000	.00	.84
%RSD	1.54	7.07	243.	.147	.012	.135	35.4
#1	986.	46.2	25.7	1.53	.807	1.37	-1.78
#2	1010.	51.1	-6.78	1.53	.806	1.37	-2.97
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.84	22.4	31.3	3.76	2.39	-1.74	-3.09
SDev	.87	.7	2.2	1.32	.00	2.51	14.41
%RSD	47.1	3.14	4.20	35.0	.010	144.	283.
#1	-2.46	21.9	32.8	2.83	2.39	.034	3.09
#2	-1.23	22.8	49.8	4.70	2.39	-3.52	-15.3
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Tl3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	8.07	9.92	-.378	1030.	3.60	-2.60	2.03
SDev	10.6	18.2	2.472	29.	.31	.01	.23
%RSD	131.	184.	424.	2.81	14.1	.373	11.6
#1	15.6	22.8	1.16	1010.	3.24	-2.61	2.20
#2	.359	-2.97	-2.31	1050.	3.97	-2.59	1.87
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	48.7	-.073	.023
SDev	1.2	.004	.008
%RSD	2.54	6.15	36.0
#1	47.9	-.070	.029
#2	49.6	-.076	.017
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Analysis Report QC Standard Sun 11-27-94 01:01:52 PM page 1

Method: RGNVII Sample Name: MINL Operator: TJA
Run Time: 11/27/94 12:57:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Co2268	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	7.14	991.	-8.70	12.0	.815	2.03	1.19
SDev	3.09	24.	22.82	.4	.000	.98	2.32
%RSD	71.3	2.43	262.	3.01	.044	48.4	212.
#1	3.54	974.	-24.8	11.7	.814	2.72	-.394
#2	10.7	1010.	7.44	12.2	.815	1.33	2.97
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.48	-1.49	13.7	6.13	1.73	-4.07	-10.2
SDev	.00	.70	3.2	.66	1.22	4.19	2.4
%RSD	.000	47.2	23.3	10.8	70.6	103.	23.6
#1	-3.48	-1.99	16.0	6.59	.865	-7.03	-8.49
#2	-3.48	-.992	11.4	5.66	2.59	-1.10	-11.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Tl3649	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	7.49	21.8	-1.16	89.9	1.44	-.854	90.6
SDev	8.17	9.8	1.48	34.8	.51	.015	.5
%RSD	109.	45.0	141.	38.7	35.4	1.75	.574
#1	1.71	14.9	-2.31	65.3	1.80	-.843	90.2
#2	13.3	28.7	.000	115.	1.08	-.864	90.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.344	92.2	90.5
SDev	.044	.2	.0
%RSD	12.9	.249	.029
#1	.373	92.3	90.5
#2	.312	92.0	90.6
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Analysis Report QC Standard Sun 11-27-94 01:05:50 PM page 1

Method: RGNVII Sample Name: 1PPM Operator: TJA
Run Time: 11/27/94 13:01:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	6.47	35.1	984.	982.	985.	992.	976.
SDev	.01	4.6	31.	8.	6.	1.	1.
%RSD	.115	13.0	3.14	.843	.578	.099	.086
#1	6.47	38.3	0948.	988.	981.	992.	977.
#2	6.46	31.8	1020.	977.	990.	993.	976.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			5.00	5.00	5.00	5.00	5.00

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1010.	965.	982.	981.	1000.	973.	973.
SDev	10.	11.	7.	3.	6.	3.	17.
%RSD	.946	1.16	.667	.344	.607	.258	1.72
#1	1000.	973.	978.	979.	1000.	974.	963.
#2	1020.	957.	987.	984.	1010.	971.	984.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	5.00	5.00	5.00	5.00	5.00	5.00	5.00

Elem	Sb2068	Se1960	Ti3349	Tl1775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1000.	984.	0804.	137.	959.	998.	.168
SDev	.	8.	6.	19.	10.	3.	.001
%RSD	.001	.854	.712	14.1	1.01	.492	.678
#1	1000.	990.	0808.	123.	952.	995.	.169
#2	1000.	978.	0800.	151.	966.	1000.	.167
Errors	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	5.00	5.00	5.00		5.00	5.00	

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.059	.030	.046
SDev	.004	.010	.037
%RSD	6.24	33.1	80.7
#1	.057	.037	.072
#2	.062	.023	.020
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Analysis Report QC Standard Sun 11-27-94 01:09:47 PM page 1

Method: REGNVII Sample Name: ICAP19 Operator: TJA
Run Time: 11/27/94 13:05:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	14.3	35.0	110.	.740	90.7	97.6	98.0
SDev	.0	2.3	9.	.339	.6	.0	1.7
%RSD	.023	6.55	8.32	48.3	.629	.001	1.71
#1	14.3	36.7	117.	.994	91.1	97.6	99.2
#2	14.4	33.4	104.	.486	90.3	97.6	96.8
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value			100.		96.0	94.0	100.
Range			25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	100.	95.9	85.8	94.8	109.	91.6	93.4
SDev	1.	.7	1.1	.7	1.	1.7	4.8
%RSD	.868	.733	1.26	.693	1.12	1.83	5.14
#1	101.	95.4	86.6	94.3	110.	92.8	96.8
#2	99.4	96.4	85.0	95.2	108.	90.4	90.0
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	103.	103.	102.	102.	106.	102.	101.
Range	25.0	25.0	200.	25.0	25.0	25.0	25.0

Elem	Sb2068	Se1960	Ti3349	Tl1377	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	107.	0126.	77.3	248.	91.9	93.2	.123
SDev	13.	8.	1.6	.	.0	1.2	.006
%RSD	12.2	6.68	2.11	.037	.000	1.31	4.58
#1	116.	0132.	78.6	248.	91.9	94.1	.129
#2	97.7	120.	76.3	248.	91.9	92.3	.121
Errors	QC Pass	QC Fail	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	99.0	99.0	101.		101.	101.	
Range	25.0	25.0	25.0		25.0	25.0	

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.112	-.038	-.038
SDev	.003	.001	.023
%RSD	2.19	1.55	60.5
#1	.110	-.038	-.073
#2	.114	-.037	-.041
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: BLNK Operator: TJA
Run Time: 11/27/94 14:25:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.84	-1.72	20.0	.002	-.000	-.004	-1.29
SDev	7.82	2.43	.0	.377	.000	2.051	.00
%RSD	426.	141.	.045	17700.	353.	49700.	.000
#1	3.69	-.004	20.0	-.265	-.000	1.45	-1.29
#2	-7.36	-3.44	20.0	.269	.000	-1.45	-1.29
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	30.0	30.0	2.00	2.00	3.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-.607	-1.09	3.13	-.508	-1.75	-3.18	-12.9
SDev	3.434	.77	3.49	.722	1.24	6.30	7.8
%RSD	566.	70.7	111.	142.	70.7	198.	60.6
#1	-3.03	-1.64	.667	-1.02	-.874	-7.64	-18.4
#2	1.82	-.545	5.60	.002	-2.62	1.27	-7.37
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	30.0	2.00		20.0	30.0

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	3.57	-11.2	-3.78	-48.6	-3.56	.011	-.003
SDev	11.8	20.2	1.34	72.5	1.12	2.49	.008
%RSD	330.	180.	35.4	149.	31.4	22210.	283.
#1	11.9	-25.6	-4.73	-99.9	-4.35	-1.75	-.008
#2	-4.77	3.07	-2.84	2.64	-2.77	1.77	.003
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	50.0	30.0		300.		20.0	2.00

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	-.010	-.006	-.025
SDev	.005	.005	.025
%RSD	51.4	78.6	98.4
#1	-.014	-.010	-.042
#2	-.006	-.003	-.008
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

Method: REGNVII Sample Name: MATL Operator: TJA
Run Time: 11/27/94 15:47:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	984.	-24.3	-4.38	-.249	-.000	-1.45	-3.22
SDev	3.	2.3	4.77	.376	.000	2.06	2.73
%RSD	.295	9.43	72.5	140.	12.6	142.	84.9
#1	988.	-24.7	-9.96	-.333	-.000	.003	-1.29
#2	984.	-23.3	-3.21	-.003	-.001	-2.91	-5.15
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1000.						
Range	10.0						

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-1.83	20.7	-13.6	-.002	-.002	.016	7.30
SDev	.00	.0	1.1	.720	1.236	.899	23.2
%RSD	.068	.001	8.35	32200.	73500.	5710.	318.
#1	-1.83	20.7	-12.8	.508	.873	-.620	-9.12
#2	-1.83	20.7	-14.4	-.511	-.876	.652	23.7
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Tl3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-8.41	-4.10	.946	926.	3.15	-1.77	-.337
SDev	6.50	2.89	.000	68.	3.34	1.26	.578
%RSD	80.8	70.7	.000	7.39	106.	71.0	162.
#1	-3.61	-6.14	.946	878.	.783	-.882	-.766
#2	-13.2	-2.05	.946	974.	5.51	-2.66	.051
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value				1000.			
Range				30.0			

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	50.4	-23.8	-11.8
SDev	.1	1.3	3.9
%RSD	.184	4.88	50.5
#1	50.4	-24.9	-16.0
#2	50.5	-22.7	-7.56
Errors	QC Pass	NOCHECK	NOCHECK
Value	50.0		
Range	10.0		

Analysis Report QC Standard Sun 11-27-94 04:10:57 PM page 1

Method: RGNVII Sample Name: ICAP19 Operator: TJA
Run Time: 11/27/94 16:07:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.17	-10.0	90.3	-.394	91.7	94.3	94.4
SDev	.00	3.9	15.9	.002	.0	1.1	3.1
%RSD	.114	39.3	17.6	.496	.000	1.17	3.29
#1	-4.17	-7.24	102.	-.393	91.7	93.1	92.4
#2	-4.17	-12.8	79.0	-.395	91.7	93.5	96.8
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value			100.		96.0	94.0	100.
Range			25.0		25.0	25.0	25.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	102.	97.2	83.9	97.4	103.	96.2	94.3
SDev	1.	2.4	2.7	.0	1.	1.0	13.9
%RSD	.871	2.51	3.17	.002	1.29	1.02	14.7
#1	102.	95.5	82.1	97.4	102.	96.9	84.5
#2	101.	98.9	85.8	97.4	104.	95.5	104.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	103.	103.	102.	102.	106.	102.	101.
Range	25.0	25.0	200.	25.0	25.0	25.0	25.0

Elem	Sb2068	Se1960	Ti3349	Tl1775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	86.7	78.3	91.4	148.	100.	96.0	.079
SDev	.9	14.6	2.0	18.	1.	1.3	.007
%RSD	1.04	18.6	2.21	12.2	.618	1.40	8.72
#1	86.1	068.0	90.0	135.	99.8	95.0	.084
#2	87.4	88.6	92.9	161.	101.	96.9	.074
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	99.0	99.0	101.		101.	101.	
Range	25.0	25.0	25.0		25.0	25.0	

Elem	Mg2790	Na3895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.101	-.073	-.117
SDev	.006	.000	.010
%RSD	5.55	.000	8.24
#1	.097	-.073	-.110
#2	.105	-.073	-.124
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: RGNVII Sample Name: MINL Operator: TJA
Run Time: 11/27/94 16:13:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	4.02	986.	28.4	11.1	.009	-1.61	-.734
SDev	.00	7.	.0	.4	.000	2.20	1.038
%RSD	.005	.666	.150	3.62	1.02	137.	141.
#1	4.02	991.	28.4	11.4	.009	-.051	-1.47
#2	4.02	981.	28.4	10.8	.009	-3.16	-.000
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1000.					
Range		10.0					

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.77	-2.30	-14.8	3.46	-1.88	-2.01	-3.93
SDev	2.66	1.63	2.6	.80	1.33	.00	2.78
%RSD	70.7	70.7	17.6	23.1	70.6	.217	70.7
#1	-1.88	-1.15	-13.0	2.90	-2.82	-2.01	-1.96
#2	-5.65	-3.45	-16.6	4.03	-.941	-2.01	-5.89
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sb2068	Se1960	Ti3349	Ti3773	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-7.05	9.27	-7.14	42.8	-.438	-.934	93.8
SDev	8.16	24.8	.00	23.3	.619	.001	.6
%RSD	116.	267.	.000	59.0	141.	.054	.656
#1	-1.29	26.8	-7.14	25.0	-.000	-.935	94.2
#2	-12.8	-8.24	-7.14	60.7	-.875	-.934	93.3
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value							100.
Range							10.0

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	.032	99.3	98.9
SDev	.011	.1	.3
%RSD	35.4	.118	.316
#1	.040	99.4	99.3
#2	.024	99.2	98.6
Errors	NOCHECK	QC Pass	QC Pass
Value		100.	100.
Range		10.0	10.0

Method: RGNVII Sample Name: 1PPM Operator: TJA
Run Time: 11/27/94 16:32:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.79	-6.59	981.	1020.	1000.	986.	986.
SDev	2.90	1.31	44.	3.	3.	8.	3.
%RSD	104.	19.8	4.51	.293	.272	.804	.346
#1	-4.84	-5.67	0949.	1020.	1010.	980.	982.
#2	-.741	-7.32	1010.	1020.	1000.	991.	989.
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			1000.	1000.	1000.	1000.	1000.
Range			3.00	3.00	3.00	3.00	3.00

Elem	Cr2677	Cu3247	Fe2759	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	970.	1040.	982.	974.	992.	987.	998.
SDev	4.	1.	.	4.	3.	8.	3.
%RSD	.438	.083	.016	.423	.323	.816	.281
#1	967.	1040.	982.	971.	988.	981.	1000.
#2	973.	1040.	982.	977.	996.	993.	996.
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.	1000.	1000.	1000.	1000.	1000.	1000.
Range	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Elem	Sb2068	Se1960	Ti3349	Tl1775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1010.	992.	989.	103.	987.	981.	.023
SDev	1.	23.	4.	37.	3.	7.	.008
%RSD	.094	2.36	.450	34.3	.323	.445	30.1
#1	1010.	1010.	986.	64.8	985.	976.	.031
#2	1010.	976.	992.	146.	990.	985.	.020
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1000.	1000.	1000.		1000.	1000.	
Range	5.00	5.00	5.00		5.00	5.00	

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	-.008	.025	.099
SDev	.014	.005	.038
%RSD	177.	18.9	38.4
#1	-.018	.029	.072
#2	.002	.022	.126
Errors	NOCHECK	NOCHECK	NOCHECK
Value			
Range			

Method: REGNVII Sample Name: BLNK Operator: TJA
Run Time: 11/27/94 16:38:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-2.05	-14.9	-3.81	-.908	.481	-.793	-3.04
SDev	2.90	2.6	11.03	.481	.481	1.130	2.15
%RSD	142.	17.7	289.	47.4	142.	142.	70.7
#1	-4.10	-13.0	3.99	-.403	.963	-1.39	-4.37
#2	.003	-16.7	-11.6	-1.21	-.001	.006	-1.32
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.000	.000	.000	.000	.000	.000	.000
Range	10.0	30.0	30.0	2.00	2.00	5.00	10.0

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-3.77	-.000	-23.5	-.014	-1.94	-2.14	-9.90
SDev	.89	.000	.0	.823	4.11	2.01	16.80
%RSD	23.5	3150.	.162	5980.	212.	93.9	170.
#1	-3.14	.000	-23.5	.549	-4.85	-.719	-21.8
#2	-4.39	-.000	-23.5	-.597	.967	-3.56	1.98
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000	.000	.000		.000	.000
Range	10.0	10.0	30.0	2.00		20.0	30.0

Elem	Sb2068	Se1960	Tl3449	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-6.08	-6.62	-3.14	23.2	2.26	-1.84	-.047
SDev	6.67	37.46	3.22	61.4	1.92	1.32	.002
%RSD	110.	565.	70.7	265.	84.9	71.6	3.23
#1	-10.3	-33.1	-1.57	-20.3	.903	-2.77	-.048
#2	-1.86	19.9	-4.72	66.6	3.61	-.919	-.046
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.000	.000		.000		.000	.000
Range	30.0	30.0		300.		20.0	2.00

Elem	Mg2790	Na3303	K 7664
Units	MG/L	MG/L	MG/L
Avge	-.011	-.080	-.059
SDev	.004	.004	.011
%RSD	38.6	4.47	18.4
#1	-.014	-.083	-.067
#2	-.008	-.078	-.051
Errors	QC Pass	QC Pass	NOCHECK
Value	.000	.000	
Range	2.00	2.00	

PERFORMANCE

[ ] ICAP [ ] Furnace AA

EVALUATION

STANDARD

NO. LCS 0287

Gil
ADF04

Analysis Report Sun 11-27-94 12:19:55 PM page 1

Method: RGNVII Sample Name: ADF04951G Operator: TJA
Run Time: 11/27/94 12:16:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	378.	3760.	10600.	53.8	167.	452.	1450.
SDev	8.	5.	14.	.4	2.	3.	13.
%RSD	2.02	.143	.137	.676	1.04	.709	.869
#1	373.	3770.	10500.	53.5	168.	454.	1460.
#2	384.	3760.	10600.	54.0	166.	450.	1440.

used Gram same day + Digester same day

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	997.	78000.	198000.	2010.	507.	704.	2590.
SDev	12.	152.	2081.	24.	10.	10.	17.
%RSD	1.22	.195	1.05	1.19	1.98	1.45	.650
#1	1010.	77900.	199000.	2030.	514.	711.	2600.
#2	989.	78100.	196000.	2000.	500.	697.	2580.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	3110.	501.	138.	585.	740.	2450.	S6430.
SDev	17.	28.	5.	7.	8.	27.	[illegible]
%RSD	.552	5.54	3.57	1.26	1.03	1.08	.007
#1	3120.	481.	141.	590.	746.	2470.	S6430.
#2	3100.	520.	134.	580.	735.	2430.	S6430.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	1110.	2.16	.075
SDev	5.	.02	.001
%RSD	.420	1.04	.973
#1	1110.	2.17	.075
#2	1110.	2.14	.076

Analysis Report Sun 11-27-94 04:52:19 PM page 1

Method: RGNVII Sample Name: ADF04951G :10 Operator: TJA
Run Time: 11/27/94 16:48:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	34.1	340.	1100.	5.11	22.4	47.0	160.
SDev	.0	4.	17.	.43	.0	3.3	.
%RSD	.077	1.14	1.51	8.39	.008	7.12	.000
#1	34.1	337.	1090.	5.41	22.4	49.4	160.
#2	34.1	343.	1110.	4.81	22.4	44.7	160.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	109.	7660.	22900.	226.	52.3	76.5	263.
SDev	3.	24.	139.	2.	2.8	2.0	.
%RSD	2.43	.314	.609	.756	5.28	2.63	.000
#1	111.	7640.	23000.	227.	54.2	78.0	263.
#2	108.	7680.	22800.	225.	50.3	75.1	263.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	308.	53.8	7.86	133.	88.0	312.	198.
SDev	8.	3.1	4.45	26.	1.9	4.	1.
%RSD	2.48	5.84	56.6	19.1	2.18	1.25	.582
#1	302.	56.0	11.0	115.	89.4	315.	199.
#2	313.	51.5	4.72	151.	86.7	310.	198.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	121.	.143	-.061
SDev	.	.013	.003
%RSD	.163	9.20	5.43
#1	121.	.133	-.058
#2	121.	.152	-.063

Cor I

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	296.	3320.	10500.	52.2	183.	419.	1360.
SDev	6.	23.	75.	.4	1.	1.	1.
%RSD	1.95	.687	.709	.726	.625	.144	.051
#1	300.	3300.	10600.	52.4	184.	419.	1360.
#2	292.	3330.	10500.	51.9	182.	418.	1360.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	968.	70400.	192000.	1990.	501.	651.	2360.
SDev	14.	285.	695.	8.	1.	2.	18.
%RSD	1.44	.405	.362	.401	.197	.303	.771
#1	978.	70200.	192000.	2000.	500.	652.	2370.
#2	958.	70600.	191000.	1990.	502.	650.	2350.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	2840.	489.	142.	431.	724.	2150.	54970.
SDev	26.	15.	10.	72.	.	3.	.
%RSD	.931	3.02	7.16	16.8	.061	.134	.002
#1	2850.	479.	149.	380.	724.	2150.	54970.
#2	2820.	500.	134.	482.	724.	2150.	54970.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	1110.	1.85	-.106
SDev	1.	.00	.006
%RSD	.072	.000	5.21
#1	1110.	1.85	-.110
#2	1110.	1.85	-.102

AF03952G
Ran Same Day + Digested Same Day

METALS BY ICAP

[X] TOTAL [ ] DISSOLVED

MATRIX

SPIKE

&

SPIKE DUPLICATE

Soils
ADF04

DATA

Method: RGNVII Sample Name: ADF040015 :10 Operator: TJA
Run Time: 11/27/94 16:52:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3281	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	82.3	117000.	434.	1390.	96.0	70.8	141.
Sdev	3.1	454.	37.	3.	.0	1.7	3.
%RSD	3.71	.388	8.55	.247	.024	2.39	2.29
#1	84.5	117000.	442.	1380.	96.0	69.6	143.
#2	80.1	118000.	410.	1390.	96.0	72.0	139.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	203.	183.	21300.	3900.	70.1	231.	770.
Sdev	7.	.	1491.	48.	2.9	1.	.
%RSD	3.50	.003	.700	.971	4.18	.304	.000
#1	198.	183.	21200.	3870.	68.0	231.	770.
#2	208.	183.	21400.	3930.	72.1	230.	770.

Elem	Sb2068	Se1960	Tl1947	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	789.	-29.4	833.	847.	354.	2050.	128.
Sdev	7.	20.5	4.	64.	3.	14.	2.
%RSD	.844	52.0	.533	7.50	.722	.689	1.45
#1	784.	-33.9	838.	812.	352.	2040.	127.
#2	794.	-24.9	832.	882.	356.	2060.	129.

Elem	Mg2790	Na3303	K_7664
Units	MG/L	MG/L	MG/L
Avge	102.	91.4	102.
Sdev	.	2.2	2.
%RSD	.444	2.40	1.58
#1	102.	89.9	101.
#2	103.	93.0	104.

Analysis Report Sun 11-27-94 12:28:39 PM page 1

Method: RGNVII Sample Name: ADF040015 Operator: TJA
Run Time: 11/27/94 12:24:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1040.	12100000.	3110.	11900.	756.	1100.	1210.
SDev	9.	3579.	26.	46.	2.	3.	4.
%RSD	.901	.424	.837	.389	.241	.468	.347
#1	1030.	12100000.	3090.	11800.	755.	1100.	1210.
#2	1040.	12200000.	3130.	11900.	758.	1110.	1210.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1920.	1990.	14800000.	34900.	491.	2000.	7110.
SDev	10.	11.	3457.	129.	3.	.	62.
%RSD	.544	.545	.23	.369	.772	.022	.878
#1	1910.	1990.	14700000.	34800.	487.	2000.	7060.
#2	1920.	2000.	14800000.	35000.	493.	2000.	7150.

Elem	Sb2068	Se1960	Ti3349	Tl1377	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	8020.	1270.	7370.	8380.	3000.	21400.	56430.
SDev	70.	29.	6.	215.	6.	44.	.
%RSD	.875	2.27	.078	2.57	.204	.300	.000
#1	7970.	1290.	7380.	8230.	2990.	21400.	56430.
#2	8070.	1250.	7370.	8530.	3000.	21500.	56430.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	820.	830.	1030.
SDev	3.	12.	9.
%RSD	.336	1.46	.917
#1	818.	821.	1020.
#2	822.	839.	1030.

Method: RGNVII Sample Name: ADF040011W :10 Operator: TJA
Run Time: 11/27/94 14:54:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1978	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	83.0	110000.	399.	1340.	94.9	71.2	134.
Sdev	2.8	393.	14.	3.	.0	.5	.
%RSD	3.32	.357	3.53	.254	.022	.742	.000
#1	81.0	110000.	399.	1340.	94.9	70.8	134.
#2	84.9	110000.	380.	1340.	94.9	71.5	134.

Elem	Cr2477	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	198.	171.	211000.	3870.	89.8	220.	737.
Sdev	.	3.	1415.	31.	2.5	1.	3.
%RSD	.004	1.51	.744	.803	3.44	.327	.380
#1	198.	169.	210000.	3870.	91.6	220.	739.
#2	198.	173.	212000.	3910.	88.0	219.	735.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	837.	-47.4	754.	743.	334.	2040.	124.
Sdev	.	23.2	.	12.	1.	9.	.
%RSD	.000	53.1	.000	1.63	.382	.432	.163
#1	837.	-45.2	754.	748.	333.	2050.	125.
#2	837.	-29.6	754.	734.	335.	2040.	124.

Elem	Mg2790	Na3893	K 7664
Units	MG/L	MG/L	MG/L
Avge	101.	90.3	101.
Sdev	.	.3	.
%RSD	.214	.340	.084
#1	100.	90.1	101.
#2	101.	90.5	101.

Analysis Report Sun 11-27-94 12:32:33 PM page 1

Method: RGNVII Sample Name: ADF04001W Operator: TJA
Run Time: 11/27/94 12:28:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1040.	1160000.	3160.	11800.	763.	1120.	1210.
SDev	10.	2279.	17.	3.	2.	6.	3.
%RSD	1.01	.198	.535	.028	.231	.556	.209
#1	1030.	1160000.	3140.	11800.	764.	1110.	1210.
#2	1050.	1160000.	3170.	11800.	762.	1120.	1200.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1870.	1980.	1470000.	34800.	486.	1980.	7100.
SDev	7.	8.	4444.	154.	3.	8.	34.
%RSD	.374	.389	.459	.443	.476	.383	.474
#1	1870.	1980.	1460000.	34900.	489.	1990.	7120.
#2	1840.	1990.	1450000.	34700.	484.	1980.	7070.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	8600.	1210.	4850.	8620.	2900.	21500.	54430.
SDev	2.	82.	19.	60.	-	44.	.
%RSD	.029	6.81	.274	.701	.000	.205	.000
#1	8600.	1260.	4860.	8660.	2900.	21500.	54430.
#2	8600.	1150.	4840.	8570.	2900.	21500.	54430.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	811.	828.	1020.
SDev	1.	3.	2.
%RSD	.067	.330	.236
#1	811.	826.	1020.
#2	810.	830.	1020.

METALS BY ICAP

[✓] TOTAL [ ] DISSOLVED

SAMPLE

DATA

DILUTION: 1:10 6 8 19 13

Soil
ADF04

Analysis Report Sun 11-27-94 12:13:59 PM page 1

Method: RGNVII Sample Name: ADF0495LM Operator: TJA
Run Time: 11/27/94 12:12:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	5.39	82.8	2.77	2.29	.002	1.33	-1.78
SDev	2.54	5.7	4.56	.36	.000	1.97	.00
%RSD	47.2	6.93	165.	15.8	8.30	146.	.000
#1	7.19	86.8	5.99	2.04	.002	-.043	-1.78
#2	3.59	78.7	-.453	2.53	.002	2.74	-1.78

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-4.90	-.993	104.	1.43	1.74	-1.76	-10.2
SDev	1.73	.000	2.	.46	1.22	2.32	7.2
%RSD	35.4	.011	2.11	43.6	70.2	143.	70.7
#1	-3.67	-.993	106.	1.92	.876	.032	-3.07
#2	-6.13	-.993	102.	.932	2.60	-3.54	-15.3

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	7.50	-.977	.378	67.7	.721	7.78	.609
SDev	8.17	2.803	.818	54.1	.510	.01	.011
%RSD	109.	287.	141.	79.8	70.7	.123	1.87
#1	13.3	-2.96	.000	106.	.360	7.78	.617
#2	1.72	1.00	1.16	29.3	1.08	7.77	.600

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	.074	2.04	.063
SDev	.010	.06	.005
%RSD	13.3	2.81	7.63
#1	.081	2.08	.062
#2	.067	2.00	.059

Method: RGNVII Sample Name: 0DF0495IM Operator: TJA
Run Time: 11/27/94 16:44:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	4.10	-13.9	7.89	-.607	.000	.001	-6.09
SDev	.00	1.3	27.6	.857	.000	.001	4.31
%RSD	.053	9.39	350.	141.	8.98	90.4	70.7
#1	4.10	-13.0	-11.6	-.001	.000	.002	-3.04
#2	4.11	-14.8	27.4	-1.21	.000	.001	-9.13

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	1.26	-.607	7.33	1.17	-3.88	3.36	-.000
SDev	2.66	.858	3.94	.82	1.37	.00	2.800
%RSD	211.	141.	52.1	70.4	35.4	.014	7206
#1	-.621	.000	4.77	1.75	-4.83	3.36	1.98
#2	3.14	-1.21	10.3	.588	-2.91	3.36	-1.98

Elem	Sb2068	Se1960	Tl1908	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-9.44	8.83	-.000	71.2	3.16	5.35	.005
SDev	1.91	62.4	2.224	28.9	1.92	1.31	.010
%RSD	20.2	707.	1865e6	40.5	60.6	23.6	184.
#1	-8.09	53.0	1.57	91.6	1.81	6.47	.012
#2	-10.8	-35.3	-1.57	50.8	4.51	4.62	-.002

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	.003	-.063	-.012
SDev	.007	.001	.008
%RSD	236.	1.84	71.8
#1	-.002	-.064	-.018
#2	.008	-.064	-.006

Analysis Report Sun 11-27-94 12:24:43 PM page 1

Method: RGNVII Sample Name: ADF04001 Operator: TJA
Run Time: 11/27/94 12:20:50
Comment:
Mode: DONE Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Co2286	Cr2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-56.0	470000.	862.	6210.	33.5	23.8	273.
SDev	5.0	1482.	17.	1.	.0	1.8	5.
%RSD	8.97	.315	1.94	.017	.038	7.33	1.83
#1	-52.4	469000.	873.	6210.	33.5	22.6	279.
#2	-59.5	471000.	850.	6200.	33.5	25.1	271.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	482.	843.	475000.	14400.	7.16	790.	1580.
SDev	4.	1.	2363.	92.	11.3	3.	14.
%RSD	.838	.168	.497	.640	157.	.358	.909
#1	483.	844.	477000.	14400.	15.1	792.	1590.
#2	479.	842.	474000.	14300.	-.811	788.	1570.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	102.	143.	1590.	-459.	1130.	4370.	510.
SDev	5.	48.	.	18.	7.	13.	3.
%RSD	4.82	33.7	.000	2.79	.634	.298	.598
#1	105.	176.	1590.	-446.	1130.	4380.	512.
#2	98.2	109.	1590.	-472.	1120.	4360.	507.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	176.	9.51	75.1
SDev	.	.22	1.3
%RSD	.238	2.33	1.76
#1	176.	9.36	74.2
#2	176.	9.67	76.1

Analysis Report Sun 11-27-94 12:37:22 PM page 1

Method: RGNVII Sample Name: ADF04002 Operator: TJA
Run Time: 11/27/94 12:33:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Co2286	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-35.8	372000.	839.	5780.	32.6	17.4	273.
SDev	.2	2463.	92.	3.	.0	1.2	2.
%RSD	.532	.661	10.9	.044	.071	6.66	.616
#1	-36.0	374000.	774.	5780.	32.7	16.3	274.
#2	-35.7	371000.	904.	5770.	32.6	18.2	271.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	482.	591.	450000.	13700.	14.4	756.	990.
SDev	4.	1.	102.	2.	3.6	1.	29.
%RSD	.900	.119	.023	.011	25.4	.082	2.91
#1	485.	591.	450000.	13700.	11.8	756.	969.
#2	479.	590.	450000.	13700.	16.9	757.	1010.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	110.	80.7	1940.	-440.	994.	2710.	235.
SDev	12.	26.6	16.	5.	1.	.	1.
%RSD	11.1	33.0	.842	1.03	.103	.001	.334
#1	119.	99.6	1930.	-436.	993.	2710.	236.
#2	102.	61.9	1950.	-443.	993.	2710.	233.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	133.	4.62	70.8
SDev	.	.14	1.0
%RSD	.302	2.97	1.47
#1	133.	4.72	71.3
#2	133.	4.53	70.0

Analysis Report Sun 11-27-94 12:41:18 PM page 1

Method: RGNVII Sample Name: ADF04003 Operator: TJA
Run Time: 11/27/94 12:37:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Co2286	Cr2884
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-42.1	354000.	497.	5460.	28.0	18.1	230.
SDev	1.9	3827.	10.	28.	.7	1.3	8.
%RSD	4.60	1.08	1.42	.494	2.32	7.27	3.28
#1	-40.7	357000.	704.	5480.	28.4	19.0	236.
#2	-43.5	351000.	490.	5440.	27.5	17.2	223.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	463.	467.	373000.	11800.	16.9	601.	934.
SDev	10.	3.	4001.	151.	1.7	6.	7.
%RSD	2.07	.605	1.07	1.29	10.2	1.01	.755
#1	470.	471.	375000.	11900.	18.1	605.	939.
#2	456.	467.	370000.	11600.	15.6	596.	949.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	86.2	89.4	3490.	-324.	948.	2380.	521.
SDev	21.2	48.2	49.	87.	17.	37.	10.
%RSD	24.6	53.9	1.41	26.8	1.83	1.56	1.94
#1	101.	123.	3520.	-263.	960.	2400.	528.
#2	71.2	55.4	3450.	-383.	935.	2350.	514.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	110.	6.21	74.1
SDev	1.	.14	1.1
%RSD	.672	2.19	1.43
#1	111.	6.31	74.9
#2	110.	6.11	73.4

Analysis Report Sun 11-27-94 12:45:14 PM page 1

Method: RGNVII Sample Name: ADF04004 Operator: TJA
Run Time: 11/27/94 12:41:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-24.4	224000.	414.	4010.	21.6	.968	243.
SDev	.0	202.	31.	8.	.6	1.04	.
%RSD	.096	.090	3.05	.189	2.63	107.	.000
#1	-24.4	223000.	392.	4010.	22.0	1.70	243.
#2	-24.4	224000.	435.	4000.	21.2	.233	243.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	344.	224.	343000.	7540.	40.6	561.	374.
SDev	2.	1.	102.	3.	2.5	5.	2.
%RSD	.500	.428	.030	.043	4.05	.892	.418
#1	345.	223.	343000.	7540.	58.9	564.	372.
#2	347.	225.	343000.	7540.	62.4	557.	376.

Elem	Sb2068	Se1960	Tl3847	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	90.7	66.7	3250.	-240.	740.	1380.	70.1
SDev	16.3	9.8	16.	48.	4.	4.	.0
%RSD	18.0	14.7	.503	18.5	.482	.266	.005
#1	79.2	59.8	3240.	-294.	742.	1380.	70.1
#2	102.	73.7	3240.	-226.	737.	1380.	70.1

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	71.5	6.19	33.5
SDev	.0	.10	.2
%RSD	.053	1.69	.587
#1	71.5	6.12	33.4
#2	71.5	6.27	33.7

Analysis Report Sun 11-27-94 12:49:10 PM page 1

Method: RGNVII Sample Name: ADF04005 Operator: TJA
Run Time: 11/27/94 12:45:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-30.5	228000.	609.	4180.	21.7	-2.94	219.
SDev	2.3	2265.	31.	1.	.5	.48	10.
%RSD	7.51	.992	5.11	.034	2.47	16.3	4.60
#1	-28.9	230000.	587.	4180.	21.3	-2.60	226.
#2	-32.1	227000.	631.	4180.	22.1	-3.27	212.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	332.	229.	349000.	8210.	6.20	597.	535.
SDev	2.	3.	1080.	36.	.13	5.	5.
%RSD	.521	1.23	.309	.442	2.16	.903	.898
#1	331.	231.	350000.	8240.	6.29	601.	538.
#2	334.	227.	348000.	8190.	6.10	593.	531.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	88.5	78.4	2970.	-297.	720.	1350.	63.0
SDev	17.9	53.4	22.	44.	1.	3.	.5
%RSD	20.3	68.1	.743	14.9	.071	.256	.841
#1	75.8	116.	2990.	-328.	720.	1350.	63.4
#2	101.	40.7	2950.	-265.	719.	1350.	62.6

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	75.2	5.48	36.7
SDev	.6	.35	1.4
%RSD	.766	6.33	3.80
#1	75.6	5.72	37.7
#2	74.8	5.23	35.7

Method: RGNVII Sample Name: ADF04006 :10 Operator: TJA
Run Time: 11/27/94 17:00:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	33.8	2390.	15.0	30.3	1.12	.689	-2.28
SDev	5.8	3.	5.5	.0	.00	.001	3.23
%RSD	17.1	.110	37.0	.008	.031	.148	141.
#1	37.9	2380.	18.9	30.3	1.12	.690	-4.57
#2	29.7	2390.	11.1	30.3	1.12	.688	-.000

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	25.4	3.70	11100.	382.	19.8	17.2	3.96
SDev	2.7	1.72	13.	1.	2.7	4.0	14.0
%RSD	10.5	46.3	.120	.214	13.9	23.4	354.
#1	23.5	2.49	11100.	383.	17.9	14.3	-5.94
#2	27.3	4.92	11100.	382.	21.7	20.0	13.9

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	-22.9	34.6	-45.6	109.	23.5	277.	1190.
SDev	17.2	34.3	.0	18.	3.8	.	16.
%RSD	75.0	99.3	.000	16.9	16.3	.006	1.34
#1	-35.0	10.3	-45.6	122.	20.8	277.	1200.
#2	-10.7	58.8	-45.6	95.8	26.2	277.	1180.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	587.	1.31	.755
SDev	1.	.01	.019
%RSD	.107	.909	2.47
#1	587.	1.32	.742
#2	588.	1.31	.768

Analysis Report Sun 11-27-94 12:53:06 PM page 1

Method: RGNVII Sample Name: ADF04006 Operator: TJA
Run Time: 11/27/94 12:49:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	KASA.	24200.	147.	233.	3.94	39.2	13.7
SDev	.	59.	22.	1.	.58	1.8	.0
%RSD	.011	.243	15.3	.409	14.6	4.58	.000
#1	KASA.	24100.	131.	234.	3.35	37.9	13.7
#2	KASA.	24200.	163.	233.	4.37	40.5	13.7

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	237.	49.1	77600.	2890.	205.	166.	30.9
SDev	12.	1.4	513.	26.	20.	13.	30.4
%RSD	5.13	2.87	.661	.899	9.53	7.63	99.0
#1	228.	48.2	77300.	2870.	192.	157.	15.3
#2	245.	50.1	78000.	2910.	219.	175.	46.6

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	44.2	93.4	-168.	174.	161.	1240.	933.
SDev	2.4	102.	1.	123.	9.	11.	1.
%RSD	5.47	110.	.486	70.6	5.69	.878	.057
#1	46.0	21.0	-168.	87.1	155.	1230.	932.
#2	42.5	166.	-169.	261.	168.	1250.	933.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	513900.	13.0	7.75
SDev	.	.0	.06
%RSD	.000	.339	.747
#1	513900.	13.0	7.79
#2	513900.	12.9	7.71

Method: RSNVII Sample Name: ADF0400B :10 Operator: TJA
Run Time: 11/27/94 17:04:11
Comment:
Mode: DONE Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	10.8	5400.	20.1	34.4	.701	-.334	.761
SDev	8.4	32.	14.3	.0	.482	2.241	3.23
%RSD	79.7	.937	80.9	.003	97.3	666.	424.
#1	17.0	5540.	8.41	34.4	1.18	1.23	3.04
#2	4.73	5430.	31.7	34.4	.219	-1.92	-1.52

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	13.3	11.0	13500.	465.	.703	22.2	17.8
SDev	1.8	.0	43.	5.	2.73	2.0	11.2
%RSD	13.1	.007	.482	1.07	391.	9.01	62.9
#1	14.8	11.0	13500.	468.	2.63	20.7	23.7
#2	12.3	11.0	13400.	461.	-1.24	23.6	9.90

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	1.40	49.2	-39.3	183.	32.5	376.	1250.
SDev	3.72	1.6	.0	.	2.6	4.	13.
%RSD	408.	3.15	.000	.049	7.86	1.05	1.08
#1	3.44	48.1	-39.3	183.	30.7	378.	1260.
#2	-2.64	50.3	-39.3	183.	34.3	373.	1240.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	229.	1.64	1.88
SDev	1.	.06	.01
%RSD	.590	3.42	.338
#1	228.	1.60	1.87
#2	230.	1.68	1.88

Analysis Report Sun 11-27-94 02:39:02 PM page 1

Method: RGNVII Sample Name: ADF04008 Operator: TJA
Run Time: 11/27/94 14:35:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	K669.	64200.	247.	301.	4.31	36.1	28.3
SDev	2.	134.	34.	1.	.01	.8	.0
%RSD	.394	.208	13.6	.251	.128	2.29	.000
#1	K668.	64100.	271.	302.	4.32	36.7	28.3
#2	K671.	64300.	224.	301.	4.31	35.6	28.3

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	154.	120.	102000.	3840.	51.2	165.	131.
SDev	7.	.	593.	25.	1.2	6.	8.
%RSD	4.46	.003	.579	.662	2.27	3.87	5.98
#1	159.	120.	103000.	3860.	50.3	170.	136.
#2	149.	120.	102000.	3830.	52.0	161.	125.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	37.4	159.	-291.	112.	286.	539.	1040.
SDev	8.4	10.	4.	84.	17.	1.	.
%RSD	22.5	6.33	1.38	74.9	6.07	.258	.004
#1	31.4	151.	-294.	171.	298.	538.	1040.
#2	43.3	166.	-289.	52.7	273.	540.	1040.

Elem	Mg2790	Na5895	K_7664
Units	MG/L	MG/L	MG/L
Avge	S14600.	17.1	21.3
SDev	.	.2	.3
%RSD	.000	1.14	1.58
#1	S14600.	16.9	21.1
#2	S14600.	17.2	21.6

Analysis Report Sun 11-27-94 02:42:59 PM page 1

Method: RGNVII Sample Name: ADF04009 Operator: TJA
Run Time: 11/27/94 14:39:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-41.0	390000.	1280.	6930.	33.8	-4.37	300.
Sdev	7.9	440.	53.	20.	1.2	2.47	3.
%RSD	13.0	.113	4.24	.284	3.43	38.8	.918
#1	-44.4	390000.	1240.	6940.	34.7	-3.12	302.
#2	-33.4	390000.	1320.	6940.	33.0	-4.42	298.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	309.	418.	307000.	14900.	-14.7	934.	880.
Sdev	4.	1.	1087.	32.	2.3	1.	3.
%RSD	.842	.124	.214	.191	14.0	.114	.392
#1	314.	418.	308000.	14900.	-13.3	933.	884.
#2	312.	417.	306000.	14900.	-15.0	933.	877.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	La3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	110.	-144.	3350.	-289.	1190.	2010.	138.
Sdev	34.	30.	37.	72.	4.	2.	.
%RSD	32.9	20.7	1.12	24.9	.319	.113	.289
#1	84.4	-148.	3330.	-238.	1190.	2020.	138.
#2	134.	-123.	3380.	-340.	1180.	2010.	138.

Elem	Mg2790	Na5893	K 7664
Units	MG/L	MG/L	MG/L
Avge	137.	11.3	40.7
Sdev	.	.0	.4
%RSD	.293	.117	.719
#1	137.	11.3	40.4
#2	134.	11.3	41.0

Method: RGNVII Sample Name: ADF04010 Operator: TJA
Run Time: 11/27/94 14:43:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	44.9	71200.	243.	247.	4.71	49.8	28.3
SDev	10.5	250.	44.	2.	.42	1.8	9.1
%RSD	23.3	.351	17.3	.807	13.2	2.33	32.1
#1	32.3	71400.	293.	231.	5.13	71.1	34.7
#2	37.4	71000.	231.	248.	4.27	48.4	21.9

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3161	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	247.	118.	84800.	2990.	191.	270.	144.
SDev	14.	3.	807.	34.	4.	14.	-
%RSD	4.41	2.43	.930	1.19	3.29	4.07	.000
#1	239.	120.	87400.	3010.	193.	281.	144.
#2	255.	116.	84200.	2960.	188.	258.	144.

Elem	Sb2068	Se1960	Tl3447	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	27.4	138.	-245.	247.	234.	1940.	1030.
SDev	3.0	42.	13.	213.	12.	21.	2.
%RSD	13.4	45.1	5.44	79.9	5.02	1.09	.150
#1	34.1	182.	-234.	418.	242.	1950.	1030.
#2	41.2	94.1	-254.	116.	224.	1920.	1020.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	878.	16.2	23.4
SDev	5.	.0	.1
%RSD	.522	.151	.389
#1	881.	16.3	23.7
#2	874.	16.2	23.4

Method: RGNVII Sample Name: ADF04011 Operator: TJA
Run Time: 11/27/94 14:44:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-24.8	204000.	430.	3710.	17.9	-1.20	190.
SDev	10.4	1108.	6.	6.	.0	1.26	3.
%RSD	38.8	.538	.927	.174	.008	105.	1.44
#1	-19.4	207000.	426.	3710.	17.9	-.307	192.
#2	-34.1	205000.	434.	3710.	17.9	-2.09	188.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni3316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	330.	233.	283000.	3330.	33.0	482.	432.
SDev	2.	2.	300.	7.	1.3	3.	3.
%RSD	.520	.847	.283	.114	3.81	.555	.799
#1	328.	237.	282000.	3330.	34.1	484.	448.
#2	331.	237.	283000.	3341.	34.0	480.	424.

Elem	Sb2068	Se1960	Tl3449	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	78.7	-101.	2490.	-44.9	422.	1430.	344.
SDev	3.4	33.	41.	38.0	1.	3.	1.
%RSD	4.30	34.3	1.66	38.3	.090	.184	.134
#1	81.1	-76.3	2520.	-38.1	422.	1430.	344.
#2	76.3	-125.	2460.	-91.8	423.	1430.	343.

Elem	Mg2790	Na3303	K 7664
Units	MG/L	MG/L	MG/L
Avge	123.	7.23	34.3
SDev	.	.12	.8
%RSD	.281	1.60	2.33
#1	124.	7.32	34.8
#2	123.	7.20	33.7

Method: RENVII Sample Name: ADF04012 Operator: TJA
Run Time: 11/27/94 14:50:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-39.6	330000.	1040.	5940.	30.5	12.2	242.
Sdev	5.1	404.	45.	.	.6	3.1	2.
%RSD	12.8	.181	4.32	.000	2.07	25.6	.752
#1	-43.2	335000.	1010.	5940.	30.1	10.0	240.
#2	-36.1	334000.	1070.	5940.	31.0	14.5	243.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	439.	343.	420000.	21300.	-12.2	889.	875.
Sdev	3.	2.	2805.	130.	1.6	3.	8.
%RSD	.590	.404	.668	.610	12.9	.337	.993
#1	437.	347.	421000.	21200.	-13.4	886.	867.
#2	441.	343.	420000.	21400.	-11.1	891.	880.

Elem	Sb2068	Se1960	Tl3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	108.	-205.	2930.	-141.	1110.	1970.	600.
Sdev	.	46.	23.	79.	3.	17.	4.
%RSD	.007	22.4	.849	55.9	.252	.865	.748
#1	108.	-173.	2910.	-85.0	1110.	1940.	596.
#2	108.	-238.	2940.	-196.	1110.	1980.	603.

Elem	Mg2790	Na5893	K 7664
Units	MG/L	MG/L	MG/L
Avge	242.	7.14	34.9
Sdev	1.	.15	.7
%RSD	.207	2.10	1.36
#1	241.	7.24	35.4
#2	242.	7.03	34.4

Method: REGNVII Sample Name: ADF04013 :10 Operator: TJA
Run Time: 11/27/94 17:08:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	.136	44500.	177.	800.	4.33	-3.97	22.8
SDev	2.88	130.	6.	4.	.69	.08	.0
%RSD	2110.	.292	3.33	.482	15.8	2.01	.000
#1	2.17	44400.	173.	803.	4.81	-4.02	22.8
#2	-1.90	44400.	182.	797.	3.84	-3.91	22.8

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	56.1	56.6	49000.	1100.	-5.47	64.8	85.1
SDev	.0	.9	202.	7.	2.77	.0	.0
%RSD	.003	1.52	.412	.609	32.7	.072	.000
#1	56.1	57.2	49100.	1110.	-6.52	64.8	85.1
#2	56.1	56.0	48800.	1100.	-10.4	64.7	85.1

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	5.33	-38.8	302.	49.1	119.	243.	89.7
SDev	7.63	14.1	7.	14.2	3.	3.	.7
%RSD	138.	36.2	2.21	28.9	4.29	1.05	.787
#1	.151	-28.9	307.	59.2	123.	247.	90.2
#2	10.9	-48.8	297.	39.1	116.	244.	89.2

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	35.2	.813	7.35
SDev	.1	.004	.06
%RSD	.267	.440	.837
#1	35.2	.812	7.40
#2	35.1	.817	7.31

Method: RGNVII Sample Name: ADF04013 Operator: TJA
Run Time: 11/27/94 14:34:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-53.5	45600.	1130.	7240.	34.3	4.54	210.
Sdev	2.3	4442.	11.	47.	.0	1.22	7.
%RSD	4.28	1.02	1.01	.653	.118	18.7	3.47
#1	-55.1	45300.	1140.	7220.	34.3	7.40	204.
#2	-51.9	45900.	1120.	7290.	34.4	5.67	215.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	523.	587.	39800.	9770.	-25.0	597.	853.
Sdev	4.	8.	151.	3.	5.0	.	3.
%RSD	.821	1.31	.038	.049	19.9	.040	.305
#1	520.	581.	39800.	9770.	-21.5	597.	855.
#2	527.	592.	39700.	9760.	-28.5	598.	851.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	88.5	-121.	2780.	-229.	1040.	1850.	54040.
Sdev	15.2	12.	1.	53.	10.	9.	4456.
%RSD	17.2	9.57	.048	23.2	.965	.478	110.
#1	77.8	-129.	2780.	-192.	1040.	1840.	891.
#2	99.3	-113.	2780.	-267.	1050.	1850.	57190.

Elem	Mg2790	Na5893	K_7664
Units	MG/L	MG/L	MG/L
Avge	325.	8.27	75.8
Sdev	2.	.22	1.8
%RSD	.536	2.66	2.31
#1	324.	8.12	74.5
#2	326.	8.43	77.0

Method: RGNVII Sample Name: ADF04014 Operator: TJA
Run Time: 11/27/94 14:58:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-41.6	293000.	886.	4880.	23.7	-.024	227.
Sdev	.3	404.	93.	10.	.0	.100	1.
%RSD	.702	.206	10.7	.210	.161	413.	.401
#1	-41.8	294000.	953.	4890.	23.7	-.094	228.
#2	-41.4	293000.	819.	4870.	23.7	.046	226.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	443.	356.	359000.	5310.	-10.3	596.	1060.
Sdev	3.	.	3067.	60.	5.3	10.	16.
%RSD	.782	.003	.854	1.12	50.7	1.73	1.47
#1	446.	356.	362000.	5350.	-6.73	604.	1080.
#2	441.	356.	357000.	5270.	-14.3	589.	1050.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	104.	-82.8	3390.	-93.2	905.	3780.	169.
Sdev	3.	9.1	29.	14.8	10.	36.	3.
%RSD	4.73	11.0	.868	15.9	1.03	.948	1.73
#1	110.	-76.3	3410.	-104.	912.	3810.	171.
#2	103.	-89.2	3370.	-82.7	898.	3760.	167.

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	114.	12.4	52.4
Sdev	.	.1	.0
%RSD	.226	.889	.090
#1	114.	12.3	52.4
#2	114.	12.5	52.5

Method: RGNVII Sample Name: ADF04015 Operator: TJA
Run Time: 11/27/94 15:02:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-27.1	159000.	564.	3280.	16.6	-11.5	190.
SDev	2.9	2200.	43.	18.	.0	1.6	1.
%RSD	10.6	1.39	10.8	.555	.213	14.3	.479
#1	-23.0	157000.	540.	3270.	16.6	-10.3	189.
#2	-29.1	160000.	629.	3290.	16.6	-12.7	190.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	264.	152.	282000.	3650.	-3.22	331.	436.
SDev	.	2.	1394.	26.	1.06	2.	13.
%RSD	.002	1.02	.494	.460	20.4	.412	2.98
#1	264.	151.	281000.	3630.	-4.47	330.	446.
#2	264.	153.	283000.	3670.	-3.97	333.	427.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	40.6	-154.	2690.	-19.0	600.	1040.	56.7
SDev	11.8	32.	13.	9.0	4.	3.	.3
%RSD	29.1	20.8	.497	47.1	.653	.437	.579
#1	32.3	-132.	2680.	-23.3	597.	1040.	56.3
#2	49.0	-177.	2700.	-12.7	602.	1040.	57.0

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	61.6	5.33	26.3
SDev	.6	.29	.6
%RSD	.987	5.34	2.16
#1	61.1	5.12	25.9
#2	62.0	5.53	26.7

Method: RGNVII Sample Name: ADF0401A Operator: TJA
Run Time: 11/27/94 15:06:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2288
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-37.8	204000.	797.	3320.	20.1	-12.6	231.
SDev	2.8	2253.	41.	43.	.0	.6	2.
%RSD	7.45	1.11	5.14	1.30	.143	4.93	.786
#1	-35.8	202000.	826.	3290.	20.1	-13.0	233.
#2	-39.7	205000.	768.	3350.	20.1	-12.2	230.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	314.	243.	327000.	3370.	-3.13	447.	342.
SDev	5.	3.	803.	6.	3.61	4.	3.
%RSD	1.44	1.39	.245	.187	115.	.598	.444
#1	317.	242.	327000.	3380.	-.575	444.	340.
#2	310.	243.	328000.	3370.	-5.68	450.	344.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	71.9	-92.1	2720.	-39.9	711.	1300.	42.2
SDev	10.1	24.7	3.	67.7	4.	9.	.9
%RSD	14.1	26.8	.197	169.	.551	.670	1.45
#1	64.8	-110.	2720.	7.91	714.	1310.	42.8
#2	79.1	-74.6	2710.	-87.8	708.	1290.	41.5

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	70.1	10.5	28.7
SDev	1.0	.4	.8
%RSD	1.39	3.83	2.90
#1	69.4	10.2	28.2
#2	70.8	10.8	29.3

Method: RGNVII Sample Name: ADF04017 Operator: TJA
Run Time: 11/27/94 15:10:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-43.5	301000.	1120.	4310.	28.9	-8.31	285.
Sdev	.1	814.	99.	3.	.0	1.89	2.
%RSD	.224	.271	8.81	.079	.043	22.7	.837
#1	-43.6	301000.	1050.	4310.	28.9	-6.98	287.
#2	-43.4	300000.	1190.	4310.	28.9	-9.64	284.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	422.	394.	421000.	9860.	.595	939.	783.
Sdev	3.	1.	376.	16.	2.52	9.	3.
%RSD	.813	.194	.089	.163	423.	.978	.338
#1	424.	393.	421000.	9870.	2.33	946.	785.
#2	421.	394.	420000.	9850.	-1.19	933.	781.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	112.	-74.7	3040.	-93.6	976.	1710.	72.7
Sdev	7.	.0	11.	98.4	7.	9.	.9
%RSD	6.05	.066	.350	103.	.688	.510	1.21
#1	117.	-74.7	3050.	-26.0	981.	1710.	73.4
#2	107.	-74.8	3070.	-161.	971.	1700.	72.1

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	83.6	23.9	41.4
Sdev	.2	.4	.3
%RSD	.212	1.67	.839
#1	83.7	24.2	41.6
#2	83.5	23.6	41.2

Method: RBNVII Sample Name: 00F04018 Operator: TJA
Run Time: 11/27/94 15:14:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1934	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-44.2	359000.	1100.	5530.	30.6	-1.45	214.
Sdev	.2	1914.	32.	7.	.0	4.37	1.
%RSD	.502	.533	2.88	.123	.092	278.	.425
#1	-44.4	360000.	1120.	5530.	30.6	-4.88	213.
#2	-44.1	358000.	1070.	5530.	30.6	1.39	215.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	370.	447.	38800.	1160.	-13.3	636.	955.
Sdev	6.	2.	994.	32.	3.8	.	8.
%RSD	1.05	.519	.270	.272	24.7	.049	.814
#1	365.	448.	38900.	1160.	-18.8	637.	954.
#2	374.	445.	38800.	1130.	-18.2	636.	955.

Elem	Sb2068	Se1960	Tl3649	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	49.3	-143.	2770.	-112.	975.	1960.	121.
Sdev	11.8	72.	4.	37.	2.	.	.
%RSD	17.0	50.7	.145	33.7	.229	.010	.400
#1	41.2	-91.7	2770.	-128.	977.	1960.	121.
#2	77.9	-194.	2770.	-76.6	973.	1960.	120.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	96.3	4.73	67.4
Sdev	.6	.13	.6
%RSD	.371	2.80	.911
#1	96.6	4.87	67.8
#2	96.1	4.68	66.9

Method: REGNVII Sample Name: ADF04019 :10 Operator: TJA
Run Time: 11/27/94 17:12:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Be1348	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	2.90	70000.	282.	479.	4.37	-8.20	49.3
SDev	2.93	8.	.	1.	.00	1.00	3.2
%RSD	101.	.011	.022	.189	.042	12.2	6.53
#1	4.97	70000.	282.	480.	4.37	-8.91	47.2
#2	.824	70000.	282.	478.	4.37	-7.50	51.8

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	75.7	86.6	81500.	2750.	-7.35	116.	143.
SDev	.9	1.7	367.	11.	4.16	2.	6.
%RSD	1.17	1.98	.451	.396	56.6	1.69	3.87
#1	76.3	87.8	81200.	2740.	-10.3	117.	149.
#2	75.0	85.4	81800.	2760.	-4.41	114.	141.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	7.69	-20.2	61.3	-3.95	160.	359.	19.6
SDev	.93	23.0	4.4	28.79	1.	1.	.0
%RSD	12.3	124.	7.25	728.	.799	.348	.222
#1	7.02	-37.9	58.2	-24.3	161.	358.	19.6
#2	8.36	-2.53	64.5	16.4	159.	360.	19.6

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	18.7	.463	7.03
SDev	.0	.014	.06
%RSD	.127	3.10	.867
#1	18.6	.453	7.07
#2	18.7	.473	6.99

Method: RGNVII Sample Name: ADF04019 Operator: TJA
Run Time: 11/27/94 15:18:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-83.1	474000.	1950.	4020.	50.3	2.34	424.
SDev	4.0	7424.	34.	44.	.8	3.98	8.
%RSD	4.83	1.1	2.87	1.07	1.32	169.	1.92
#1	-85.9	449000.	1910.	3970.	49.7	-.453	420.
#2	-80.2	480000.	1990.	4070.	50.8	5.17	432.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	461.	844.	408000.	23000.	-37.4	974.	1270.
SDev	10.	13.	7537.	312.	13.3	14.	44.
%RSD	1.54	1.52	1.79	1.34	35.4	1.41	3.50
#1	453.	857.	402000.	22800.	-46.8	965.	1230.
#2	448.	874.	413000.	23200.	-28.0	984.	1300.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V 2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	153.	-303.	491.	-499.	1340.	2420.	178.
SDev	13.	43.	13.	62.	16.	39.	2.
%RSD	9.97	14.2	2.72	12.3	1.21	1.48	1.30
#1	142.	-333.	482.	-542.	1320.	2390.	176.
#2	163.	-272.	500.	-455.	1350.	2450.	179.

Elem	Mg2790	Na5895	K 7664
Units	MG/L	MG/L	MG/L
Avge	163.	4.32	67.7
SDev	2.	.07	.8
%RSD	1.08	1.51	1.21
#1	162.	4.47	67.1
#2	164.	4.57	68.3

Method: RGNVII Sample Name: ADF04007 Operator: TJA
Run Time: 11/27/94 14:31:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1938	Ba4934	Be3130	Cd2265	Co2286
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	-47.7	303000.	947.	4510.	28.5	-5.18	258.
SDev	8.0	2283.	30.	31.	.6	2.81	2.
%RSD	16.7	.753	3.10	.478	2.22	54.3	.704
#1	-42.1	302000.	946.	4490.	28.0	-7.17	260.
#2	-53.4	305000.	989.	4530.	28.9	-3.19	257.

Elem	Cr2677	Cu3247	Fe2599	Mn2576	Mo2020	Ni2316	Pb2203
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Avge	395.	495.	417000.	11100.	22.0	711.	753.
SDev	4.	7.	423.	17.	6.2	7.	3.
%RSD	1.09	1.40	.104	.152	28.3	.923	.346
#1	392.	490.	417000.	11100.	17.6	706.	755.
#2	398.	500.	417000.	11100.	26.4	715.	751.

Elem	Sb2068	Se1960	Ti3349	Tl3775	V_2924	Zn2138	Ca3179
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L
Avge	37.1	-49.1	3010.	-243.	931.	1750.	339.
SDev	9.3	20.3	3.	2.	6.	2.	.
%RSD	16.3	29.4	.173	.824	.601	.133	.043
#1	30.6	-33.4	3020.	-244.	927.	1750.	339.
#2	43.7	-54.7	3010.	-244.	933.	1750.	339.

Elem	Mg2790	Na3893	K_7664
Units	MG/L	MG/L	MG/L
Avge	193.	10.4	48.5
SDev	1.	.3	1.0
%RSD	.531	2.49	1.99
#1	192.	10.2	47.8
#2	193.	10.5	49.2

ADF01 water

TOTAL AS BY AA

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION: None

```
-----------------------------------------------------------------------------
.ement File: ASMKL.GEL        Element: As                    Wavelength: 193.7
ıte: 11/22/94                 Time: 14:52                    Slit: 0.70 L
ıta File: ADF02AS.DAT         ID/Wt File: ADF02AS.IDW        Lamp Current: 0
:chnique: HGA                 Calib. Type: Linear            Energy: 62
-----------------------------------------------------------------------------
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
:    ID: 0.5% HN03            Seq. No.: 00001    A/S Pos.: 0     Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 0
:plicate  1                              Time: 14:55
:ak Area (A-s): 0.003                    Peak Height (A): 0.009
:ckground Pk Area (A-s): 0.028           Background Pk Height (A): 0.034
 ank Corrected Pk Area (A-s): 0.003

ıto-zero performed.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    ID: STD 5.0               Seq. No.: 00002    A/S Pos.: 1     Date: 11/22/94

. dispensed: 10 from 40, 20 from 1
:plicate  1                              Time: 14:58
:ak Area (A-s): 0.015                    Peak Height (A): 0.026
ıckground Pk Area (A-s): 0.023           Background Pk Height (A): 0.025
 ank Corrected Pk Area (A-s): 0.012

:andard number 1 applied.  [5.0]
ırrelation coefficient: 1.00000          Slope: 0.0024

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.    ID: STD 10.0              Seq. No.: 00003    A/S Pos.: 2     Date: 11/22/94

. dispensed: 10 from 40, 20 from 2
·plicate  1                              Time: 15:02
:ak Area (A-s): 0.026                    Peak Height (A): 0.088
ıckground Pk Area (A-s): 0.021           Background Pk Height (A): 0.033
 ank Corrected Pk Area (A-s): 0.023
ıncentration (ug/L  ): 9.3

:andard number 2 applied.  [10.0]
ırrelation coefficient: 0.99578          Slope: 0.0023

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
;    ID: STD 20.0              Seq. No.: 00004    A/S Pos.: 3     Date: 11/22/94

. dispensed: 10 from 40, 20 from 3
:plicate  1                              Time: 15:06
:ak Area (A-s): 0.045                    Peak Height (A): 0.182
ıckground Pk Area (A-s): 0.024           Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.042
ıncentration (ug/L  ): 18.3

:andard number 3 applied.  [20.0]
ırrelation coefficient: 0.99629          Slope: 0.0022

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
;    ID: STD 50.0              Seq. No.: 00005    A/S Pos.: 4     Date: 11/22/94
```

_ dispensed: 10 from 40, 20 from

eplicate 1 | Time: 15:09
eak Area (A-s): 0.117 | Peak Height (A): 0.221
ackground Pk Area (A-s): 0.029 | Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.114
oncentration (ug/L): 52.9

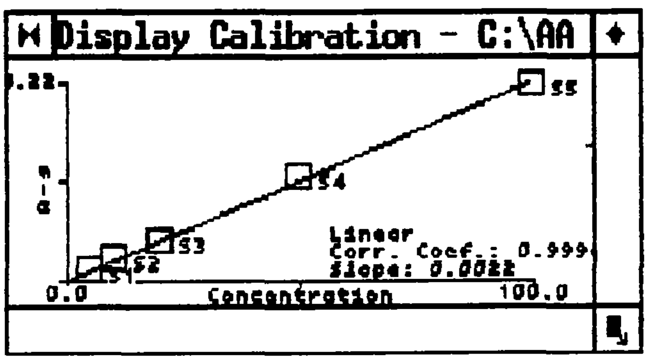
tandard number 4 applied. [50.0]
orrelation coefficient: 0.99912 | Slope: 0.0023

~~~~~~

s ID: STD 100.0 Seq. No.: 00006 A/S Pos.: 5 Date: 11/22/94

_ dispensed: 10 from 40, 20 from 5
eplicate 1 | Time: 15:13
eak Area (A-s): 0.222 | Peak Height (A): 0.617
ackground Pk Area (A-s): 0.034 | Background Pk Height (A): 0.051
lank Corrected Pk Area (A-s): 0.219
oncentration (ug/L): 96.9

tandard number 5 applied. [100.0]
orrelation coefficient: 0.99963 | Slope: 0.0022


~~~~~~

ıtosampler Loading Map
Element File: ASMKL.GEL ID/Weight File: ADF02AS.IDW

Loc.	Concentration	Solutions
0		Calib. Blank / Diluent / BLANK
1		WP27#2
2		WS31#1
3		ADF02953M
4		ADF02954G
5		ADF02005
6		ADF02005S
7		ADF02005W
8		NN101032F
9		NN101001
10		NN101002
11		NN101003
12		NN101004
13		NN101005
14		NN101021
15		NN101022
16		NN101022S
17		NN101022W
18		NN101023
19		NN101024
20		NN101025
21		NN101026
22		NN101026D
23		NN101027
24		NN101028
25		NN101029
26		NN101029S
27		NN101029W
28		NN101030
29		NN101030D
30		ADF04950M
31		ADF04025F
32		ADF04950G
33		ADF04022
34		ADF04023
35		ADF04024
36		ADF04026
37		ADF04026S
38		ADF04026W
39	100.0 ug/L	Stock
40		Modifier 1

~~~~~~

; ID: BLANK Seq. No.: 00007 A/S Pos.: 0 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 0
:plicate 1 Time: 15:31
:ak Area (A-s): 0.005 Peak Height (A): 0.011
ickground Pk Area (A-s): 0.026 Background Pk Height (A): 0.031
.ank Corrected Pk Area (A-s): 0.002
ncentration (ug/L): 1.1

. dispensed: 5 from 0, 10 from 40, 20 from 0
:plicate 2 Time: 15:34
:ak Area (A-s): 0.006 Peak Height (A): 0.007
ickground Pk Area (A-s): 0.025 Background Pk Height (A): 0.031
.ank Corrected Pk Area (A-s): 0.003
ncentration (ug/L): 1.3

:an Conc (ug/L): 1.2 SD: 0.13 RSD(%): 11.02

: sample is within range -5 - 5

~~~~~~

; ID: WP27#2 Seq. No.: 00008 A/S Pos.: 1 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 1
:plicate 1 Time: 15:38
:ak Area (A-s): 0.026 Peak Height (A): 0.061
ickground Pk Area (A-s): 0.029 Background Pk Height (A): 0.032
.ank Corrected Pk Area (A-s): 0.024
ncentration (ug/L): 10.6

. dispensed: 5 from 0, 10 from 40, 20 from 1
:plicate 2 Time: 15:41
:ak Area (A-s): 0.030 Peak Height (A): 0.060
ickground Pk Area (A-s): 0.037 Background Pk Height (A): 0.038
.ank Corrected Pk Area (A-s): 0.027
ncentration (ug/L): 12.1

:an Conc (ug/L): 11.4 SD: 1.07 RSD(%): 9.37

: sample is within range 7.39 - 12.3

~~~~~~

; ID: WS31#1 Seq. No.: 00009 A/S Pos.: 2 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 1 Time: 15:45
eak Area (A-s): 0.143 Peak Height (A): 0.500
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.045
lank Corrected Pk Area (A-s): 0.140
oncentration (ug/L): 63.4

. dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 2 Time: 15:49
eak Area (A-s): 0.157 Peak Height (A): 0.430
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.154
oncentration (ug/L): 69.6
~~~~~~

ean Conc (ug/L): 66.5 SD: 4.38 RSD(%): 6.58

 sample is within range 52.6 - 87.8

~~~~~~

ID: ADF02953M Seq. No.: 00010 A/S Pos.: 3 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 3
eplicate 1 Time: 15:52
eak Area (A-s): 0.004 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.027 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.6

. dispensed: 5 from 0, 10 from 40, 20 from 3
eplicate 2 Time: 15:56
eak Area (A-s): 0.005 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.8

ean Conc (ug/L): 0.7 SD: 0.10 RSD(%): 13.82

~~~~~~

s ID: ADF02954G Seq. No.: 00011 A/S Pos.: 4 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 4
eplicate 1 Time: 16:00
eak Area (A-s): 0.108 Peak Height (A): 0.327
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.105
oncentration (ug/L): 47.6

. dispensed: 5 from 0, 10 from 40, 20 from 4
eplicate 2 Time: 16:03
eak Area (A-s): 0.111 Peak Height (A): 0.332
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.108
oncentration (ug/L): 49.1

ean Conc (ug/L): 48.3 SD: 1.05 RSD(%): 2.18

~~~~~~

s ID: ADF02005 Seq. No.: 00012 A/S Pos.: 5 Date: 11/22/94

. dispensed: 5 from 0, 10 from 40, 20 from 5
eplicate 1 Time: 16:07
eak Area (A-s): 0.004 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.7

. dispensed: 5 from 0, 10 from 40, 20 from 5
eplicate 2 Time: 16:11
eak Area (A-s): 0.002 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.041 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.3
~~~~~~

~~~~~~

s ID: BLANK Seq. No.: 00025 A/S Pos.: 0 Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 1 Time: 17:42
eak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.023 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.0

_ dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 2 Time: 17:46
eak Area (A-s): 0.005 Peak Height (A): 0.011
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.9

ean Conc (ug/L): 0.4 SD: 0.58 RSD(%): 131.29

C sample is within range -5 - 5

~~~~~~

s ID: WP27#2 Seq. No.: 00026 A/S Pos.: 1 Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 1 Time: 17:49
eak Area (A-s): 0.030 Peak Height (A): 0.050
ackground Pk Area (A-s): 0.024 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 12.4

_ dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 2 Time: 17:53
eak Area (A-s): 0.021 Peak Height (A): 0.049
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.018
oncentration (ug/L): 8.4

ean Conc (ug/L): 10.4 SD: 2.87 RSD(%): 27.59

C sample is within range 7.39 - 12.3

~~~~~~

s ID: WS31#1 Seq. No.: 00027 A/S Pos.: 2 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 1 Time: 17:57
eak Area (A-s): 0.154 Peak Height (A): 0.363
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.042
lank Corrected Pk Area (A-s): 0.152
oncentration (ug/L): 68.6

L dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 2 Time: 18:01
eak Area (A-s): 0.148 Peak Height (A): 0.436
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.044
lank Corrected Pk Area (A-s): 0.145
oncentration (ug/L): 65.5
~~~~~~

ean Conc (ug/L): 67.0 SD: 2.13 RSD(%): 3.18

C sample is within range 52.6 - 87.8

~~~~~~

s ID: NN101023 Seq. No.: 00028 A/S Pos.: 18 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 18
eplicate 1 Time: 18:04
eak Area (A-s): -0.000 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.086 Background Pk Height (A): 0.053
lank Corrected Pk Area (A-s): -0.003
oncentration (ug/L): -1.3

L dispensed: 5 from 0, 10 from 40, 20 from 18
eplicate 2 Time: 18:08
eak Area (A-s): 0.001 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.090 Background Pk Height (A): 0.051
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -0.9

ean Conc (ug/L): -1.1 SD: 0.27 RSD(%): 24.05

~~~~~~

s ID: NN101024 Seq. No.: 00029 A/S Pos.: 19 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 19
eplicate 1 Time: 18:11
eak Area (A-s): 0.004 Peak Height (A): 0.011
ackground Pk Area (A-s): 0.100 Background Pk Height (A): 0.049
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.4

L dispensed: 5 from 0, 10 from 40, 20 from 19
eplicate 2 Time: 18:15
eak Area (A-s): 0.003 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.105 Background Pk Height (A): 0.053
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.1

ean Conc (ug/L): 0.3 SD: 0.24 RSD(%): 93.73

~~~~~~

s ID: NN101025 Seq. No.: 00030 A/S Pos.: 20 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 20
eplicate 1 Time: 18:19
eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.037 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): -0.003
oncentration (ug/L): -1.3

L dispensed: 5 from 0, 10 from 40, 20 from 20
eplicate 2 Time: 18:22
eak Area (A-s): 0.002 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.036 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6
~~~~~~

~~~~~~

s   ID: ADF04950M   Seq. No.: 00040   A/S Pos.: 30   Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 30
eplicate 1   Time: 19:32
eak Area (A-s): -0.003   Peak Height (A): 0.007
ackground Pk Area (A-s): 0.037   Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.7

_ dispensed: 5 from 0, 10 from 40, 20 from 30
eplicate 2   Time: 19:36
eak Area (A-s): -0.003   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.044   Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.6

ean Conc (ug/L):   -2.7   SD: 0.09   RSD(%): 3.51

~~~~~~

s   ID: ADF04025F   Seq. No.: 00041   A/S Pos.: 31   Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 31
eplicate 1   Time: 19:40
eak Area (A-s): -0.002   Peak Height (A): 0.006
ackground Pk Area (A-s): 0.031   Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): -0.005
oncentration (ug/L): -2.3

_ dispensed: 5 from 0, 10 from 40, 20 from 31
eplicate 2   Time: 19:43
eak Area (A-s): -0.002   Peak Height (A): 0.005
ackground Pk Area (A-s): 0.033   Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): -0.005
oncentration (ug/L): -2.4

ean Conc (ug/L):   -2.3   SD: 0.06   RSD(%): 2.69

~~~~~~

s   ID: ADF04950G   Seq. No.: 00042   A/S Pos.: 32   Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 32
eplicate 1   Time: 19:47
eak Area (A-s): 0.107   Peak Height (A): 0.371
ackground Pk Area (A-s): 0.035   Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.104
oncentration (ug/L): 47.0

L dispensed: 5 from 0, 10 from 40, 20 from 32
eplicate 2   Time: 19:50
eak Area (A-s): 0.108   Peak Height (A): 0.361
ackground Pk Area (A-s): 0.041   Background Pk Height (A): 0.042
lank Corrected Pk Area (A-s): 0.105
oncentration (ug/L): 47.7

ean Conc (ug/L):   47.3   SD: 0.47   RSD(%): 1.00
~~~~~~

~~~~~~

s ID: BLANK Seq. No.: 00043 A/S Pos.: 0 Date: 11/22/94

- dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 1 Time: 19:54
eak Area (A-s): -0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.027 Background Pk Height (A): 0.024
lank Corrected Pk Area (A-s): -0.003
oncentration (ug/L): -1.3

- dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 2 Time: 19:57
eak Area (A-s): -0.004 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.029 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): -0.007
oncentration (ug/L): -3.0

ean Conc (ug/L): -2.2 SD: 1.16 RSD(%): 53.42

 sample is within range -5 - 5

~~~~~~

s ID: WP27#2 Seq. No.: 00044 A/S Pos.: 1 Date: 11/22/94

- dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 1 Time: 20:01
eak Area (A-s): 0.021 Peak Height (A): 0.039
ackground Pk Area (A-s): 0.030 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.018
oncentration (ug/L): 8.1

- dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 2 Time: 20:05
eak Area (A-s): 0.019 Peak Height (A): 0.048
ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.016
oncentration (ug/L): 7.3

ean Conc (ug/L): 7.7 SD: 0.55 RSD(%): 7.11

 sample is within range 7.39 - 12.3

~~~~~~

s ID: WS31#1 Seq. No.: 00045 A/S Pos.: 2 Date: 11/22/94

- dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 1 Time: 20:08
eak Area (A-s): 0.146 Peak Height (A): 0.225
ackground Pk Area (A-s): 0.037 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.143
oncentration (ug/L): 64.6

L dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 2 Time: 20:12
eak Area (A-s): 0.138 Peak Height (A): 0.296
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.135
oncentration (ug/L): 61.1
~~~~~~

ean Conc (ug/L): 62.9 SD: 2.53 RSD(%): 4.02

C sample is within range 52.6 - 87.8

~~~~~~

s ID: ADF04022 Seq. No.: 00046 A/S Pos.: 33 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 33
eplicate 1 Time: 20:16
eak Area (A-s): -0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): -0.004
oncentration (ug/L): -1.9

L dispensed: 5 from 0, 10 from 40, 20 from 33
eplicate 2 Time: 20:19
eak Area (A-s): -0.003 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.6

ean Conc (ug/L): -2.2 SD: 0.56 RSD(%): 24.93

~~~~~~

s ID: ADF04023 Seq. No.: 00047 A/S Pos.: 34 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 34
eplicate 1 Time: 20:23
eak Area (A-s): -0.003 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.059 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.9

L dispensed: 5 from 0, 10 from 40, 20 from 34
eplicate 2 Time: 20:26
eak Area (A-s): 0.002 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.055 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

ean Conc (ug/L): -1.8 SD: 1.59 RSD(%): 90.88

~~~~~~

s ID: ADF04024 Seq. No.: 00048 A/S Pos.: 35 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 35
eplicate 1 Time: 20:30
eak Area (A-s): -0.005 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): -0.008
oncentration (ug/L): -3.5

L dispensed: 5 from 0, 10 from 40, 20 from 35
eplicate 2 Time: 20:34
eak Area (A-s): -0.003 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.6
~~~~~~

ean Conc (ug/L): -3.1 SD: 0.67 RSD(%): 22.08

~~~~~~

s ID: ADF04026 Seq. No.: 00049 A/S Pos.: 36 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 36
eplicate 1 Time: 20:37
eak Area (A-s): -0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.042 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): -0.006
oncentration (ug/L): -2.7

L dispensed: 5 from 0, 10 from 40, 20 from 36
eplicate 2 Time: 20:41
eak Area (A-s): -0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.041 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): -0.003
oncentration (ug/L): -1.4

ean Conc (ug/L): -2.0 SD: 0.96 RSD(%): 46.65

~~~~~~

s ID: ADF04026S Seq. No.: 00050 A/S Pos.: 37 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 37
eplicate 1 Time: 20:45
eak Area (A-s): 0.085 Peak Height (A): 0.267
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.082
oncentration (ug/L): 36.9

L dispensed: 5 from 0, 10 from 40, 20 from 37
eplicate 2 Time: 20:48
eak Area (A-s): 0.084 Peak Height (A): 0.245
ackground Pk Area (A-s): 0.055 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.081
oncentration (ug/L): 36.7

ean Conc (ug/L): 36.8 SD: 0.19 RSD(%): 0.52

~~~~~~

s ID: ADF04026W Seq. No.: 00051 A/S Pos.: 38 Date: 11/22/94

L dispensed: 5 from 0, 10 from 40, 20 from 38
eplicate 1 Time: 20:52
eak Area (A-s): 0.095 Peak Height (A): 0.260
ackground Pk Area (A-s): 0.049 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.092
oncentration (ug/L): 41.5

L dispensed: 5 from 0, 10 from 40, 20 from 38
eplicate 2 Time: 20:56
eak Area (A-s): 0.089 Peak Height (A): 0.268
ackground Pk Area (A-s): 0.059 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.086
oncentration (ug/L): 38.7

ean Conc (ug/L): 40.1 SD: 1.93 RSD(%): 4.82
~~~~~~

~~~~~~

s ID: BLANK Seq. No.: 00052 A/S Pos.: 0 Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 1 Time: 20:59
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.036 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): -0.005
oncentration (ug/L): -2.3

_ dispensed: 5 from 0, 10 from 40, 20 from 0
eplicate 2 Time: 21:03
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): -0.004
oncentration (ug/L): -2.0

ean Conc (ug/L): -2.1 SD: 0.23 RSD(%): 10.87

C sample is within range -5 - 5

~~~~~~

s ID: WP27#2 Seq. No.: 00053 A/S Pos.: 1 Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 1 Time: 21:06
eak Area (A-s): 0.017 Peak Height (A): 0.033
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.014
oncentration (ug/L): 6.5

_ dispensed: 5 from 0, 10 from 40, 20 from 1
eplicate 2 Time: 21:10
eak Area (A-s): 0.017 Peak Height (A): 0.037
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.014
oncentration (ug/L): 6.5

ean Conc (ug/L): 6.5 SD: 0.03 RSD(%): 0.41

C sample is out of range 7.39 - 12.3

~~~~~~

s ID: WS31#1 Seq. No.: 00054 A/S Pos.: 2 Date: 11/22/94

_ dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 1 Time: 21:14
eak Area (A-s): 0.129 Peak Height (A): 0.226
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.126
oncentration (ug/L): 56.9

L dispensed: 5 from 0, 10 from 40, 20 from 2
eplicate 2 Time: 21:17
eak Area (A-s): 0.126 Peak Height (A): 0.331
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.123
oncentration (ug/L): 55.8
~~~~~~

ean Conc (ug/L): 56.4 SD: 0.82 RSD(%): 1.45

: sample is within range 52.6 - 87.8

Waters ADF04

TOTAL Pb BY AA

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION: MM

lement File: PBMKL.GEL	Element: Pb	Wavelength: 283.3
ate: 11/30/94	Time: 16:23	Slit: 0.7 L
ata File: ADF02PB.DAT	ID/Wt File: ADF02TL.IDW	Lamp Current: 0
echnique: HGA	Calib. Type: Linear	Energy: 75

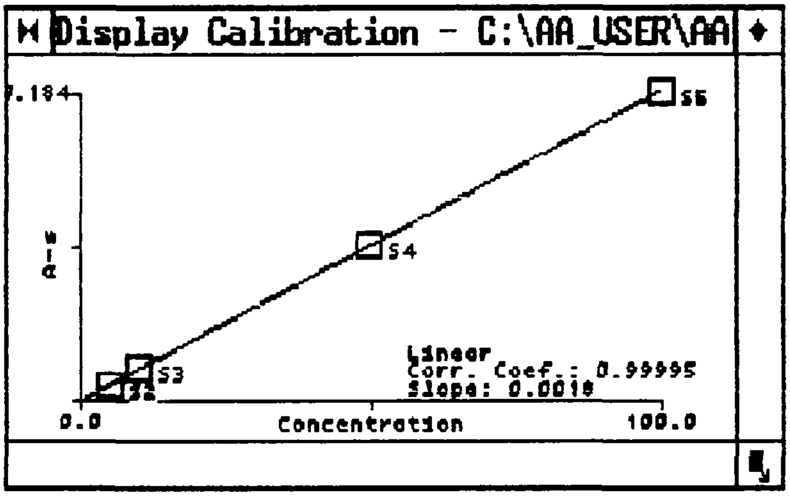
~~~~~~

b ID: 0.5% HN03	Seq. No.: 00001	A/S Pos.: 0	Date: 11/30/94
~~~~~~

```
eplicate  1                                Time: 16:23
eak Area (A-s): 0.005                      Peak Height (A): 0.012
ackgroun Pk Area (A-s): -0.001             Background Pk Height (A): 0.008
lank Corrected Pk Area (A-s): 0.004
oncentration (ug/L  ): 2.8

uto-zero performed.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
o    ID: STD. 1.0            Seq. No.: 00002    A/S Pos.: 1     Date: 11/30/94

eplicate  1                                Time: 16:25
eak Area (A-s): 0.005                      Peak Height (A): 0.011
ackground Pk Area (A-s): 0.002             Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L  ): -0.1

tandard abs. & conc. values are not in the same order.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
o    ID: STD. 5.0            Seq. No.: 00003    A/S Pos.: 2     Date: 11/30/94

eplicate  1                                Time: 16:28
eak Area (A-s): 0.014                      Peak Height (A): 0.040
ackground Pk Area (A-s): 0.005             Background Pk Height (A): 0.009
lank Corrected Pk Area (A-s): 0.009

tandard number 2 applied.  [5.0]
orrelation coefficient: 1.00000            Slope: 0.0018

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
o    ID: STD. 10.0           Seq. No.: 00004    A/S Pos.: 3     Date: 11/30/94

eplicate  1                                Time: 16:31
eak Area (A-s): 0.023                      Peak Height (A): 0.049
ackground Pk Area (A-s): 0.004             Background Pk Height (A): 0.012
lank Corrected Pk Area (A-s): 0.019
oncentration (ug/L  ): 10.7

tandard number 3 applied.  [10.0]
orrelation coefficient: 0.99660            Slope: 0.0018

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
o    ID: STD. 50.0           Seq. No.: 00005    A/S Pos.: 4     Date: 11/30/94

eplicate  1                                Time: 16:34
eak Area (A-s): 0.098                      Peak Height (A): 0.330
ackground Pk Area (A-s): 0.027             Background Pk Height (A): 0.071
lank Corrected Pk Area (A-s): 0.093
oncentration (ug/L  ): 50.4

tandard number 4 applied.  [50.0]
orrelation coefficient: 0.99996            Slope: 0.0019

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
o    ID: STD. 100.0          Seq. No.: 00006    A/S Pos.: 5     Date: 11/30/94

eplicate  1                                Time: 16:37
eak Area (A-s): 0.188                      Peak Height (A): 0.590
```

ackground Pk Area (A-s): 0.048 Background Pk Height (A): 0.129
lank Corrected Pk Area (A-s): 0.184
oncentration (ug/L): 98.4

tandard number 5 applied. [100.0]
orrelation coefficient: 0.99995 Slope: 0.0018



~~~~~~

ɔ ID: Reagent Blank Seq. No.: 00007 A/S Pos.: 0 Date: 11/30/94

eplicate 1 Time: 16:43
eak Area (A-s): 0.004 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.005 Background Pk Height (A): 0.006
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.3

uto-zero performed.

~~~~~~

ɔ ID: ADF02953M Seq. No.: 00008 A/S Pos.: 3 Date: 11/30/94

eplicate 1 Time: 16:46
eak Area (A-s): 0.004 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

eplicate 2 Time: 16:49
eak Area (A-s): 0.005 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.016 Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.5

ean Conc (ug/L): 0.2 SD: 0.42 RSD(%): 253.03

~~~~~~

5 ID: ADF02954G Seq. No.: 00009 A/S Pos.: 4 Date: 11/30/94

eplicate 1 Time: 16:52
eak Area (A-s): 0.104 Peak Height (A): 0.331
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.071
~~~~~~

ean Conc (ug/L): 0.9 SD: 0.62 RSD(%): 70.20

~~~~~~

b ID: NN101022 Seq. No.: 00020 A/S Pos.: 15 Date: 11/30/94

eplicate 1 Time: 17:53
eak Area (A-s): 0.004 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.017 Background Pk Height (A): 0.023
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.0

eplicate 2 Time: 17:56
eak Area (A-s): 0.004 Peak Height (A): 0.011
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.024
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

ean Conc (ug/L): -0.1 SD: 0.08 RSD(%): 100.11

~~~~~~

b ID: NN101022S Seq. No.: 00021 A/S Pos.: 16 Date: 11/30/94

eplicate 1 Time: 17:58
eak Area (A-s): 0.102 Peak Height (A): 0.359
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.083
lank Corrected Pk Area (A-s): 0.098
oncentration (ug/L): 53.2

eplicate 2 Time: 18:01
eak Area (A-s): 0.101 Peak Height (A): 0.263
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.060
lank Corrected Pk Area (A-s): 0.097
oncentration (ug/L): 52.5

ean Conc (ug/L): 52.9 SD: 0.49 RSD(%): 0.93

~~~~~~

b ID: NN101022W Seq. No.: 00022 A/S Pos.: 17 Date: 11/30/94

eplicate 1 Time: 18:04
eak Area (A-s): 0.102 Peak Height (A): 0.358
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.082
lank Corrected Pk Area (A-s): 0.098
oncentration (ug/L): 53.1

eplicate 2 Time: 18:06
eak Area (A-s): 0.105 Peak Height (A): 0.289
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.065
lank Corrected Pk Area (A-s): 0.101
oncentration (ug/L): 54.9

ean Conc (ug/L): 54.0 SD: 1.33 RSD(%): 2.46

~~~~~~

b ID: BLANK Seq. No.: 00023 A/S Pos.: 0 Date: 11/30/94

eplicate 1 Time: 18:09
eak Area (A-s): 0.005 Peak Height (A): 0.009
ackground Pk Area (A-s): -0.004 Background Pk Height (A): 0.006

lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.3

eplicate 2 Time: 18:12
eak Area (A-s): 0.005 Peak Height (A): 0.009
ackground Pk Area (A-s): -0.005 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.4

ean Conc (ug/L): 0.3 SD: 0.05 RSD(%): 15.97

C sample is within range -5 - 5

~~~~~~

b ID: WP27 #1 Seq. No.: 00024 A/S Pos.: 1 Date: 11/30/94

eplicate 1 Time: 18:14
eak Area (A-s): 0.156 Peak Height (A): 0.409
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.152
oncentration (ug/L): 82.4

eplicate 2 Time: 18:17
eak Area (A-s): 0.156 Peak Height (A): 0.434
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.086
lank Corrected Pk Area (A-s): 0.152
oncentration (ug/L): 82.4

ean Conc (ug/L): 82.4 SD: 0.02 RSD(%): 0.03

C sample is within range 50.9 - 84.8

~~~~~~

b ID: WS31 #1 Seq. No.: 00025 A/S Pos.: 2 Date: 11/30/94

eplicate 1 Time: 18:20
eak Area (A-s): 0.034 Peak Height (A): 0.088
ackground Pk Area (A-s): 0.002 Background Pk Height (A): 0.020
lank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 16.2

eplicate 2 Time: 18:23
eak Area (A-s): 0.034 Peak Height (A): 0.083
ackground Pk Area (A-s): 0.002 Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 16.2

ean Conc (ug/L): 16.2 SD: 0.01 RSD(%): 0.09

C sample is out of range 9.30 - 15.5

~~~~~~

b ID: NN101023 Seq. No.: 00026 A/S Pos.: 18 Date: 11/30/94

eplicate 1 Time: 18:25
eak Area (A-s): 0.004 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.015 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1
~~~~~~

~~~~~~

b ID: NN101030D Seq. No.: 00037 A/S Pos.: 29 Date: 11/30/94

eplicate 1 Time: 19:27
eak Area (A-s): 0.004 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.015 Background Pk Height (A): 0.020
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.3

eplicate 2 Time: 19:30
eak Area (A-s): 0.003 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.017 Background Pk Height (A): 0.016
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

ean Conc (ug/L): -0.4 SD: 0.21 RSD(%): 51.97

~~~~~~

b ID: ADF04950M Seq. No.: 00038 A/S Pos.: 30 Date: 11/30/94

eplicate 1 Time: 19:32
eak Area (A-s): 0.003 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.007 Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7

eplicate 2 Time: 19:35
eak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.004 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -0.9

ean Conc (ug/L): -0.8 SD: 0.18 RSD(%): 22.75

~~~~~~

b ID: ADF04025F Seq. No.: 00039 A/S Pos.: 31 Date: 11/30/94

eplicate 1 Time: 19:38
eak Area (A-s): 0.006 Peak Height (A): 0.022
ackground Pk Area (A-s): 0.010 Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.8

eplicate 2 Time: 19:40
eak Area (A-s): 0.006 Peak Height (A): 0.016
ackground Pk Area (A-s): 0.009 Background Pk Height (A): 0.006
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.8

ean Conc (ug/L): 0.8 SD: 0.02 RSD(%): 2.94

~~~~~~

b ID: ADF04950G Seq. No.: 00040 A/S Pos.: 32 Date: 11/30/94

eplicate 1 Time: 19:43
eak Area (A-s): 0.094 Peak Height (A): 0.328
ackground Pk Area (A-s): 0.022 Background Pk Height (A): 0.059
lank Corrected Pk Area (A-s): 0.089
oncentration (ug/L): 48.5

eplicate 2 Time: 19:46
eak Area (A-s): 0.094 Peak Height (A): 0.330
ackground Pk Area (A-s): 0.021 Background Pk Height (A): 0.060
lank Corrected Pk Area (A-s): 0.090
oncentration (ug/L): 48.8

ean Conc (ug/L): 48.7 SD: 0.18 RSD(%): 0.37

~~~~~~

b ID: BLANK Seq. No.: 00041 A/S Pos.: 0 Date: 11/30/94

eplicate 1 Time: 19:48
eak Area (A-s): 0.004 Peak Height (A): 0.009
ackground Pk Area (A-s): -0.005 Background Pk Height (A): 0.006
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.1

eplicate 2 Time: 19:51
eak Area (A-s): 0.005 Peak Height (A): 0.010
ackground Pk Area (A-s): -0.006 Background Pk Height (A): 0.004
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.3

ean Conc (ug/L): 0.2 SD: 0.15 RSD(%): 88.29

C sample is within range -5 - 5

~~~~~~

b ID: WP27 #1 Seq. No.: 00042 A/S Pos.: 1 Date: 11/30/94

eplicate 1 Time: 19:54
eak Area (A-s): 0.128 Peak Height (A): 0.428
ackground Pk Area (A-s): 0.019 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.124
oncentration (ug/L): 67.3

eplicate 2 Time: 19:57
eak Area (A-s): 0.131 Peak Height (A): 0.459
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.090
lank Corrected Pk Area (A-s): 0.127
oncentration (ug/L): 68.7

ean Conc (ug/L): 68.0 SD: 1.04 RSD(%): 1.53

C sample is within range 50.9 - 84.8

~~~~~~

b ID: WS31 #1 Seq. No.: 00043 A/S Pos.: 2 Date: 11/30/94

eplicate 1 Time: 19:59

eak Area (A-s): 0.030 Peak Height (A): 0.142
ackground Pk Area (A-s): 0.000 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.026
oncentration (ug/L): 14.2

eplicate 2 Time: 20:02
eak Area (A-s): 0.030 Peak Height (A): 0.139
ackground Pk Area (A-s): -0.000 Background Pk Height (A): 0.029
~~~~~~

lank Corrected Pk Area (A-s): 0.026
oncentration (ug/L): 14.1

ean Conc (ug/L): 14.1 SD: 0.05 RSD(%): 0.35

C sample is within range 9.30 - 15.5

~~~~~~

b ID: ADF04022 Seq. No.: 00044 A/S Pos.: 33 Date: 11/30/94

eplicate 1 Time: 20:05
eak Area (A-s): 0.004 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.003 Background Pk Height (A): 0.004
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.3

eplicate 2 Time: 20:08
eak Area (A-s): 0.004 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.005 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

ean Conc (ug/L): -0.2 SD: 0.16 RSD(%): 80.10

~~~~~~

b ID: ADF04023 Seq. No.: 00045 A/S Pos.: 34 Date: 11/30/94

eplicate 1 Time: 20:10
eak Area (A-s): 0.004 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.014
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.3

eplicate 2 Time: 20:13
eak Area (A-s): 0.005 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.012 Background Pk Height (A): 0.013
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.1

ean Conc (ug/L): -0.1 SD: 0.34 RSD(%): 354.23

~~~~~~

b ID: ADF04024 Seq. No.: 00046 A/S Pos.: 35 Date: 11/30/94

eplicate 1 Time: 20:16
eak Area (A-s): 0.003 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.004 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

eplicate 2 Time: 20:18

eak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.004 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7

ean Conc (ug/L): -0.7 SD: 0.07 RSD(%): 10.47

~~~~~~

b   ID: ADF04026   Seq. No.: 00047   A/S Pos.: 36   Date: 11/30/94

eplicate 1   Time: 20:21
eak Area (A-s): 0.004   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.005   Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

eplicate 2   Time: 20:24
eak Area (A-s): 0.004   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.005   Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.0

ean Conc (ug/L):   -0.1   SD: 0.07   RSD(%): 75.71

~~~~~~

b   ID: ADF04026S   Seq. No.: 00048   A/S Pos.: 37   Date: 11/30/94

eplicate 1   Time: 20:27
eak Area (A-s): 0.084   Peak Height (A): 0.343
ackground Pk Area (A-s): 0.019   Background Pk Height (A): 0.064
lank Corrected Pk Area (A-s): 0.080
oncentration (ug/L): 43.3

eplicate 2   Time: 20:29
eak Area (A-s): 0.083   Peak Height (A): 0.337
ackground Pk Area (A-s): 0.017   Background Pk Height (A): 0.060
lank Corrected Pk Area (A-s): 0.079
oncentration (ug/L): 42.9

ean Conc (ug/L):   43.1   SD: 0.31   RSD(%): 0.73

~~~~~~

b   ID: ADF04026W   Seq. No.: 00049   A/S Pos.: 38   Date: 11/30/94

eplicate 1   Time: 20:32
eak Area (A-s): 0.082   Peak Height (A): 0.321
ackground Pk Area (A-s): 0.019   Background Pk Height (A): 0.058
lank Corrected Pk Area (A-s): 0.078
oncentration (ug/L): 42.3

eplicate 2   Time: 20:35
eak Area (A-s): 0.080   Peak Height (A): 0.346
ackground Pk Area (A-s): 0.018   Background Pk Height (A): 0.063
lank Corrected Pk Area (A-s): 0.076
oncentration (ug/L): 41.3

ean Conc (ug/L):   41.8   SD: 0.70   RSD(%): 1.68

~~~~~~

b   ID: BLANK   Seq. No.: 00050   A/S Pos.: 0   Date: 11/30/94

eplicate 1   Time: 20:38
eak Area (A-s): 0.004   Peak Height (A): 0.011
ackground Pk Area (A-s): -0.002   Background Pk Height (A): 0.008
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.0
~~~~~~

eplicate 2 Time: 20:41
eak Area (A-s): 0.004 Peak Height (A): 0.012
ackground Pk Area (A-s): -0.002 Background Pk Height (A): 0.007
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

ean Conc (ug/L): -0.1 SD: 0.05 RSD(%): 96.76

C sample is within range -5 - 5

~~~~~~

b ID: WP27 #1 Seq. No.: 00051 A/S Pos.: 1 Date: 11/30/94

eplicate 1 Time: 20:43
eak Area (A-s): 0.125 Peak Height (A): 0.501
ackground Pk Area (A-s): 0.018 Background Pk Height (A): 0.095
lank Corrected Pk Area (A-s): 0.121
oncentration (ug/L): 65.5

eplicate 2 Time: 20:46
eak Area (A-s): 0.116 Peak Height (A): 0.510
ackground Pk Area (A-s): 0.017 Background Pk Height (A): 0.098
lank Corrected Pk Area (A-s): 0.112
oncentration (ug/L): 60.8

ean Conc (ug/L): 63.2 SD: 3.31 RSD(%): 5.25

C sample is within range 50.9 - 84.8

~~~~~~

o ID: WS31 #1 Seq. No.: 00052 A/S Pos.: 2 Date: 11/30/94

eplicate 1 Time: 20:49
eak Area (A-s): 0.028 Peak Height (A): 0.124
ackground Pk Area (A-s): 0.002 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.024
oncentration (ug/L): 13.1

eplicate 2 Time: 20:52
eak Area (A-s): 0.026 Peak Height (A): 0.117
ackground Pk Area (A-s): -0.000 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 11.9

ean Conc (ug/L): 12.5 SD: 0.89 RSD(%): 7.09

C sample is within range 9.30 - 15.5

waters
ADF 04

TOTAL Sb BY AA

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION: 100 SWG

utosampler Loading Map
Element File: SBESAT.GEL ID/Weight File: ADF02AS.IDW

Loc.	Concentration	Solutions
0		Calib. Blank / Diluent
1	5.0 ug/L	Stock
2	10.0 ug/L	Stock
3	20.0 ug/L	ADF02953M / Stock
4	50.0 ug/L	ADF02954G / Stock
5		ADF02005 / BLANK
6		ADF02005S / WP26 #3
7		ADF02005W / WS25 #3
8		NN101032F
9		NN101001
10		NN101002
11		NN101003
12		NN101004
13		NN101005
14		NN101021
15		NN101022
16		NN101022S
17		NN101022W
18		NN101023
19		NN101024
20		NN101025
21		NN101026
22		NN101026D
23		NN101027
24		NN101028
25		NN101029
26		NN101029S
27		NN101029W
28		NN101030
29		NN101030D
30		ADF04950M
31		ADF04025F
32		ADF04950G
33		ADF04022
34		ADF04023
35		ADF04024
36		ADF04026
37		ADF04026S
38		ADF04026W
40		Modifier 1

```
lank Corrected Pk Area (A-s): 0.007
oncentration (ug/L  ): 12.0

C sample is out of range 13.7 - 20.5

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
b    ID: WS25 #3              Seq. No.: 00133    A/S Pos.: 39    Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate  1                                      Time: 13:39
eak Area (A-s): -0.002                           Peak Height (A): 0.008
ackground Pk Area (A-s): 0.051                   Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): -0.005
oncentration (ug/L  ): -8.3

C sample is out of range 16.8 - 25.2

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
b    ID: BLANK                Seq. No.: 00134    A/S Pos.: 0     Date: 11/24/94

L dispensed: 10 from 40, 20 from 0
eplicate  1                                      Time: 13:45
eak Area (A-s): -0.002                           Peak Height (A): 0.008
ackground Pk Area (A-s): 0.049                   Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): -0.004
oncentration (ug/L  ): -7.9

uto-zero performed.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
b    ID: STD 5.0              Seq. No.: 00135    A/S Pos.: 1     Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate  1                                      Time: 13:48
eak Area (A-s): 0.003                            Peak Height (A): 0.012
ackground Pk Area (A-s): 0.045                   Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.005
oncentration (ug/L  ): 8.9

tandard number 1 applied.  [5.0]
orrelation coefficient: 1.00000       Slope: 0.0010

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
b    ID: STD 10.0             Seq. No.: 00136    A/S Pos.: 2     Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate  1                                      Time: 13:52
eak Area (A-s): 0.011                            Peak Height (A): 0.020
ackground Pk Area (A-s): 0.046                   Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.013
oncentration (ug/L  ): 12.7

tandard number 2 applied.  [10.0]
orrelation coefficient: 0.96023       Slope: 0.0012

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
b    ID: STD 20.0             Seq. No.: 00137    A/S Pos.: 3     Date: 11/24/94

L dispensed: 10 from 40, 20 from 3
```

eplicate 1 Time: 13:55
eak Area (A-s): 0.025 Peak Height (A): 0.042
ackground Pk Area (A-s): 0.046 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 21.8

tandard number 3 applied. [20.0]
orrelation coefficient: 0.99295 Slope: 0.0013

~~~~~~

b ID: STD 50.0 Seq. No.: 00138 A/S Pos.: 4 Date: 11/24/94

L dispensed: 10 from 40, 20 from 4
eplicate 1 Time: 13:58
eak Area (A-s): 0.063 Peak Height (A): 0.087
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.065
oncentration (ug/L): 49.6

tandard number 4 applied. [50.0]
orrelation coefficient: 0.99931 Slope: 0.0013

~~~~~~

b ID: BLANK Seq. No.: 00139 A/S Pos.: 1 Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 14:11
eak Area (A-s): -0.002 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.048 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.2

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 14:15
eak Area (A-s): -0.002 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.0

ean Conc (ug/L): -0.1 SD: 0.16 RSD(%): 172.85

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00140 A/S Pos.: 2 Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 14:18
eak Area (A-s): 0.033 Peak Height (A): 0.038
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 26.9

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 14:21
eak Area (A-s): 0.033 Peak Height (A): 0.037
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 26.7
~~~~~~

ean Conc (ug/L): 26.8 SD: 0.13 RSD(%): 0.49

C sample is out of range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00141 A/S Pos.: 39 Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 14:24
eak Area (A-s): 0.040 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.042
oncentration (ug/L): 32.2

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 14:27
eak Area (A-s): 0.042 Peak Height (A): 0.064
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.044
oncentration (ug/L): 34.0

ean Conc (ug/L): 33.1 SD: 1.24 RSD(%): 3.76

C sample is out of range 16.8 - 25.2

~~~~~~

b ID: ADF02953M Seq. No.: 00142 A/S Pos.: 3 Date: 11/24/94

L dispensed: 10 from 40, 20 from 3
eplicate 1 Time: 14:31
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.4

L dispensed: 10 from 40, 20 from 3
eplicate 2 Time: 14:34
eak Area (A-s): -0.003 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -1.1

ean Conc (ug/L): -0.7 SD: 0.48 RSD(%): 67.15

~~~~~~

b ID: BLANK Seq. No.: 00144 A/S Pos.: 1 Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 14:37
eak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.005
oncentration (ug/L): 4.0

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 14:40
eak Area (A-s): -0.002 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.050 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.000
~~~~~~

oncentration (ug/L): 0.1

ean Conc (ug/L): 2.1 SD: 2.79 RSD(%): 134.60

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00145 A/S Pos.: 2 Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 14:44
eak Area (A-s): 0.021 Peak Height (A): 0.028
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.023
oncentration (ug/L): 17.6

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 14:47
eak Area (A-s): 0.024 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.026
oncentration (ug/L): 19.8

ean Conc (ug/L): 18.7 SD: 1.51 RSD(%): 8.05

C sample is within range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00146 A/S Pos.: 39 Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 14:50
eak Area (A-s): 0.033 Peak Height (A): 0.042
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 27.0

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 14:53
eak Area (A-s): 0.027 Peak Height (A): 0.036
ackground Pk Area (A-s): 0.056 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.029
oncentration (ug/L): 22.0

ean Conc (ug/L): 24.5 SD: 3.60 RSD(%): 14.70

C sample is within range 16.8 - 25.2

~~~~~~

b ID: ADF02953M Seq. No.: 00147 A/S Pos.: 3 Date: 11/24/94

L dispensed: 10 from 40, 20 from 3
eplicate 1 Time: 14:56
eak Area (A-s): 0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.5

L dispensed: 10 from 40, 20 from 3
~~~~~~

ean Conc (ug/L): 40.4 SD: 1.39 RSD(%): 3.44
orrected Conc (ug/L): 80.9

~~~~~~

b ID: NN101032F Seq. No.: 00155 A/S Pos.: 8 Date: 11/24/94

L dispensed: 10 from 40, 20 from 8
eplicate 1 Time: 15:39
eak Area (A-s): -0.001 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.6

L dispensed: 10 from 40, 20 from 8
eplicate 2 Time: 15:42
eak Area (A-s): -0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.4

ean Conc (ug/L): 1.0 SD: 0.58 RSD(%): 60.29

~~~~~~

b ID: NN101001 Seq. No.: 00156 A/S Pos.: 9 Date: 11/24/94

L dispensed: 10 from 40, 20 from 9
eplicate 1 Time: 15:45
eak Area (A-s): -0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.106 Background Pk Height (A): 0.060
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.7

L dispensed: 10 from 40, 20 from 9
eplicate 2 Time: 15:48
eak Area (A-s): 0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.114 Background Pk Height (A): 0.062
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.5

ean Conc (ug/L): 1.6 SD: 1.27 RSD(%): 78.54

~~~~~~

b ID: BLANK Seq. No.: 00157 A/S Pos.: 1 Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 15:52
eak Area (A-s): 0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.4

L dispensed: 10 from 40, 20 from 1
Replicate 2 Time: 15:55
eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.046 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.8

lean Conc (ug/L): 2.1 SD: 0.46 RSD(%): 21.92
~~~~~~

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00158 A/S Pos.: 2 Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 15:58
eak Area (A-s): 0.026 Peak Height (A): 0.029
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 21.1

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 16:01
eak Area (A-s): 0.026 Peak Height (A): 0.028
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.028
oncentration (ug/L): 21.7

ean Conc (ug/L): 21.4 SD: 0.44 RSD(%): 2.05

C sample is out of range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00159 A/S Pos.: 39 Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 16:04
eak Area (A-s): 0.030 Peak Height (A): 0.039
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.032
oncentration (ug/L): 24.7

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 16:08
eak Area (A-s): 0.028 Peak Height (A): 0.038
ackground Pk Area (A-s): 0.055 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 22.8

ean Conc (ug/L): 23.7 SD: 1.31 RSD(%): 5.50

C sample is within range 16.8 - 25.2

~~~~~~

b ID: NN101002 Seq. No.: 00160 A/S Pos.: 10 Date: 11/24/94

L dispensed: 10 from 40, 20 from 10
eplicate 1 Time: 16:11
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.098 Background Pk Height (A): 0.070
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.4

L dispensed: 10 from 40, 20 from 10
eplicate 2 Time: 16:14
eak Area (A-s): 0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.099 Background Pk Height (A): 0.067
lank Corrected Pk Area (A-s): 0.003
~~~~~~

oncentration (ug/L): 39.6   Corrected Conc (ug/L): 79.1

L dispensed: 10 from 40, 10 from 16
eplicate 2   Time: 16:55
eak Area (A-s): 0.049   Peak Height (A): 0.044
ackground Pk Area (A-s): 0.086   Background Pk Height (A): 0.049
lank Corrected Pk Area (A-s): 0.051
oncentration (ug/L): 39.3   Corrected Conc (ug/L): 78.6

ean Conc (ug/L): 39.4   SD: 0.19   RSD(%): 0.49
orrected Conc (ug/L): 78.8

~~~~~~
b ID: NN101022W   Seq. No.: 00168   A/S Pos.: 17   Date: 11/24/94

L dispensed: 10 from 40, 20 from 17
ample abs. is greater than that of the largest standard.
eplicate 1   Time: 16:58
eak Area (A-s): 0.097   Peak Height (A): 0.065
ackground Pk Area (A-s): 0.108   Background Pk Height (A): 0.055
lank Corrected Pk Area (A-s): 0.099
oncentration (ug/L): 75.7

~~~~~~
b ID: NN101022W   Seq. No.: 00169   A/S Pos.: 17   Date: 11/24/94

L dispensed: 10 from 40, 10 from 17
eplicate 1   Time: 17:01
eak Area (A-s): 0.050   Peak Height (A): 0.042
ackground Pk Area (A-s): 0.092   Background Pk Height (A): 0.050
lank Corrected Pk Area (A-s): 0.052
oncentration (ug/L): 40.0   Corrected Conc (ug/L): 80.0

L dispensed: 10 from 40, 10 from 17
eplicate 2   Time: 17:04
eak Area (A-s): 0.050   Peak Height (A): 0.046
ackground Pk Area (A-s): 0.088   Background Pk Height (A): 0.046
lank Corrected Pk Area (A-s): 0.052
oncentration (ug/L): 40.0   Corrected Conc (ug/L): 80.0

ean Conc (ug/L): 40.0   SD: 0.00   RSD(%): 0.01
orrected Conc (ug/L): 80.0

~~~~~~
b ID: BLANK   Seq. No.: 00170   A/S Pos.: 1   Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate 1   Time: 17:07
eak Area (A-s): 0.001   Peak Height (A): 0.007
ackground Pk Area (A-s): 0.050   Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.0

L dispensed: 10 from 40, 20 from 1
eplicate 2   Time: 17:10
eak Area (A-s): -0.003   Peak Height (A): 0.006
ackground Pk Area (A-s): 0.048   Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7
~~~~~~

ean Conc (ug/L): 0.6 SD: 1.92 RSD(%): 301.02

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00171 A/S Pos.: 2 Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 17:14
eak Area (A-s): 0.020 Peak Height (A): 0.021
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 17.0

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 17:17
eak Area (A-s): 0.026 Peak Height (A): 0.033
ackground Pk Area (A-s): 0.050 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.028
oncentration (ug/L): 21.2

ean Conc (ug/L): 19.1 SD: 2.95 RSD(%): 15.43

C sample is within range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00172 A/S Pos.: 39 Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 17:20
eak Area (A-s): 0.029 Peak Height (A): 0.041
ackground Pk Area (A-s): 0.049 Background Pk Height (A): 0.042
lank Corrected Pk Area (A-s): 0.031
oncentration (ug/L): 23.9

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 17:23
eak Area (A-s): 0.028 Peak Height (A): 0.040
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 23.1

ean Conc (ug/L): 23.5 SD: 0.59 RSD(%): 2.50

C sample is within range 16.8 - 25.2

~~~~~~

b ID: NN101023 Seq. No.: 00173 A/S Pos.: 18 Date: 11/24/94

L dispensed: 10 from 40, 20 from 18
eplicate 1 Time: 17:26
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.114 Background Pk Height (A): 0.074
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.2

L dispensed: 10 from 40, 20 from 18
eplicate 2 Time: 17:29
eak Area (A-s): -0.001 Peak Height (A): 0.006
~~~~~~

ean Conc (ug/L): 0.1 SD: 0.70 RSD(%): 502.11

~~~~~~

b ID: NN101029 Seq. No.: 00180 A/S Pos.: 25 Date: 11/24/94

L dispensed: 10 from 40, 20 from 25
eplicate 1 Time: 18:11
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.100 Background Pk Height (A): 0.062
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.5

L dispensed: 10 from 40, 20 from 25
eplicate 2 Time: 18:14
eak Area (A-s): -0.006 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.117 Background Pk Height (A): 0.092
lank Corrected Pk Area (A-s): -0.004
oncentration (ug/L): -2.8

ean Conc (ug/L): -1.1 SD: 2.35 RSD(%): 206.64

~~~~~~

b ID: NN101029S Seq. No.: 00181 A/S Pos.: 26 Date: 11/24/94

L dispensed: 10 from 40, 20 from 26
ample abs. is greater than that of the largest standard.
eplicate 1 Time: 18:17
eak Area (A-s): 0.086 Peak Height (A): 0.048
ackground Pk Area (A-s): 0.114 Background Pk Height (A): 0.090
lank Corrected Pk Area (A-s): 0.088
oncentration (ug/L): 67.5

~~~~~~

b ID: NN101029S Seq. No.: 00182 A/S Pos.: 26 Date: 11/24/94

L dispensed: 10 from 40, 10 from 26
eplicate 1 Time: 18:21
eak Area (A-s): 0.044 Peak Height (A): 0.035
ackground Pk Area (A-s): 0.082 Background Pk Height (A): 0.044
lank Corrected Pk Area (A-s): 0.045
oncentration (ug/L): 34.8 Corrected Conc (ug/L): 69.6

L dispensed: 10 from 40, 10 from 26
eplicate 2 Time: 18:24
eak Area (A-s): 0.036 Peak Height (A): 0.029
ackground Pk Area (A-s): 0.080 Background Pk Height (A): 0.060
lank Corrected Pk Area (A-s): 0.038
oncentration (ug/L): 29.2 Corrected Conc (ug/L): 58.4

ean Conc (ug/L): 32.0 SD: 3.99 RSD(%): 12.45
orrected Conc (ug/L): 64.0

~~~~~~

b ID: BLANK Seq. No.: 00183 A/S Pos.: 1 Date: 11/24/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 18:27
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.045 Background Pk Height (A): 0.035

lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.4

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 18:30
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.8

ean Conc (ug/L): 0.6 SD: 0.23 RSD(%): 37.37

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00184 A/S Pos.: 2 Date: 11/24/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 18:34
eak Area (A-s): 0.024 Peak Height (A): 0.035
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.026
oncentration (ug/L): 20.1

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 18:37
eak Area (A-s): 0.027 Peak Height (A): 0.041
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.029
oncentration (ug/L): 22.2

ean Conc (ug/L): 21.2 SD: 1.47 RSD(%): 6.93

C sample is out of range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00185 A/S Pos.: 39 Date: 11/24/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 18:40
eak Area (A-s): 0.029 Peak Height (A): 0.045
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.031
oncentration (ug/L): 23.8

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 18:43
eak Area (A-s): 0.030 Peak Height (A): 0.042
ackground Pk Area (A-s): 0.049 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.032
oncentration (ug/L): 24.5

ean Conc (ug/L): 24.2 SD: 0.49 RSD(%): 2.02

C sample is within range 16.8 - 25.2

~~~~~~

b ID: NN101029W Seq. No.: 00186 A/S Pos.: 27 Date: 11/24/94
~~~~~~

ackground Pk Area (A-s): 0.032   Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.041
oncentration (ug/L): 31.3

L dispensed: 10 from 40, 20 from 39
eplicate 2   Time: 09:39
eak Area (A-s): 0.039   Peak Height (A): 0.048
ackground Pk Area (A-s): 0.035   Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.041
oncentration (ug/L): 31.2

ean Conc (ug/L): 31.3   SD: 0.10   RSD(%): 0.31

C sample is out of range 16.8 - 25.2

~~~~~~

b   ID: NN101029S   Seq. No.: 00208   A/S Pos.: 26   Date: 11/25/94

L dispensed: 10 from 40, 20 from 26
ample abs. is greater than that of the largest standard.
eplicate 1   Time: 09:42
eak Area (A-s): 0.108   Peak Height (A): 0.069
ackground Pk Area (A-s): 0.087   Background Pk Height (A): 0.062
lank Corrected Pk Area (A-s): 0.110
oncentration (ug/L): 83.9

~~~~~~

b   ID: BLANK   Seq. No.: 00209   A/S Pos.: 1   Date: 11/25/94

L dispensed: 10 from 40, 20 from 1
eplicate 1   Time: 09:46
eak Area (A-s): -0.004   Peak Height (A): 0.009
ackground Pk Area (A-s): 0.029   Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.8

L dispensed: 10 from 40, 20 from 1
eplicate 2   Time: 09:49
eak Area (A-s): -0.001   Peak Height (A): 0.006
ackground Pk Area (A-s): 0.036   Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.4

ean Conc (ug/L): -0.7   SD: 1.55   RSD(%): 208.35

C sample is within range -5 - 5

~~~~~~

b   ID: WP26 #3   Seq. No.: 00210   A/S Pos.: 2   Date: 11/25/94

L dispensed: 10 from 40, 20 from 2
eplicate 1   Time: 09:52
eak Area (A-s): 0.026   Peak Height (A): 0.034
ackground Pk Area (A-s): 0.032   Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.028
oncentration (ug/L): 21.5

L dispensed: 10 from 40, 20 from 2
eplicate 2   Time: 09:55
~~~~~~

eak Area (A-s): 0.027 Peak Height (A): 0.037
ackground Pk Area (A-s): 0.030 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.029
oncentration (ug/L): 22.2

ean Conc (ug/L): 21.9 SD: 0.47 RSD(%): 2.16

C sample is out of range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00211 A/S Pos.: 39 Date: 11/25/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 09:58
eak Area (A-s): 0.023 Peak Height (A): 0.036
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.024
oncentration (ug/L): 18.7

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 10:02
eak Area (A-s): 0.023 Peak Height (A): 0.033
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.025
oncentration (ug/L): 19.0

ean Conc (ug/L): 18.9 SD: 0.20 RSD(%): 1.06

C sample is within range 16.8 - 25.2

~~~~~~

b ID: NN101029S Seq. No.: 00212 A/S Pos.: 26 Date: 11/25/94

L dispensed: 10 from 40, 20 from 26
ample abs. is greater than that of the largest standard.
eplicate 1 Time: 10:05
eak Area (A-s): 0.082 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.063 Background Pk Height (A): 0.045
lank Corrected Pk Area (A-s): 0.084
oncentration (ug/L): 64.2

~~~~~~

b ID: NN101029S Seq. No.: 00213 A/S Pos.: 26 Date: 11/25/94

L dispensed: 10 from 40, 10 from 26
eplicate 1 Time: 10:08
eak Area (A-s): 0.041 Peak Height (A): 0.036
ackground Pk Area (A-s): 0.048 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.043
oncentration (ug/L): 33.2 Corrected Conc (ug/L): 66.4

L dispensed: 10 from 40, 10 from 26
eplicate 2 Time: 10:11
eak Area (A-s): 0.046 Peak Height (A): 0.041
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.048
oncentration (ug/L): 36.5 Corrected Conc (ug/L): 73.0

ean Conc (ug/L): 34.8 SD: 2.32 RSD(%): 6.67
~~~~~~

~~~~~~

b   ID: ADF04950M   Seq. No.: 00217   A/S Pos.: 30   Date: 11/25/94

L dispensed: 10 from 40, 20 from 30
eplicate 1   Time: 10:34
eak Area (A-s): 0.000   Peak Height (A): 0.007
ackground Pk Area (A-s): 0.045   Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.5

L dispensed: 10 from 40, 20 from 30
eplicate 2   Time: 10:37
eak Area (A-s): -0.000   Peak Height (A): 0.007
ackground Pk Area (A-s): 0.041   Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.3

ean Conc (ug/L):   1.4   SD: 0.21   RSD(%): 14.91

~~~~~~

b   ID: ADF04025F   Seq. No.: 00218   A/S Pos.: 31   Date: 11/25/94

L dispensed: 10 from 40, 20 from 31
eplicate 1   Time: 10:40
eak Area (A-s): 0.003   Peak Height (A): 0.009
ackground Pk Area (A-s): 0.044   Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.005
oncentration (ug/L): 3.9

L dispensed: 10 from 40, 20 from 31
eplicate 2   Time: 10:43
eak Area (A-s): 0.003   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.046   Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.005
oncentration (ug/L): 4.0

ean Conc (ug/L):   3.9   SD: 0.08   RSD(%): 1.95

~~~~~~

b   ID: ADF04950G   Seq. No.: 00219   A/S Pos.: 32   Date: 11/25/94

L dispensed: 10 from 40, 20 from 32
eplicate 1   Time: 10:46
eak Area (A-s): 0.016   Peak Height (A): 0.026
ackground Pk Area (A-s): 0.036   Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.018
oncentration (ug/L): 13.9   Corrected Conc (ug/L): 1392.

L dispensed: 10 from 40, 20 from 32
eplicate 2   Time: 10:49
eak Area (A-s): 0.017   Peak Height (A): 0.023
ackground Pk Area (A-s): 0.039   Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.019
oncentration (ug/L): 14.5   Corrected Conc (ug/L): 1452.

ean Conc (ug/L):   14.2   SD: 0.43   RSD(%): 2.99
orrected Conc (ug/L): 1422.
~~~~~~

~~~~~~

b ID: ADF04022 Seq. No.: 00220 A/S Pos.: 33 Date: 11/25/94

L dispensed: 10 from 40, 20 from 33
eplicate 1 Time: 10:52
eak Area (A-s): -0.001 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.5

L dispensed: 10 from 40, 20 from 33
eplicate 2 Time: 10:55
eak Area (A-s): -0.000 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.050 Background Pk Height (A): 0.042
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.3

ean Conc (ug/L): 0.9 SD: 0.57 RSD(%): 65.69

~~~~~~

b ID: ADF04023 Seq. No.: 00221 A/S Pos.: 34 Date: 11/25/94

L dispensed: 10 from 40, 20 from 34
eplicate 1 Time: 10:59
eak Area (A-s): -0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.118 Background Pk Height (A): 0.058
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 1.1

dispensed: 10 from 40, 20 from 34
eplicate 2 Time: 11:02
eak Area (A-s): 0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.123 Background Pk Height (A): 0.062
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.2

ean Conc (ug/L): 1.6 SD: 0.84 RSD(%): 51.04

~~~~~~

b ID: BLANK Seq. No.: 00222 A/S Pos.: 1 Date: 11/25/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 11:05
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.3

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 11:08
eak Area (A-s): 0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.3

ean Conc (ug/L): 1.3 SD: 1.39 RSD(%): 109.46

C sample is within range -5 - 5
~~~~~~

~~~~~~

ib ID: WP26 #3 Seq. No.: 00223 A/S Pos.: 2 Date: 11/25/94

iL dispensed: 10 from 40, 20 from 2
Replicate 1 Time: 11:11
Peak Area (A-s): 0.018 Peak Height (A): 0.022
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 15.4

iL dispensed: 10 from 40, 20 from 2
Replicate 2 Time: 11:14
Peak Area (A-s): 0.020 Peak Height (A): 0.025
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 16.6

Mean Conc (ug/L): 16.0 SD: 0.87 RSD(%): 5.45

QC sample is within range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00224 A/S Pos.: 39 Date: 11/25/94

iL dispensed: 10 from 40, 20 from 39
Replicate 1 Time: 11:18
Peak Area (A-s): 0.024 Peak Height (A): 0.030
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 20.1

iL dispensed: 10 from 40, 20 from 39
Replicate 2 Time: 11:21
Peak Area (A-s): 0.025 Peak Height (A): 0.032
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 20.5

Mean Conc (ug/L): 20.3 SD: 0.30 RSD(%): 1.46

QC sample is within range 16.8 - 25.2

~~~~~~

ib ID: ADF04024 Seq. No.: 00225 A/S Pos.: 35 Date: 11/25/94

iL dispensed: 10 from 40, 20 from 35
Replicate 1 Time: 11:24
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.2

iL dispensed: 10 from 40, 20 from 35
Replicate 2 Time: 11:27
Peak Area (A-s): -0.001 Peak Height (A): 0.006
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.4
~~~~~~

'ean Conc (ug/L): 0.3 SD: 0.10 RSD(%): 30.79

~~~~~~

'b ID: ADF04026 Seq. No.: 00226 A/S Pos.: 36 Date: 11/25/94

L dispensed: 10 from 40, 20 from 36
'eplicate 1 Time: 11:30
'eak Area (A-s): 0.004 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.006
oncentration (ug/L): 4.5 Corrected Conc (ug/L): 447.

L dispensed: 10 from 40, 20 from 36
eplicate 2 Time: 11:33
eak Area (A-s): -0.002 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.2 Corrected Conc (ug/L): 22.

'ean Conc (ug/L): 2.3 SD: 3.01 RSD(%): 128.14
orrected Conc (ug/L): ~~235~~ Don't use dilution factor

~~~~~~

'b ID: ADF04026S Seq. No.: 00227 A/S Pos.: 37 Date: 11/25/94

L dispensed: 10 from 40, 20 from 37
'eplicate 1 Time: 11:37
'eak Area (A-s): 0.013 Peak Height (A): 0.024
ackground Pk Area (A-s): 0.041 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.015
oncentration (ug/L): 11.4 Corrected Conc (ug/L): 1137.

L dispensed: 10 from 40, 20 from 37
'eplicate 2 Time: 11:40
'eak Area (A-s): 0.012 Peak Height (A): 0.018
ackground Pk Area (A-s): 0.045 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.014
oncentration (ug/L): 10.8 Corrected Conc (ug/L): 1078.

'ean Conc (ug/L): 11.1 SD: 0.42 RSD(%): 3.78
orrected Conc (ug/L): 1108.

~~~~~~

b ID: ADF04026W Seq. No.: 00228 A/S Pos.: 38 Date: 11/25/94

L dispensed: 10 from 40, 20 from 38
'eplicate 1 Time: 11:43
'eak Area (A-s): 0.007 Peak Height (A): 0.017
ackground Pk Area (A-s): 0.061 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.009
oncentration (ug/L): 7.1 Corrected Conc (ug/L): 709.

L dispensed: 10 from 40, 20 from 38
Replicate 2 Time: 11:46
Peak Area (A-s): 0.010 Peak Height (A): 0.016
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 9.2 Corrected Conc (ug/L): 921.
~~~~~~

ean Conc (ug/L): 8.1 SD: 1.50 RSD(%): 18.41
orrected Conc (ug/L): 815.

~~~~~~

b ID: BLANK Seq. No.: 00230 A/S Pos.: 1 Date: 11/25/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 11:50
eak Area (A-s): 0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.036 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.7

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 11:53
eak Area (A-s): -0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.8

ean Conc (ug/L): 1.2 SD: 0.64 RSD(%): 51.49

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00231 A/S Pos.: 2 Date: 11/25/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 11:56
eak Area (A-s): 0.013 Peak Height (A): 0.020
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.015
oncentration (ug/L): 11.4 0

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 11:59
eak Area (A-s): 0.017 Peak Height (A): 0.024
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.019
oncentration (ug/L): 14.8

ean Conc (ug/L): 13.1 SD: 2.43 RSD(%): 18.55

C sample is out of range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00232 A/S Pos.: 39 Date: 11/25/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 12:02
eak Area (A-s): 0.025 Peak Height (A): 0.025
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 20.7

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 12:06
eak Area (A-s): 0.025 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.032
~~~~~~

lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 21.0

ean Conc (ug/L): 20.9 SD: 0.19 RSD(%): 0.89

C sample is within range 16.8 - 25.2

~~~~~~

b ID: ADF02954G Seq. No.: 00233 A/S Pos.: 4 Date: 11/25/94

L dispensed: 10 from 40, 20 from 4
ample abs. is greater than that of the largest standard.
eplicate 1 Time: 12:09
eak Area (A-s): 0.081 Peak Height (A): 0.110
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.083
oncentration (ug/L): 63.4

~~~~~~

b ID: ADF02954G Seq. No.: 00234 A/S Pos.: 4 Date: 11/25/94

L dispensed: 10 from 40, 10 from 4
eplicate 1 Time: 12:12
eak Area (A-s): 0.040 Peak Height (A): 0.042
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.042
oncentration (ug/L): 32.1 Corrected Conc (ug/L): 64.2

L dispensed: 10 from 40, 10 from 4
eplicate 2 Time: 12:15
eak Area (A-s): 0.040 Peak Height (A): 0.041
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.042
oncentration (ug/L): 32.5 Corrected Conc (ug/L): 64.9

ean Conc (ug/L): 32.3 SD: 0.24 RSD(%): 0.75
orrected Conc (ug/L): 64.6

~~~~~~

b ID: ADF02005S Seq. No.: 00235 A/S Pos.: 6 Date: 11/25/94

L dispensed: 10 from 40, 20 from 6
ample abs. is greater than that of the largest standard.
eplicate 1 Time: 12:18
eak Area (A-s): 0.114 Peak Height (A): 0.139
ackground Pk Area (A-s): 0.046 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.116
oncentration (ug/L): 88.6

~~~~~~

b ID: ADF02005S Seq. No.: 00236 A/S Pos.: 6 Date: 11/25/94

L dispensed: 10 from 40, 10 from 6
Replicate 1 Time: 12:22
Peak Area (A-s): 0.056 Peak Height (A): 0.059
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 44.4 Corrected Conc (ug/L): 88.7

oncentration (ug/L): 2.1

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 13:03
eak Area (A-s): 0.002 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.041 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.004
oncentration (ug/L): 3.4

ean Conc (ug/L): 2.7 SD: 0.87 RSD(%): 31.87

C sample is within range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00244 A/S Pos.: 2 Date: 11/25/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 13:06
eak Area (A-s): 0.019 Peak Height (A): 0.026
ackground Pk Area (A-s): 0.036 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 15.7

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 13:10
eak Area (A-s): 0.019 Peak Height (A): 0.028
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 15.7

ean Conc (ug/L): 15.7 SD: 0.02 RSD(%): 0.10

C sample is within range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00245 A/S Pos.: 39 Date: 11/25/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 13:13
eak Area (A-s): 0.018 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.084 Background Pk Height (A): 0.045
lank Corrected Pk Area (A-s): 0.020
oncentration (ug/L): 15.6

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 13:16
eak Area (A-s): 0.020 Peak Height (A): 0.022
ackground Pk Area (A-s): 0.063 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 16.5

ean Conc (ug/L): 16.1 SD: 0.69 RSD(%): 4.30

C sample is out of range 16.8 - 25.2

~~~~~~

b ID: ADF04950G Seq. No.: 00246 A/S Pos.: 32 Date: 11/25/94

L dispensed: 10 from 40, 20 from 32
~~~~~~

eplicate 1 Time: 13:19
eak Area (A-s): 0.010 Peak Height (A): 0.019
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.012
oncentration (ug/L): 9.1 Corrected Conc (ug/L): 914.

L dispensed: 10 from 40, 20 from 32
eplicate 2 Time: 13:22
eak Area (A-s): 0.010 Peak Height (A): 0.017
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.012
oncentration (ug/L): 9.3 Corrected Conc (ug/L): 929.

ean Conc (ug/L): 9.2 SD: 0.11 RSD(%): 1.20
orrected Conc (ug/L): 921.

~~~~~~

b ID: BLANK Seq. No.: 00247 A/S Pos.: 1 Date: 11/25/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 13:25
eak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.067 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.005
oncentration (ug/L): 3.5

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 13:28
eak Area (A-s): 0.008 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.010
oncentration (ug/L): 7.6

ean Conc (ug/L): 5.6 SD: 2.88 RSD(%): 51.60

C sample is out of range -5 - 5

~~~~~~

b ID: WP26 #3 Seq. No.: 00248 A/S Pos.: 2 Date: 11/25/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 13:32
eak Area (A-s): 0.013 Peak Height (A): 0.019
ackground Pk Area (A-s): 0.072 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.015
oncentration (ug/L): 11.7

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 13:35
eak Area (A-s): 0.012 Peak Height (A): 0.018
ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.014
oncentration (ug/L): 10.9

lean Conc (ug/L): 11.3 SD: 0.57 RSD(%): 5.05

IC sample is out of range 13.7 - 20.5

~~~~~~

b   ID: WS25 #3   Seq. No.: 00249   A/S Pos.: 39   Date: 11/25/94

L dispensed: 10 from 40, 20 from 39
eplicate 1   Time: 13:38
eak Area (A-s): 0.017   Peak Height (A): 0.020
ackground Pk Area (A-s): 0.053   Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.019
oncentration (ug/L): 14.8

L dispensed: 10 from 40, 20 from 39
eplicate 2   Time: 13:41
eak Area (A-s): 0.017   Peak Height (A): 0.018
ackground Pk Area (A-s): 0.047   Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.019
oncentration (ug/L): 14.5

ean Conc (ug/L): 14.7   SD: 0.25   RSD(%): 1.68

C sample is out of range 16.8 - 25.2

~~~~~~

b   ID: BLANK   Seq. No.: 00250   A/S Pos.: 1   Date: 11/25/94

L dispensed: 10 from 40, 20 from 1
eplicate 1   Time: 14:03
eak Area (A-s): 0.001   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.026   Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.1

L dispensed: 10 from 40, 20 from 1
eplicate 2   Time: 14:06
eak Area (A-s): 0.004   Peak Height (A): 0.008
ackground Pk Area (A-s): 0.025   Background Pk Height (A): 0.023
lank Corrected Pk Area (A-s): 0.006
oncentration (ug/L): 4.8

ean Conc (ug/L): 3.5   SD: 1.92   RSD(%): 55.11

C sample is within range -5 - 5

~~~~~~

b   ID: WP26 #3   Seq. No.: 00251   A/S Pos.: 2   Date: 11/25/94

L dispensed: 10 from 40, 20 from 2
eplicate 1   Time: 14:09
eak Area (A-s): 0.021   Peak Height (A): 0.025
ackground Pk Area (A-s): 0.035   Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.023
oncentration (ug/L): 17.8

L dispensed: 10 from 40, 20 from 2
eplicate 2   Time: 14:12
eak Area (A-s): 0.020   Peak Height (A): 0.027
ackground Pk Area (A-s): 0.036   Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 16.9
~~~~~~

ean Conc (ug/L): 17.3 SD: 0.62 RSD(%): 3.55

C sample is within range 13.7 - 20.5

~~~~~~

b ID: WS25 #3 Seq. No.: 00252 A/S Pos.: 39 Date: 11/25/94

L dispensed: 10 from 40, 20 from 39
eplicate 1 Time: 14:16
eak Area (A-s): 0.020 Peak Height (A): 0.026
ackground Pk Area (A-s): 0.037 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 16.5

L dispensed: 10 from 40, 20 from 39
eplicate 2 Time: 14:19
eak Area (A-s): 0.022 Peak Height (A): 0.033
ackground Pk Area (A-s): 0.035 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.024
oncentration (ug/L): 18.7

ean Conc (ug/L): 17.6 SD: 1.55 RSD(%): 8.80

C sample is within range 16.8 - 25.2

~~~~~~

b ID: ADF02954G Seq. No.: 00253 A/S Pos.: 4 Date: 11/25/94

L dispensed: 10 from 40, 20 from 4
eplicate 1 Time: 14:22
eak Area (A-s): 0.044 Peak Height (A): 0.053
ackground Pk Area (A-s): 0.053 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.046
oncentration (ug/L): 35.2

L dispensed: 10 from 40, 20 from 4
eplicate 2 Time: 14:25
eak Area (A-s): 0.041 Peak Height (A): 0.054
ackground Pk Area (A-s): 0.056 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.043
oncentration (ug/L): 32.6

ean Conc (ug/L): 33.9 SD: 1.82 RSD(%): 5.39

~~~~~~

b ID: ADF02005S Seq. No.: 00254 A/S Pos.: 6 Date: 11/25/94

L dispensed: 10 from 40, 20 from 6
eplicate 1 Time: 14:28
eak Area (A-s): 0.049 Peak Height (A): 0.057
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.044
lank Corrected Pk Area (A-s): 0.051
oncentration (ug/L): 39.2

L dispensed: 10 from 40, 20 from 6
eplicate 2 Time: 14:32
eak Area (A-s): 0.042 Peak Height (A): 0.054
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.037
lank Corrected Pk Area (A-s): 0.044
~~~~~~

water
ADF4

TOTAL Se BY AA

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION: None

```
Element File: SEMKL.GEL        Element: Se                    Wavelength: 196.0
Date: 11/21/94                 Time: 17:41                    Slit: 2.0 L
Data File:                     ID/Wt File: UNTITLED           Lamp Current: 0
Technique: HGA                 Calib. Type: Linear            Energy: 65
------------------------------------------------------------------------------
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Se     ID: Seq. 00001          Seq. No.: 00001    A/S Pos.: --     Date: 11/21/94

Replicate  1                               Time: 17:41
Peak Area (A-s): -0.003                    Peak Height (A): 0.003
Background Pk Area (A-s): 0.004            Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.003

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Se     ID: AS Position 000     Seq. No.: 00002    A/S Pos.: 0      Date: 11/21/94

µL dispensed: 20 from 0
Replicate  1                               Time: 17:52
Peak Area (A-s): -0.001                    Peak Height (A): 0.004
Background Pk Area (A-s): 0.010            Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.001

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Se     ID: 0.1 % HNO3          Seq. No.: 00001    A/S Pos.: 0      Date: 11/21/94

µL dispensed: 10 from 40, 20 from 0
Replicate  1                               Time: 17:56
Peak Area (A-s): -0.001                    Peak Height (A): 0.004
Background Pk Area (A-s): 0.034            Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001

Auto-zero performed.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Se     ID: STD 5.0             Seq. No.: 00002    A/S Pos.: 1      Date: 11/21/94

µL dispensed: 10 from 40, 20 from 1
Replicate  1                               Time: 17:59
Peak Area (A-s): 0.006                     Peak Height (A): 0.007
Background Pk Area (A-s): 0.031            Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.007

Standard number 1 applied.  [5.0]
Correlation coefficient: 1.00000           Slope: 0.0014

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Se     ID: STD 10.0            Seq. No.: 00003    A/S Pos.: 2      Date: 11/21/94

µL dispensed: 10 from 40, 20 from 2
Replicate  1                               Time: 18:02
Peak Area (A-s): 0.015                     Peak Height (A): 0.011
Background Pk Area (A-s): 0.043            Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L  ): 11.1

Standard number 2 applied.  [10.0]
Correlation coefficient: 0.99129           Slope: 0.0015
```

e   ID: STD 20.0   Seq. No.: 00004   A/S Pos.: 3   Date: 11/21/94

L dispensed: 10 from 40, 20 from 3
eplicate 1   Time: 18:05
eak Area (A-s): 0.029   Peak Height (A): 0.021
ackground Pk Area (A-s): 0.037   Background Pk Height (A): 0.024
lank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 19.8

tandard number 3 applied. [20.0]
orrelation coefficient: 0.99903   Slope: 0.0015

---

e   ID: STD 50.0   Seq. No.: 00005   A/S Pos.: 4   Date: 11/21/94

dispensed: 10 from 40, 20 from 4
eplicate 1   Time: 18:08
eak Area (A-s): 0.069   Peak Height (A): 0.049
ackground Pk Area (A-s): 0.044   Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.069
oncentration (ug/L): 46.6

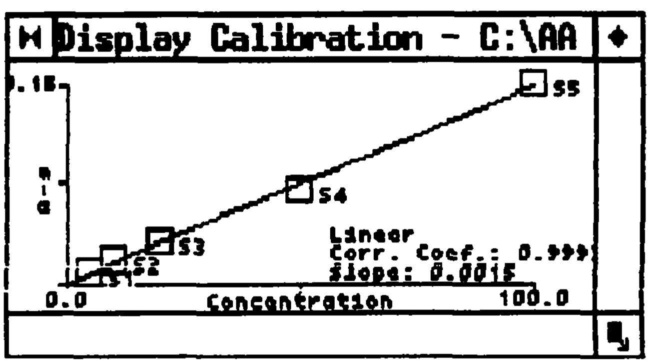
tandard number 4 applied. [50.0]
orrelation coefficient: 0.99899   Slope: 0.0014

---

e   ID: STD 100.0   Seq. No.: 00006   A/S Pos.: 5   Date: 11/21/94

dispensed: 10 from 40, 20 from 5
eplicate 1   Time: 18:11
eak Area (A-s): 0.148   Peak Height (A): 0.099
ackground Pk Area (A-s): 0.059   Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.148
oncentration (ug/L): 105.4

tandard number 5 applied. [100.0]
orrelation coefficient: 0.99930   Slope: 0.0015



---

e   ID: Reagent Blank   Seq. No.: 00007   A/S Pos.: 0   Date: 11/21/94

_ dispensed: 10 from 40, 20 from 0
eplicate 1   Time: 18:23
eak Area (A-s): -0.001   Peak Height (A): 0.006
ackground Pk Area (A-s): 0.035   Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.4

uto-zero performed.

---

e   ID: CHECK BLANK   Seq. No.: 00008   A/S Pos.: 0   Date: 11/21/94

L dispensed: 10 from 40, 20 from 0
eplicate 1   Time: 18:26

ackground Pk Area (A-s): 0.036   Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.4

. dispensed: 10 from 40, 20 from 0
eplicate 2   Time: 18:29
eak Area (A-s): -0.000   Peak Height (A): 0.004
ackground Pk Area (A-s): 0.033   Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.5

ean Conc (ug/L): 0.5   SD: 0.06   RSD(%): 12.92

) sample is within range -5 - 5

~~~~~~

ID: WP28#1   Seq. No.: 00009   A/S Pos.: 1   Date: 11/21/94

. dispensed: 10 from 40, 20 from 1
eplicate 1   Time: 18:32
eak Area (A-s): 0.021   Peak Height (A): 0.023
ackground Pk Area (A-s): 0.031   Background Pk Height (A): 0.020
ank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 15.3

. dispensed: 10 from 40, 20 from 1
eplicate 2   Time: 18:35
eak Area (A-s): 0.019   Peak Height (A): 0.023
ackground Pk Area (A-s): 0.025   Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 14.1

ean Conc (ug/L): 14.7   SD: 0.82   RSD(%): 5.57

) sample is within range 9.83 - 16.38

~~~~~~

ID: WP27#2   Seq. No.: 00010   A/S Pos.: 2   Date: 11/21/94

. dispensed: 10 from 40, 20 from 2

utosampler Loading Map
Element File: SEMKL.GEL   ID/Weight File: AFD02SE.IDW

Loc.	Concentration	Solutions
0		Calib. Blank / Reagent Blank / Diluent
1		WP28#1
2		WP27#2
3		ADF02953M
4		ADF02954G
5		ADF02005
6		ADF02005S
7		ADF02005W
8		NN101032F
9		NN101001
10		NN101002
11		NN101003

12	NN101004
13	NN101005
14	NN101021
15	NN101022
16	NN101022S
17	NN101022W
18	NN101023
19	NN101024
20	NN101025
21	NN101026
22	NN101026D
23	NN101027
24	NN101028
25	NN101029
26	NN101029S
27	NN101029W
28	NN101030
29	NN101030D
30	ADF04950M
31	ADF04025F
32	ADF04950G
33	ADF04022
34	ADF04023
35	ADF04024
36	ADF04026
37	ADF04026S
38	ADF04026W
40	Modifier 1

e ID: CHECK BLANK Seq. No.: 00011 A/S Pos.: 0 Date: 11/21/94

L dispensed: 10 from 40, 20 from 0
eplicate 1 Time: 18:40
eak Area (A-s): -0.002 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.027 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

L dispensed: 10 from 40, 20 from 0
eplicate 2 Time: 18:43
eak Area (A-s): -0.002 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.9

```
ean Conc  (ug/L  ):         [illegible]          SD: [illegible]                 RSD(%): [illegible]

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
e     ID: WP28#1              Seq. No.: 00012    A/S Pos.: 1     Date: 11/21/94

L dispensed: 10 from 40, 20 from 1
eplicate  1                            Time: 18:46
eak Area (A-s): 0.020                  Peak Height (A): 0.022
ackground Pk Area (A-s): 0.024         Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L  ): 14.1

L dispensed: 10 from 40, 20 from 1
eplicate  2                            Time: 18:49
eak Area (A-s): 0.021                  Peak Height (A): 0.023
ackground Pk Area (A-s): 0.020         Background Pk Height (A): 0.016
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L  ): 15.0

ean Conc  (ug/L  ):         14.5          SD: 0.67                 RSD(%): 4.58

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
e     ID: WP27#2              Seq. No.: 00013    A/S Pos.: 2     Date: 11/21/94

L dispensed: 10 from 40, 20 from 2
eplicate  1                            Time: 18:52
eak Area (A-s): 0.063                  Peak Height (A): 0.065
ackground Pk Area (A-s): 0.033         Background Pk Height (A): 0.021
lank Corrected Pk Area (A-s): 0.064
oncentration (ug/L  ): 43.6

L dispensed: 10 from 40, 20 from 2
eplicate  2                            Time: 18:55
eak Area (A-s): 0.059                  Peak Height (A): 0.064
ackground Pk Area (A-s): 0.041         Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.059
oncentration (ug/L  ): 40.5

ean Conc  (ug/L  ):         42.1          SD: 2.13                 RSD(%): 5.07

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
e     ID: Reagent Blank       Seq. No.: 00014    A/S Pos.: 0     Date: 11/21/94

L dispensed: 10 from 40, 20 from 0
eplicate  1                            Time: 18:57
eak Area (A-s): -0.000                 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.024         Background Pk Height (A): 0.021
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L  ): 0.4

uto-zero performed.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
e     ID: ADF02953M           Seq. No.: 00015    A/S Pos.: 3     Date: 11/21/94

L dispensed: 10 from 40, 20 from 3
eplicate  1                            Time: 19:00
```

oncentration (ug/L): -0.6

ean Conc (ug/L): -0.5 SD: 0.12 RSD(%): 22.63

~~~~~~

e ID: NN101003 Seq. No.: 00026 A/S Pos.: 11 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 11
eplicate 1 Time: 19:57
eak Area (A-s): -0.002 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.117 Background Pk Height (A): 0.099
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.4

_ dispensed: 10 from 40, 20 from 11
eplicate 2 Time: 20:00
eak Area (A-s): 0.000 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.119 Background Pk Height (A): 0.106
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.1

ean Conc (ug/L): -0.6 SD: 1.03 RSD(%): 161.12

~~~~~~

e ID: CHECK BLANK Seq. No.: 00027 A/S Pos.: 0 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 0
eplicate 1 Time: 20:03
eak Area (A-s): -0.001 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.5

_ dispensed: 10 from 40, 20 from 0
eplicate 2 Time: 20:05
eak Area (A-s): -0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.1

ean Conc (ug/L): -0.3 SD: 0.28 RSD(%): 87.26

C sample is within range -5 - 5

~~~~~~

e ID: WP28#1 Seq. No.: 00028 A/S Pos.: 1 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 20:08
eak Area (A-s): 0.021 Peak Height (A): 0.024
ackground Pk Area (A-s): 0.019 Background Pk Height (A): 0.023
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 14.6

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 20:11
eak Area (A-s): 0.022 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): 0.022
~~~~~~

oncentration (ug/L): 14.8

ean Conc (ug/L): 14.7 SD: 0.20 RSD(%): 1.39

sample is within range 9.83 - 16.38

~~~~~~

e ID: WP27#2 Seq. No.: 00029 A/S Pos.: 2 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 20:14
eak Area (A-s): 0.060 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.060
oncentration (ug/L): 40.7

_ dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 20:17
eak Area (A-s): 0.060 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.037 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.060
oncentration (ug/L): 41.1

ean Conc (ug/L): 40.9 SD: 0.31 RSD(%): 0.75

sample is within range 30.9 - 51.5

~~~~~~

e ID: NN101004 Seq. No.: 00030 A/S Pos.: 12 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 12
eplicate 1 Time: 20:20
eak Area (A-s): 0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.010 Background Pk Height (A): 0.016
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.9

_ dispensed: 10 from 40, 20 from 12
eplicate 2 Time: 20:23
eak Area (A-s): -0.000 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.013 Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): 0.000

oncentration (ug/L): 0.1

ean Conc (ug/L): 0.5 SD: 0.62 RSD(%): 123.95

~~~~~~

e ID: NN101005 Seq. No.: 00031 A/S Pos.: 13 Date: 11/21/94

_ dispensed: 10 from 40, 20 from 13
eplicate 1 Time: 20:26
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.101 Background Pk Height (A): 0.083
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

L dispensed: 10 from 40, 20 from 13
eplicate 2 Time: 20:29
eak Area (A-s): 0.000 Peak Height (A): 0.005
~~~~~~

ean Conc (ug/L): -1.3 SD: 0.10 RSD(%): 8.35

~~~~~~

e ID: NN101029S Seq. No.: 00044 A/S Pos.: 26 Date: 11/21/94

. dispensed: 10 from 40, 20 from 26
eplicate 1 Time: 21:41
eak Area (A-s): 0.064 Peak Height (A): 0.058
ackground Pk Area (A-s): 0.111 Background Pk Height (A): 0.115
lank Corrected Pk Area (A-s): 0.064
oncentration (ug/L): 43.8

. dispensed: 10 from 40, 20 from 26
eplicate 2 Time: 21:44
eak Area (A-s): 0.069 Peak Height (A): 0.062
ackground Pk Area (A-s): 0.111 Background Pk Height (A): 0.111
lank Corrected Pk Area (A-s): 0.069
oncentration (ug/L): 47.4

ean Conc (ug/L): 45.6 SD: 2.50 RSD(%): 5.49

~~~~~~

e ID: CHECK BLANK Seq. No.: 00045 A/S Pos.: 0 Date: 11/21/94

. dispensed: 10 from 40, 20 from 0
eplicate 1 Time: 21:47
eak Area (A-s): -0.000 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.013 Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.3

. dispensed: 10 from 40, 20 from 0
eplicate 2 Time: 21:49
eak Area (A-s): -0.002 Peak Height (A): 0.003
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -1.0

ean Conc (ug/L): -0.6 SD: 0.53 RSD(%): 83.83

C sample is within range -5 - 5

~~~~~~

e ID: WP28#1 Seq. No.: 00046 A/S Pos.: 1 Date: 11/21/94

. dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 21:52
eak Area (A-s): 0.020 Peak Height (A): 0.026
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.020
oncentration (ug/L): 13.7

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 21:55
eak Area (A-s): 0.020 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.020 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): 0.020
oncentration (ug/L): 14.0
~~~~~~

ean Conc (ug/L): 13.8 SD: 0.20 RSD(%): 1.41

: sample is within range 9.83 - 16.38

~~~~~~

e ID: WP27#2 Seq. No.: 00047 A/S Pos.: 2 Date: 11/21/94

. dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 21:58
eak Area (A-s): 0.062 Peak Height (A): 0.076
ackground Pk Area (A-s): 0.029 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.062
oncentration (ug/L): 42.1

. dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 22:01
eak Area (A-s): 0.055 Peak Height (A): 0.056
ackground Pk Area (A-s): 0.030 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.055
oncentration (ug/L): 37.7

ean Conc (ug/L): 39.9 SD: 3.10 RSD(%): 7.77

: sample is within range 30.9 - 51.5

~~~~~~

e ID: NN101029W Seq. No.: 00048 A/S Pos.: 27 Date: 11/21/94

. dispensed: 10 from 40, 20 from 27
eplicate 1 Time: 22:04
eak Area (A-s): 0.065 Peak Height (A): 0.055
ackground Pk Area (A-s): 0.104 Background Pk Height (A): 0.111
lank Corrected Pk Area (A-s): 0.065
oncentration (ug/L): 44.2

. dispensed: 10 from 40, 20 from 27
eplicate 2 Time: 22:07
eak Area (A-s): 0.051 Peak Height (A): 0.037
ackground Pk Area (A-s): 0.110 Background Pk Height (A): 0.120
lank Corrected Pk Area (A-s): 0.051
oncentration (ug/L): 34.9

ean Conc (ug/L): 39.6 SD: 6.58 RSD(%): 16.63

~~~~~~

e ID: NN101030 Seq. No.: 00049 A/S Pos.: 28 Date: 11/21/94

. dispensed: 10 from 40, 20 from 28
eplicate 1 Time: 22:10
eak Area (A-s): -0.002 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.088 Background Pk Height (A): 0.113
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.0

. dispensed: 10 from 40, 20 from 28
eplicate 2 Time: 22:13
eak Area (A-s): -0.002 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.090 Background Pk Height (A): 0.115
lank Corrected Pk Area (A-s): -0.002
~~~~~~

oncentration (ug/L): -1.0

ean Conc (ug/L): -1.0 SD: 0.01 RSD(%): 0.94

~~~~~~

e ID: NN101030D Seq. No.: 00050 A/S Pos.: 29 Date: 11/21/94

- dispensed: 10 from 40, 20 from 29
eplicate 1 Time: 22:16
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.108 Background Pk Height (A): 0.088
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

- dispensed: 10 from 40, 20 from 29
eplicate 2 Time: 22:19
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.096 Background Pk Height (A): 0.119
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

ean Conc (ug/L): -0.6 SD: 0.02 RSD(%): 3.53

~~~~~~

e ID: ADF04950M Seq. No.: 00051 A/S Pos.: 30 Date: 11/21/94

- dispensed: 10 from 40, 20 from 30
eplicate 1 Time: 22:22
eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.023 Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.3

- dispensed: 10 from 40, 20 from 30
eplicate 2 Time: 22:24
eak Area (A-s): -0.002 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.024 Background Pk Height (A): 0.020
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.4

ean Conc (ug/L): -0.5 SD: 1.23 RSD(%): 224.33

~~~~~~

e ID: ADF04025F Seq. No.: 00052 A/S Pos.: 31 Date: 11/21/94

- dispensed: 10 from 40, 20 from 31
eplicate 1 Time: 22:27
eak Area (A-s): -0.001 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.4

L dispensed: 10 from 40, 20 from 31
eplicate 2 Time: 22:30
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7
~~~~~~

ean Conc (ug/L): -0.5 SD: 0.19 RSD(%): 36.57

~~~~~~

e ID: ADF04950G Seq. No.: 00053 A/S Pos.: 32 Date: 11/21/94

L dispensed: 10 from 40, 20 from 32
eplicate 1 Time: 22:33
eak Area (A-s): 0.069 Peak Height (A): 0.063
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.069
oncentration (ug/L): 47.0

L dispensed: 10 from 40, 20 from 32
eplicate 2 Time: 22:36
eak Area (A-s): 0.069 Peak Height (A): 0.063
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.070
oncentration (ug/L): 47.5

ean Conc (ug/L): 47.2 SD: 0.29 RSD(%): 0.61

~~~~~~

e ID: ADF04022 Seq. No.: 00054 A/S Pos.: 33 Date: 11/21/94

L dispensed: 10 from 40, 20 from 33
eplicate 1 Time: 22:39
eak Area (A-s): -0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.0

L dispensed: 10 from 40, 20 from 33
eplicate 2 Time: 22:41
eak Area (A-s): -0.001 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.024 Background Pk Height (A): 0.023
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.8

ean Conc (ug/L): -0.4 SD: 0.60 RSD(%): 158.41

~~~~~~

e ID: ADF04023 Seq. No.: 00055 A/S Pos.: 34 Date: 11/21/94

L dispensed: 10 from 40, 20 from 34
eplicate 1 Time: 22:44
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.067 Background Pk Height (A): 0.050
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.9

L dispensed: 10 from 40, 20 from 34
eplicate 2 Time: 22:47
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.070 Background Pk Height (A): 0.050
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6
~~~~~~

ean Conc (ug/L): -0.8 SD: 0.23 RSD(%): 30.40

~~~~~~

e ID: ADF04024 Seq. No.: 00056 A/S Pos.: 35 Date: 11/21/94

L dispensed: 10 from 40, 20 from 35
eplicate 1 Time: 22:50
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.4

L dispensed: 10 from 40, 20 from 35
eplicate 2 Time: 22:53
eak Area (A-s): -0.002 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.030
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.1

ean Conc (ug/L): -0.7 SD: 0.48 RSD(%): 66.59

~~~~~~

e ID: ADF04026 Seq. No.: 00057 A/S Pos.: 36 Date: 11/21/94

L dispensed: 10 from 40, 20 from 36
eplicate 1 Time: 22:56
eak Area (A-s): -0.002 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -1.0

L dispensed: 10 from 40, 20 from 36
eplicate 2 Time: 22:59
eak Area (A-s): -0.002 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.036 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.3

ean Conc (ug/L): -1.1 SD: 0.18 RSD(%): 15.46

~~~~~~

e ID: ADF04026S Seq. No.: 00058 A/S Pos.: 37 Date: 11/21/94

L dispensed: 10 from 40, 20 from 37
eplicate 1 Time: 23:02
eak Area (A-s): 0.065 Peak Height (A): 0.058
ackground Pk Area (A-s): 0.041 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.065
oncentration (ug/L): 44.4

L dispensed: 10 from 40, 20 from 37
eplicate 2 Time: 23:04
eak Area (A-s): 0.064 Peak Height (A): 0.061
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.064
oncentration (ug/L): 43.9
~~~~~~

ean Conc (ug/L): 44.1 SD: 0.35 RSD(%): 0.78

~~~~~~

e ID: ADF04026W Seq. No.: 00059 A/S Pos.: 38 Date: 11/21/94

L dispensed: 10 from 40, 20 from 38
eplicate 1 Time: 23:07
eak Area (A-s): 0.061 Peak Height (A): 0.063
ackground Pk Area (A-s): 0.039 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.062
oncentration (ug/L): 42.0

L dispensed: 10 from 40, 20 from 38
eplicate 2 Time: 23:10
eak Area (A-s): 0.061 Peak Height (A): 0.062
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.041
lank Corrected Pk Area (A-s): 0.061
oncentration (ug/L): 41.5

ean Conc (ug/L): 41.7 SD: 0.32 RSD(%): 0.77

~~~~~~

e ID: CHECK BLANK Seq. No.: 00060 A/S Pos.: 0 Date: 11/21/94

L dispensed: 10 from 40, 20 from 0
eplicate 1 Time: 23:13
eak Area (A-s): -0.000 Peak Height (A): 0.004
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.2

L dispensed: 10 from 40, 20 from 0
eplicate 2 Time: 23:16
eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.6

ean Conc (ug/L): -0.4 SD: 0.34 RSD(%): 85.83

C sample is within range -5 - 5

~~~~~~

e ID: WP28#1 Seq. No.: 00061 A/S Pos.: 1 Date: 11/21/94

L dispensed: 10 from 40, 20 from 1
eplicate 1 Time: 23:19
eak Area (A-s): 0.021 Peak Height (A): 0.027
ackground Pk Area (A-s): 0.022 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 14.1

L dispensed: 10 from 40, 20 from 1
eplicate 2 Time: 23:22
eak Area (A-s): 0.021 Peak Height (A): 0.028
ackground Pk Area (A-s): 0.023 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 14.2
~~~~~~

ean Conc (ug/L): 14.1 SD: 0.08 RSD(%): 0.55

C sample is within range 9.83 - 16.38

~~~~~~

e ID: WP27#2 Seq. No.: 00062 A/S Pos.: 2 Date: 11/21/94

L dispensed: 10 from 40, 20 from 2
eplicate 1 Time: 23:25
eak Area (A-s): 0.059 Peak Height (A): 0.071
ackground Pk Area (A-s): 0.030 Background Pk Height (A): 0.029
lank Corrected Pk Area (A-s): 0.059
oncentration (ug/L): 40.5

L dispensed: 10 from 40, 20 from 2
eplicate 2 Time: 23:28
eak Area (A-s): 0.058 Peak Height (A): 0.065
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.031
lank Corrected Pk Area (A-s): 0.058
oncentration (ug/L): 39.8

ean Conc (ug/L): 40.1 SD: 0.47 RSD(%): 1.18

C sample is within range 30.9 - 51.5

~~~~~~

e ID: NN101022S Seq. No.: 00063 A/S Pos.: 16 Date: 11/22/94

L dispensed: 10 from 40, 20 from 16
eplicate 1 Time: 07:36
eak Area (A-s): 0.065 Peak Height (A): 0.053
ackground Pk Area (A-s): 0.093 Background Pk Height (A): 0.075
lank Corrected Pk Area (A-s): 0.065
oncentration (ug/L): 44.5

~~~~~~

e ID: NN101022W Seq. No.: 00064 A/S Pos.: 17 Date: 11/22/94

L dispensed: 10 from 40, 20 from 17
eplicate 1 Time: 07:38
eak Area (A-s): 0.074 Peak Height (A): 0.059
ackground Pk Area (A-s): 0.096 Background Pk Height (A): 0.093

lank Corrected Pk Area (A-s): 0.074
oncentration (ug/L): 50.4

~~~~~~

e ID: NN101022S Seq. No.: 00065 A/S Pos.: 16 Date: 11/22/94

L dispensed: 10 from 40, 20 from 16
eplicate 1 Time: 07:42
eak Area (A-s): 0.074 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.086 Background Pk Height (A): 0.083
lank Corrected Pk Area (A-s): 0.074
oncentration (ug/L): 50.8

L dispensed: 10 from 40, 20 from 16
eplicate 2 Time: 07:45
eak Area (A-s): 0.074 Peak Height (A): 0.059
ackground Pk Area (A-s): 0.087 Background Pk Height (A): 0.089

ADF04
waters

TOTAL Al BY AA

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION: none

utosampler Loading Map
Element File: TLESAT.GEL ID/Weight File: ADF02TL.IDW

Loc.	Concentration	Solutions
0		Calib. Blank / Reagent Blank / Diluent
1	5.0 ug/L	Stock / BLANK
2	10.0 ug/L	Stock / WP24 #4
3	50.0 ug/L	ADF02953M / Stock / WS27 #2
4	100.0 ug/L	ADF02954G / Stock
5		ADF02005
6		ADF02005S
7		ADF02005W
8		NN101032F
9		NN101001
10		NN101002
11		NN101003
12		NN101004
13		NN101005
14		NN101021
15		NN101022
16		NN101022S
17		NN101022W
18		NN101023
19		NN101024
20		NN101025
21		NN101026
22		NN101026D
23		NN101027
24		NN101028
25		NN101029
26		NN101029S
27		NN101029W
28		NN101030
29		NN101030D
30		ADF04950M
31		ADF04025F
32		ADF04950G
33		ADF04022
34		ADF04023
35		ADF04024
36		ADF04026
37		ADF04026S
38		ADF04026W
40		Modifier 1

eak Area (A-s): -0.004 Peak Height (A): 0.006
ackground Pk Area (A-s): -0.003 Background Pk Height (A): 0.005
lank Corrected Pk Area (A-s): -0.005
oncentration (ug/L): -6.8

---

lement File: TLESAT.GEL	Element: Tl	Wavelength: 276.8
ate: 11/29/94	Time: 17:33	Slit: 0.70 L
ata File: ADF02TL.DAT	ID/Wt File: ADF02TL.IDW	Lamp Current: 0
echnique: HGA	Calib. Type: Linear	Energy: 62

ıL dispensed: 20 from 40, 15 from 1
Replicate 1 Time: 17:37
Peak Area (A-s): -0.001 Peak Height (A): 0.007
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -3.0

QC sample is within range -5 - 5

~~~~~~

1 ID: WP24 #4 Seq. No.: 00028 A/S Pos.: 2 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 2

~~~~~~

1 ID: BLANK Seq. No.: 00029 A/S Pos.: 0 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 0
Replicate 1 Time: 17:43
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -3.9

Auto-zero performed.

~~~~~~

1 ID: STD 5 Seq. No.: 00030 A/S Pos.: 1 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 1
Replicate 1 Time: 17:46
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 1.3

An error has occurred in the least squares routine.

~~~~~~

1 ID: STD 10 Seq. No.: 00031 A/S Pos.: 2 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 2
Replicate 1 Time: 17:50
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.013

Standard number 2 applied. [10.0]
Correlation coefficient: 1.00000 Slope: 0.0013

~~~~~~

1 ID: STD 50 Seq. No.: 00032 A/S Pos.: 3 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 3
Replicate 1 Time: 17:54
Peak Area (A-s): 0.052 Peak Height (A): 0.067
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.055
~~~~~~

oncentration (ug/L): 41.3

tandard number 3 applied. [50.0]
orrelation coefficient: 0.99737 Slope: 0.0011

~~~
~~~

oncentration (ug/L): 1.2

uto-zero performed.

~~~~~~

1 ID: BLANK Seq. No.: 00037 A/S Pos.: 1 Date: 11/29/94

L dispensed: 20 from 40, 15 from 1
eplicate 1 Time: 18:21
eak Area (A-s): -0.003 Peak Height (A): 0.011
ackground Pk Area (A-s): 0.007 Background Pk Height (A): 0.009
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7

L dispensed: 20 from 40, 15 from 1
eplicate 2 Time: 18:25
eak Area (A-s): -0.003 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.008 Background Pk Height (A): 0.008
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7

ean Conc (ug/L): -0.7 SD: 0.03 RSD(%): 4.14

C sample is within range -5 - 5

~~~~~~

1 ID: WP24 #4 Seq. No.: 00038 A/S Pos.: 2 Date: 11/29/94

L dispensed: 20 from 40, 15 from 2
eplicate 1 Time: 18:29
eak Area (A-s): 0.098 Peak Height (A): 0.118
ackground Pk Area (A-s): 0.062 Background Pk Height (A): 0.064
lank Corrected Pk Area (A-s): 0.099
oncentration (ug/L): 88.3

L dispensed: 20 from 40, 15 from 2
eplicate 2 Time: 18:32
eak Area (A-s): 0.097 Peak Height (A): 0.118
ackground Pk Area (A-s): 0.063 Background Pk Height (A): 0.068
lank Corrected Pk Area (A-s): 0.099
oncentration (ug/L): 88.0

ean Conc (ug/L): 88.1 SD: 0.22 RSD(%): 0.25

C sample is within range 63.8 - 106.3

~~~~~~

1 ID: WS27 #2 Seq. No.: 00039 A/S Pos.: 39 Date: 11/29/94

L dispensed: 20 from 40, 15 from 39
eplicate 1 Time: 18:36

eak Area (A-s): 0.032 Peak Height (A): 0.040
ackground Pk Area (A-s): 0.027 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.033
oncentration (ug/L): 29.7

L dispensed: 20 from 40, 15 from 39
eplicate 2 Time: 18:39
eak Area (A-s): 0.033 Peak Height (A): 0.037
~~~~~~

ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.025
lank Corrected Pk Area (A-s): 0.034
oncentration (ug/L): 30.4

ean Conc (ug/L): 30.0 SD: 0.50 RSD(%): 1.66

C sample is within range 20.2 - 33.6

---

1 ID: ADF02953M Seq. No.: 00040 A/S Pos.: 3 Date: 11/29/94

L dispensed: 20 from 40, 15 from 3
eplicate 1 Time: 18:43
eak Area (A-s): -0.004 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.023 Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -1.6

L dispensed: 20 from 40, 15 from 3
eplicate 2 Time: 18:47
eak Area (A-s): 0.005 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): 0.006
oncentration (ug/L): 5.6

ean Conc (ug/L): 2.0 SD: 5.04 RSD(%): 252.91

---

1 ID: ADF02954G Seq. No.: 00041 A/S Pos.: 4 Date: 11/29/94

L dispensed: 20 from 40, 15 from 4
eplicate 1 Time: 18:50
eak Area (A-s): 0.096 Peak Height (A): 0.111
ackground Pk Area (A-s): 0.077 Background Pk Height (A): 0.068
lank Corrected Pk Area (A-s): 0.097
oncentration (ug/L): 86.5

L dispensed: 20 from 40, 15 from 4
eplicate 2 Time: 18:54
eak Area (A-s): 0.098 Peak Height (A): 0.123
ackground Pk Area (A-s): 0.092 Background Pk Height (A): 0.073
lank Corrected Pk Area (A-s): 0.100
oncentration (ug/L): 88.4

ean Conc (ug/L): 87.5 SD: 1.37 RSD(%): 1.57

---

1 ID: ADF02005 Seq. No.: 00042 A/S Pos.: 5 Date: 11/29/94

L dispensed: 20 from 40, 15 from 5
eplicate 1 Time: 18:58

eak Area (A-s): -0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.022 Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.4

L dispensed: 20 from 40, 15 from 5
eplicate 2 Time: 19:01

1 ID: BLANK Seq. No.: 00052 A/S Pos.: 1 Date: 11/29/94

L dispensed: 20 from 40, 15 from 1
eplicate 1 Time: 20:11
eak Area (A-s): 0.001 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.013 Background Pk Height (A): 0.010
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.3

L dispensed: 20 from 40, 15 from 1
eplicate 2 Time: 20:14
eak Area (A-s): -0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.013 Background Pk Height (A): 0.010
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.7

ean Conc (ug/L): 1.5 SD: 1.16 RSD(%): 78.85

C sample is within range -5 - 5

~~~~~~

1 ID: WP24 #4 Seq. No.: 00053 A/S Pos.: 2 Date: 11/29/94

L dispensed: 20 from 40, 15 from 2
eplicate 1 Time: 20:18
eak Area (A-s): 0.082 Peak Height (A): 0.111
ackground Pk Area (A-s): 0.065 Background Pk Height (A): 0.070
lank Corrected Pk Area (A-s): 0.084
oncentration (ug/L): 74.8

L dispensed: 20 from 40, 15 from 2
eplicate 2 Time: 20:22
eak Area (A-s): 0.082 Peak Height (A): 0.108
ackground Pk Area (A-s): 0.065 Background Pk Height (A): 0.068
lank Corrected Pk Area (A-s): 0.084
oncentration (ug/L): 74.7

ean Conc (ug/L): 74.7 SD: 0.04 RSD(%): 0.06

C sample is within range 63.8 - 106.3

~~~~~~

1 ID: WS27 #2 Seq. No.: 00054 A/S Pos.: 39 Date: 11/29/94

L dispensed: 20 from 40, 15 from 39
eplicate 1 Time: 20:25
eak Area (A-s): 0.025 Peak Height (A): 0.038
ackground Pk Area (A-s): 0.033 Background Pk Height (A): 0.024
lank Corrected Pk Area (A-s): 0.027
oncentration (ug/L): 24.0

L dispensed: 20 from 40, 15 from 39
eplicate_ 2 Time: 20:29
eak Area (A-s): 0.026 Peak Height (A): 0.039
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.028
oncentration (ug/L): 24.5

ean Conc (ug/L): [illegible] SD: [illegible] RSD(%): [illegible]

C sample is within range 20.2 - 33.6

1 ID: NN101022 Seq. No.: 00055 A/S Pos.: 15 Date: 11/29/94

L dispensed: 20 from 40, 15 from 15
eplicate 1 Time: 20:32
eak Area (A-s): -0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.021 Background Pk Height (A): 0.012
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.7

L dispensed: 20 from 40, 15 from 15
eplicate 2 Time: 20:36
eak Area (A-s): -0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.016 Background Pk Height (A): 0.012
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.2

ean Conc (ug/L): -0.2 SD: 0.70 RSD(%): 287.18

1 ID: NN101022S Seq. No.: 00056 A/S Pos.: 16 Date: 11/29/94

L dispensed: 20 from 40, 15 from 16
eplicate 1 Time: 20:39
eak Area (A-s): 0.076 Peak Height (A): 0.123
ackground Pk Area (A-s): 0.072 Background Pk Height (A): 0.080
lank Corrected Pk Area (A-s): 0.078
oncentration (ug/L): 69.5

L dispensed: 20 from 40, 15 from 16
eplicate 2 Time: 20:43
eak Area (A-s): 0.074 Peak Height (A): 0.117
ackground Pk Area (A-s): 0.076 Background Pk Height (A): 0.080
lank Corrected Pk Area (A-s): 0.076
oncentration (ug/L): 67.7

ean Conc (ug/L): 68.6 SD: 1.26 RSD(%): 1.84

1 ID: NN101022W Seq. No.: 00057 A/S Pos.: 17 Date: 11/29/94

L dispensed: 20 from 40, 15 from 17
eplicate 1 Time: 20:46
eak Area (A-s): 0.075 Peak Height (A): 0.122
ackground Pk Area (A-s): 0.072 Background Pk Height (A): 0.080
lank Corrected Pk Area (A-s): 0.077
oncentration (ug/L): 68.4

L dispensed: 20 from 40, 15 from 17
eplicate 2 Time: 20:50
eak Area (A-s): 0.072 Peak Height (A): 0.116
ackground Pk Area (A-s): 0.079 Background Pk Height (A): 0.082
lank Corrected Pk Area (A-s): 0.073
oncentration (ug/L): 65.2

Mean Conc (ug/L): 66.8 SD: 2.2[illegible] RSD(%): 3.4[illegible]

ackground Pk Area (A-s): 0.068 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.079
oncentration (ug/L): 70.3

L dispensed: 20 from 40, 15 from 27
eplicate 2 Time: 22:03
eak Area (A-s): 0.076 Peak Height (A): 0.121
ackground Pk Area (A-s): 0.068 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.077
oncentration (ug/L): 68.8

ean Conc (ug/L): 69.6 SD: 1.06 RSD(%): 1.53

~~~~~~

1 ID: NN101030 Seq. No.: 00068 A/S Pos.: 28 Date: 11/29/94

L dispensed: 20 from 40, 15 from 28
eplicate 1 Time: 22:06
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.017 Background Pk Height (A): 0.013
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.3

L dispensed: 20 from 40, 15 from 28
eplicate 2 Time: 22:10
eak Area (A-s): -0.000 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.015 Background Pk Height (A): 0.014
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.3

ean Conc (ug/L): 0.5 SD: 1.18 RSD(%): 233.76

~~~~~~

1 ID: NN101030D Seq. No.: 00069 A/S Pos.: 29 Date: 11/29/94

L dispensed: 20 from 40, 15 from 29
eplicate 1 Time: 22:14
eak Area (A-s): 0.002 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.011
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 3.1

L dispensed: 20 from 40, 15 from 29
eplicate 2 Time: 22:17
eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.009
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.6

ean Conc (ug/L): 2.3 SD: 1.06 RSD(%): 45.57

~~~~~~

1 ID: ADF04950M Seq. No.: 00070 A/S Pos.: 30 Date: 11/29/94

L dispensed: 20 from 40, 15 from 30
Replicate 1 Time: 22:21
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.001
~~~~~~

:oncentration (ug/L): 0.4

ıL dispensed: 20 from 40, 15 from 30
:eplicate 2 Time: 22:24
'eak Area (A-s): 0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.022 Background Pk Height (A): 0.013
ılank Corrected Pk Area (A-s): 0.003
:oncentration (ug/L): 2.7

lean Conc (ug/L): 1.5 SD: 1.56 RSD(%): 100.47

~~~~~~

'1 ID: ADF04025F Seq. No.: 00071 A/S Pos.: 31 Date: 11/29/94

:L dispensed: 20 from 40, 15 from 31
:eplicate 1 Time: 22:28
'eak Area (A-s): -0.001 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.011
ılank Corrected Pk Area (A-s): 0.000
:oncentration (ug/L): 0.4

ıL dispensed: 20 from 40, 15 from 31
:eplicate 2 Time: 22:31
'eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.017
ılank Corrected Pk Area (A-s): 0.002
:oncentration (ug/L): 1.8

lean Conc (ug/L): 1.1 SD: 0.94 RSD(%): 85.24

~~~~~~

'1 ID: ADF04950G Seq. No.: 00072 A/S Pos.: 32 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 32
:eplicate 1 Time: 22:35
'eak Area (A-s): 0.038 Peak Height (A): 0.064
ackground Pk Area (A-s): 0.049 Background Pk Height (A): 0.042
ılank Corrected Pk Area (A-s): 0.040
:oncentration (ug/L): 35.2

:L dispensed: 20 from 40, 15 from 32
:eplicate 2 Time: 22:39
'eak Area (A-s): 0.038 Peak Height (A): 0.061
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.040
ılank Corrected Pk Area (A-s): 0.040
:oncentration (ug/L): 35.1

lean Conc (ug/L): 35.1 SD: 0.04 RSD(%): 0.13

~~~~~~

'1 ID: ADF04022 Seq. No.: 00073 A/S Pos.: 33 Date: 11/29/94

ıL dispensed: 20 from 40, 15 from 33
Replicate 1 Time: 22:42
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.015
~~~~~~

oncentration (ug/L): 0.2

L dispensed: 20 from 40, 15 from 33
eplicate 2 Time: 22:46
eak Area (A-s): 0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.016
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.7

ean Conc (ug/L): 1.4 SD: 1.75 RSD(%): 123.32

~~~~~~

1 ID: ADF04023 Seq. No.: 00074 A/S Pos.: 34 Date: 11/29/94

L dispensed: 20 from 40, 15 from 34
eplicate 1 Time: 22:49
eak Area (A-s): 0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 1.9

L dispensed: 20 from 40, 15 from 34
eplicate 2 Time: 22:53
eak Area (A-s): -0.003 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -1.3

ean Conc (ug/L): 0.3 SD: 2.23 RSD(%): 775.99

~~~~~~

1 ID: ADF04024 Seq. No.: 00075 A/S Pos.: 35 Date: 11/29/94

L dispensed: 20 from 40, 15 from 35
eplicate 1 Time: 22:56
eak Area (A-s): -0.002 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.5

L dispensed: 20 from 40, 15 from 35
eplicate 2 Time: 23:00
eak Area (A-s): -0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.025 Background Pk Height (A): 0.014
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.6

ean Conc (ug/L): 0.1 SD: 0.75 RSD(%): 1480.76

~~~~~~

1 ID: ADF04026 Seq. No.: 00076 A/S Pos.: 36 Date: 11/29/94

L dispensed: 20 from 40, 15 from 36
eplicate 1 Time: 23:03
eak Area (A-s): 0.001 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): 0.003
~~~~~~

oncentration (ug/L): 2.4

L dispensed: 20 from 40, 15 from 36
eplicate 2 Time: 23:07
eak Area (A-s): 0.002 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.022
lank Corrected Pk Area (A-s): 0.004
oncentration (ug/L): 3.3

ean Conc (ug/L): 2.8 SD: 0.66 RSD(%): 23.05

~~~~~~

1 ID: ADF04026S Seq. No.: 00077 A/S Pos.: 37 Date: 11/29/94

L dispensed: 20 from 40, 15 from 37
eplicate 1 Time: 23:11
eak Area (A-s): 0.034 Peak Height (A): 0.063
ackground Pk Area (A-s): 0.056 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.036
oncentration (ug/L): 31.6

L dispensed: 20 from 40, 15 from 37
eplicate 2 Time: 23:14
eak Area (A-s): 0.041 Peak Height (A): 0.068
ackground Pk Area (A-s): 0.052 Background Pk Height (A): 0.042
lank Corrected Pk Area (A-s): 0.043
oncentration (ug/L): 38.2

ean Conc (ug/L): 34.9 SD: 4.65 RSD(%): 13.30

~~~~~~

1 ID: ADF04026W Seq. No.: 00078 A/S Pos.: 38 Date: 11/29/94

L dispensed: 20 from 40, 15 from 38
eplicate 1 Time: 23:18
eak Area (A-s): 0.035 Peak Height (A): 0.064
ackground Pk Area (A-s): 0.049 Background Pk Height (A): 0.040
lank Corrected Pk Area (A-s): 0.036
oncentration (ug/L): 32.4

L dispensed: 20 from 40, 15 from 38
eplicate 2 Time: 23:22
eak Area (A-s): 0.033 Peak Height (A): 0.062
ackground Pk Area (A-s): 0.047 Background Pk Height (A): 0.043
lank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 30.7

ean Conc (ug/L): 31.5 SD: 1.18 RSD(%): 3.74

~~~~~~

1 ID:_BLANK Seq. No.: 00079 A/S Pos.: 1 Date: 11/29/94

L dispensed: 20 from 40, 15 from 1
eplicate 1 Time: 23:25
eak Area (A-s): -0.001 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.016 Background Pk Height (A): 0.011
~~~~~~

oncentration (ug/L): 0.6

L dispensed: 20 from 40, 15 from 1
eplicate 2 Time: 23:29
eak Area (A-s): -0.003 Peak Height (A): 0.005
ackground Pk Area (A-s): 0.014 Background Pk Height (A): 0.009
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.8

ean Conc (ug/L): -0.1 SD: 0.99 RSD(%): 908.58

C sample is within range -5 - 5

~~~~~~

1 ID: WP24 #4 Seq. No.: 00080 A/S Pos.: 2 Date: 11/29/94

L dispensed: 20 from 40, 15 from 2
eplicate 1 Time: 23:33
eak Area (A-s): 0.065 Peak Height (A): 0.120
ackground Pk Area (A-s): 0.050 Background Pk Height (A): 0.076
lank Corrected Pk Area (A-s): 0.066
oncentration (ug/L): 58.9

L dispensed: 20 from 40, 15 from 2
eplicate 2 Time: 23:36
eak Area (A-s): 0.065 Peak Height (A): 0.118
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.076
lank Corrected Pk Area (A-s): 0.067
oncentration (ug/L): 59.5

ean Conc (ug/L): 59.2 SD: 0.42 RSD(%): 0.71

C sample is out of range 63.8 - 106.3

~~~~~~

1 ID: WS27 #2 Seq. No.: 00081 A/S Pos.: 39 Date: 11/29/94

L dispensed: 20 from 40, 15 from 39
eplicate 1 Time: 23:40
eak Area (A-s): 0.022 Peak Height (A): 0.040
ackground Pk Area (A-s): 0.024 Background Pk Height (A): 0.026
lank Corrected Pk Area (A-s): 0.023
oncentration (ug/L): 20.9

L dispensed: 20 from 40, 15 from 39
eplicate 2 Time: 23:43
eak Area (A-s): 0.024 Peak Height (A): 0.040
ackground Pk Area (A-s): 0.029 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): 0.026
oncentration (ug/L): 22.8

ean Conc (ug/L): 21.8 SD: 1.35 RSD(%): 6.19

C sample is within range 20.2 - 33.6

~~~~~~

1 ID: BLANK Seq. No.: 00082 A/S Pos.: 0 Date: 11/30/94

L dispensed: 20 from 40, 15 from 0
~~~~~~

eplicate 1 Time: 11:05
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 1.2

uto-zero performed.

~~~~~~

1 ID: STD 50 Seq. No.: 00083 A/S Pos.: 3 Date: 11/30/94

L dispensed: 20 from 40, 15 from 3
eplicate 1 Time: 11:08
eak Area (A-s): 0.030 Peak Height (A): 0.055
ackground Pk Area (A-s): 0.038 Background Pk Height (A): 0.036
lank Corrected Pk Area (A-s): 0.032
oncentration (ug/L): 28.4

easured resloped conc. differs (>20%) from entered value.

~~~~~~

1 ID: BLANK Seq. No.: 00084 A/S Pos.: 0 Date: 11/30/94

L dispensed: 20 from 40, 15 from 0
eplicate 1 Time: 11:40
eak Area (A-s): 0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.019 Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 2.8

uto-zero performed.

~~~~~~

1 ID: STD 50 Seq. No.: 00085 A/S Pos.: 3 Date: 11/30/94

L dispensed: 20 from 40, 15 from 3
eplicate 1 Time: 11:44
eak Area (A-s): 0.035 Peak Height (A): 0.059
ackground Pk Area (A-s): 0.040 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.034
oncentration (ug/L): 30.0

easured resloped conc. differs (>20%) from entered value.

~~~~~~

1 ID: ADF02953M Seq. No.: 00086 A/S Pos.: 3 Date: 11/30/94

L dispensed: 20 from 40, 15 from 3
eplicate 1 Time: 11:49
eak Area (A-s): -0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -2.1

L dispensed: 20 from 40, 15 from 3
eplicate_2 Time: 11:53
eak Area (A-s): 0.001 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.032 Background Pk Height (A): 0.017
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.8

ID: ADF04950G Seq. No.: 00087 A/S Pos.: 32 Date: 11/30/94

L dispensed: 20 from 40, 15 from 32
eplicate 1 Time: 11:56
eak Area (A-s): 0.051 Peak Height (A): 0.081
ackground Pk Area (A-s): 0.066 Background Pk Height (A): 0.053
lank Corrected Pk Area (A-s): 0.049
oncentration (ug/L): 43.8

L dispensed: 20 from 40, 15 from 32
eplicate 2 Time: 12:00
eak Area (A-s): 0.049 Peak Height (A): 0.084
ackground Pk Area (A-s): 0.061 Background Pk Height (A): 0.053
lank Corrected Pk Area (A-s): 0.048
oncentration (ug/L): 42.6

ean Conc (ug/L): 43.2 SD: 0.88 RSD(%): 2.04

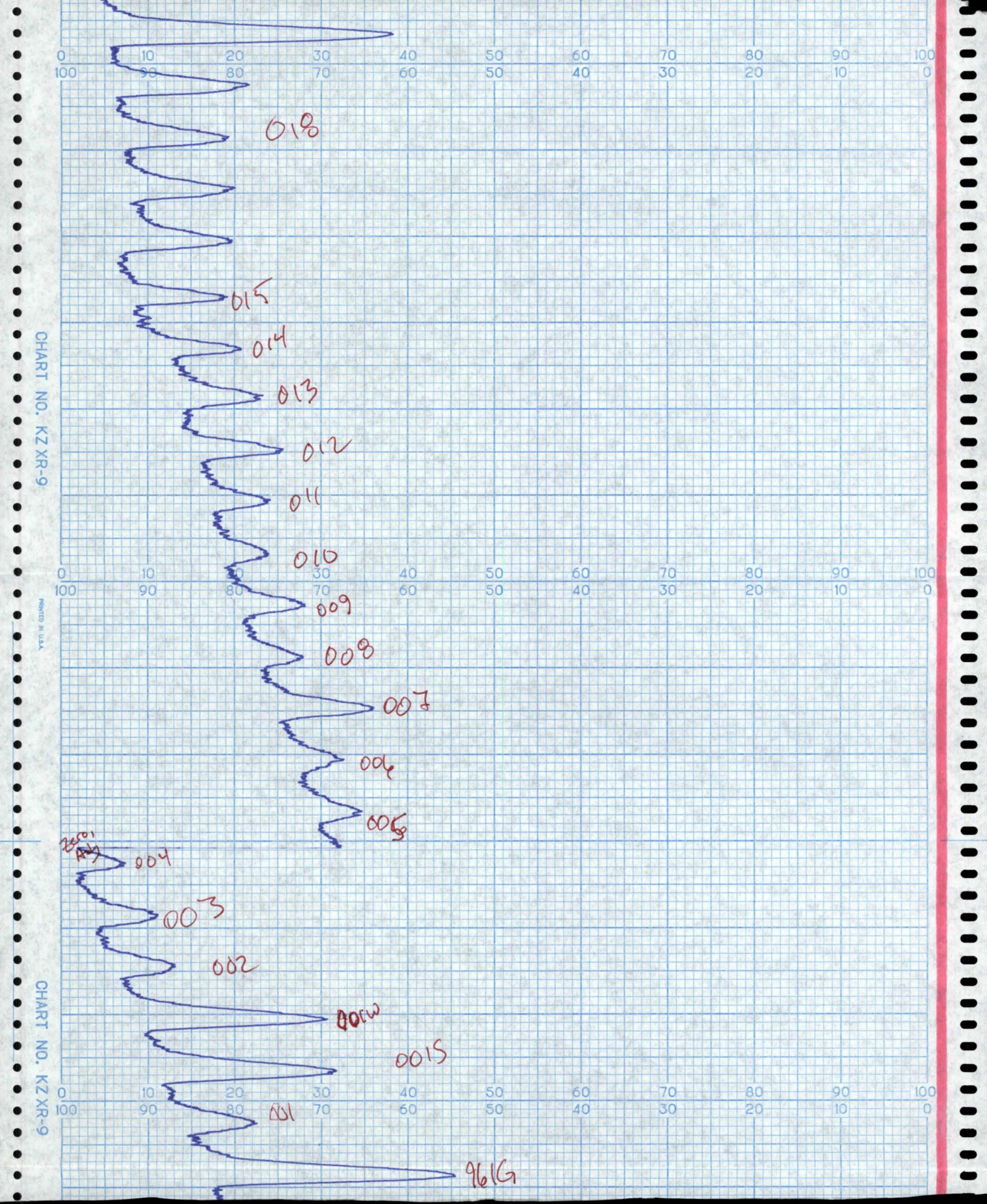
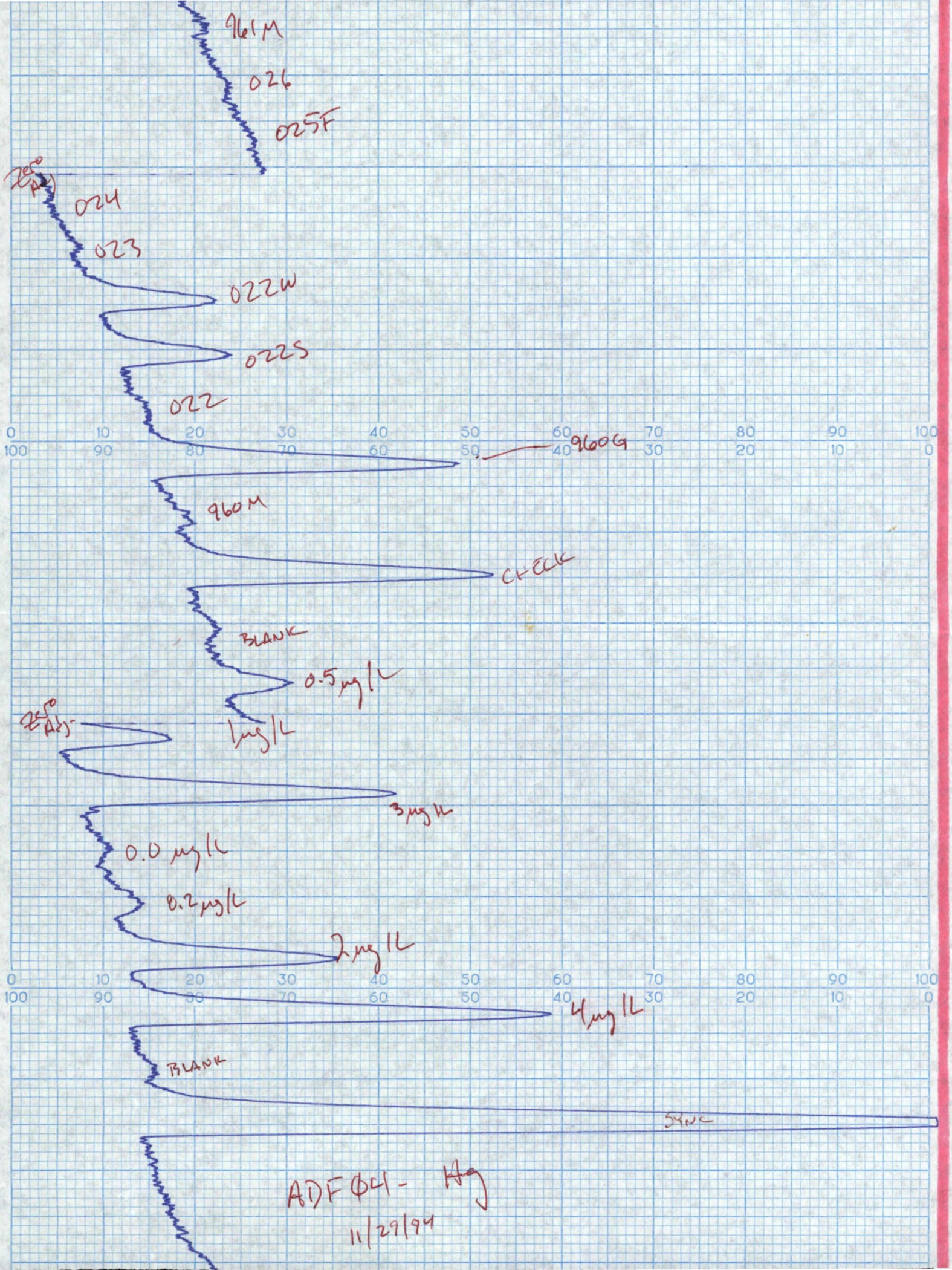


CHART NO. KZ XR-9
PRINTED IN U.S.A.
CHART NO. KZ XR-9
018
015
014
013
012
011
010
009
008
007
006
005
004
003
002
001
961G


961M
026
025F
ZERO ADJ
024
023
022W
022S
022
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
960G
960M
CHECK
BLANK
0.5 µg/L
ZERO ADJ
1 µg/L
3 µg/L
0.0 µg/L
0.2 µg/L
2 µg/L
4 µg/L
BLANK
SYNC
ADF 04 - Hg
11/29/94
CHART NO. KZ XR-9
CHART NO. KZ X

ADF04

water + Soil

Hg BY CVAA

[X] Total [ ] Dissolved

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE # SPEX 2.93 µg/L

P E SAMPLE # LCS 287

DATA

DILUTION: UNDILUTED

**** MercuMate Laboratory Report ****

Job - ADF04KML
Batch - 1

Date - 11/29/94
Time - 3:52
EPA

2nd Report Version

Method: WATER

**** Method Parameters ****

HG4 Inst - Instrument Name
Check Smpl - Check Sample Identification
2.93 - Check Sample Concentration
0 - Samples Per Reference
.00 - Reference Standard Concentration
ug/l - Units Used For Calculated Data
3 - Number of Decimal Places
Yes - Baseline correction

---

10 - Number of Samples per Hour
1:19 - Sample to Rinse Ratio
90 - Read Time During Sampling

**** Standards Data ****

Tray Pos.	Standard Label	Known Concentration	Instrmnt Reading	Calculated Reading	Percent Difference
2	Blank		1.100	.048	
3	4std	4.00	43.000	4.028	.705
4	2std	2.00	21.600	1.992	-.416
5	0.2std	.20	2.700	.193	-3.667
6	0.0std	.00	.800	.009	.000
7	3std	3.00	31.900	2.959	-1.351
8	1std	1.00	11.600	1.027	2.746
9	0.5std	.50	6.000	.492	-1.618
10	Blank		1.400	.048	

**** Method Notes ****

Calculations made with:
Drift Correction.
No Reference Correction.
1st order fit.
r = .999876

**** MercuMate Laboratory Report ****

Tray Pos.	Sample Label	HG4 Peak	Inst	Calcultd ug/l	Percent Differ	Group Average	Sample Dilution	Sample Weight	Make up Volume
11	Check Smpl		32.0	2.958	.956				
12	ADF04960M		2.1	.117			1.000	10.000	10.000
13	ADF04960G		30.7	2.833			1.000	10.000	10.000
14	ADF04022		.6	-.028			1.000	10.000	10.000
15	ADF04022S		11.3	.987			1.000	10.000	10.000
16	ADF04022W		11.8	1.034			1.000	10.000	10.000
17	ADF04023		.9	-.003			1.000	10.000	10.000
18	ADF04024		.4	-.051			1.000	10.000	10.000
19	ADF04025F		.9	-.005			1.000	10.000	10.000
20	ADF04026		.0	-.092			1.000	10.000	10.000
21	ADF04961M		1.5	.050			1.000	10.000	10.000
22	ADF04961G		26.7	2.443			1.000	10.000	10.000
23	ADF04001		7.5	.617			1.000	10.000	10.000
24	ADF04001S		18.8	1.690			1.000	10.000	10.000
25	ADF04001W		19.7	1.774			1.000	10.000	10.000
26	ADF04002		5.6	.434			1.000	10.000	10.000
27	ADF04003		6.2	.489			1.000	10.000	10.000
28	ADF04004		4.8	.355			1.000	10.000	10.000
29	ADF04005		4.3	.307			1.000	10.000	10.000
30	ADF04006		4.3	.306			1.000	10.000	10.000
31	ADF04007		10.2	.865			1.000	10.000	10.000
32	ADF04008		4.2	.294			1.000	10.000	10.00
33	ADF04009		5.7	.435			1.000	10.000	10.00
34	ADF04010		3.8	.254			1.000	10.000	10.00
35	ADF04011		6.2	.481			1.000	10.000	10.00
36	ADF04012		8.8	.726			1.000	10.000	10.00
37	ADF04013		7.8	.630			1.000	10.000	10.00
38	ADF04014		7.0	.553			1.000	10.000	10.00
39	ADF04015		10.0	.837			1.000	10.000	10.00
40	ADF04016		11.7	.997			1.000	10.000	10.00
41	ADF04017		10.2	.854			1.000	10.000	10.00
42	ADF04018		10.7	.900			1.000	10.000	10.00
43	ADF04019		12.9	1.108			1.000	10.000	10.00
44	CHECK/G		31.4	2.864			1.000	10.000	10.00
45	Blank		1.8	.051					

water +
soil
CN
ADF-04

TOTAL CYANIDE BY AUTO PYRIDINE

SAMPLES

INITIAL CALIBRATION

CONTINUING CALIBRATON

METHOD STANDARD & BLANK

SPIKE AND SPIKE DUPLICATE

P E SAMPLE #_____

P E SAMPLE #_____

DATA

DILUTION:_____

SAMPLE ID FILE REPORT TJ112894.IDF Page 1

FILE NAME: TJ112894.IDF CREATED 11-28-94 11:24 MODIFIED 11

CUP	IDENTIFIER	DILUTION	WEIGHT
1	-SYNC-		
2	100%		
3	BLANK		
4	#STD 1 .200		
5	#STD 2 .150		
6	#STD 3 .100		
7	#STD 4 .050		
8	STD 5 .005		
9	BLANK		
10	REF .0964		
11	STD .100		
12	ADF03955M		
13	ADF03955G		
14	BLANK		
15	ADF03032F		
16	ADF03033F		
17	ADF03034		
18	ADF03035		
19	ADF03037		
20	ADF03037S		
21	ADF03037W		
22	ADF03038		
23	ADF03036		
24	BLANK		
25	STD .100		
26	REF .0964		
27	ADF04955M		
28	ADF04955G		
29	BLANK		
30	ADF04022		
31	ADF04023		
32	ADF04024		
33	ADF04025F		
34	ADF04026		
35	ADF04026S		
36	ADF04026W		
37	BLANK		
38	STD .100		
39	REF .0964		
40	ADF04952M		
41	ADF03953M		
42	ADF03954M		
43	ADF04952G		
44	ADF03953G		
45	ADF03954G		

PRINTED IN U.S.A.
FORM 1411-3

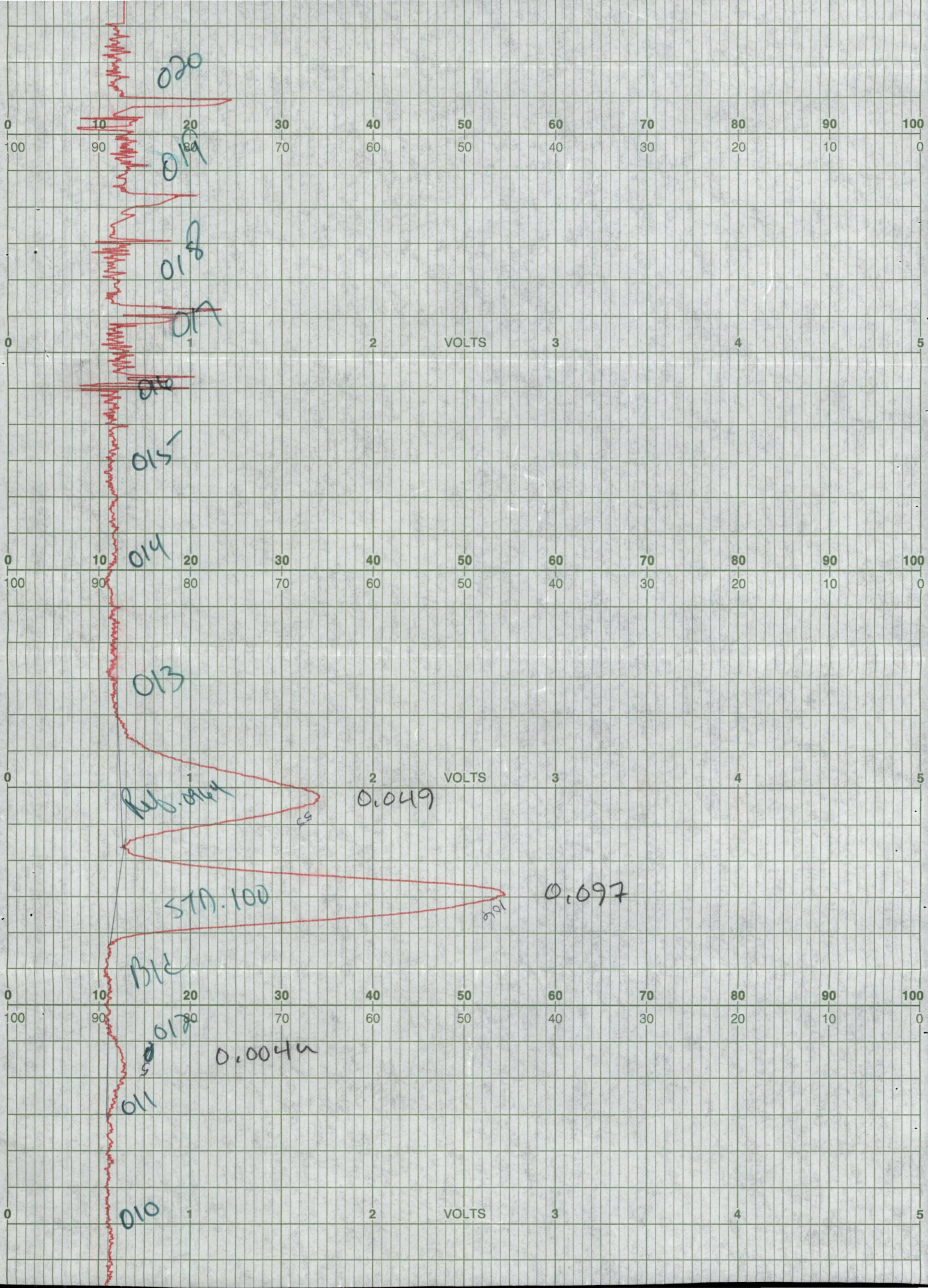
SAMPLE ID FILE REPORT TJ112894.IDF Page 2

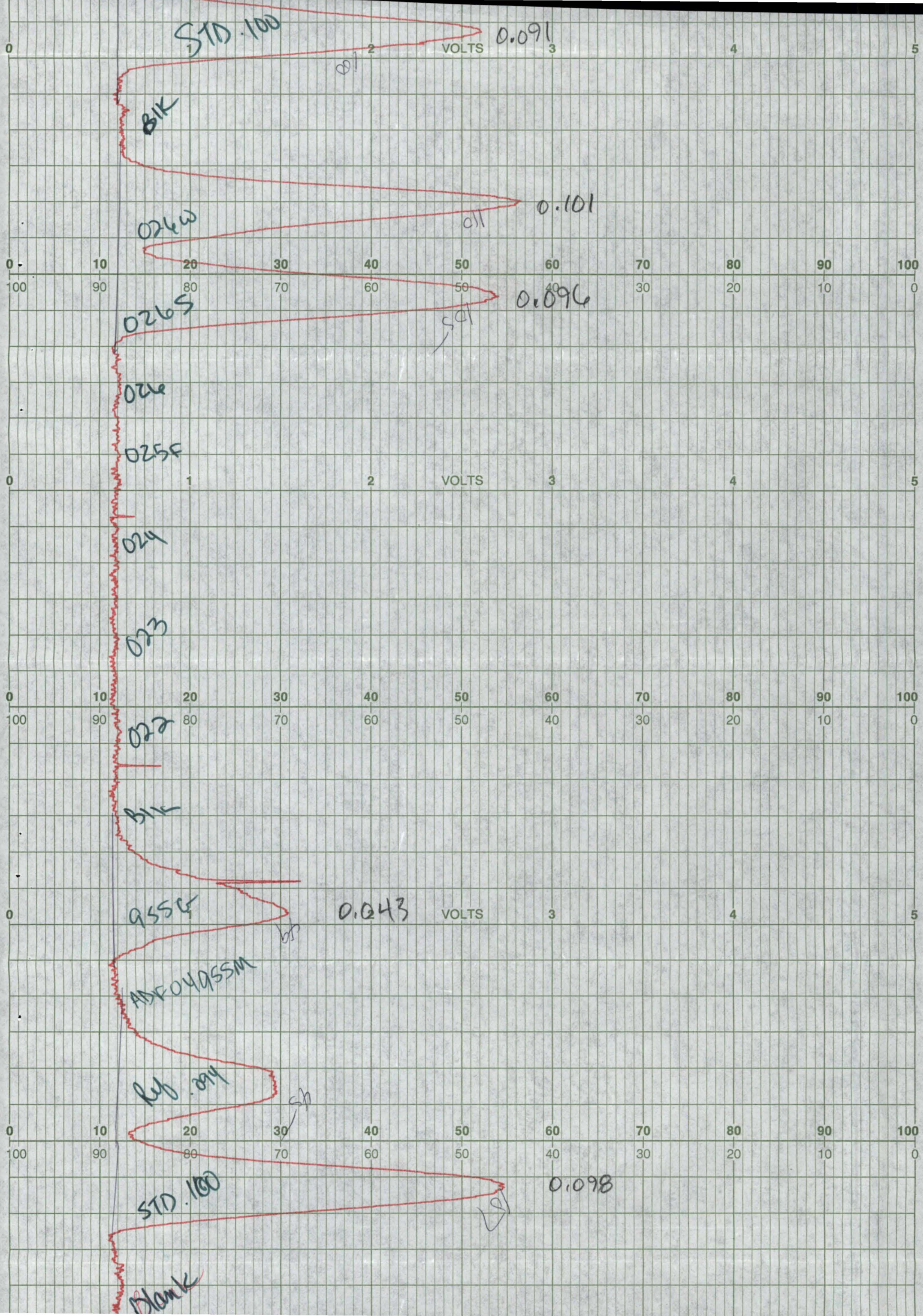
FILE NAME: TJ112894.IDF CREATED 11-28-94 11:24 MODIFIED

CUP	IDENTIFIER	DILUTION	WEIGHT
46	ADF04001		
47	ADF04001S		
48	ADF04001W		
49	ADF04002		
50	ADF04003		
51	ADF04004		
52	ADF04005		
53	ADF04006		
54	ADF04007		
55	ADF04008		
56	ADF04009		
57	ADF04010		
58	ADF04011		
59	ADF04012		
60	ADF04013		
61	ADF04014		
62	ADF04015		
63	ADF04016 — Rerun		
64	BLANK		
65	SDT .100		
66	REF .0964		
67	ADF04017		
68	ADF04018		
69	ADF04019		
70	ADF03001		
71	ADF03001S		
72	ADF03001W		
73	ADF03002		
74	ADF03003		
75	ADF03004		
76	ADF03005		
77	ADF03006		
78	ADF03007		
79	ADF03008		
80	ADF03009		
81	ADF03010		
82	ADF03011		
83	ADF03012		
84	BLANK		
85	STD .100		
86	REF .0964		
87	ADF03013		
88	ADF03014		
89	ADF03015		
90	ADF03016		

PRINTED IN U.S.A.
FORM 1411-3

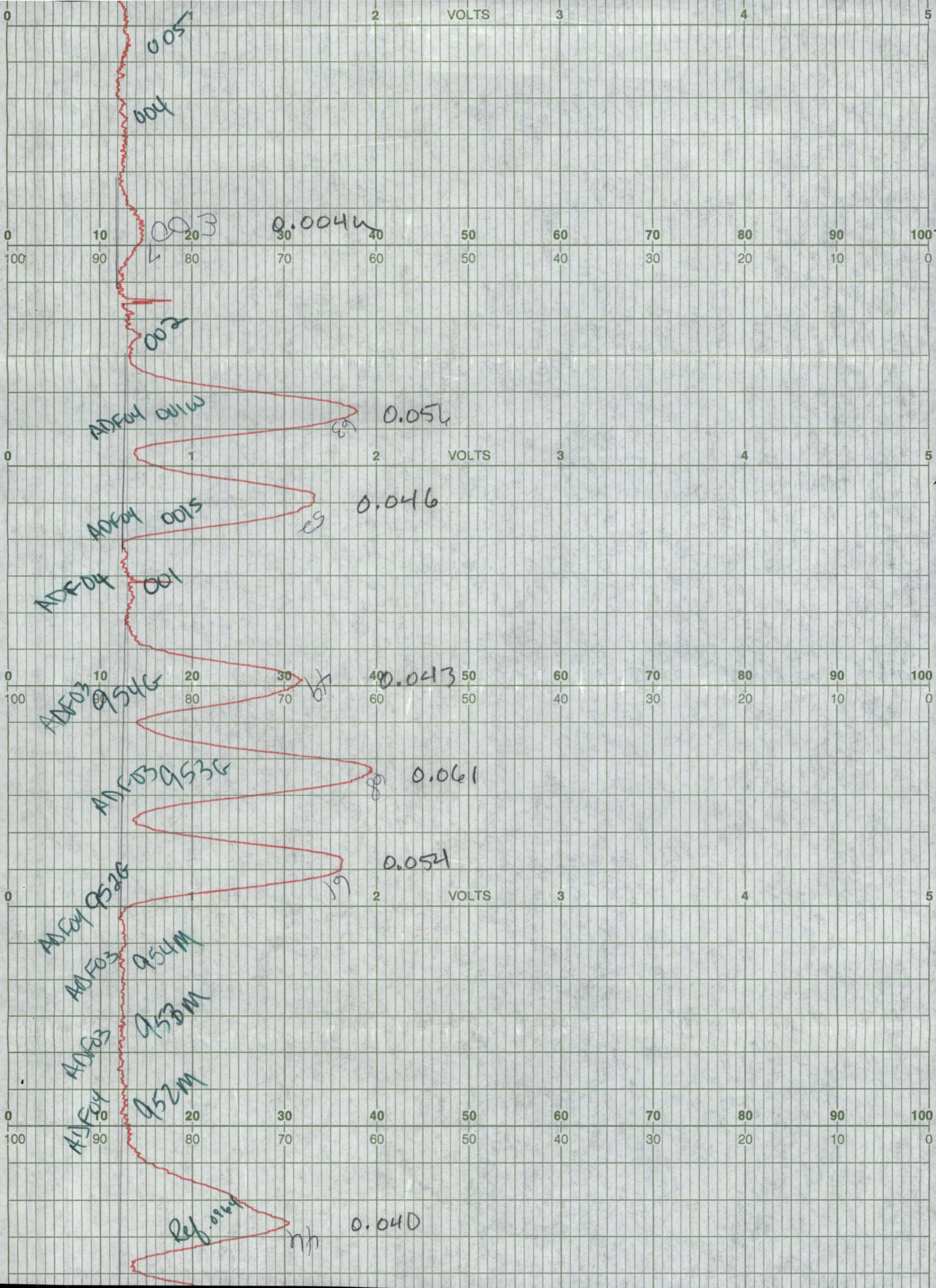
ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02



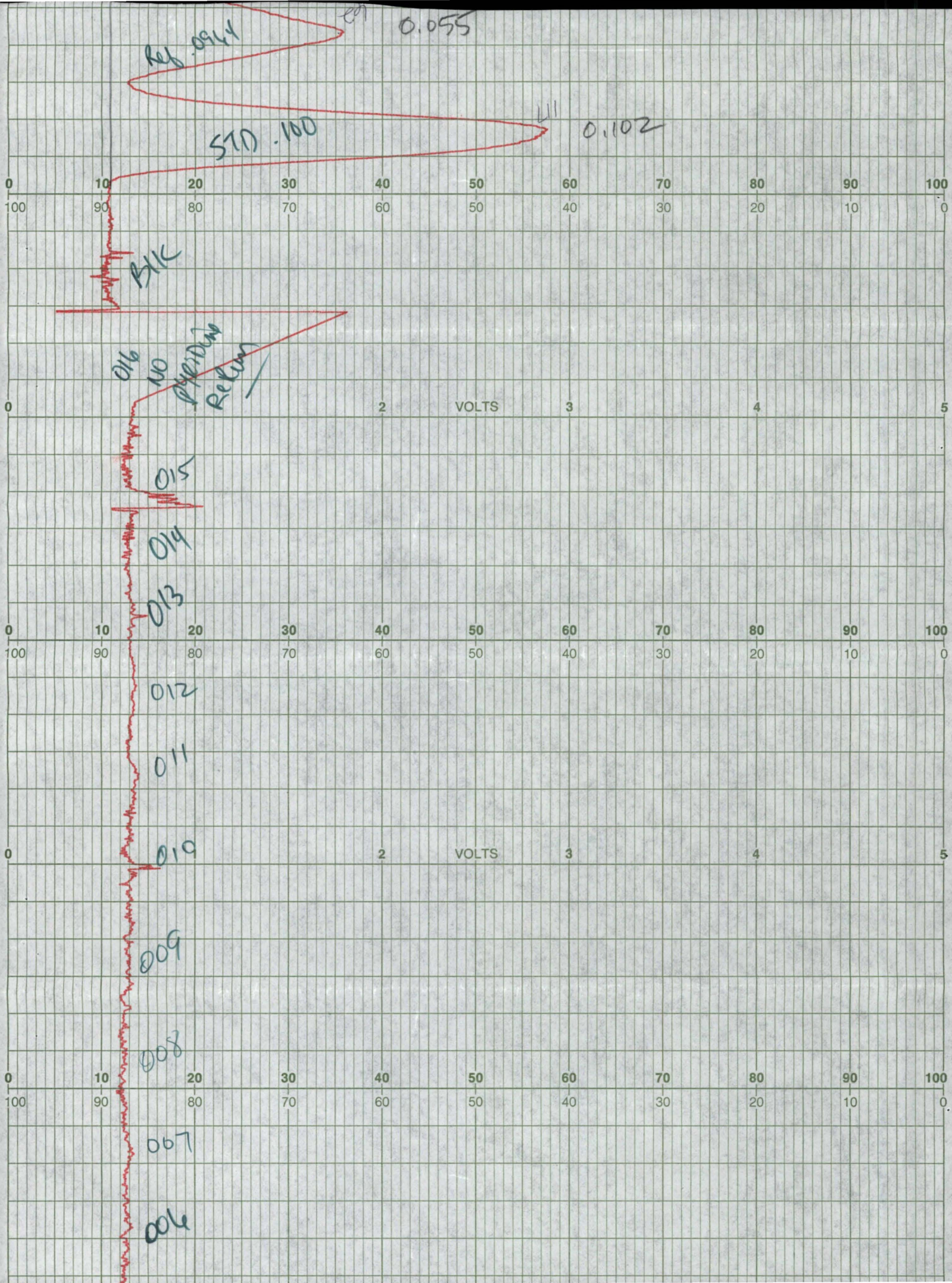


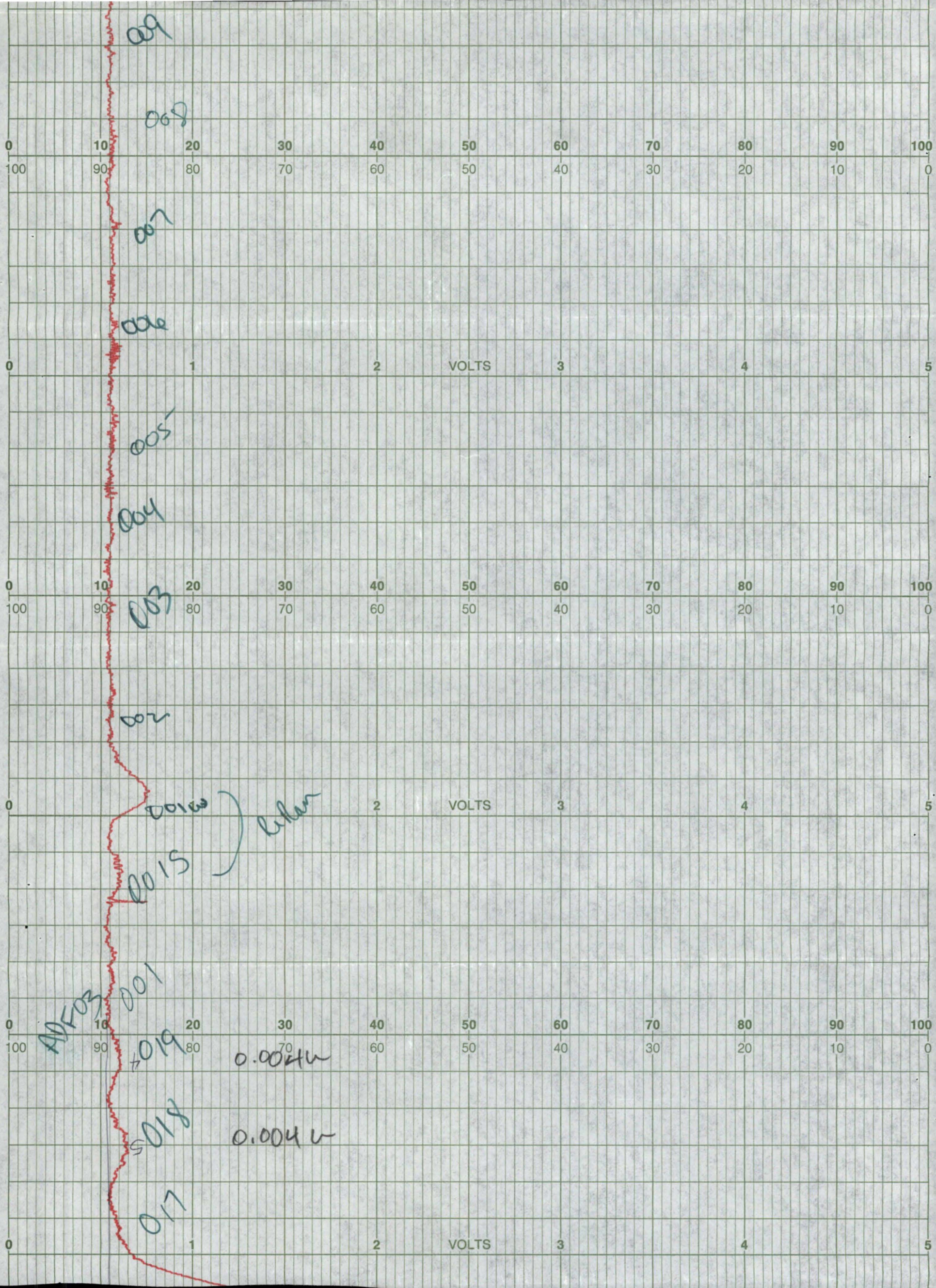
STD .100
0.091
VOLTS
BIK
0.101
026W
0.096
026S
026
025F
024
023
022
BIK
955G
0.043
ADF04955M
Ref .094
STD .100
0.098
Blank

ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02



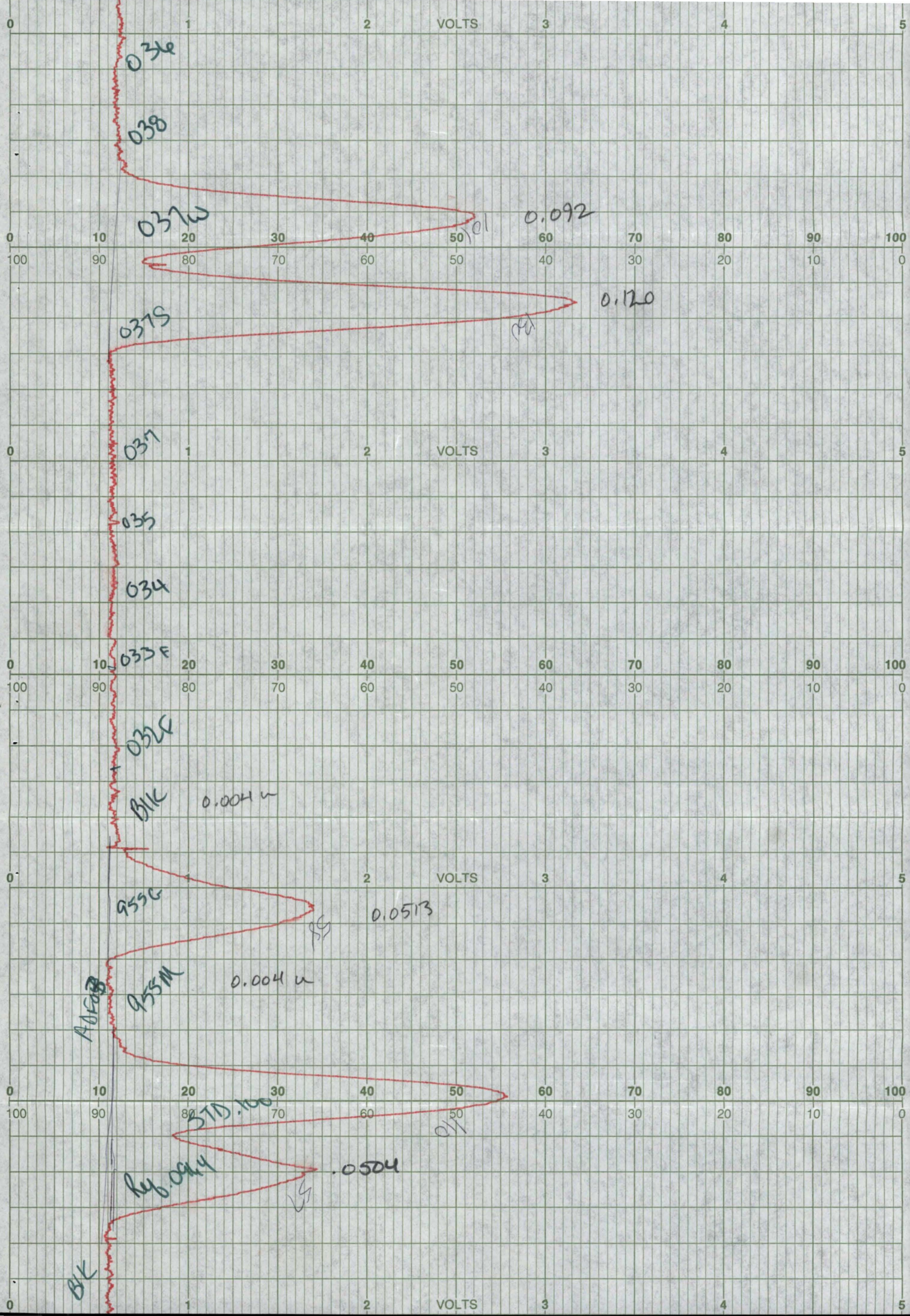
ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02

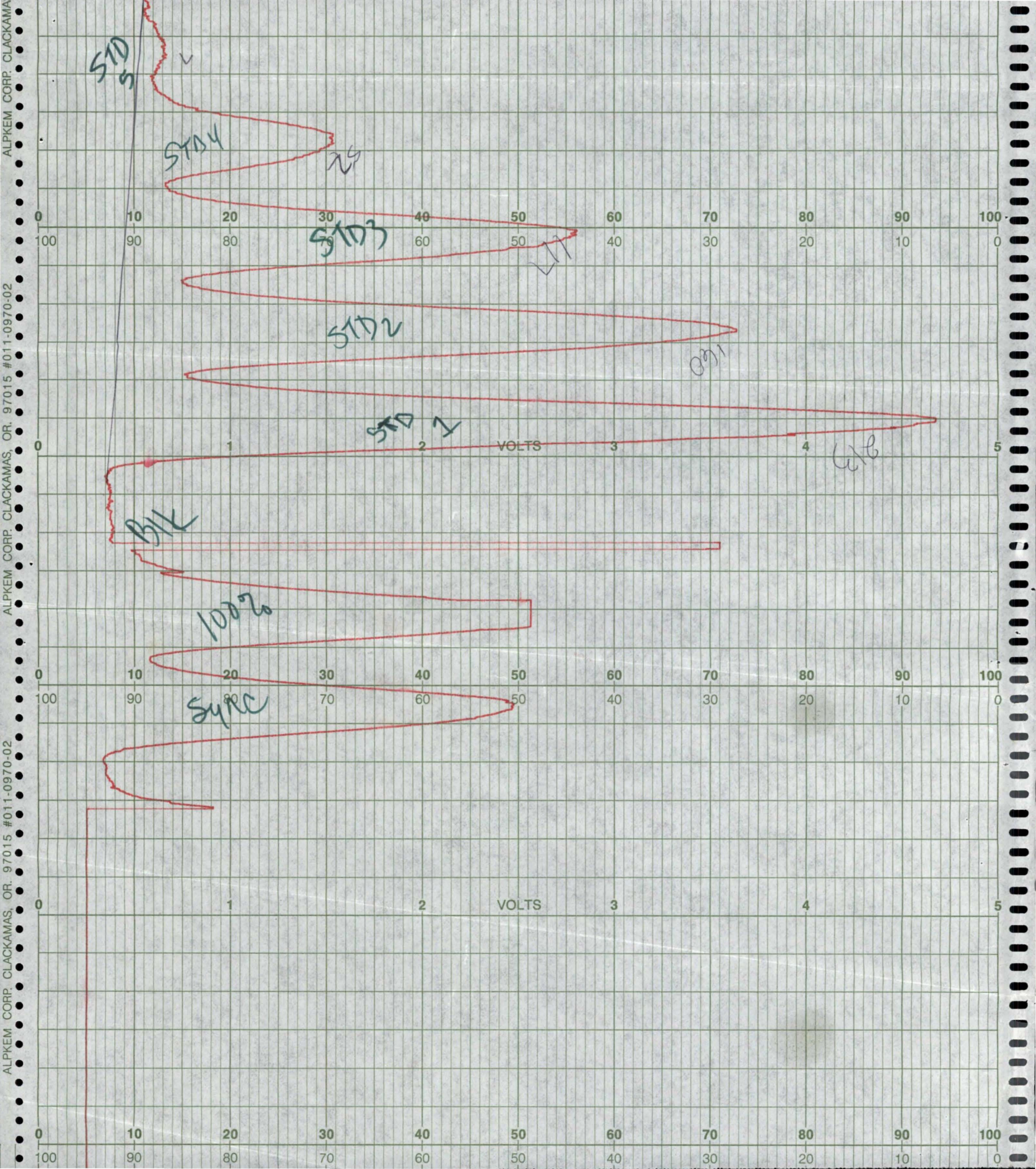




ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02
009
008
007
006
005
004
003
002
001
ADF03
019
018
017
0.004 u
0.004 u
VOLTS

ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02




ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02
ALPKEM CORP. CLACKAMAS, OR. 97015 #011-0970-02
STD 5
STD 4
STD 3
STD 2
STD 1
BLK
100%
SYRC
VOLTS
VOLTS

SAMPLE ID FILE REPORT [illegible] Page [illegible]

FILE NAME: [illegible] CREATED: [illegible] MODIFIED: [illegible]

CUP	IDENTIFIER	DILUTION	WEIGHT
1	HDYNE		
2	100%		
3	100%		
4	100%		
5	BLANK		
6	%STD 1	.200	
7	%STD 2	.150	
8	%STD 3	.100	
9	%STD 4	.050	
10	STD 5	.025	
11	BLANK		
12	[illegible]		
13	STD .100		
14	[illegible]		
15	ADF039536		
16	ADF039534M		
17	ADF039546		
18	[illegible]		
19	ADF030013		
20	ADF03001W		
21	ADF03002		
22	ADF03003		
23	ADF03004		
24	ADF03005		
25	ADF03006		
26	ADF03007		
27	ADF03008		
28	ADF03009		
29	BLANK		
30	STD .100		
31	REF .056A		
32	ADF03010		
33	ADF03011		
34	ADF03012		
35	ADF03013		
36	ADF03014		
37	ADF03015		
38	ADF03016		
39	ADF03017		
40	ADF03018		
41	ADF03019		
42	ADF03020		
43	ADF03021		
44	ADF03021M		
45	ADF03021W		

PRINTED IN U.S.A.

FORM 1411-3

SAMPLE ID FILE REPORT [illegible] Page 2

FILE NAME: [illegible] CREATED: [illegible] MODIFIED

CUP IDENTIFIER DILUTION WEIGHT

- 45 ADF02021
- 47 BLANK
- 48 STD .100
- [illegible]
- 50 ADF0[illegible]
- [illegible] ADF[illegible]
- [illegible] ADF0202[illegible]
- [illegible] ADF[illegible]
- 54 ADF03027
- [illegible] ADF[illegible]
- [illegible] ADF03020
- [illegible] BLANK — ADF04952M
- [illegible] BLANK — ADF04952C
- [illegible] BLANK — ADF04001
- [illegible] BLANK — ADF04001S
- [illegible] BLANK — ADF04001[illegible]
- [illegible] BLANK — ADF04002
- [illegible] BLANK — ADF04005
- 64 ADF0[illegible]
- 65 BLANK
- 66 STD .100
- 67 REF .0964
- 68 BLANK — ADM[illegible]
- [illegible] BLANK — [illegible]
- 70 [illegible]
- [illegible]
- 79 [illegible]
- [illegible]
- 86 [illegible]

FINAL CALCULATED RESULTS REPORT TJ12595.PDF Page

TJ12595.DAT Operator [illegible] [illegible] [illegible] [illegible]

LABORATORY: EPAZ

SAMPLE TYPE: 75 WASH TYPE: 75 SPIKE RATIO: 0.00000 OPER. ID: TJS

	NAME	MODE	A	B	C	D	E	CO
1	CYANIDE	W	1.826E-3	2.345E-1				0.9965

	CHANNEL NAME	ANALYTE UNITS	CONVERSION FACTOR	CALIBRANT UNITS	MATRIX BLANK	LIMITS DL	[illegible]
1	CYANIDE	MG/L	1.000	MG/L	[illegible]	0.0320	[illegible]

CUP NO.	SAMPLE ID.	CYANIDE MG/L	
1	-SYNC-	0.160	
2	100%	-0.006	
3	100%	0.173	
4	100%	0.170	
5	BLANK	0.014	
6	#STD 1 .200	0.196	-2
7	#STD 2 .150	0.149	-1
8	#STD 3 .100	0.102	2
9	#STD 4 .050	0.057	13
10	STD 5 .000	0.015	
11	BLANK	0.012	
12	REF .0944	0.077	
13	STD .100	0.102	
14	ADF03953M	0.012	
15	ADF03953S	0.056	
16	ADF03954M	0.010	
17	ADF03954S	0.064	
18	ADF03001	0.012	
19	ADF03001S	0.052	
20	ADF03001W	0.059	
21	ADF03002	0.008	
22	ADF03003	0.006	
23	ADF03004	0.006	
24	ADF03005	0.006	
25	ADF03006	0.005	
26	ADF03007	0.004	
27	ADF03008	0.002	
28	ADF03009	0.005	
29	BLANK	0.003	
30	STD .100	0.100	
31	REF .0944	0.085	
32	ADF03010	0.004	
33	ADF03011	0.001	

PRINTED IN U.S.A.
FORM 1411-3

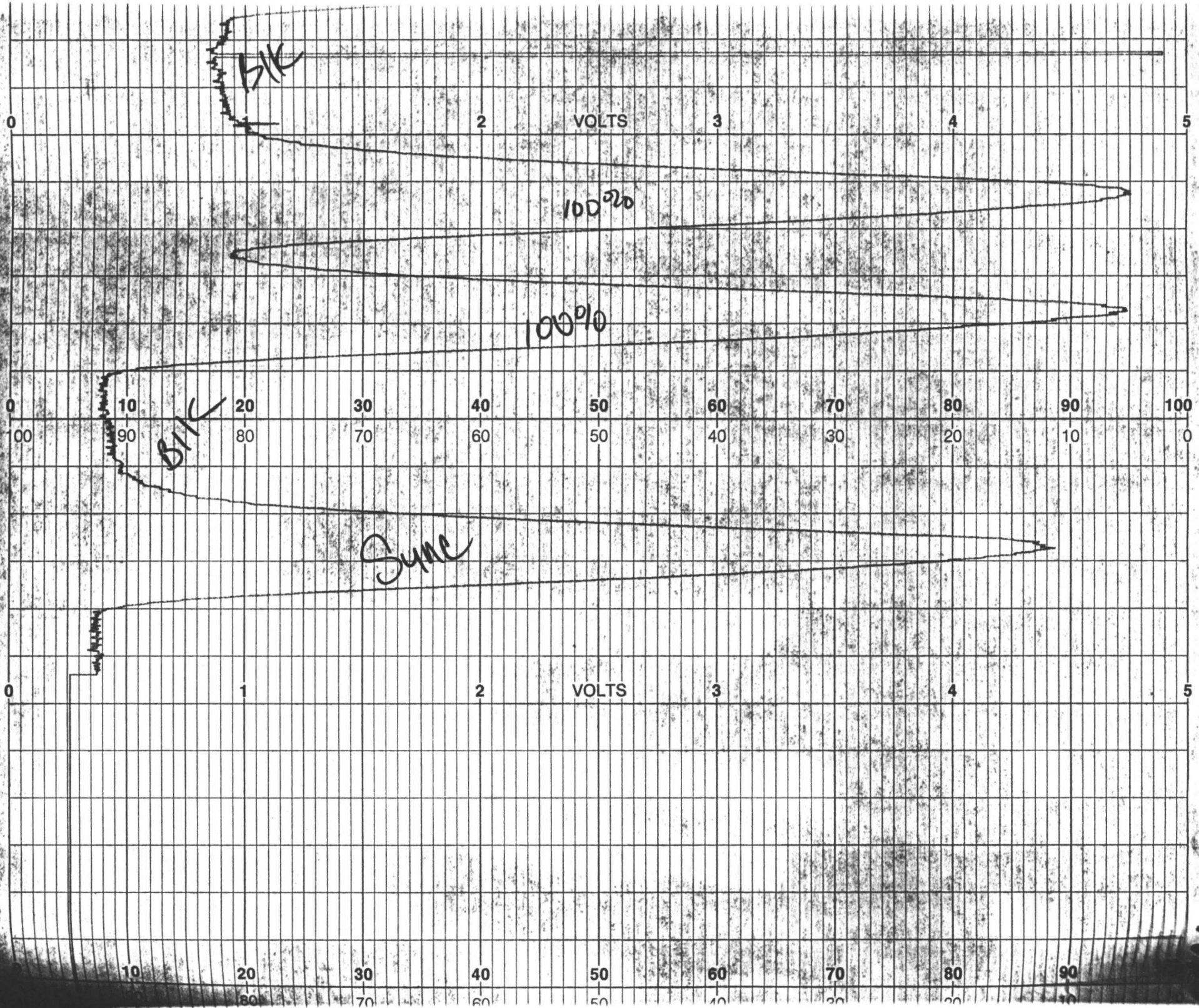
FINAL CALCULATED RESULT REPORT [illegible] Page [illegible]

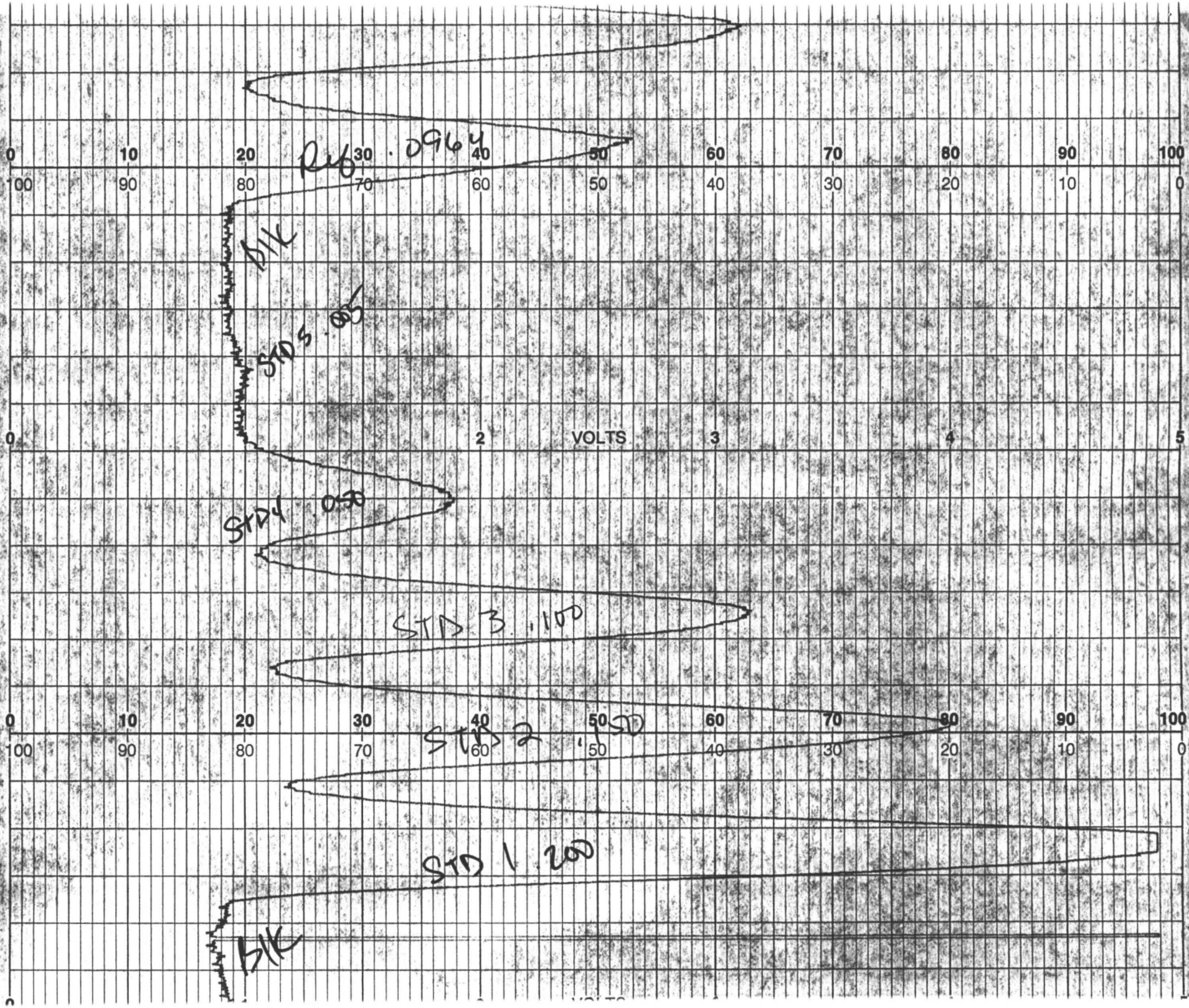
CUP NO.	SAMPLE ID.	CYANIDE MG/L
34	ADF03016	0.005
35	ADF03013	0.000
36	ADF03014	-0.000
37	ADF03015	-0.000
38	[illegible]	-0.00[illegible]
39	ADF03017	-0.001
40	ADF03018	-0.0[illegible]
41	ADF03019	-0.001
42	ADF03020	-0.00[illegible]
43	ADF03021	-0.00[illegible]
44	ADF03021C	0.00[illegible]
45	ADF03021R	0.005
46	ADF03022	-0.003
47	BLANK	-0.000
48	STD .100	0.0[illegible]
49	REF .0964	0.019
50	ADF03023	-0.009
51	ADF03024	-0.004
52	ADF03025	-0.01[illegible]
53	ADF03026	-0.010
54	ADF03027	-0.011
55	ADF03028	-0.013
56	ADF03029	-0.012
57	BLANK	-0.014
58	BLANK	-0.01[illegible]
59	BLANK	-0.014
60	BLANK	-0.017
61	BLANK	-0.015
62	BLANK	-0.014
63	BLANK	-0.004
64	ADF04016	-0.002
65	BLANK	-0.004
66	STD .100	-0.002
67	REF .0964	0.001
68	BLANK	0.003
69	BLANK	-0.005
70	ADF04006	-0.005
71	ADF04007	-0.00[illegible]
72	ADF04008	-0.004
73	ADF04009	0.000
74	ADF04010	-0.003
75	ADF04011	0.014
76	ADF04012	-0.001
77	ADF04013	-0.004
78	ADF04014	-0.00[illegible]
79	ADF04015	-0.001
80	ADF04017	-0.004
81	ADF04018	-0.006

PRINTED IN U.S.A.
FORM 1411-3

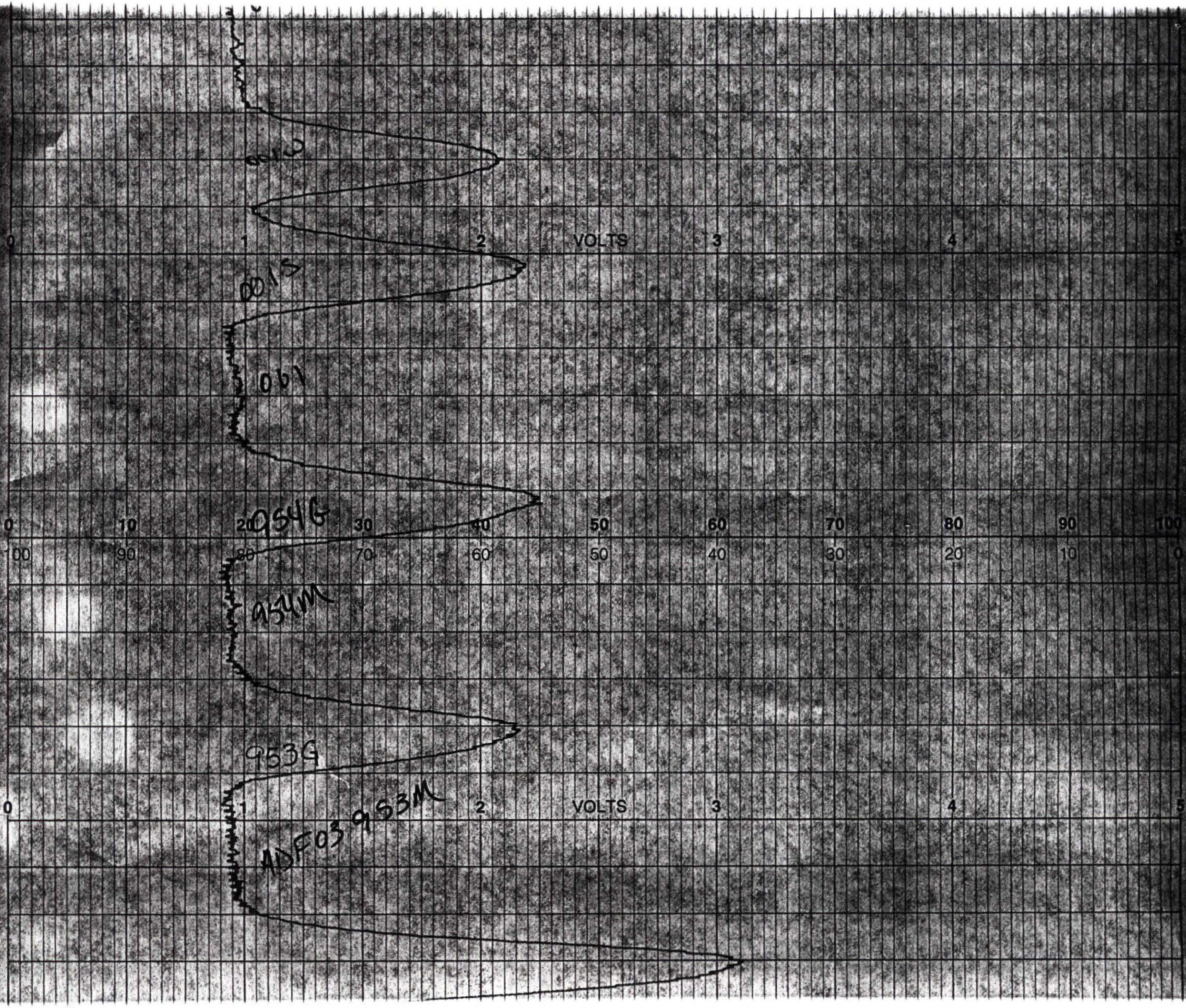
CUP NO.	SAMPLE ID.	CYANIDE MG/L
82	ADE04013	-0.004
83	BLANK	-0.004
84	STD .100	-0.005
85	REF .0964	0.012
86	BLANK	0.013
87	BLANK	-0.004

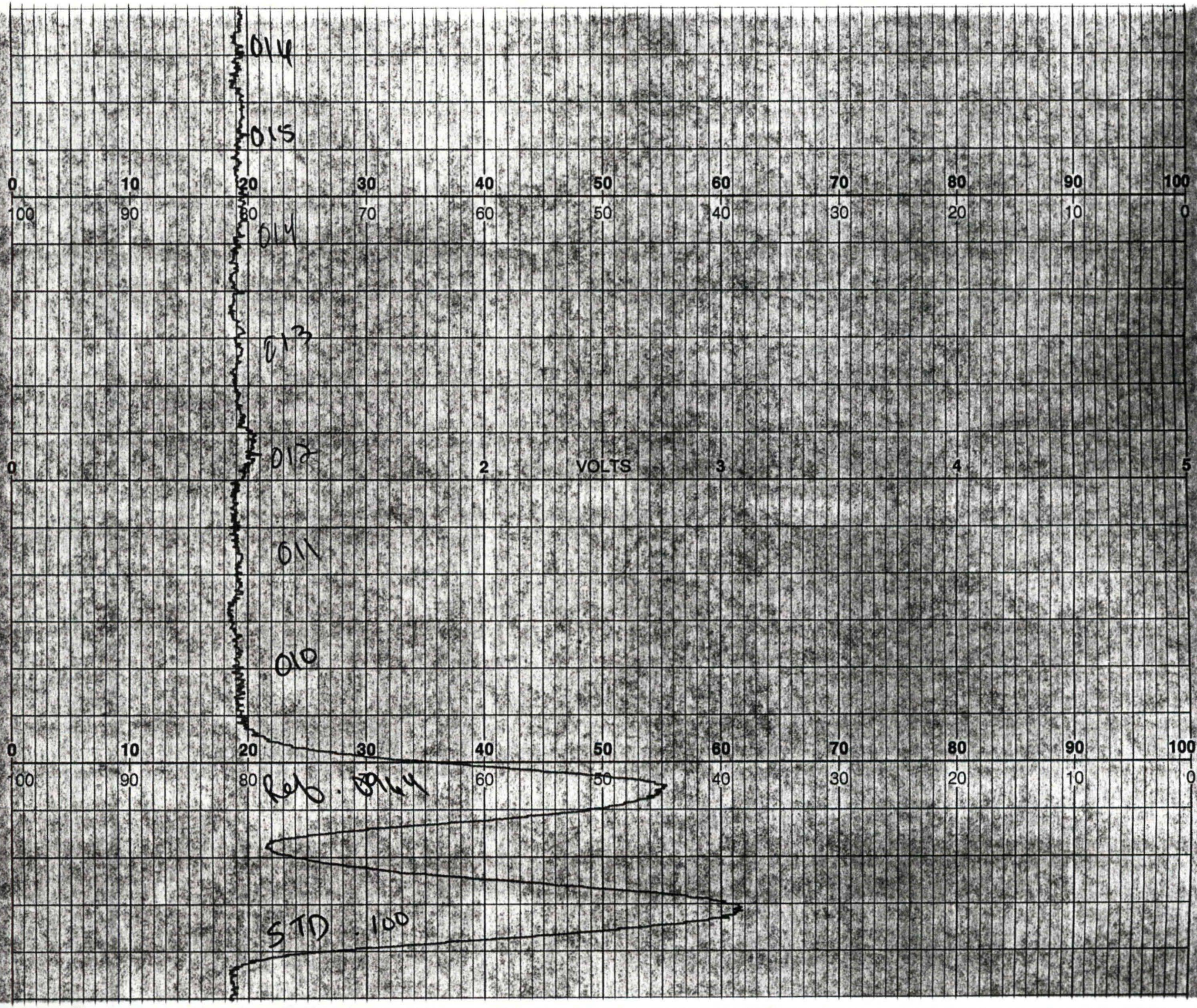
PRINTED IN U.S.A.
FORM 1411-3

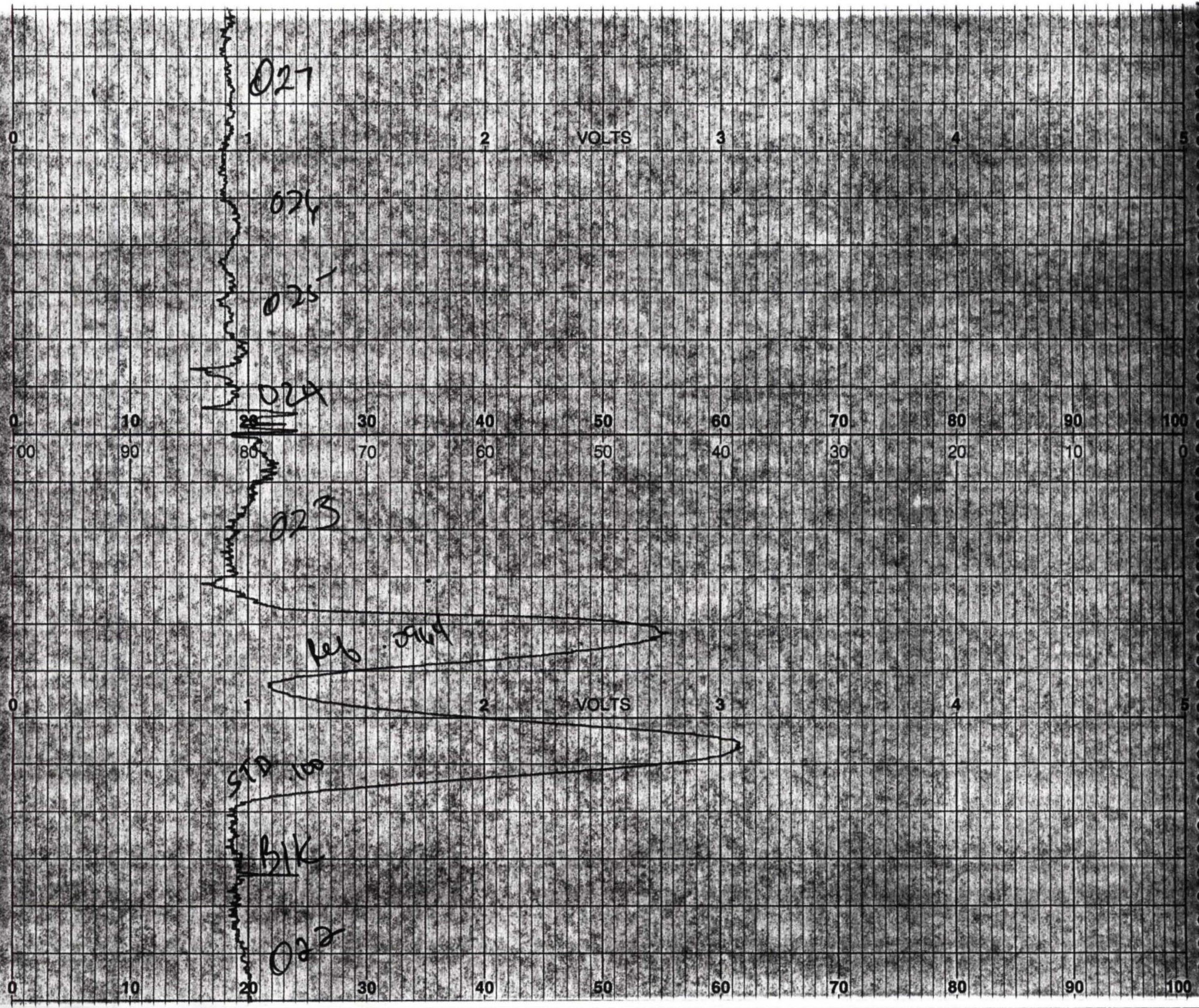

BLK
0
1
2
VOLTS
3
4
5
100%
100%
0
10
20
30
40
50
60
70
80
90
100
100
90
80
70
60
50
40
30
20
10
0
BLK
Sync
0
1
2
VOLTS
3
4
5
10
20
30
40
50
60
70
80
90

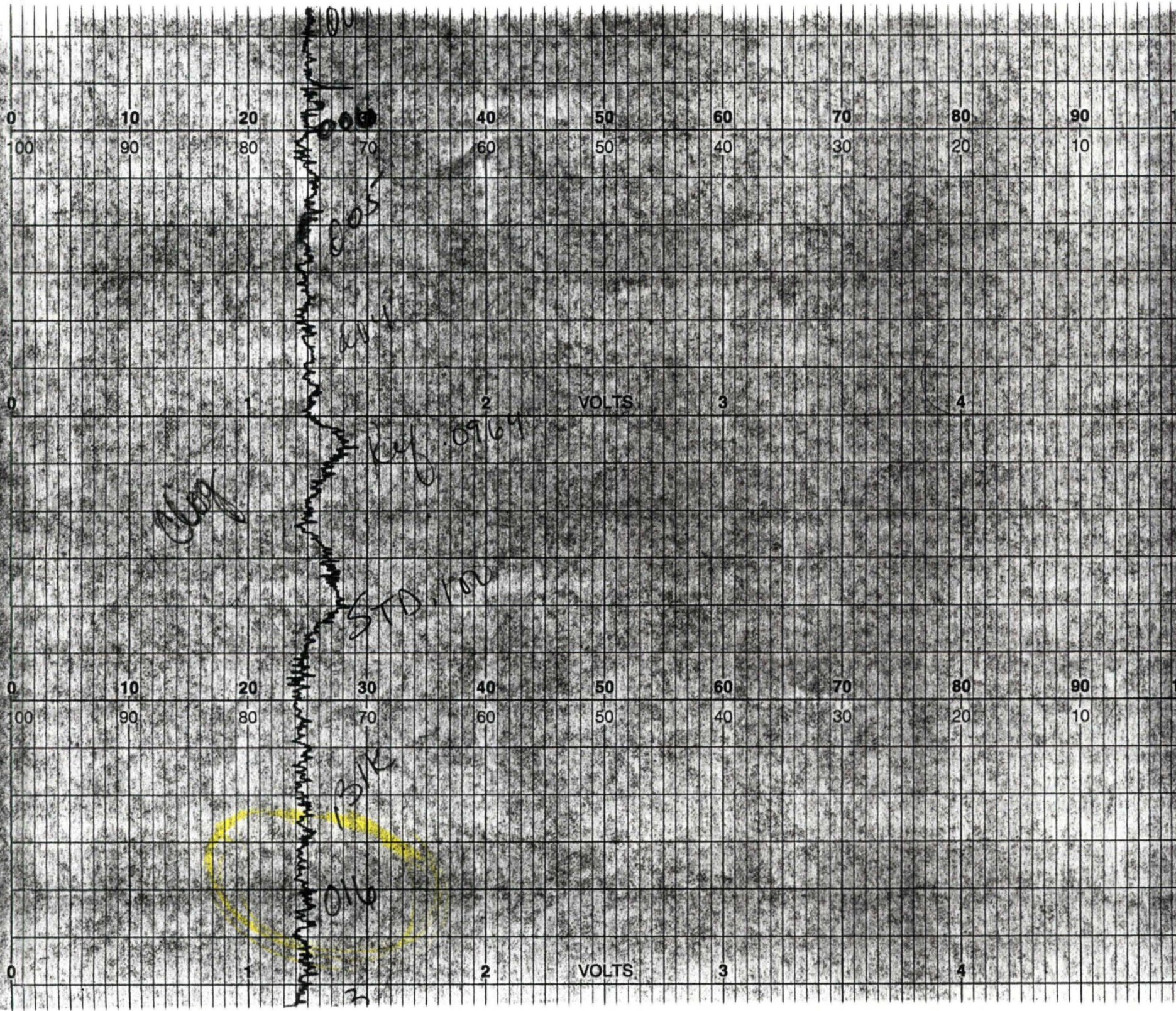


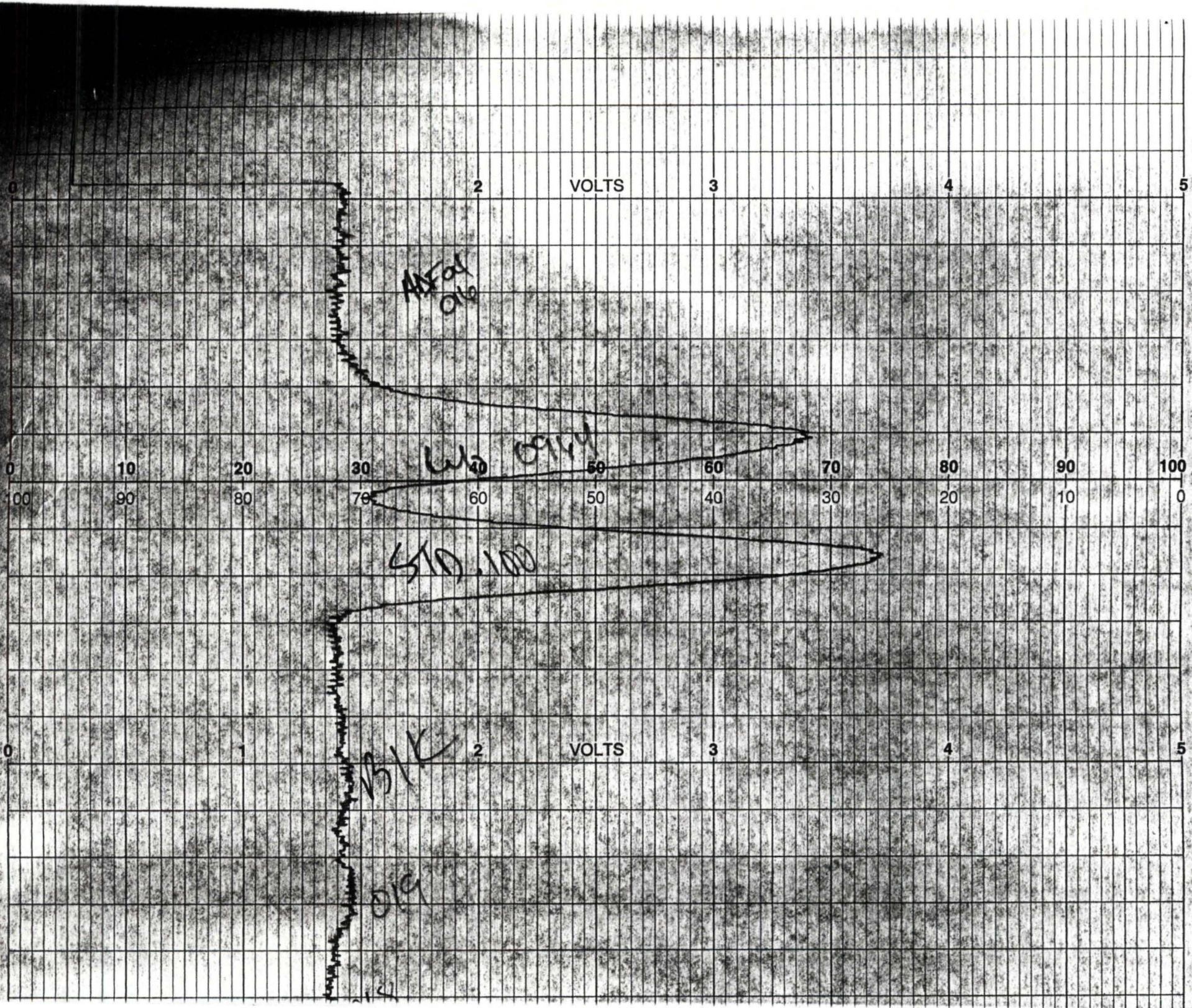
Ref .0964
BLK
STD 5 .005
VOLTS
STD 4 .050
STD 3 .100
STD 2 .150
STD 1 .200
BLK


0
1
2
VOLTS
3
4
5
0010
0015
061
0
10
20
30
40
50
60
70
80
90
100
954G
100
90
80
70
60
50
40
30
20
10
0
954M
953G
0
1
2
VOLTS
3
4
5
ADF03
953M


014
015
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
014
013
012
0 2 VOLTS 3 4 5
011
010
0 10 20 30 40 50 60 70 80 90 100
100 90 80 60 50 40 30 20 10 0
Rab .8964
STD .100


027
0 1 2 VOLTS 3 4 5
026
025
024
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
023
Feb 3969
0 1 2 VOLTS 3 4 5
STD 100
BIK
022
0 10 20 30 40 50 60 70 80 90 100


0 10 20 40 50 60 70 80 90
100 90 80 70 60 50 40 30 20 10
0 1 2 VOLTS 3 4
0 10 20 30 40 50 60 70 80 90
100 90 80 70 60 50 40 30 20 10
0 1 2 VOLTS 3 4


VOLTS
0
1
2
3
4
5
10
20
30
40
50
60
70
80
90
100
STD .100
VOLTS

ANALYSIS TYPE: TOTAL CYANIDES

TITLE: ADF04 MATRIX: WATER UNITS: MG/L
LAB: REGION VII ESAT METHOD: 3351W03 CASE: N/A
SAMPLE PREP: TJA ANALYST: TJA REVIEWER: DATE: 11-29-94

SAMPLE ID	MG/L
ADF04955M	0.002 U
ADF04955G	0.043
ADF04955H	0.0504
ADF04022	0.002 U
ADF04023	0.002 U
ADF04024	0.002 U
ADF04025F	0.002 U
ADF04026	0.002 U
ADF04026S	0.096
ADF04026R	0.100
ADF04026W	0.101
ADF04026B	0.100

ANALYSIS TYPE: TOTAL MERCURY-ADF04

TITLE: McDONNELL-DOUGLAS MATRIX: SOIL UNITS: MG/KG
LAB: REGION VII ESAT METHOD: 3121.14A CASE: N/A
SAMPLE PREP: KL ANALYST: KL REVIEWER: DATE: 11/29/94

SAMPLE RESULTS

SAMPLE	SAMPLE WT. (IN GRAMS)	%SOLIDS	D.F.	INST. RESULT (IN UG/L)	TOTAL MERCURY (IN MG/KG)
ADF04961M	0.200	100	1	0.050	0.00389 U
ADF04961G	0.210	100	100	2.443	11.6
ADF04961G	1.000	100	100	12.7	12.7
ADF04001	0.208	77.4	1	0.617	0.0383
ADF04001S	0.200	77.4	1	1.690	0.109
ADF04001R	0.200	77.4	1	1.000	0.0646
ADF04001W	0.201	77.4	1	1.774	0.114
ADF04001B	0.200	77.4	1	1.000	0.0646
ADF04002	0.196	81.6	1	0.434	0.0271
ADF04003	0.201	82.3	1	0.489	0.0296
ADF04004	0.204	87.3	1	0.355	0.0199
ADF04005	0.216	86.1	1	0.307	0.0165
ADF04006	0.204	88.7	1	0.306	0.0169
ADF04007	0.220	85.8	1	0.865	0.0458
ADF04008	0.221	87.9	1	0.294	0.0151
ADF04009	0.215	57.2	1	0.435	0.0354
ADF04010	0.217	88.9	1	0.254	0.0132
ADF04011	0.195	87.8	1	0.481	0.0281
ADF04012	0.208	81.0	1	0.726	0.0431
ADF04013	0.206	82.3	1	0.630	0.0372
ADF04014	0.221	86.5	1	0.553	0.0289
ADF04015	0.219	84.3	1	0.837	0.0453
ADF04016	0.218	82.9	1	0.997	0.0552
ADF04017	0.218	82.8	1	0.854	0.0473
ADF04018	0.220	82.4	1	0.900	0.0496
ADF04019	0.220	79.7	1	1.108	0.0632

ANALYSIS TYPE: TOTAL MERCURY-ADF04

TITLE: McDONNELL-DOUGLAS MATRIX: WATER UNITS: UG/L

LAB: REGION VII ESAT METHOD: 3121.14A CASE: N/A

SAMPLE PREP: KL ANALYST: KL REVIEWER: DATE: 11/29/94

SAMPLE RESULTS

SAMPLE	TOTAL MERCURY (IN UG/L)
ADF04960M	0.100 U
ADF04960G	2.83
ADF04960H	2.93
ADF04022	0.100 U
ADF04022S	0.987
ADF04022R	1.00
ADF04022W	1.03
ADF04022B	1.00
ADF04023	0.100 U
ADF04024	0.100 U
ADF04025F	0.100 U
ADF04026	0.100 U

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.000 5ADF04951M
% SOLIDS: 100.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	5.394	1.000	0.615 U
SM02	ALUMINUM	82.757	1.000	2.000 U
SM03	ARSENIC	2.769	1.000	0.950 U
SM04	BARIUM	2.292	1.000	3.560 U
SM05	BERYLLIUM	0.002	1.000	0.139 U
SM06	CADMIUM	1.350	1.000	0.487 U
SM07	COBALT	-1.781	1.000	0.664 U
SM08	CHROMIUM	-4.898	1.000	0.908 U
SM09	COPPER	-0.993	1.000	0.082 U
SM10	IRON	7.550	1.000	2.000 U
SM11	MANGANESE	1.450	1.000	2.700 U
SM12	MOLYBDENUM	1.738	1.000	0.393 U
SM13	NICKEL	-1.758	1.000	0.535 U
SM14	LEAD	-10.187	1.000	0.702 U
SM15	ANTIMONY	7.497	1.000	0.561 U
SM16	SELENIUM	-0.977	1.000	3.090 U
SM18	THALLIUM	67.723	1.000	3.150 U
SM19	VANADIUM	0.721	1.000	3.050 U
SM20	ZINC	7.782	1.000	2.340 U
SM21	CALCIUM	0.609	1.000	39.000 U
SM22	MAGNESIUM	0.074	1.000	22.400 U
SM23	SODIUM	-0.065	1.000	40.000 U
SM24	POTASSIUM	0.065	1.000	25.500 U

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 1.080 5ADF04951G
% SOLIDS: 100.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	296.000	1.000	27.407
SM02	ALUMINUM	3762.776	1.000	348.405
SM03	ARSENIC	10559.385	1.000	977.721
SM04	BARIUM	53.777	1.000	4.979
SM05	BERYLLIUM	22.400	10.000	20.741
SM06	CADMIUM	451.953	1.000	41.847
SM07	COBALT	1448.931	1.000	134.160
SM08	CHROMIUM	997.136	1.000	92.327
SM09	COPPER	7660.000	10.000	7092.593
SM10	IRON	197836.000	1.000	18318.148
SM11	MANGANESE	2013.448	1.000	186.430
SM12	MOLYBDENUM	506.784	1.000	46.924
SM13	NICKEL	704.232	1.000	65.207
SM14	LEAD	2587.436	1.000	239.577
SM15	ANTIMONY	3109.478	1.000	287.915
SM16	SELENIUM	500.581	1.000	46.350
SM18	THALLIUM	584.869	1.000	54.155
SM19	VANADIUM	740.447	1.000	68.560
SM20	ZINC	2448.517	1.000	226.715
SM21	CALCIUM	198.000	10.000	183333.333
SM22	MAGNESIUM	1110.537	1.000	102827.476
SM23	SODIUM	2.155	1.000	199.580
SM24	POTASSIUM	0.075	1.000	25.500 U

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS

UNITS: MG/KG

LAB: REGION VII METHOD: 6010

SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 1.000 5ADF04951H

% SOLIDS: 100.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	222.000	1.000	22.20
SM02	ALUMINUM	3250.000	1.000	325.00
SM03	ARSENIC	9170.000	1.000	917.00
SM04	BARIUM	48.000	1.000	4.80
SM05	BERYLLIUM	194.000	1.000	19.40
SM06	CADMIUM	454.000	1.000	45.40
SM07	COBALT	1440.000	1.000	144.00
SM08	CHROMIUM	996.000	1.000	99.60
SM09	COPPER	69100.000	1.000	6910.00
SM10	IRON	224300.000	1.000	22430.00
SM11	MANGANESE	2080.000	1.000	208.00
SM12	MOLYBDENUM	4.269	1.000	0.43
SM13	NICKEL	609.000	1.000	60.90
SM14	LEAD	2360.000	1.000	236.00
SM15	ANTIMONY	2110.000	1.000	211.00
SM16	SELENIUM	392.000	1.000	39.20
SM18	THALLIUM	390.000	1.000	39.00
SM19	VANADIUM	658.000	1.000	65.80
SM20	ZINC	1870.000	1.000	187.00
SM21	CALCIUM	1962.000	1.000	196200.00
SM22	MAGNESIUM	1181.000	1.000	118100.00
SM23	SODIUM	15.085	1.000	1508.51

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 4.970 5ADF04001
% SOLIDS: 77.400

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-55.956	1.000	0.615 U
SM02	ALUMINUM	470022.000	1.000	12218.583
SM03	ARSENIC	861.550	1.000	22.397
SM04	BARIUM	6205.115	1.000	161.307
SM05	BERYLLIUM	35.497	1.000	0.923
SM06	CADMIUM	23.849	1.000	0.620
SM07	COBALT	274.941	1.000	7.147
SM08	CHROMIUM	681.970	1.000	17.728
SM09	COPPER	842.758	1.000	21.908
SM10	IRON	475187.219	1.000	12352.857
SM11	MANGANESE	14384.307	1.000	373.931
SM12	MOLYBDENUM	7.161	1.000	0.393 U
SM13	NICKEL	789.839	1.000	20.532
SM14	LEAD	1584.041	1.000	41.178
SM15	ANTIMONY	101.665	1.000	2.643
SM16	SELENIUM	142.517	1.000	3.705
SM18	THALLIUM	-658.989	1.000	3.150 U
SM19	VANADIUM	1126.532	1.000	29.285
SM20	ZINC	4369.792	1.000	113.596
SM21	CALCIUM	509.533	1.000	13245.704
SM22	MAGNESIUM	176.091	1.000	4577.616
SM23	SODIUM	9.514	1.000	247.315
SM24	POTASSIUM	75.116	1.000	1952.694

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.270 5ADF04001S
% SOLIDS: 77.400

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	1036.482	1.000	25.410
SM02	ALUMINUM	117000.000	10.000	28683.641
SM03	ARSENIC	3112.025	1.000	76.294
SM04	BARIUM	11850.737	1.000	290.532
SM05	BERYLLIUM	756.295	1.000	18.541
SM06	CADMIUM	1102.330	1.000	27.025
SM07	COBALT	1210.214	1.000	29.670
SM08	CHROMIUM	1917.349	1.000	47.006
SM09	COPPER	1994.463	1.000	48.896
SM10	IRON	213000.000	10.000	52218.937
SM11	MANGANESE	34867.363	1.000	854.806
SM12	MOLYBDENUM	691.063	1.000	16.942
SM13	NICKEL	2004.123	1.000	49.133
SM14	LEAD	7108.658	1.000	174.275
SM15	ANTIMONY	8017.764	1.000	196.563
SM16	SELENIUM	1273.392	1.000	31.218
SM18	THALLIUM	8382.517	1.000	205.505
SM19	VANADIUM	2997.476	1.000	73.486
SM20	ZINC	21423.553	1.000	525.218
SM21	CALCIUM	128.000	10.000	31380.394
SM22	MAGNESIUM	820.356	1.000	20111.787
SM23	SODIUM	830.013	1.000	20348.544
SM24	POTASSIUM	1025.520	1.000	25141.568

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS

UNITS: MG/KG

LAB: REGION VII METHOD: 6010

SAM.PREP:TJA ANALYST: TJA

DATE: 12-01-94

SAMPLE WT: 5.000 5ADF04001R

% SOLIDS: 100.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	1000.000	1.000	20.00
SM02	ALUMINUM	510000.000	1.000	10200.00
SM03	ARSENIC	1000.000	1.000	20.00
SM04	BARIUM	6000.000	1.000	120.00
SM05	BERYLLIUM	1000.000	1.000	20.00
SM06	CADMIUM	1000.000	1.000	20.00
SM07	COBALT	1000.000	1.000	20.00
SM08	CHROMIUM	1000.000	1.000	20.00
SM09	COPPER	1000.000	1.000	20.00
SM10	IRON	2000000.000	1.000	40000.00
SM11	MANGANESE	27000.000	1.000	540.00
SM12	MOLYBDENUM	1000.000	1.000	20.00
SM13	NICKEL	1000.000	1.000	20.00
SM14	LEAD	6000.000	1.000	120.00
SM15	ANTIMONY	11000.000	1.000	220.00
SM16	SELENIUM	1000.000	1.000	20.00
SM18	THALLIUM	10000.000	1.000	200.00
SM19	VANADIUM	1000.000	1.000	20.00
SM20	ZINC	21000.000	1.000	420.00
SM21	CALCIUM	1000.000	1.000	20000.00
SM22	MAGNESIUM	1000.000	1.000	20000.00
SM23	SODIUM	1000.000	1.000	20000.00

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.210 5ADF04001W
% SOLIDS: 77.400

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	1042.395	1.000	25.850
SM02	ALUMINUM	110000.000	10.000	27278.093
SM03	ARSENIC	3155.015	1.000	78.239
SM04	BARIUM	11758.859	1.000	291.599
SM05	BERYLLIUM	762.807	1.000	18.916
SM06	CADMIUM	1116.032	1.000	27.676
SM07	COBALT	1206.651	1.000	29.923
SM08	CHROMIUM	1867.153	1.000	46.302
SM09	COPPER	1982.035	1.000	49.151
SM10	IRON	211000.000	10.000	52324.341
SM11	MANGANESE	34802.750	1.000	863.048
SM12	MOLYBDENUM	686.313	1.000	17.019
SM13	NICKEL	1981.855	1.000	49.147
SM14	LEAD	7098.472	1.000	176.030
SM15	ANTIMONY	8598.771	1.000	213.235
SM16	SELENIUM	1205.785	1.000	29.901
SM18	THALLIUM	8617.014	1.000	213.687
SM19	VANADIUM	2897.981	1.000	71.865
SM20	ZINC	21516.594	1.000	533.574
SM21	CALCIUM	126.000	10.000	31245.815
SM22	MAGNESIUM	810.586	1.000	20101.135
SM23	SODIUM	828.006	1.000	20533.108
SM24	POTASSIUM	1018.800	1.000	25264.464

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS

UNITS: MG/KG

LAB: REGION VII METHOD: 6010

SAM.PREP:TJA ANALYST: TJA

DATE: 12-01-94

SAMPLE WT: 5.000 5ADF04001B

% SOLIDS: 100.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	1000.000	1.000	20.00
SM02	ALUMINUM	510000.000	1.000	10200.00
SM03	ARSENIC	1000.000	1.000	20.00
SM04	BARIUM	6000.000	1.000	120.00
SM05	BERYLLIUM	1000.000	1.000	20.00
SM06	CADMIUM	1000.000	1.000	20.00
SM07	COBALT	1000.000	1.000	20.00
SM08	CHROMIUM	1000.000	1.000	20.00
SM09	COPPER	1000.000	1.000	20.00
SM10	IRON	2000000.000	1.000	40000.00
SM11	MANGANESE	27000.000	1.000	540.00
SM12	MOLYBDENUM	1000.000	1.000	20.00
SM13	NICKEL	1000.000	1.000	20.00
SM14	LEAD	6000.000	1.000	120.00
SM15	ANTIMONY	11000.000	1.000	220.00
SM16	SELENIUM	1000.000	1.000	20.00
SM18	THALLIUM	10000.000	1.000	200.00
SM19	VANADIUM	1000.000	1.000	20.00
SM20	ZINC	21000.000	1.000	420.00
SM21	CALCIUM	1000.000	1.000	20000.00
SM22	MAGNESIUM	1000.000	1.000	20000.00
SM23	SODIUM	1000.000	1.000	20000.00

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.020 5ADF04002
% SOLIDS: 81.600

		ICAP DATA	DILUTION	mg/KG	
SM01	SILVER	-35.831	1.000	0.615	U
SM02	ALUMINUM	372317.188	1.000	9089.065	
SM03	ARSENIC	839.076	1.000	20.484	
SM04	BARIUM	5776.080	1.000	141.007	
SM05	BERYLLIUM	32.640	1.000	0.797	
SM06	CADMIUM	17.355	1.000	0.487	U
SM07	COBALT	272.565	1.000	6.654	
SM08	CHROMIUM	481.639	1.000	11.758	
SM09	COPPER	590.823	1.000	14.423	
SM10	IRON	449716.000	1.000	10978.537	
SM11	MANGANESE	13695.734	1.000	334.342	
SM12	MOLYBDENUM	14.355	1.000	0.393	U
SM13	NICKEL	756.486	1.000	18.467	
SM14	LEAD	989.813	1.000	24.163	
SM15	ANTIMONY	110.243	1.000	2.691	
SM16	SELENIUM	80.714	1.000	3.090	U
SM18	THALLIUM	-459.505	1.000	3.150	U
SM19	VANADIUM	993.872	1.000	24.263	
SM20	ZINC	2714.273	1.000	66.261	
SM21	CALCIUM	235.466	1.000	5748.238	
SM22	MAGNESIUM	134.880	1.000	3292.711	
SM23	SODIUM	4.622	1.000	112.831	
SM24	POTASSIUM	70.759	1.000	1727.371	

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.150 5ADF04003
% SOLIDS: 82.300

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-42.083	1.000	0.615 U
SM02	ALUMINUM	353960.813	1.000	8351.185
SM03	ARSENIC	697.154	1.000	16.448
SM04	BARIUM	5660.806	1.000	133.558
SM05	BERYLLIUM	27.976	1.000	0.660
SM06	CADMIUM	18.105	1.000	0.487 U
SM07	COBALT	230.404	1.000	5.436
SM08	CHROMIUM	462.908	1.000	10.922
SM09	COPPER	468.815	1.000	11.061
SM10	IRON	372529.563	1.000	8789.288
SM11	MANGANESE	11750.791	1.000	277.243
SM12	MOLYBDENUM	16.862	1.000	0.398
SM13	NICKEL	600.762	1.000	14.174
SM14	LEAD	954.160	1.000	22.512
SM15	ANTIMONY	86.222	1.000	2.034
SM16	SELENIUM	89.430	1.000	3.090 U
SM18	THALLIUM	-324.076	1.000	3.150 U
SM19	VANADIUM	947.729	1.000	22.360
SM20	ZINC	2376.906	1.000	56.080
SM21	CALCIUM	520.660	1.000	12284.206
SM22	MAGNESIUM	110.063	1.000	2596.766
SM23	SODIUM	6.210	1.000	146.512
SM24	POTASSIUM	74.134	1.000	1749.080

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.050 5ADF04004
% SOLIDS: 87.300

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-24.412	1.000	0.615 U
SM02	ALUMINUM	223638.953	1.000	5072.731
SM03	ARSENIC	613.584	1.000	13.918
SM04	BARIUM	4006.236	1.000	90.872
SM05	BERYLLIUM	21.589	1.000	0.490
SM06	CADMIUM	0.968	1.000	0.487 U
SM07	COBALT	242.874	1.000	5.509
SM08	CHROMIUM	346.017	1.000	7.849
SM09	COPPER	223.757	1.000	5.075
SM10	IRON	342779.563	1.000	7775.159
SM11	MANGANESE	7559.146	1.000	171.462
SM12	MOLYBDENUM	60.621	1.000	1.375
SM13	NICKEL	560.751	1.000	12.719
SM14	LEAD	573.854	1.000	13.017
SM15	ANTIMONY	90.745	1.000	2.058
SM16	SELENIUM	66.705	1.000	3.090 U
SM18	THALLIUM	-259.691	1.000	3.150 U
SM19	VANADIUM	739.726	1.000	16.779
SM20	ZINC	1379.647	1.000	31.294
SM21	CALCIUM	70.113	1.000	1590.361
SM22	MAGNESIUM	71.519	1.000	1622.238
SM23	SODIUM	6.193	1.000	140.468
SM24	POTASSIUM	35.508	1.000	805.415

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.100 5ADF04005
% SOLIDS: 86.100

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-30.523	1.000	0.615 U
SM02	ALUMINUM	228364.734	1.000	5200.627
SM03	ARSENIC	609.133	1.000	13.872
SM04	BARIUM	4181.091	1.000	95.217
SM05	BERYLLIUM	21.702	1.000	0.494
SM06	CADMIUM	-2.935	1.000	0.487 U
SM07	COBALT	219.121	1.000	4.990
SM08	CHROMIUM	332.495	1.000	7.572
SM09	COPPER	228.831	1.000	5.211
SM10	IRON	349137.125	1.000	7951.017
SM11	MANGANESE	8212.060	1.000	187.016
SM12	MOLYBDENUM	6.197	1.000	0.393 U
SM13	NICKEL	597.041	1.000	13.597
SM14	LEAD	534.805	1.000	12.179
SM15	ANTIMONY	88.521	1.000	2.016
SM16	SELENIUM	78.438	1.000	3.090 U
SM18	THALLIUM	-296.503	1.000	3.150 U
SM19	VANADIUM	719.539	1.000	16.386
SM20	ZINC	1348.861	1.000	30.718
SM21	CALCIUM	62.982	1.000	1434.299
SM22	MAGNESIUM	75.168	1.000	1711.823
SM23	SODIUM	5.476	1.000	124.701
SM24	POTASSIUM	36.704	1.000	835.863

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 7.120 5ADF04006
% SOLIDS: 88.700

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	33.800	10.000	6.150 U
SM02	ALUMINUM	24168.711	1.000	382.692
SM03	ARSENIC	147.043	1.000	2.328
SM04	BARIUM	234.640	1.000	3.715
SM05	BERYLLIUM	3.962	1.000	0.139 U
SM06	CADMIUM	39.212	1.000	0.621
SM07	COBALT	13.658	1.000	0.664 U
SM08	CHROMIUM	236.717	1.000	3.748
SM09	COPPER	49.150	1.000	0.778
SM10	IRON	77619.359	1.000	1229.041
SM11	MANGANESE	2889.874	1.000	45.759
SM12	MOLYBDENUM	205.459	1.000	3.253
SM13	NICKEL	166.233	1.000	2.632
SM14	LEAD	50.934	1.000	0.806
SM15	ANTIMONY	44.241	1.000	0.701
SM16	SELENIUM	93.408	1.000	3.090 U
SM18	THALLIUM	174.142	1.000	3.150 U
SM19	VANADIUM	161.139	1.000	3.050 U
SM20	ZINC	1238.935	1.000	19.618
SM21	CALCIUM	932.512	1.000	14765.594
SM22	MAGNESIUM	587.000	10.000	92946.810
SM23	SODIUM	12.956	1.000	205.151
SM24	POTASSIUM	7.751	1.000	122.734

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.190 5ADF04007
% SOLIDS: 85.800

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-47.700	1.000	0.615 U
SM02	ALUMINUM	303000.000	1.000	6804.371
SM03	ARSENIC	967.000	1.000	21.716
SM04	BARIUM	6510.000	1.000	146.193
SM05	BERYLLIUM	28.500	1.000	0.640
SM06	CADMIUM	-5.180	1.000	0.487 U
SM07	COBALT	258.000	1.000	5.794
SM08	CHROMIUM	395.000	1.000	8.870
SM09	COPPER	495.000	1.000	11.116
SM10	IRON	417000.000	1.000	9364.431
SM11	MANGANESE	11100.000	1.000	249.269
SM12	MOLYBDENUM	22.000	1.000	0.494
SM13	NICKEL	711.000	1.000	15.967
SM14	LEAD	753.000	1.000	16.910
SM15	ANTIMONY	57.100	1.000	1.282
SM16	SELENIUM	-69.100	1.000	3.090 U
SM18	THALLIUM	-245.000	1.000	3.150 U
SM19	VANADIUM	931.000	1.000	20.907
SM20	ZINC	1750.000	1.000	39.299
SM21	CALCIUM	359.000	1.000	8061.944
SM22	MAGNESIUM	193.000	1.000	4334.137
SM23	SODIUM	10.400	1.000	233.549
SM24	POTASSIUM	48.500	1.000	1089.148

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.770 5ADF04008
% SOLIDS: 87.900

		ICAP DATA	DILUTION	mg/KG	
SM01	SILVER	10.800	10.000	6.150	U
SM02	ALUMINUM	64200.000	1.000	1265.815	
SM03	ARSENIC	247.000	1.000	4.870	
SM04	BARIUM	301.000	1.000	5.935	
SM05	BERYLLIUM	4.310	1.000	0.139	U
SM06	CADMIUM	36.100	1.000	0.712	
SM07	COBALT	28.300	1.000	0.664	U
SM08	CHROMIUM	154.000	1.000	3.036	
SM09	COPPER	120.000	1.000	2.366	
SM10	IRON	102000.000	1.000	2011.108	
SM11	MANGANESE	3840.000	1.000	75.712	
SM12	MOLYBDENUM	51.200	1.000	1.009	
SM13	NICKEL	165.000	1.000	3.253	
SM14	LEAD	131.000	1.000	2.583	
SM15	ANTIMONY	37.400	1.000	0.737	
SM16	SELENIUM	159.000	1.000	3.135	
SM18	THALLIUM	112.000	1.000	3.150	U
SM19	VANADIUM	286.000	1.000	5.639	
SM20	ZINC	539.000	1.000	10.627	
SM21	CALCIUM	1040.000	1.000	20505.419	
SM22	MAGNESIUM	229.000	10.000	45151.356	
SM23	SODIUM	17.100	1.000	337.156	
SM24	POTASSIUM	21.300	1.000	419.967	

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.080 5ADF04009
% SOLIDS: 57.200

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-61.000	1.000	0.615 U
SM02	ALUMINUM	390000.000	1.000	13421.618
SM03	ARSENIC	1280.000	1.000	44.050
SM04	BARIUM	6950.000	1.000	239.180
SM05	BERYLLIUM	35.800	1.000	1.232
SM06	CADMIUM	-6.370	1.000	0.487 U
SM07	COBALT	300.000	1.000	10.324
SM08	CHROMIUM	509.000	1.000	17.517
SM09	COPPER	618.000	1.000	21.268
SM10	IRON	507000.000	1.000	17448.103
SM11	MANGANESE	16900.000	1.000	581.603
SM12	MOLYBDENUM	-16.700	1.000	0.393 U
SM13	NICKEL	954.000	1.000	32.831
SM14	LEAD	880.000	1.000	30.285
SM15	ANTIMONY	110.000	1.000	3.786
SM16	SELENIUM	-146.000	1.000	3.090 U
SM18	THALLIUM	-289.000	1.000	3.150 U
SM19	VANADIUM	1190.000	1.000	40.953
SM20	ZINC	2010.000	1.000	69.173
SM21	CALCIUM	138.000	1.000	4749.188
SM22	MAGNESIUM	137.000	1.000	4714.773
SM23	SODIUM	11.300	1.000	388.883
SM24	POTASSIUM	60.700	1.000	2088.954

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.310 5ADF04010
% SOLIDS: 88.900

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	44.900	1.000	0.951
SM02	ALUMINUM	71200.000	1.000	1508.286
SM03	ARSENIC	263.000	1.000	5.571
SM04	BARIUM	249.000	1.000	5.275
SM05	BERYLLIUM	4.710	1.000	0.139 U
SM06	CADMIUM	69.800	1.000	1.479
SM07	COBALT	28.300	1.000	0.664 U
SM08	CHROMIUM	247.000	1.000	5.232
SM09	COPPER	118.000	1.000	2.500
SM10	IRON	86800.000	1.000	1838.753
SM11	MANGANESE	2990.000	1.000	63.340
SM12	MOLYBDENUM	191.000	1.000	4.046
SM13	NICKEL	270.000	1.000	5.720
SM14	LEAD	144.000	1.000	3.050
SM15	ANTIMONY	37.600	1.000	0.797
SM16	SELENIUM	138.000	1.000	3.090 U
SM18	THALLIUM	267.000	1.000	5.656
SM19	VANADIUM	234.000	1.000	4.957
SM20	ZINC	1940.000	1.000	41.097
SM21	CALCIUM	1030.000	1.000	21819.306
SM22	MAGNESIUM	878.000	1.000	18599.370
SM23	SODIUM	16.200	1.000	343.177
SM24	POTASSIUM	23.600	1.000	499.938

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP: TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.060 5ADF04011
% SOLIDS: 87.800

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-26.800	1.000	0.615 U
SM02	ALUMINUM	206000.000	1.000	4636.841
SM03	ARSENIC	630.000	1.000	14.181
SM04	BARIUM	3710.000	1.000	83.508
SM05	BERYLLIUM	17.900	1.000	0.403
SM06	CADMIUM	-1.200	1.000	0.487 U
SM07	COBALT	190.000	1.000	4.277
SM08	CHROMIUM	330.000	1.000	7.428
SM09	COPPER	238.000	1.000	5.357
SM10	IRON	283000.000	1.000	6370.029
SM11	MANGANESE	5850.000	1.000	131.677
SM12	MOLYBDENUM	35.000	1.000	0.788
SM13	NICKEL	482.000	1.000	10.849
SM14	LEAD	652.000	1.000	14.676
SM15	ANTIMONY	78.700	1.000	1.771
SM16	SELENIUM	-101.000	1.000	3.090 U
SM18	THALLIUM	-64.900	1.000	3.150 U
SM19	VANADIUM	623.000	1.000	14.023
SM20	ZINC	1450.000	1.000	32.638
SM21	CALCIUM	363.000	1.000	8170.744
SM22	MAGNESIUM	123.000	1.000	2768.599
SM23	SODIUM	7.280	1.000	163.865
SM24	POTASSIUM	34.300	1.000	772.057

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.280 5ADF04012
% SOLIDS: 81.000

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-39.600	1.000	0.615 U
SM02	ALUMINUM	335000.000	1.000	7832.959
SM03	ARSENIC	1040.000	1.000	24.317
SM04	BARIUM	5940.000	1.000	138.889
SM05	BERYLLIUM	30.500	1.000	0.713
SM06	CADMIUM	12.200	1.000	0.487 U
SM07	COBALT	242.000	1.000	5.658
SM08	CHROMIUM	439.000	1.000	10.265
SM09	COPPER	565.000	1.000	13.211
SM10	IRON	423000.000	1.000	9890.572
SM11	MANGANESE	21300.000	1.000	498.036
SM12	MOLYBDENUM	-12.200	1.000	0.393 U
SM13	NICKEL	889.000	1.000	20.787
SM14	LEAD	875.000	1.000	20.459
SM15	ANTIMONY	108.000	1.000	2.525
SM16	SELENIUM	-205.000	1.000	3.090 U
SM18	THALLIUM	-141.000	1.000	3.150 U
SM19	VANADIUM	1110.000	1.000	25.954
SM20	ZINC	1970.000	1.000	46.062
SM21	CALCIUM	600.000	1.000	14029.181
SM22	MAGNESIUM	242.000	1.000	5658.436
SM23	SODIUM	7.140	1.000	166.947
SM24	POTASSIUM	54.900	1.000	1283.670

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.180 5ADF04013
% SOLIDS: 82.300

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-53.500	1.000	0.615 U
SM02	ALUMINUM	456000.000	1.000	10696.341
SM03	ARSENIC	1130.000	1.000	26.506
SM04	BARIUM	7260.000	1.000	170.297
SM05	BERYLLIUM	34.300	1.000	0.805
SM06	CADMIUM	6.540	1.000	0.487 U
SM07	COBALT	210.000	1.000	4.926
SM08	CHROMIUM	523.000	1.000	12.268
SM09	COPPER	587.000	1.000	13.769
SM10	IRON	398000.000	1.000	9335.842
SM11	MANGANESE	9770.000	1.000	229.174
SM12	MOLYBDENUM	-25.000	1.000	0.393 U
SM13	NICKEL	597.000	1.000	14.004
SM14	LEAD	853.000	1.000	20.009
SM15	ANTIMONY	88.500	1.000	2.076
SM16	SELENIUM	-121.000	1.000	3.090 U
SM18	THALLIUM	-229.000	1.000	3.150 U
SM19	VANADIUM	1040.000	1.000	24.395
SM20	ZINC	1850.000	1.000	43.395
SM21	CALCIUM	89.700	10.000	21040.829
SM22	MAGNESIUM	325.000	1.000	7623.489
SM23	SODIUM	8.270	1.000	193.988
SM24	POTASSIUM	75.800	1.000	1778.032

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.510 5ADF04014
% SOLIDS: 86.500

		ICAP DATA	DILUTION	mg/KG	
SM01	SILVER	-41.600	1.000	0.615	U
SM02	ALUMINUM	293000.000	1.000	6147.519	
SM03	ARSENIC	886.000	1.000	18.589	
SM04	BARIUM	4880.000	1.000	102.389	
SM05	BERYLLIUM	25.700	1.000	0.539	
SM06	CADMIUM	-0.024	1.000	0.487	U
SM07	COBALT	227.000	1.000	4.763	
SM08	CHROMIUM	443.000	1.000	9.295	
SM09	COPPER	356.000	1.000	7.469	
SM10	IRON	359000.000	1.000	7532.285	
SM11	MANGANESE	5310.000	1.000	111.411	
SM12	MOLYBDENUM	-10.500	1.000	0.393	U
SM13	NICKEL	596.000	1.000	12.505	
SM14	LEAD	1060.000	1.000	22.240	
SM15	ANTIMONY	106.000	1.000	2.224	
SM16	SELENIUM	-82.800	1.000	3.090	U
SM18	THALLIUM	-93.200	1.000	3.150	U
SM19	VANADIUM	905.000	1.000	18.988	
SM20	ZINC	3780.000	1.000	79.309	
SM21	CALCIUM	169.000	1.000	3545.839	
SM22	MAGNESIUM	114.000	1.000	2391.868	
SM23	SODIUM	12.400	1.000	260.168	
SM24	POTASSIUM	52.400	1.000	1099.420	

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 4.910 5ADF04015
% SOLIDS: 84.300

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-27.100	1.000	0.615 U
SM02	ALUMINUM	159000.000	1.000	3841.387
SM03	ARSENIC	584.000	1.000	14.109
SM04	BARIUM	3280.000	1.000	79.244
SM05	BERYLLIUM	16.600	1.000	0.401
SM06	CADMIUM	-11.500	1.000	0.487 U
SM07	COBALT	190.000	1.000	4.590
SM08	CHROMIUM	264.000	1.000	6.378
SM09	COPPER	152.000	1.000	3.672
SM10	IRON	282000.000	1.000	6813.026
SM11	MANGANESE	5650.000	1.000	136.502
SM12	MOLYBDENUM	-5.220	1.000	0.393 U
SM13	NICKEL	531.000	1.000	12.829
SM14	LEAD	436.000	1.000	10.534
SM15	ANTIMONY	40.600	1.000	0.981
SM16	SELENIUM	-154.000	1.000	3.090 U
SM18	THALLIUM	-19.000	1.000	3.150 U
SM19	VANADIUM	600.000	1.000	14.496
SM20	ZINC	1040.000	1.000	25.126
SM21	CALCIUM	56.700	1.000	1369.853
SM22	MAGNESIUM	61.600	1.000	1488.235
SM23	SODIUM	5.330	1.000	128.771
SM24	POTASSIUM	26.300	1.000	635.399

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.060 5ADF04016
% SOLIDS: 82.900

		ICAP DATA	DILUTION	mg/KG	
SM01	SILVER	-37.800	1.000	0.615	U
SM02	ALUMINUM	204000.000	1.000	4863.233	
SM03	ARSENIC	797.000	1.000	19.000	
SM04	BARIUM	3320.000	1.000	79.147	
SM05	BERYLLIUM	20.100	1.000	0.479	
SM06	CADMIUM	-12.600	1.000	0.487	U
SM07	COBALT	231.000	1.000	5.507	
SM08	CHROMIUM	314.000	1.000	7.486	
SM09	COPPER	245.000	1.000	5.841	
SM10	IRON	327000.000	1.000	7795.477	
SM11	MANGANESE	6870.000	1.000	163.777	
SM12	MOLYBDENUM	-3.130	1.000	0.393	U
SM13	NICKEL	647.000	1.000	15.424	
SM14	LEAD	562.000	1.000	13.398	
SM15	ANTIMONY	71.900	1.000	1.714	
SM16	SELENIUM	-92.100	1.000	3.090	U
SM18	THALLIUM	-39.900	1.000	3.150	U
SM19	VANADIUM	711.000	1.000	16.950	
SM20	ZINC	1300.000	1.000	30.991	
SM21	CALCIUM	62.200	1.000	1482.809	
SM22	MAGNESIUM	70.100	1.000	1671.141	
SM23	SODIUM	10.500	1.000	250.313	
SM24	POTASSIUM	28.700	1.000	684.190	

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.300 5ADF04017
% SOLIDS: 82.800

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-43.500	1.000	0.615 U
SM02	ALUMINUM	301000.000	1.000	6858.992
SM03	ARSENIC	1120.000	1.000	25.522
SM04	BARIUM	4310.000	1.000	98.213
SM05	BERYLLIUM	28.900	1.000	0.659
SM06	CADMIUM	-8.310	1.000	0.487 U
SM07	COBALT	285.000	1.000	6.494
SM08	CHROMIUM	422.000	1.000	9.616
SM09	COPPER	394.000	1.000	8.978
SM10	IRON	421000.000	1.000	9593.474
SM11	MANGANESE	9860.000	1.000	224.683
SM12	MOLYBDENUM	0.595	1.000	0.393 U
SM13	NICKEL	939.000	1.000	21.397
SM14	LEAD	783.000	1.000	17.842
SM15	ANTIMONY	112.000	1.000	2.552
SM16	SELENIUM	-74.700	1.000	3.090 U
SM18	THALLIUM	-95.600	1.000	3.150 U
SM19	VANADIUM	976.000	1.000	22.240
SM20	ZINC	1710.000	1.000	38.966
SM21	CALCIUM	72.700	1.000	1656.640
SM22	MAGNESIUM	85.600	1.000	1950.597
SM23	SODIUM	23.900	1.000	544.618
SM24	POTASSIUM	41.400	1.000	943.396

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.370 5ADF04018
% SOLIDS: 82.400

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-44.200	1.000	0.615 U
SM02	ALUMINUM	359000.000	1.000	8113.214
SM03	ARSENIC	1100.000	1.000	24.859
SM04	BARIUM	5530.000	1.000	124.975
SM05	BERYLLIUM	30.600	1.000	0.692
SM06	CADMIUM	-1.650	1.000	0.487 U
SM07	COBALT	214.000	1.000	4.836
SM08	CHROMIUM	570.000	1.000	12.882
SM09	COPPER	447.000	1.000	10.102
SM10	IRON	368000.000	1.000	8316.610
SM11	MANGANESE	11600.000	1.000	262.154
SM12	MOLYBDENUM	-15.500	1.000	0.393 U
SM13	NICKEL	636.000	1.000	14.373
SM14	LEAD	959.000	1.000	21.673
SM15	ANTIMONY	69.500	1.000	1.571
SM16	SELENIUM	-143.000	1.000	3.090 U
SM18	THALLIUM	-102.000	1.000	3.150 U
SM19	VANADIUM	975.000	1.000	22.034
SM20	ZINC	1960.000	1.000	44.295
SM21	CALCIUM	121.000	1.000	2734.537
SM22	MAGNESIUM	96.300	1.000	2176.330
SM23	SODIUM	4.780	1.000	108.026
SM24	POTASSIUM	67.400	1.000	1523.205

ANALYSIS TYPE: TOTAL METALS

TITLE: ADF04 MATRIX: SOILS UNITS: MG/KG
LAB: REGION VII METHOD: 6010
SAM.PREP:TJA ANALYST: TJA DATE: 12-01-94

SAMPLE WT: 5.100 5ADF04019
% SOLIDS: 79.700

		ICAP DATA	DILUTION	mg/KG
SM01	SILVER	-83.100	1.000	0.615 U
SM02	ALUMINUM	70000.000	10.000	17221.443
SM03	ARSENIC	1950.000	1.000	47.974
SM04	BARIUM	6020.000	1.000	148.104
SM05	BERYLLIUM	50.300	1.000	1.237
SM06	CADMIUM	2.360	1.000	0.487 U
SM07	COBALT	426.000	1.000	10.480
SM08	CHROMIUM	661.000	1.000	16.262
SM09	COPPER	866.000	1.000	21.305
SM10	IRON	81500.000	10.000	20050.680
SM11	MANGANESE	23000.000	1.000	565.847
SM12	MOLYBDENUM	-37.400	1.000	0.393 U
SM13	NICKEL	974.000	1.000	23.962
SM14	LEAD	1270.000	1.000	31.245
SM15	ANTIMONY	153.000	1.000	3.764
SM16	SELENIUM	-303.000	1.000	3.090 U
SM18	THALLIUM	-499.000	1.000	3.150 U
SM19	VANADIUM	1340.000	1.000	32.967
SM20	ZINC	2620.000	1.000	64.457
SM21	CALCIUM	178.000	1.000	4379.167
SM22	MAGNESIUM	163.000	1.000	4010.136
SM23	SODIUM	4.520	1.000	111.201
SM24	POTASSIUM	67.700	1.000	1665.560

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04950M

WM01	SILVER	7.88	U
WM02	ALUMINUM	50.7	U
WM27	ARSENIC	1.66	U
WM04	BARIUM	3.94	U
WM05	BERYLLIUM	0.995	U
WM06	CADMIUM	3.69	U
WM07	COBALT	5.31	U
WM08	CHROMIUM	14.2	U
WM09	COPPER	8.32	U
WM10	IRON	65.9	U
WM11	MANGANESE	1.53	U
WM12	MOLYBDENUM	5.62	U
WM13	NICKEL	11.5	U
WM30	LEAD	0.557	U
WM31	ANTIMONY	4.37	U
WM32	SELENIUM	1.81	U
WM17	TITANIUM	15.2	U
WM33	THALLIUM	1.44	U
WM19	VANADIUM	2.51	U
WM20	ZINC	15.99333	X 5 = 80.0
WM21	CALCIUM MG/L	1.1	U
WM22	MAGNESIUM MG/L	1.03	U
WM23	SODIUM MG/L	1.61	U
WM24	POTASSIUM MG/L	1.04	U

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04950G

WM01	SILVER		98.5
WM02	ALUMINUM		948
WM27	ARSENIC		47.3
WM04	BARIUM		932.39843
WM05	BERYLLIUM		91.23204
WM06	CADMIUM		88.30548
WM07	COBALT		89.10433
WM08	CHROMIUM		89.3646
WM09	COPPER		946.10534
WM10	IRON		932.18713
WM11	MANGANESE		890.08789
WM12	MOLYBDENUM		97.0287
WM13	NICKEL		893.74291
WM30	LEAD		48.7
WM31	ANTIMONY		921
WM32	SELENIUM		47.2
WM17	TITANIUM		888.31164
WM33	THALLIUM		43.2
WM19	VANADIUM		93.50091
WM20	ZINC		950.49987
WM21	CALCIUM	MG/L	117.25837
WM22	MAGNESIUM	MG/L	86.94475
WM23	SODIUM	MG/L	92.64227
WM24	POTASSIUM	MG/L	91.17264

ANALYSIS TYPE: TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04950H

WM01	SILVER		93.7
WM02	ALUMINUM		1000
WM27	ARSENIC		50
WM04	BARIUM		1000
WM05	BERYLLIUM		100
WM06	CADMIUM		100
WM07	COBALT		100
WM08	CHROMIUM		100
WM09	COPPER		1000
WM10	IRON		1000
WM11	MANGANESE		1000
WM12	MOLYBDENUM		100
WM13	NICKEL		1000
WM30	LEAD		50
WM31	ANTIMONY		1000
WM32	SELENIUM		50
WM17	TITANIUM		1000
WM33	THALLIUM		50
WM19	VANADIUM		100
WM20	ZINC		1000
WM21	CALCIUM	MG/L	122
WM22	MAGNESIUM	MG/L	100
WM23	SODIUM	MG/L	92.3
WM24	POTASSIUM	MG/L	91.7

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04022

WM01	SILVER	7.88	U
WM02	ALUMINUM	50.7	U
WM27	ARSENIC	1.66	U
WM04	BARIUM	3.94	U
WM05	BERYLLIUM	0.995	U
WM06	CADMIUM	3.69	U
WM07	COBALT	5.31	U
WM08	CHROMIUM	14.2	U
WM09	COPPER	8.32	U
WM10	IRON	65.9	U
WM11	MANGANESE	1.53	U
WM12	MOLYBDENUM	5.62	U
WM13	NICKEL	11.5	U
WM30	LEAD	0.557	U
WM31	ANTIMONY	4.37	U
WM32	SELENIUM	1.81	U
WM17	TITANIUM	15.2	U
WM33	THALLIUM	1.44	U
WM19	VANADIUM	2.51	U
WM20	ZINC	17.92353	U
WM21	CALCIUM MG/L	1.1	U
WM22	MAGNESIUM MG/L	1.03	U
WM23	SODIUM MG/L	1.61	U
WM24	POTASSIUM MG/L	1.04	U

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04023

WM01	SILVER		7.88	U
WM02	ALUMINUM		50.7	U
WM27	ARSENIC		1.66	U
WM04	BARIUM		53.28353	
WM05	BERYLLIUM		0.995	U
WM06	CADMIUM		3.69	U
WM07	COBALT		5.31	U
WM08	CHROMIUM		14.2	U
WM09	COPPER		8.32	U
WM10	IRON		65.9	U
WM11	MANGANESE		7.6652	
WM12	MOLYBDENUM		5.62	U
WM13	NICKEL		11.5	U
WM30	LEAD		0.557	U
WM31	ANTIMONY		4.37	U
WM32	SELENIUM		1.81	U
WM17	TITANIUM		15.2	U
WM33	THALLIUM		1.44	U
WM19	VANADIUM		2.51	U
WM20	ZINC		22.39431	U
WM21	CALCIUM	MG/L	24.78795	
WM22	MAGNESIUM	MG/L	15.78493	
WM23	SODIUM	MG/L	10.31066	
WM24	POTASSIUM	MG/L	1.33997	

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04024

WM01	SILVER	7.88	U
WM02	ALUMINUM	50.7	U
WM27	ARSENIC	1.66	U
WM04	BARIUM	3.94	U
WM05	BERYLLIUM	0.995	U
WM06	CADMIUM	3.69	U
WM07	COBALT	5.31	U
WM08	CHROMIUM	14.2	U
WM09	COPPER	8.32	U
WM10	IRON	65.9	U
WM11	MANGANESE	1.53	U
WM12	MOLYBDENUM	5.62	U
WM13	NICKEL	11.5	U
WM30	LEAD	0.557	U
WM31	ANTIMONY	4.37	U
WM32	SELENIUM	1.81	U
WM17	TITANIUM	15.2	U
WM33	THALLIUM	1.44	U
WM19	VANADIUM	2.51	U
WM20	ZINC	10.8609	U
WM21	CALCIUM MG/L	1.1	U
WM22	MAGNESIUM MG/L	1.03	U
WM23	SODIUM MG/L	1.61	U
WM24	POTASSIUM MG/L	1.04	U

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04025F

WM01	SILVER		7.88	U
WM02	ALUMINUM		50.7	U
WM27	ARSENIC		1.66	U
WM04	BARIUM		3.94	U
WM05	BERYLLIUM		0.995	U
WM06	CADMIUM		3.69	U
WM07	COBALT		5.31	U
WM08	CHROMIUM		14.2	U
WM09	COPPER		8.32	U
WM10	IRON		65.9	U
WM11	MANGANESE		1.53	U
WM12	MOLYBDENUM		5.62	U
WM13	NICKEL		11.5	U
WM30	LEAD		0.8	
WM31	ANTIMONY		4.37	U
WM32	SELENIUM		1.81	U
WM17	TITANIUM		15.2	U
WM33	THALLIUM		1.44	U
WM19	VANADIUM		2.51	U
WM20	ZINC		51.82406	U
WM21	CALCIUM	MG/L	1.1	U
WM22	MAGNESIUM	MG/L	1.03	U
WM23	SODIUM	MG/L	1.61	U
WM24	POTASSIUM	MG/L	1.04	U

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04026

WM01	SILVER		7.88	U
WM02	ALUMINUM		50.7	U
WM27	ARSENIC		1.66	U
WM04	BARIUM		3.94	U
WM05	BERYLLIUM		0.995	U
WM06	CADMIUM		3.69	U
WM07	COBALT		5.31	U
WM08	CHROMIUM		14.2	U
WM09	COPPER		8.32	U
WM10	IRON		65.9	U
WM11	MANGANESE		1.53	U
WM12	MOLYBDENUM		5.62	U
WM13	NICKEL		11.5	U
WM30	LEAD		0.557	U
WM31	ANTIMONY		4.37	U
WM32	SELENIUM		1.81	U
WM17	TITANIUM		15.2	U
WM33	THALLIUM		2.8	
WM19	VANADIUM		2.51	U
WM20	ZINC		14.73236	U
WM21	CALCIUM	MG/L	1.1	U
WM22	MAGNESIUM	MG/L	1.03	U
WM23	SODIUM	MG/L	1.61	U
WM24	POTASSIUM	MG/L	1.04	U

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04026S

WM01	SILVER		72.9248
WM02	ALUMINUM		921.23913
WM27	ARSENIC		36.8
WM04	BARIUM		938.89019
WM05	BERYLLIUM		92.48092
WM06	CADMIUM		91.49502
WM07	COBALT		91.87442
WM08	CHROMIUM		90.23612
WM09	COPPER		951.77807
WM10	IRON		915.6842
WM11	MANGANESE		899.54089
WM12	MOLYBDENUM		95.68991
WM13	NICKEL		902.76647
WM30	LEAD		43.1
WM31	ANTIMONY		1108
WM32	SELENIUM		44.1
WM17	TITANIUM		872.72723
WM33	THALLIUM		34.9
WM19	VANADIUM		89.51563
WM20	ZINC		959.42724
WM21	CALCIUM	MG/L	116.04022
WM22	MAGNESIUM	MG/L	84.85266
WM23	SODIUM	MG/L	89.57014
WM24	POTASSIUM	MG/L	88.31175

ANALYSIS TYPE: TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04026R

WM01	SILVER		93.7
WM02	ALUMINUM		1000
WM27	ARSENIC		50
WM04	BARIUM		1000
WM05	BERYLLIUM		100
WM06	CADMIUM		100
WM07	COBALT		100
WM08	CHROMIUM		100
WM09	COPPER		1000
WM10	IRON		1000
WM11	MANGANESE		1000
WM12	MOLYBDENUM		100
WM13	NICKEL		1000
WM30	LEAD		50
WM31	ANTIMONY		1000
WM32	SELENIUM		50
WM17	TITANIUM		1000
WM33	THALLIUM		50
WM19	VANADIUM		100
WM20	ZINC		1000
WM21	CALCIUM	MG/L	122
WM22	MAGNESIUM	MG/L	100
WM23	SODIUM	MG/L	92.3
WM24	POTASSIUM	MG/L	91.7

ANALYSIS TYPE: TOTAL WATER METALS
[INCLUDES AA METALS]

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04026W

WM01	SILVER		74.88106
WM02	ALUMINUM		928.16455
WM27	ARSENIC		40.1
WM04	BARIUM		958.63262
WM05	BERYLLIUM		94.14656
WM06	CADMIUM		90.45002
WM07	COBALT		92.79779
WM08	CHROMIUM		90.24363
WM09	COPPER		977.3009
WM10	IRON		921.8067
WM11	MANGANESE		913.74218
WM12	MOLYBDENUM		98.36414
WM13	NICKEL		918.92785
WM30	LEAD		41.8
WM31	ANTIMONY		815
WM32	SELENIUM		41.7
WM17	TITANIUM		881.1687
WM33	THALLIUM		31.5
WM19	VANADIUM		93.19435
WM20	ZINC		967.04406
WM21	CALCIUM	MG/L	117.02416
WM22	MAGNESIUM	MG/L	86.38908
WM23	SODIUM	MG/L	90.99868
WM24	POTASSIUM	MG/L	90.22402

ANALYSIS TYPE: TOTAL WATER METALS

TITLE: ADF04 MATRIX: WATER UNITS:UG/L
LAB: REGION VII METHOD: 6010
SAMPLE PREP:TJA ANALYST: TJA DATE: 12-01-94

5ADF04026B

WM01	SILVER		93.7
WM02	ALUMINUM		1000
WM27	ARSENIC		50
WM04	BARIUM		1000
WM05	BERYLLIUM		100
WM06	CADMIUM		100
WM07	COBALT		100
WM08	CHROMIUM		100
WM09	COPPER		1000
WM10	IRON		1000
WM11	MANGANESE		1000
WM12	MOLYBDENUM		100
WM13	NICKEL		1000
WM30	LEAD		50
WM31	ANTIMONY		1000
WM32	SELENIUM		50
WM17	TITANIUM		1000
WM33	THALLIUM		50
WM19	VANADIUM		100
WM20	ZINC		1000
WM21	CALCIUM	MG/L	122
WM22	MAGNESIUM	MG/L	100
WM23	SODIUM	MG/L	92.3
WM24	POTASSIUM	MG/L	91.7

CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION
1	11-18-94	JJA/MTT	ADF04 WQS	Total Water Metal

	SAMPLE NUMBER	100ml							
1	950m	•	•	•	•	•			
2	950G	•	spike @	1 ml	• #1(004)	• #2(010)	#3(012)		
3	950G low	•	spike	• @ ~~50ml~~	• 50ul	#1(004)	50ul	• 10ppm	Tl
4	022	•	•	•	•	•			
5	023	•	•	•	•	•			
6	024	•	•	•	•	•			
7	025F	•	•	•	•	•			
8	026	•	•	•	•	•			
9	026S	•	Spike @	1 ml	• #1 (004)	#2(010)	#3(012)		
0	026W	•	"	•	•	•			
1	026S low	•	spike @	50ul	• #1 (004)	• 50ul	10ppm	• Tl	
2	026W low	•	"	•	•	•			
3		•	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

1/3	11/20/94	KMC	ADF&4-McDonnell Douglas	Hg
CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION

	SAMPLE NUMBER	Vol (ml)							
1	SYNC	10							
2	BLANK	10							
3	4	4	- Standards = 0.01 µg/mL Hg						
4	2	2							
5	0.2	0.2							
6	0.0	0.0							
7	3	3							
8	1	1							
9	0.5	0.5							
0	BLANK	10							
1	CHECK		- 2.93 CHECK						
2	960M								
3	960G		- SPEX 2.93 µg/L						
4	022								
5	022S		- Spiked w/ 100 µL of 0.1 µg/mL Hg						
6	022W								
7	023								
8	024								
9	025F								
0	026								

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

2/3	11/26/94	KML	ADF&4	Hg
CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION

	SAMPLE NUMBER	Wt/Vol							
1	961M	10 ml	•	•	•	•			
2	961G	1.00 ml	-0.210 g LCS 287 digested overnight in con						
3	001	0.208 g	H_2SO_4/HNO_3 then diluted to 100 ml w/ DI H_2O						
4	001S	0.200 g	-Spiked w/ 100 µL of 0.1 µg/mL Hg						
5	001W	0.201 g	•	•	•	•			
6	002	0.196 g	•	•	•	•			
7	003	0.201 g	•	•	•	•			
8	004	0.204 g	•	•	•	•			
9	005	0.216 g	•	•	•	•			
0	006	0.204 g	•	•	•	•			
1	007	0.220 g	•	•	•	•			
2	008	0.221 g	•	•	•	•			
3	009	0.215 g	•	•	•	•			
4	010	0.217 g	•	•	•	•			
5	011	0.195 g	•	•	•	•			
6	012	0.208 g	•	•	•	•			
7	013	0.206 g	•	•	•	•			
8	014	0.221 g	•	•	•	•			
9	015	0.219 g	•	•	•	•			
0	016	0.218 g	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-770173S

1	11-21-94	DJA	ADF04 - CN⁻	ST09
CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION

	SAMPLE NUMBER								
1	952M	20.-	•	•	•	•			
2	952G	20.-	" •	•	•	• "			
3	001	19.46	•	•	•	•			
4	0015	19.79	opk @	2mls	10ppm	CN⁻ opk			
5	0013	19.86	" •	•	•	• "			
6	002	19.93	•	•	•	•			
7	003	19.87	•	•	•	•			
8	004	19.51	•	•	•	•			
9	005	19.71	•	•	•	•			
0	006	19.12	•	•	•	•			
1	007	19.75	•	•	•	•			
2	008	19.71	•	•	•	•			
3	009	19.60	•	•	•	•			
4	010	19.45	•	•	•	•			
5	011	19.17	•	•	•	•			
6	012	19.62	•	•	•	•			
7	013	19.69	•	•	•	•			
8	014	19.20	•	•	•	•			
9	015	19.22	•	•	•	•			
0	016	19.82	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION
2	11-21-94	JDG	ADF04 - CN-	ST09

	SAMPLE NUMBER								
1	017	19.27	•	•	•	•			
2	018	19.21	•	•	•	•			
3	019	19.89	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			
1		•	•	•	•	•			
2		•	•	•	•	•			
3		•	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-770173S

CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION
1	11-18-94	Jja	ADF04	% Solids

	SAMPLE NUMBER	pan wt	wet	Dry + pan	Dry	% Solids			
1	001	1.58	5.13	5.55	•	•			
2	002	1.58	5.16	5.79	•	•			
3	003	1.57	5.08	5.75	•	•			
4	004	1.58	5.02	5.96	•	•			
5	005	1.57	5.31	6.14	•	•			
6	006	1.57	6.84	7.64	•	•			
7	007	1.57	5.21	6.04	•	•			
8	008	1.58	5.55	6.46	•	•			
9	009	1.58	5.12	4.51	•	•			
0	010	1.57	5.33	6.31	•	•			
1	011	1.57	5.18	6.12	•	•			
2	012	1.58	5.43	5.98	•	•			
3	013	1.58	5.30	5.94	•	•			
4	014	1.58	6.66	7.34	•	•			
5	015	1.58	6.58	7.13	•	•			
6	016	1.59	5.66	6.28	•	•			
7	017	1.57	5.45	6.08	•	•			
8	018	1.57	5.31	5.97	•	•			
9	019	1.57	5.17	5.69	•	•			
? 0	005F	1.57	5.07	6.58	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

3/3	11/26/94	KML	ADF#4	Hg

CARD #	DATE	ANALYST	SAMPLE SOURCE			DETERMINATION			
	SAMPLE NUMBER	Wt/Vol							
1	017	0.218 g	•	•	•	•			
2	018	0.220 g	•	•	•	•			
3	019	0.220 g	•	•	•	•			
4	CHECK/G	1.00 ml	•	•	•	•			
5	BLANK	10 ml	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			
1		•	•	•	•	•			
2		•	•	•	•	•			
3		•	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION
1	11-18-94	29a	ADF04	Total metals

	SAMPLE NUMBER	wt (g)							
1	951 M	5	•	•	•	•			
2	951 C	1.08	LCS	0287	•	•			
3	001	4.97	•	•	•	•			
4	001 S	5.27	•	•	•	•			
5	001 W	5.21	•	•	•	•			
6	002	5.02	•	•	•	•			
7	003	5.15	•	•	•	•			
8	004	5.05	•	•	•	•			
9	~~005~~	5.10	•	•	•	•			
0	006	7.12	•	•	•	•			
1	007	5.19	•	•	•	•			
2	008	5.77	•	•	•	•			
3	009	5.08	•	•	•	•			
4	010	5.31	•	•	•	•			
5	011	5.06	•	•	•	•			
6	012	5.28	•	•	•	•			
7	013	5.98	•	•	•	•			
8	014	5.51	•	•	•	•			
9	015	4.91	•	•	•	•			
0	016	5.06	•	•	•	•			

9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

CARD #	DATE	ANALYST	SAMPLE SOURCE	DETERMINATION
2	11-18-94	[illegible]	ADF04 SM	Total Metals

	SAMPLE NUMBER	wt (g)							
1	017	5.30	•	•	•	•			
2	018	5.37	•	•	•	•			
3	019	5.10	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			
1		•	•	•	•	•			
2		•	•	•	•	•			
3		•	•	•	•	•			
4		•	•	•	•	•			
5		•	•	•	•	•			
6		•	•	•	•	•			
7		•	•	•	•	•			
8		•	•	•	•	•			
9		•	•	•	•	•			
0		•	•	•	•	•			

EPA-7 9260.6 (3/77) EPA REGION VII LABORATORY DATA CARD

GSA-KC-7701735

DEC 1994
RECEIVED