

02.08-03/01/97-02291

**Contractor's Closeout Report  
for  
Sites 6 and 82 Source Removal  
Operable Unit No. 2  
MCB Camp Lejeune  
Jacksonville, North Carolina**

Volume V of IX

Prepared for:

**DEPARTMENT OF THE NAVY**  
Contract No. N62470-93-D-3032  
Delivery Order 0032

Prepared by



**OHM Remediation  
Services Corp.**  
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450  
Norcross, GA 30092

March 1997

OHM Project No. 15226

02.08-03/01/97-02291

SECTION ~~2~~ 3

BATTERY PILE DISPOSAL (DB)

PPE DISPOSAL (DP)



Camp Lejeune 15226

QA/QC SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>COC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DQO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-DB-01	2/25/94	BATTERY PILE - DISPOSAL	127968	ASC	JM3967	IV	615259	7526016794
CLJ-DP-01	2/25/94	PPE - DISPOSAL	127968	ASC	JM3968	IV	615259	7526016794
CLJ-DP-02	2/25/94	PPE - DISPOSAL (BACK-UP)	127968	ASC	JM3969	-		7526016794



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

NSFER 2

Form 0019  
Field Technical Services  
Rev. 08/89

## 127968

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <b>CAMP LEJEUNE</b>				PROJECT LOCATION <b>JACKSONVILLE, NC</b>				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					
PROJ. NO. <b>15226</b>		PROJECT CONTACT <b>910-450-1809</b>		PROJECT TELEPHONE NO. <b>W. Perry</b>		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCUP (Full)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Ignitability</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">UNTS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Leach</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-GC</div> </div>								
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>				PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>										
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB							SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
1	CLJ-D6-01	2/25	1300	X		Battery Pile Disposal Composite	2	X	X	X	X	X		
2	CLJ-DP-01	2/25	1330	X		PPE Disposal composite #1	1	X	X	X	X	X		
3	CLJ-DP-02	2/25	1330	X		PPE Disposal composite #2	1							Extra material if DP-01 is insufficient.
4														
5														
6														
7														
8														
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-3	<i>[Signature]</i> 1289	FE Airbill 7526016794	2/25	1530	Use CLJ-DP-01 up before going to CLJ-DP-02.
2						
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

1289

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	CLJ-DB-01	CLJ-DP-01
ASC Sample Number:	JM3967	JM3968
Sample Date:	940225	940225
Facility Code:	015226N	015226N

Parameters	Units
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**Conventional Data (CV10)**

Flash Point, Seta Flash 60	Deg C	>60	>60
Reactive Cyanide	mg/kg	<10.0	<10.0
Reactive Sulfide	mg/kg	<10.0	<10.0
pH (Electrode)	std	7.04	7.86

**Total Petroleum Hydrocarbons Analysis, GC, (GS17)**

Light hydrocarbons (C2 - C10)	mg/kg	<4.22	<4.64
Medium hydrocarbons (C10 - C21)	mg/kg	213	674
Heavy hydrocarbons (C21 - C40)	mg/kg	6970	2150

**RCRA TCLP Leachate Herbicide Analysis, GC, (GS52)**

2,4-D	mg/L	<.250	<.250
2,4,5-TP (Silvex)	mg/L	<.250	<.250

**RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)**

Chlordane	mg/L	<.020	<.020
Endrin	mg/L	<.002	<.002
Heptachlor	mg/L	<.002	<.002
Heptachlor epoxide	mg/L	<.002	<.002
Toxaphene	mg/L	<.040	<.040
alpha-Chlordane	mg/L	<.002	<.002
gamma-Chlordane	mg/L	<.002	<.002

**RCRA TCLP Leachate Metals Analysis, (ME52)**

Arsenic	mg/L	<.001	.013
Barium	mg/L	.564	.775
Cadmium	mg/L	.067	.789
Chromium	mg/L	<.020	.106
Lead	mg/L	.281	.897
Mercury	mg/L	<.001	<.001
Selenium	mg/L	<.005	<.005
Silver	mg/L	<.020	<.020

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	<b>CLJ-DB-01</b>	<b>CLJ-DP-01</b>
ASC Sample Number:	JM3967	JM3968
Sample Date:	940225	940225
Facility Code:	015226N	015226N

Parameters	Units
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**RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)**

2,4-Dinitrotoluene	mg/L	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100
Hexachlorobutadiene	mg/L	<.100	<.100
2-Methylphenol	mg/L	<.100	<.100
4-Methylphenol	mg/L	<.100	<.100
Nitrobenzene	mg/L	<.100	<.100
Pentachlorophenol	mg/L	<.100	<.100
Pyridine	mg/L	<.100	<.100
2,4,5-Trichlorophenol	mg/L	<.100	<.100
2,4,6-Trichlorophenol	mg/L	<.100	<.100
Lindane	mg/L	<.100	<.100
Methoxychlor	mg/L	<.100	<.100

**RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)**

Benzene	mg/L	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125
Chlorobenzene	mg/L	<.125	<.125
Chloroform	mg/L	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.100	<.100
1,2-Dichloroethane	mg/L	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125
Methyl ethyl ketone	mg/L	<.250	<.250
Tetrachloroethylene	mg/L	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125



Analytical Services Corp.

CLJ-DB-01 BATTERY PILE  
Sample #1

CLJ-DB-01 PPE SAMPLE

## ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis  
Bill Perry

**Project:** 15226N - NEESA; Camp LeJeune, Jacksonville, NC

**Sample(s):** CLJ-DB-01 and CLJ-DP-01

**Sample Type(s):** Solid

**Analysis Performed:** Conventional, Organics and RCRA TCLP Leachate Parameters

**Date Sample Received:** February 28, 1994

**Date Order Received:** February 28, 1994

**Joblink(s):** 615259

*This report is **"PROPRIETARY AND CONFIDENTIAL"** and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.*

Reviewed and  
Approved by:

Thomas E. Gran, Ph.D., Vice President

Date: 5/10/94

## SDG NARRATIVE

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### Conventionals

The pH results are in standard units not mg/kg.

The method qualifier for pH (Electrode) is "pH", for Flashpoint it is "FP", for Reactive Cyanide it is "RC" and for Reactive Sulfide it is "RS". The CLP manual does not address these results or this method for reporting.

The Flashpoint results are in °C not mg/kg.

### Total Petroleum Hydrocarbons by Gas Chromatography (TPH/GC)

#### Total Volatile Hydrocarbons

All matrix and method spikes were within acceptability limits.

The initial and continuing calibration criteria were met.

#### Total Extractable Hydrocarbons

A reduced initial sample volume was utilized for this delivery group due to matrix effects. The final reduction was to 10 mL instead of 1.0 mL. Due to high levels of petroleum constituents present, further extract concentration could not be achieved.

Due to high target analyte concentration, matrix spike recovery was not within acceptability criteria. The method was performed "in control" as demonstrated by the blank spike recovery that was well within established acceptability criteria.

All initial and continuing calibration criteria were met.

### TCLP Herbicides

All matrix and method spike recoveries were within acceptability limits.

The initial and continuing calibration criteria were met.

### TCLP Pesticides

The Toxaphene matrix and method spike recoveries were outside the established recovery criteria. The recoveries would lead to a high bias for any sample results reported. Toxaphene was not detected in any of the samples associated with this sample batch, therefore, this anomaly does not impact the validity of the data as reported.

All initial and continuing calibration criteria were met.

## SDG NARRATIVE (continued)

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### TCLP Metals

Since the samples were analyzed for TCLP analytes the items listed (color before, artifacts, etc.) at the bottom of Form I-IN were not reported.

All of the Initial and Continuing Calibration verifications were inside the QC limits.

Due to the bottles used for the TCLP leachate preparation a small amount of Barium is present in the samples. The level is well below any level of concern for this project using this analysis. ASC believes that this will not affect the validity of data for this project.

The ICP Interference Check samples, the pre-digestion spike sample, and the duplicate sample analysis were within the required QC criteria.

The laboratory Control Sample exhibited good recoveries with a range between 74 to 120%.

### TCLP Semi-volatile Organics

The Pentachlorophenol matrix and method spike recoveries were outside the established recovery criteria. The recoveries would lead to a high bias for any sample results reported. Pentachlorophenol was not detected in any of the samples associated with this sample batch, therefore, this anomaly does not impact the validity of the data as reported.

Hexachloroethane was outside the established recovery criteria by 0.1% in the matrix spike. This constituent was within the recovery criteria in both the matrix spike duplicate and method spike, and should have minimal impact on the validity of the data as reported.

All initial and continuing calibration criteria were met.

### TCLP Volatile Organics

All matrix and method spikes were within acceptability limits.

The initial and continuing calibration criteria were met.

## SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
<b>Conventionals</b>		
<u>RCRA Characteristics</u>		
pH, Electrode	SW-846	9045
Reactive Sulfide	SW-846	7.3.4.2
Flash Point, Seta Flash	SW-846	1020
Reactive Cyanide	SW-846	7.3.3.2
<b>Organics</b>		
Total Petroleum Hydrocarbons (TPHC) by GC		
Total Volatile Hydrocarbons (TVH) by GC	SW-846	8015
Total Extractable Hydrocarbons (TEH) by GC	SW-846	8100
<b>RCRA TCLP</b>		
Leachate Preparation	SW-846	1311
Herbicides by GC	SW-846	8150 (1)
Pesticides by GC	SW-846	8080
Metals (except mercury)	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
Semi-volatile Compounds by GC/MS	SW-846	8270
Volatile Compounds by GC/MS	SW-846	8240



# COVER PAGE CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA SDG #: ~~CLI-DB-01~~  
N/A

DW No.: NA

EPA Sample No.

Lab Sample ID.

CLI-DB-01

IM 3967

CLI-DB-01

IM 3968

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COMMENTS: See SDG Narrative

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

Signature: J. Hnatow

Name: Joseph Hnatow

Date: 5/10/94

Title: Operations Manager

0005

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DB-01  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-DB-01  
 Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: IM3967  
 % Solids: 79.0 Date Received: 2/28/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	<u>10.0</u>	<u>U</u>		<u>RC</u>
	Reactive Sulfide	<u>10.0</u>	<u>U</u>		<u>RS</u>
	Flashpoint, 60°C	<u>&gt;60°C</u>			<u>FP</u>
	pH (Electrode)	<u>7.04</u>			<u>PH</u>

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DD-01

Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-DD-01

Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: IM3968

% Solids: 90.0 Date Received: 2/28/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	260°C			FP
	pH (Electrode)	7.86			pH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

BLANKS (3)

0007

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: ~~LI-DBO~~  
NA

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									0	U	RC
Reactive Sulfide									0	U	RS

# SPIKE SAMPLE RECOVERY (5A)

0008

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLI-DS-112

Lab Code: NA Case #: NA SAS #: NA SDG #: 613-DB-01 <sup>NA NA</sup>

Matrix: (soil/water) SOIL Level (low/med): LOW % Solids for Sample: 85.8

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide									
Reactive Sulfide	50-100	5.29		10.0	U	6.99	76		RS

COMMENTS: \_\_\_\_\_

# SPIKE SAMPLE RECOVERY (5A)

0009

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-DS-10  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-DS-10  
 Matrix: (soil/water) SOIL      Level (low/med): LOW      % Solids for Sample: 86.0

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide	50-100	141		10.0	U	198	75		RC
Reactive Sulfide									

COMMENTS: \_\_\_\_\_

# LABORATORY CONTROL SAMPLE (7) 0010

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: <sup>NA</sup>CLT-DBO

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CV-0039

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Reactive Cyanide								
Reactive Sulfide	360	283	78.6					

# LABORATORY CONTROL SAMPLE (7) 0011

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLT-08-01<sup>NA</sup>

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CV-0083

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Reactive Cyanide	188	176	93.6					
Reactive Sulfide								



EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVBLK01

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

Matrix: (soil/water) soil Lab Sample ID: 545 12W3869W

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 345

Level: (low/med) low Date Received: 03/15/94

% Moisture: not dec. 0 Date Analyzed: 03/15/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	<u>Q</u>
<u>----NA----</u>	<u>Light hydrocarbons (C2-C10)</u>	<u>0.400</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVSPK01

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

Matrix: (soil/water) soil Lab Sample ID: N20336W<sup>S</sup>

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 346

Level: (low/med) low Date Received: 03 / 15 / 94

% Moisture: not dec. 0 Date Analyzed: 03 / 15 / 94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons (C2-C10)	<u>2170</u>	<u>Q</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-10  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM4967W  
 Sample wt/vol: 0.53 (g/mL) g Lab File ID: 347  
 Level: (low/med) low Date Received: 83 107/94  
 % Moisture: not dec. 14.0 Date Analyzed: 83 115/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
<u>----NA----</u>	<u>Light hydrocarbons(C2-C10)</u>	<u>4.65</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-03-10MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm4367WS  
 Sample wt/vol: 0.55 (g/mL) g Lab File ID: 348  
 Level: (low/med) low Date Received: 03/07/94  
 % Moisture: not dec. 14.0 Date Analyzed: 03/15/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons (C2-C10)	<u>10400</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-03-18MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM4367UR  
 Sample wt/vol: 0.53 (g/mL) g Lab File ID: 349  
 Level: (low/med) low Date Received: 03 18/94  
 % Moisture: not dec. 14.0 Date Analyzed: 03 15/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons(C2-C10)	<u>14900</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3967W  
 Sample wt/vol: 0.56 (g/mL) g Lab File ID: 352  
 Level: (low/med) low Date Received: 02/28/94  
 % Moisture: not dec. 21.0 Date Analyzed: 03/15/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons (C2-C10)	<u>0.22</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DP-01

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

Matrix: (soil/water) soil Lab Sample ID: Jm3968W  
Jm4958

Sample wt/vol: 0.51 (g/mL) g Lab File ID: 353

Level: (low/med) low Date Received: 02/28/94

% Moisture: not dec. 10.0 Date Analyzed: 03/15/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
----NA----	Light hydrocarbons (C2-C10)		<u>4.64</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	24500	0	16400	66.7	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Light hydrocarbons(C2-C10)	24500	14900	58.5	9.33	30 30-130

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 1 outside limits  
 Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



TVH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
Blank Spike - EPA Sample No.: ~~NA 226948~~  
*FL TVSPK01*

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Light hydrocarbons (C2-C10)	<u>2700</u>	<u>0</u>	<u>2170</u>	<u>80.4</u>	30-130

# Column to be used to flag recovery values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

EPA SAMPLE NO.

## TVH METHOD BLANK SUMMARY

TVBLK01

Lab Name: ASC Contract: NEESA

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

Lab Sample ID: N2W3369W Lab File ID: 345

Matrix: (soil/water) soil Extraction: (SepF/Cont/Sonc) NA

Sulfur Cleanup: (Y/N) YN Date Extracted: NA

Date Analyzed (1): 03-15-94 Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 1106 Time Analyzed (2): \_\_\_\_\_

Instrument ID (1): 04 Instrument ID (2): \_\_\_\_\_

GC Column (1): See Below ID: 2 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	TVSPK01	N2W3369WS	03-15-94	
02	CLJ-DS-10	Jm4367W		
03	CLJ-DS-10MS	Jm4367WS		
04	CLJ-DS-10MSD	Jm4367WR		
05	CLJ-DS-11	Jm4368W		
06	CLJ-DS-11D	Jm4369W		
07	CLJ-DR-01	Jm3967W		
08	CLT-DP-01	Jm3768W		
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

## TVH INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date (s): 01-13-94  
 Calibration Time (s): 2124

LAB FILE ID:	CLOW =	<u>204</u>	CMEDL =	<u>205</u>
CMED = <u>206</u>	CMEDH =	<u>207</u>	CHIGH =	<u>208</u>

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\bar{CF}$	% RSD
Light hydrocarbons (C2-C10)	<u>2440000</u>	<u>1890000</u>	<u>2050000</u>	<u>1970000</u>	<u>1890000</u>	<u>2050000</u>	<u>11.2</u>

## TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date: 03-15-94 Time: 1023  
 Lab File ID: 344 Initial Calib Date(s): 01-13-94  
 Initial Calib Times: 2124

COMPOUND	$\overline{\text{CF}}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons (C2-C10)	<u>205000</u>	<u>178000</u>	<u>NA</u>	<u>13.3</u>	<u>15</u>

## TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date: 03/15/94 Time: 1821  
 Lab File ID: 355 Initial Calib Date(s): 01-13-94  
 Initial Calib Times: 2124

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons (C2-C10)	<u>2050000</u>	<u>1950000</u>	<u>NA</u>	<u>4.75</u>	<u>15</u>

\* RUN # 352  
START

MAR 15, 1994 16:10:11

0025

IF  
1.272  
1.689

6.364

CLJ-DB-01

JM3967W  
N2W3369

~~AJ~~ C.P. 1-16-94  
EA=14611  
C.P.

TIMETABLE STOP

RUN# 352

MAR 15, 1994 16:10:11

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.272	15219	YP	.083	20.53319
1.689	44289	PB	.054	59.75390
6.364	14611	BB	.196	19.71290

TOTAL AREA= 74119  
MUL FACTOR=1.0000E+00

\* RUN # 353  
START

MAR 15, 1994 16:53:33

IF  
1.275  
1.815

JM 3968W  
N2W3369

TIMETABLE STOP

RUN# 352 MAR 15, 1994 16:18:11

0026

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.272	15219	VP	.083	28.53319
1.609	44289	PB	.054	59.75390
6.364	14611	BB	.196	19.71290

TOTAL AREA= 74119  
MUL FACTOR=1.0000E+00

\* RUN # 353 MAR 15, 1994 16:53:33

START

IF

1.271  
1.615

CLJ-DP-01  
JM 3968W  
N2W3369

ND  
C.P.

TIMETABLE STOP

RUN# 353 MAR 15, 1994 16:53:33

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.271	10691	PB	.096	48.84859
1.615	11195	PB	.075	51.15142

TOTAL AREA= 21886  
MUL FACTOR=1.0000E+00

\* RUN # 354 MAR 15, 1994 17:37:01

START

IF

~~0.205 1.074~~

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TEBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: NQFYU195F  
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 159635/679  
 % Moisture: NA decanted: (Y/N) N Date Received: 02/28/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/12/94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/14/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
<u>--NA-----</u>	<u>Medium hydrocarbons (C10-C21)</u>	<u>4170</u>	<u>J</u>
<u>--NA-----</u>	<u>Heavy hydrocarbons (C21-C40)</u>	<u>330</u>	<u>U</u>



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TE SPIC 01

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

Matrix: (soil/water) soil Lab Sample ID: NDF4C19SFS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7S9636/680

% Moisture: NA decanted: (Y/N) N Date Received: 02/25/94

Extraction: (SepF/Cont/Sonc) SCN Date Extracted: 03/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/14/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
--NA-----	Medium hydrocarbons (C10-C21)		<u>.3900</u>	
--NA-----	Heavy hydrocarbons (C21-C40)		<u>.330</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ DB CINS

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

Matrix: (soil/water) soil

Lab Sample ID: Jon 3967ms

Sample wt/vol: 15.4 / 30. (g/mL) g

Lab File ID: 318 742 59637/621 59640 684

% Moisture: 21 decanted: (Y/N) N

Date Received: 02/28/94

Extraction: (SepF/Cont/Sonc) SEX

Date Extracted: 03/12/94

Concentrated Extract Volume: 10,000 / 1000 (uL)

Date Analyzed: 03/14/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: NA

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
---------	----------	--	---

--NA-----	Medium hydrocarbons (C10-C21)	<u>412000</u>	
--NA-----	Heavy hydrocarbons (C21-C40)	<u>693000</u>	

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-AB-01MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3967FR  
 Sample wt/vol: 15.4 (g/mL) g Lab File ID: 15964/1685  
 % Moisture: 21 decanted: (Y/N) N Date Received: 02/29/94  
 Extraction: (SepF/Cont/Sonc) SOL Date Extracted: 03/19/94  
 Concentrated Extract Volume: 10,000 (uL) Date Analyzed: 03/14/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)		<u>299,000</u>
--NA-----	Heavy hydrocarbons (C21-C40)		<u>638,000</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-183-61

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

Matrix: (soil/water) soil Lab Sample ID: JM3967

Sample wt/vol: 15.3 ~~30.~~ (g/mL) g Lab File ID: 15 9642/686

% Moisture: 21 decanted: (Y/N) N Date Received: 02/28/94

Extraction: (SepF/Cont/Sonc) SA Date Extracted: 03/12/94

Concentrated Extract Volume: 16,000 ~~1000~~ (uL) Date Analyzed: 03/14/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>213000</u>	<u>213000</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>6970000</u>	<u>6970000</u>

7,183,000 ppb  
 7,183 ppm  
 0.7%

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-AP-01

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

Matrix: (soil/water) soil Lab Sample ID: JM3968

Sample wt/vol: <sup>15.4</sup>  
30. (g/mL) g Lab File ID: 159643/687

% Moisture: 10 decanted: (Y/N) N Date Received: 02/28/94

Extraction: (SepF/Cont/Sonc) SIX Date Extracted: 03/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/14/94

Injection Volume: 1.0 (uL) Dilution Factor: ~~1.0~~ 10

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
--NA-----	Medium hydrocarbons (C10-C21)	<u>674000</u>	
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2152000</u>	

~~2,824,000 PPb~~  
2,824 PPm  
0.3%

## TEH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: CLJ-DB-01

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Med hydrocarbons (C10-C21)	<u>54500</u>	<u>213000</u>	<u>412000</u>	<u>366</u>	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Med hydrocarbons (C10-C21)	<u>54500</u>	<u>299000</u>	<u>158</u>	<u>32</u>	30	30-130

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 1 out of 1 outside limits  
 Spike Recovery: 2 out of 2 outside limits

COMMENTS: Sample matrix problems during extraction.

## TEH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: TEBLK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Med hydrocarbons(C10-C21)	28000	4170 (J)	31900	99.0	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

TEH METHOD BLANK SUMMARY

TEBLK01

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: N2F4095F Lab File ID: 259635/679  
 Matrix: (soil/water) soil Extraction: (SepF/Cont/Sonc) \_\_\_\_\_  
 Sulfur Cleanup: (Y/N) Y Date Extracted: 03/12/94  
 Date Analyzed (1): 03/14/94 Date Analyzed (2): N/A  
 Time Analyzed (1): 09:20 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): B1F Instrument ID (2): \_\_\_\_\_  
 GC Column (1): DB-5 ID: .53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CLJ-DB-01	Jm3967	03/14/94	NA
02	CLJ-DPO1	Jm3968	↓	↓
03	CLJ-DB-DIMS	Jm3967AS	↓	↓
04	CLJ-DB-01 MSD	Jm3967FR	↓	↓
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: \_\_\_\_\_



TEH INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date (s): 03/09/94  
 Calibration Time (s): 15:46 20:04

LAB FILE ID: <u>du</u>	CLOW = <u>7595701596</u>	CMEDL = <u>7595711597</u>
CMED = <u>75957218599</u>	CMEDH = <u>7595731600</u>	CHIGH = <u>7595741601</u>

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Medium hydrocarbons (C10-21)	<u>8370</u>	<u>11600</u>	<u>13400</u>	<u>14300</u>	<u>15200</u>	<u>12600</u>	<u>20.3</u>
Heavy hydrocarbons (C21-C40)	<u>16600</u>	<u>22000</u>	<u>27600</u>	<u>27600</u>	<u>29000</u>	<u>23900</u>	<u>23.7</u>
	<u>drop 1st point</u>	<u>16600</u>	<u>22300</u>				

TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: BIF Calibration Date: 6/14/94 Time: 07:24

Lab File ID: 159633/677 Initial Calib Date(s): 6/3/69/94

Initial Calib Times: 15:46 20:04

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	<u>12600</u>	<u>14100</u>	<u>NA</u>	<u>11.5</u>	
	<u>23500</u>	<u>23300</u>	<u>L</u>	<u>2.48</u>	

TEH CONTINUING CALIBRATION CHECK

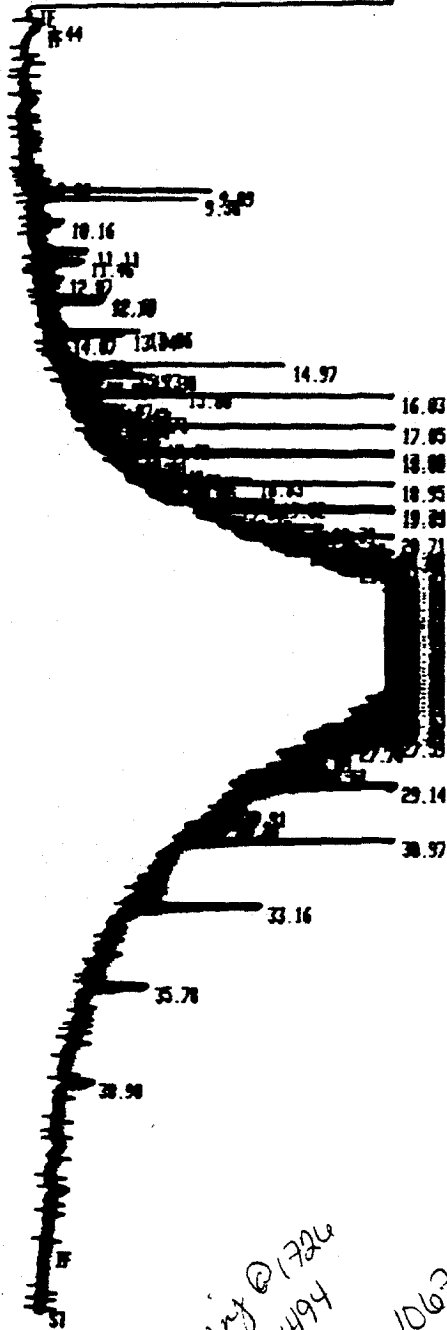
0038

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 31F Calibration Date: 03/14/94 Time: 08:16  
 Lab File ID: 159634/678 Initial Calib Date(s): 03/09/94  
 Initial Calib Times: 15:46 20:04

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	12600	14500	NA	14.8	
Heavy hydrocarbons (C21-C40)	23900	24900	↓	4.53	

WORKFILE ID: A FROM GC # 7  
 WORKFILE NAME: MSFTEN: DB-ACONTRE

START IF



*inj @ 1726  
 3/14/94  
 Heavy: 10670 mg/L*

RUN # 443  
 WORKFILE ID: A FROM GC # 7  
 WORKFILE NAME: MSFTEN: DB-ACONTRE

RT	AREA	AREA TYPE	AR/WT	AREA2
3.44	48613	PB	0.115	0.825
12.92	8687208	++	0.859	5.203
28.14	1.5678E+08	D ++	0.312	94.772

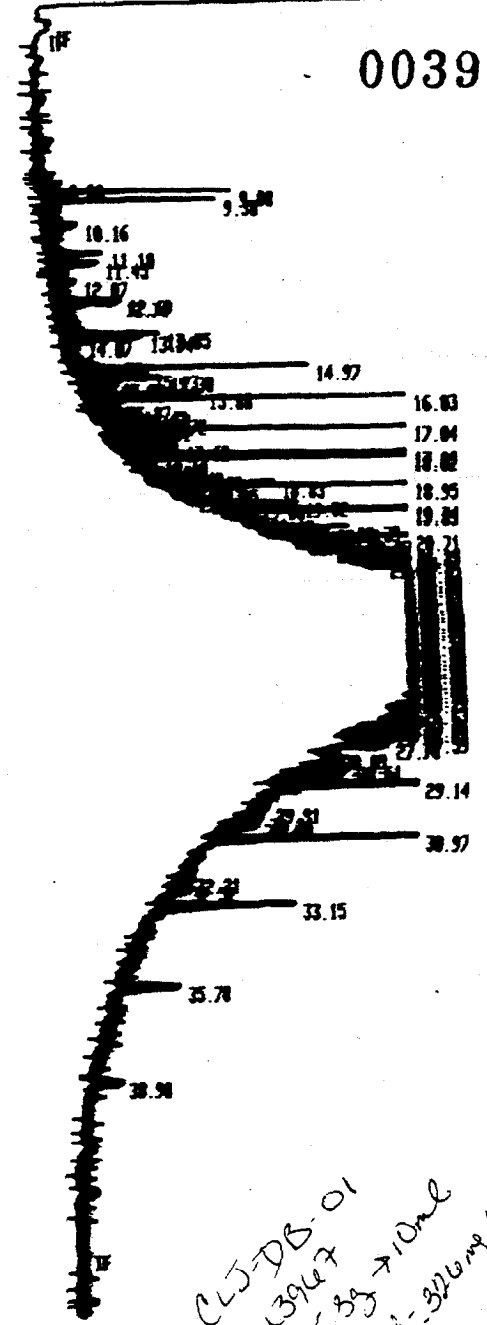
TOTAL AREA= 1.6543E+08  
 MUL FACTOR= 1.0000E+00

END Q-CHROM DATA ACONTRE

FILE: >S9642::D4  
 NAME: 15226A CLJ-DB-01 TEN  
 NISC: JN3967,NEF40195,S:G1,15.3,10:1

START IF

0039



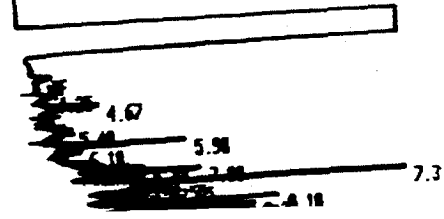
*CLJ-DB-01  
 JN3967  
 15.3g → 10ml  
 1/100 = 320 mg/L*

RUN # 686  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 3

RT	AREA	AREA TYPE	AR/WT	AREA2
12.92	4100000	++	0.838	6.928
17.38	34524	PB	0.856	0.858
28.21	5.5156E+07	D ++	0.110	93.814

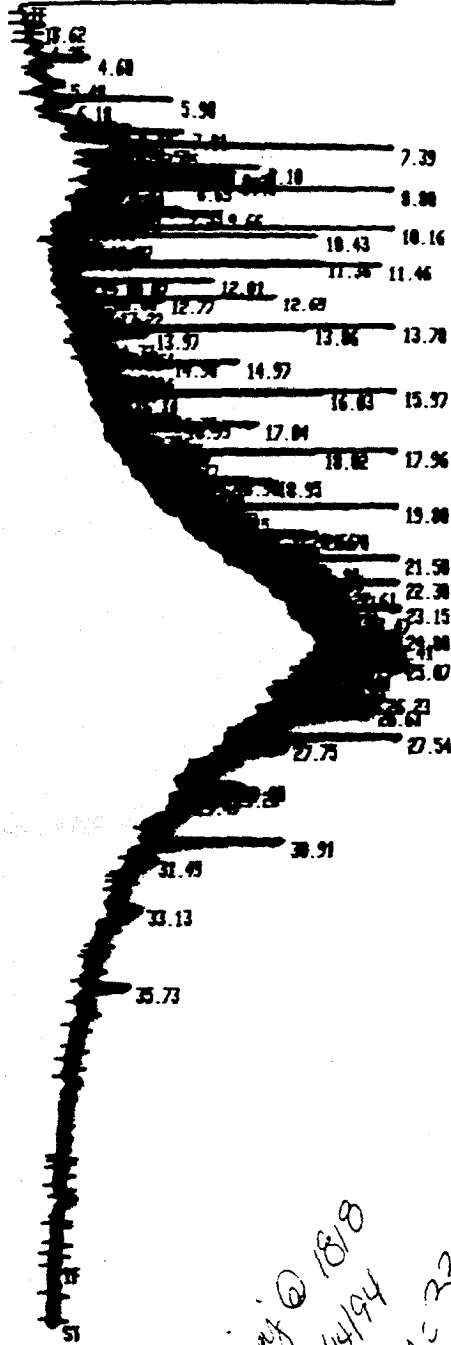
TOTAL AREA= 5.9299E+07  
 MUL FACTOR= 1.0000E+00

START IF



WORKFILE ID: A FROM GC 8 7  
 WORKFILE NAME: NSFTEN:DB-ACQUIRE

START IF



RUN # 444  
 WORKFILE ID: A FROM GC 8 7  
 WORKFILE NAME: NSFTEN:DB-ACQUIRE

AREA#	RT	AREA TYPE	AR/HT	AREA
	3.62	47288 I PB	0.091	0.042
	18.64	2.9586E+07 D ++	0.063	25.897
	26.55	8.4382E+07 D ++	0.168	74.061

TOTAL AREA= 1.1394E+08  
 MUL FACTOR= 1.0000E+00

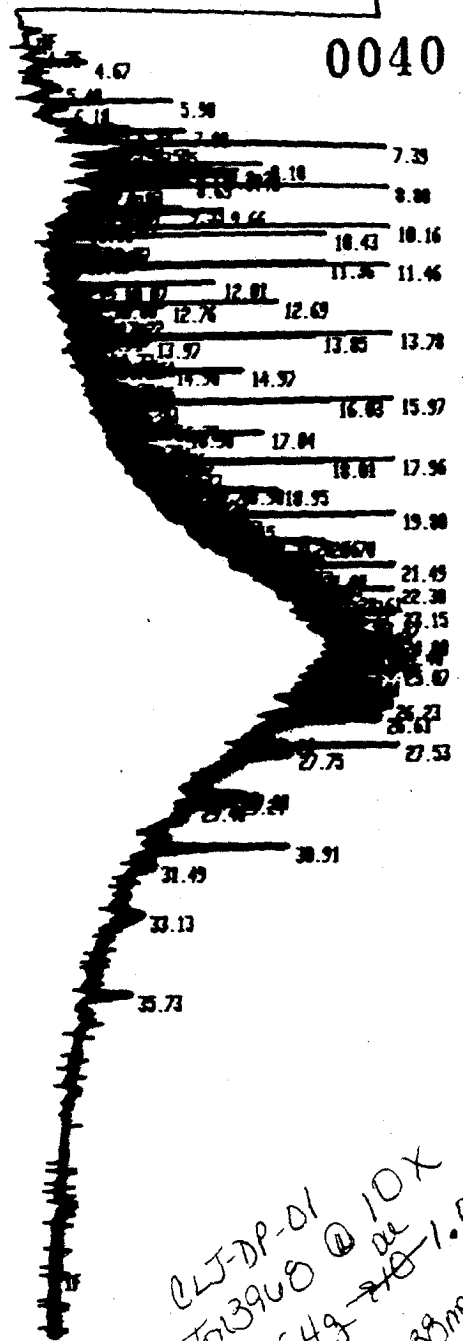
END Q-CHROM DATA ACQUIRE

FILE: >S9643::D4  
 NAME: 15226N CLJ-DP-01 TEN  
 NISC: JN356DF,N2F40195,S-C1,15.4,1:10

*inj @ 1818  
 3/14/94  
 Heavy = 3307 mg/L*

START IF

0040



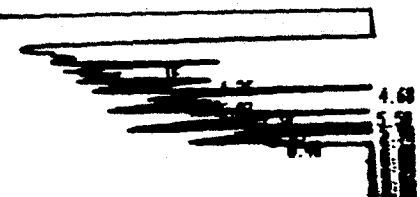
RUN # 687  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 4

MAR/14/94 18:18:15

AREA#	RT	AREA TYPE	AR/HT	AREA
	18.64	1.3084E+07 D ++	0.041	56.983
	26.55	9989188 D ++	0.056	43.897

TOTAL AREA= 2.2993E+07  
 MUL FACTOR= 1.0000E+00

START IF



*CLJ-DP-01  
 JN3960 @ 10X  
 15.4g - 1.0ml  
 1000 mg/L*

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA HBLK

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

Matrix: (soil/water) water Lab Sample ID: N7H40203H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: H9342

% Moisture:        decanted: (Y/N)        Date Received: 02 28  
03/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	ug/L	
94-75-7-----	2,4,D		<u>250</u>	<u>✓</u>
93-72-1-----	2,4,5-TP (SILVEX)		<u>250</u>	<u>✓</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA HSPK

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

Matrix: (soil/water)water Lab Sample ID: N7H40203HS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9343

% Moisture:        decanted: (Y/N)        Date Received: 02/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
94-75-7----	2,4,D		<u>7630</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>2190</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01-MS

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

Matrix: (soil/water)water Lab Sample ID: JM396745

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9344

% Moisture:        decanted: (Y/N)        Date Received: 02 28  
03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
94-75-7----	2,4,D		<u>4180</u>	
93-72-1----	2,4,5-TP (SILVEX)		<u>1190</u>	



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-1150

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

Matrix: (soil/water) water Lab Sample ID: JM3967HR

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9345

% Moisture:        decanted: (Y/N)        Date Received: 02 28  
03/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
94-75-7----	2,4,D		<u>4530</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>1280</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01

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

Matrix: (soil/water) water Lab Sample ID: J173967H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 149346

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: 02 28  
03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	ug/L	
94-75-7-----	2,4,D		<u>250</u>	<u>✓</u>
93-72-1-----	2,4,5-TP (SILVEX)		<u>250</u>	<u>✓</u>

0046

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CW-DP-01

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

Matrix: (soil/water) water Lab Sample ID: JM 3968H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H 9347

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: 02 28  
03/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

HERBICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

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

GC Column(1): DB-5 ID: .53 GC Column(2): \_\_\_\_\_ ID: \_\_\_\_\_

	EPA SAMPLE NO.	DPAA % REC #	TOT OUT
01	HBIK	94.4	0
02	HSPK	111	0
03	CLJ-DB-CIMS	106	0
04	CLJ-DB-CIMSD	109	0
05	CLJ-DB-CI	109	0
06	CLJ-DB-CI	109	0
07	HBLKCI	112	0
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

ADVISORY  
QC LIMITS

DPAA = 2,4-Dichlorophenylacetic acid (30 -130)

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out

## HERBICIDE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: HSPK

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
2,4,D	<u>8370</u>	<u>0</u>	<u>7630</u>	<u>91.1</u>	30-130
2,4,5-TP (Silvex)	<u>2310</u>	<u>0</u>	<u>2190</u>	<u>94.8</u>	30-130

= Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: \_\_\_\_\_

HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: CLJ-DB-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
2,4,D	4190	0	4180	99.8	30-130
2,4,5-TP (Silvex)	1160	0	1190	103	30-130
					30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
2,4,D	4190	4530	108	8.05	30	30-130
2,4,5-TP (Silvex)	1160	1280	110	6.90	30	30-130
					30	30-130

= Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 2 outside limits  
 Spike Recovery: 0 out of 4 outside limits

COMMENTS: \_\_\_\_\_

HERBICIDE METHOD BLANK SUMMARY

HBLK

Lab Name: ASC Contract: NEESA

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

Lab Sample ID: N7H Lab File ID: \_\_\_\_\_

Matrix: (soil/water) water Extraction: (SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) Y Date Extracted: 03/ /94

Date Analyzed (1): 03/10/94 Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 15:55 Time Analyzed (2): \_\_\_\_\_

Instrument ID (1): C4F Instrument ID (2): \_\_\_\_\_

GC Column (1): DB-5 ID:.53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	<u>HSPK</u>	<u>N7H40203H</u>	<u>03/10/94</u>	
02	<u>CLJ-DB-C1A5</u>	<u>J113967HS</u>	↓	
03	<u>CLJ-DB-C111SD</u>	<u>J113967HR</u>		
04	<u>CLJ-DB-C1</u>	<u>J113967H</u>		
05	<u>CLJ-DB-C1</u>	<u>J113968H</u>		
06	<u>HBLK01F</u>	<u>J116000H</u>		
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: \_\_\_\_\_

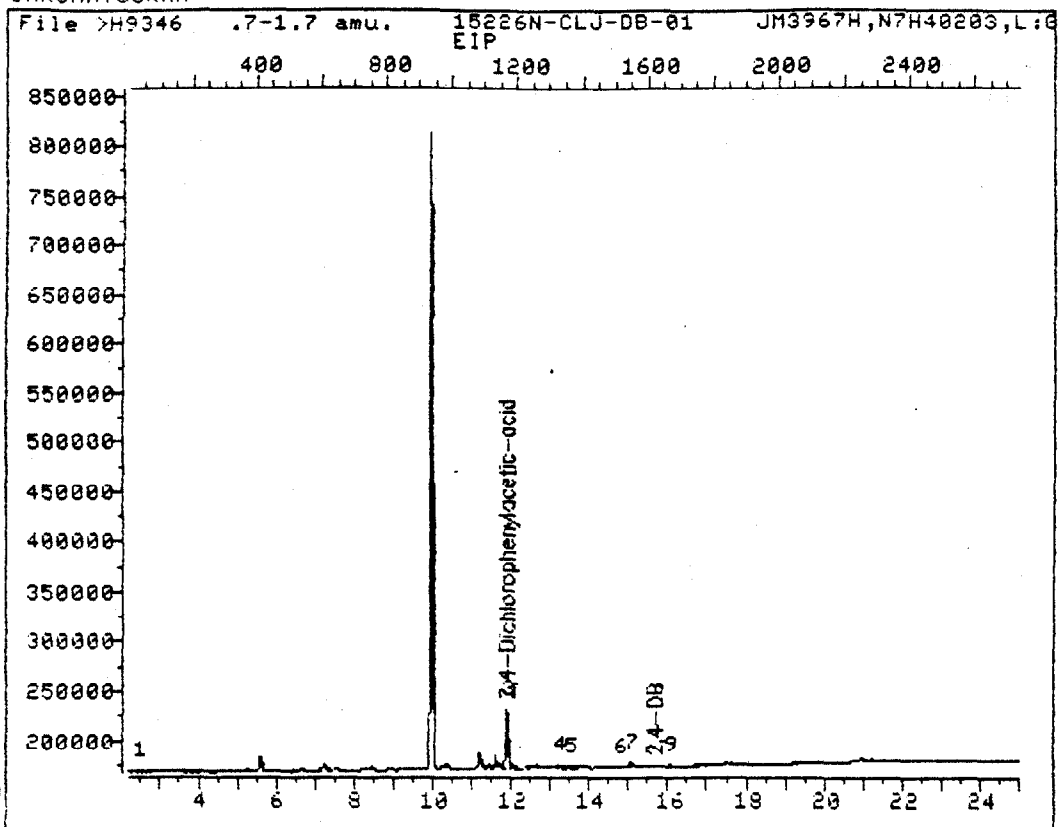
## HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAInstrument ID: C4F Calibration Date (s): 3/10/94Calibration Time (s): 1358LAB FILE ID: CLOW = 1H9333 CMEDL = 1H9334  
CMED = 1H9335 CMEDH = 1H9336 CHIGH = 1H9337

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
2,4-D	961300	859700	773712	689432	628733	782575	16.94
2,4,5-TP (SILVEX)	3252470	3266085	3240528	3211921	2859959	3230193	9.04
DPAA (surr)	-	663680	581304	511522	440707	554353	18.69



## CHROMATOGRAM



Data File: &gt;H9346::D2

Quant Output File: ^H9346::D2

Name: 15226N-CLJ-DB-01

Instrument ID: H

Misc: JM3967H,N7H40203,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHH007

Last Calibration: 940310 14:28

Last Qual Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940310 18:29

Injected at: 940310 18:04

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^H9346::D2  
 Data File: >H9346::D2  
 Name: 15226N-CLJ-DB-01  
 Misc: JM3967H,N7H40203,L:G1,2,5:1,

Quant Rev: 7 Quant Time: 940310 18:29  
 Injected at: 940310 18:04  
 Dilution Factor: 1.00000  
 Instrument ID: H

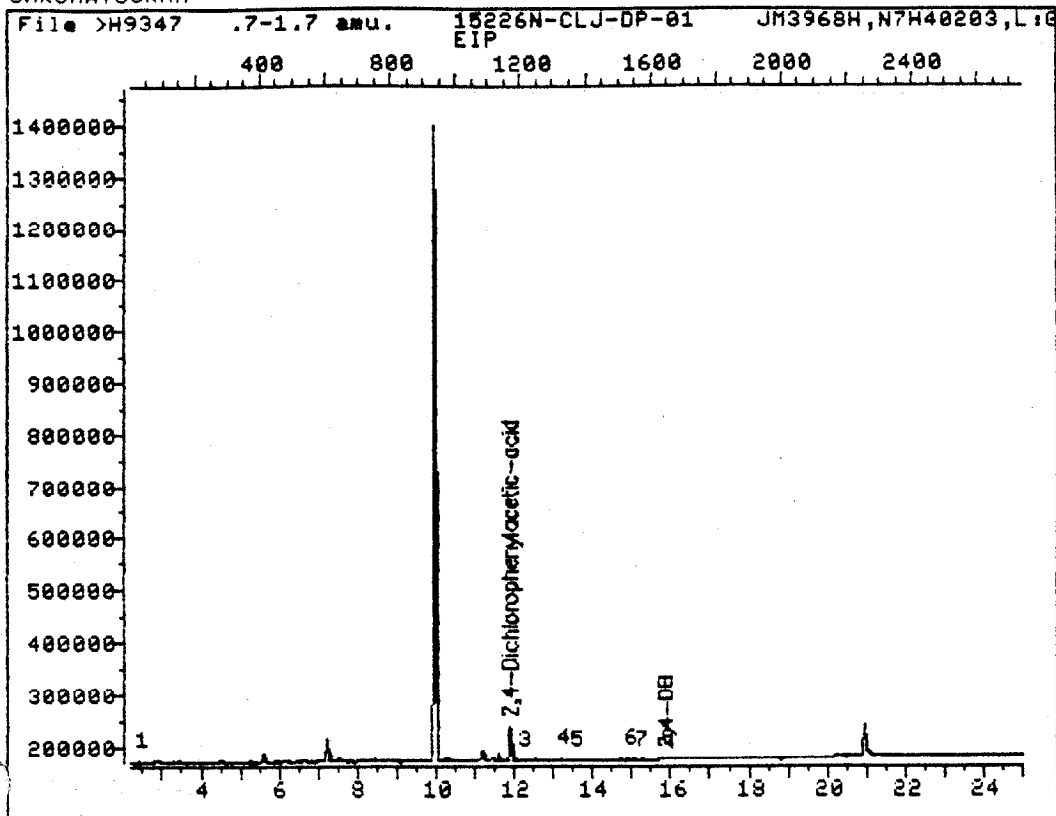
ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD  
 Last Calibration: 940310 14:28

IHH007  
 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	19040	<del>.0235</del>	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	234118	.422	ug/ml	100
3) #Dicamba	11.88	1164	234118	<del>.128</del>	ug/ml	100
4) #Dichloroprop	13.19	1321	12191	<del>.0186</del>	ug/ml	100
5) #2,4-D	13.48	1355	5568	<del>.00711</del>	ug/ml	100
6) #2,4,5-TP (Silvex)	14.74	1507	1376	<del>.000426</del>	ug/ml	100
7) #2,4,5-T	15.03	1542	44229	<del>.0148</del>	ug/ml	100
8) #2,4-DB	15.67	1619	7008	<del>.0192</del>	ug/ml	100
9) #Dinoseb	16.03	1662	14593	<del>.00594</del>	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >H9347::D2  
Name: 15226N-CLJ-DP-01  
Misc: JM3968H,N7H40203,L:G1,2,5:1,

Quant Output File: ^H9347::D2  
Instrument ID: H

Id File: IH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHHD07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940310 19:02  
Injected at: 940310 18:36

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^H9347::D2  
 Data File: >H9347::D2  
 Name: 15226N-CLJ-DP-01  
 Misc: JM3968H,N7H40203,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940310 19:02  
 Injected at: 940310 18:36  
 Dilution Factor: 1.00000  
 Instrument ID: H

ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD  
 Last Calibration: 940310 14:28

IHH007  
 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	8477	<del>.0185</del> ug/ml		100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	233536	.421 ug/ml		100
3) #Dicamba	12.20	1202	3488	<del>.00178</del> ug/ml		100
4) #Dichloroprop	13.19	1321	36511	<del>.0557</del> ug/ml		100
5) #2,4-D	13.50	1358	14528	<del>.0186</del> ug/ml		100
6) #2,4,5-TP (Silvex)	14.90	1526	2720	.000842 ug/ml		100
7) #2,4,5-T	15.16	1557	2172	<del>.000727</del> ug/ml		100
8) #2,4-DB	15.86	1641	2528	<del>.00693</del> ug/ml		100
9) #Dinoseb	15.86	1641	2528	<del>.00103</del> ug/ml		100

# Compound uses ESTD

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PBLK01

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

Matrix: (soil/water) WATER Lab Sample ID: NTP40207P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3939

% Moisture: NA decanted: (Y/N) NA Date Received: 2/26/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00 DL</u>	<u>U DL</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PSPK01

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

Matrix: (soil/water) WATER Lab Sample ID: N7P40207PS

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^23940

% Moisture: NA decanted: (Y/N) NA Date Received: 2/26/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	13.2	
309-00-2----	Aldrin		
1024-57-3--	Heptachlor Epoxide	15.9	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	16.3	
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor	16.3 DL	
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	16.0	
5103-74-2--	gamma-Chlordane	15.3	
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PSPKUIT

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

Matrix: (soil/water) WATER Lab Sample ID: N7P40131PST

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3684

% Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	ug/L	Q
319-84-6---	alpha-BHC			
319-85-7---	beta-BHC			
319-86-8---	delta-BHC			
58-89-9----	gamma-BHC (Lindane)			
76-44-8----	Heptachlor	2.00		U
309-00-2---	Aldrin			
1024-57-3--	Heptachlor Epoxide	2.00		U
959-98-8---	Endosulfan I			
60-57-1----	Dieldrin			
72-55-9----	4,4'-DDE			
72-20-8----	Endrin	2.00		U
33213-65-9-	Endosulfan II			
72-54-8----	4,4'-DDD			
1031-07-8--	Endosulfan sulfate			
50-29-3----	4,4'-DDT			
72-43-5----	Methoxychlor			
53494-70-5-	Endrin ketone			
7421-36-3--	Endrin aldehyde			
5103-71-9--	alpha-Chlordane	2.00		U
5103-74-2--	gamma-Chlordane	2.00		U
8001-35-2--	Toxaphene	132		
12674-11-2-	Aroclor-1016			
11104-28-2-	Aroclor-1221			
11141-16-5-	Aroclor-1232			
53469-21-9-	Aroclor-1242			
12672-29-6-	Aroclor-1248			
11097-69-1-	Aroclor-1254			
11096-82-5-	Aroclor-1260			

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01MS

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

Matrix: (soil/water) WATER Lab Sample ID: JM3967PS

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^23941

% Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	14.0	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	15.3	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	16.4	
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	15.6	
5103-74-2--	gamma-Chlordane	16.1	
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		



## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-CIMST

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

Matrix: (soil/water) WATER Lab Sample ID: JM3967PST

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3685

% Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	2.00	U
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	2.00	U
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	2.00	U
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	2.00	U
5103-74-2--	gamma-Chlordane	2.00	U
8001-35-2--	Toxaphene	132	
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3967PR  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3942  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
 (ug/L or ug/Kg) ug/L Q

319-84-6----	alpha-BHC		
319-85-7----	beta-BHC		
319-86-8----	delta-BHC		
58-89-9-----	gamma-BHC (Lindane)		
76-44-8-----	Heptachlor	13.0	
309-00-2----	Aldrin		
1024-57-3--	Heptachlor Epoxide	15.0	
959-98-8----	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9-----	4,4'-DDE		
72-20-8-----	Endrin	16.3	
33213-65-9-	Endosulfan II		
72-54-8-----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3-----	4,4'-DDT		
72-43-5-----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	15.5	
5103-74-2--	gamma-Chlordane	16.8	
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB-01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3967P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^23943  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/8/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00 DL</u>	<u>U</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DF-01

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

Matrix: (soil/water) WATER Lab Sample ID: Jm3968P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3944

% Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/12/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00 DL</u>	<u>U DL</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 GC Column(1): DB-608 ID: .53 (mm) GC Column(2): DB-5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	89.1	94.2	91.8	101			0
02	PSPK01	81.2	92.9	94.2	103			0
03	CLJ-DB-01MS	84.3	93.8	114	125			0
04	CLJ-DB-01MSD	78.1	86.2	116	127			0
05	CLJ-DB-01	92.4	105	118	130			0
06	CLJ-DB-01	87.9	96.9	118	129			0
07	PSPK01T	-	-	-	-			
08	CLJ-DB-01MS1	-	-	-	-			
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY  
QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)  
 DCB = Decachlorobiphenyl (60-130)

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out

PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: CL-DB-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)					56-120
Heptachlor	16.8	0	14.0	83.6	40-131
Heptachlor Epoxide	18.2	0	15.3	84.2	30-130
Toxaphene	95.6	0	132	138*	30-130
Endrin	20.3	0	16.4	81.0	30-130
Methoxychlor					30-130
gamma-Chlordane	17.2	0	16.1	94.1	30-130
alpha-Chlordane	15.0	0	15.6	83.7	30-130
					30-130
					30-103
					30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
gamma-BHC (Lindane)					15	56-120
Heptachlor	16.8	13.6	81.0	289	20	40-131
Heptachlor Epoxide	18.2	15.0	82.4	198	20	30-130
Toxaphene					20	30-130
Endrin	20.3	12.3	60.3	611	20	30-130
Methoxychlor					20	30-130
gamma-Chlordane	17.2	16.8	97.7	401	20	30-130
alpha-Chlordane	18.0	15.5	83.3	515	20	30-130
						30-130
						30-130
						30-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 8 outside limits  
 Spike Recovery: 1 out of 16 outside limits

COMMENTS: There is no duplicate extracted for Toxaphene.

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA EPA SAMPLE NO: PBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: NTP40207P Lab File ID: NA  
 Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SepF  
 Sulfur Cleanup: (Y/N) N Date Extracted: 3-4-94  
 Date Analyzed (1): 3-12-94 Date Analyzed (2): 3-12-94  
 Time Analyzed (1): 13:06 Time Analyzed (2): 13:51  
 Instrument ID (1): 1 Instrument ID (2): 2  
 GC Column (1): DB-508 ID: .53 (mm) GC Column (2): DB-5 ID: .53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK01	NTP40207P	3-12-94	3-12-94
02	PSPK01	NTP40207PS		
03	CLJ-DB-01MS	JM3967PS		
04	CLJ-DB-01MSD	JM3967PR		
05	CLJ-DB-01	JM3967P		
06	CLJ-DB-01	JM3967P		
07	PSPK01T	NTP4081PST		
08	CLJ-DB-01MST	JM3967PST	✓	✓
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

60  
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 2 Level (x low): low 100 mid 5.00 high 100  
 GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
Beta-BHC						
delta-BHC						
gamma-BHC (Dieldrin)						
Heptachlor	12.65	12.64	12.65	12.65	12.60	12.70
Aldrin						
Heptachlor epoxide	15.13	15.13	15.13	15.13	15.06	15.20
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	18.02	18.02	18.02	18.02	17.97	18.09
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	16.36	16.36	16.36	16.36	16.29	16.43
gamma-Chlordane	15.91	15.91	15.91	15.91	15.84	15.98
Tetrachloro-m-xylene	7.94	7.90	7.90	7.91	7.86	7.96
Decachlorobiphenyl	32.37	32.38	32.38	32.38	32.28	32.48

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.



60

## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

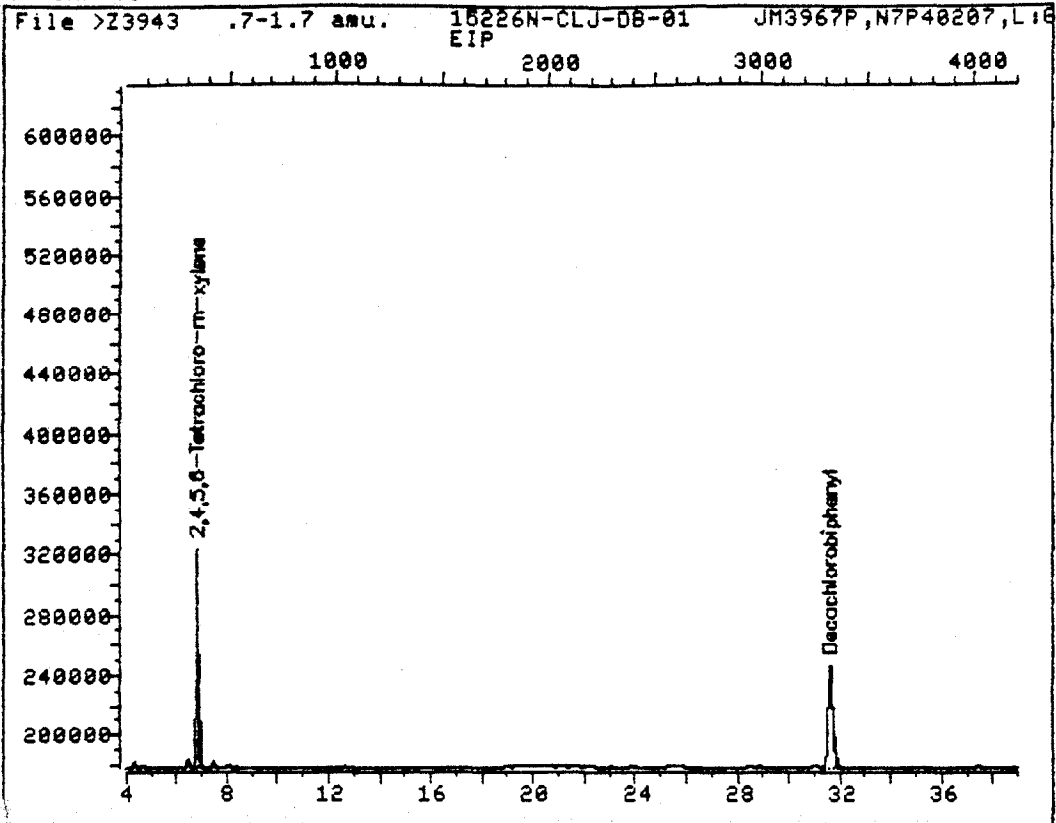
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SOG No.: NA  
 Instrument ID: 1 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	11.42	11.42	11.42	11.42	11.37	11.47
Aldrin						
Heptachlor epoxide	14.47	14.47	14.47	14.47	14.40	14.54
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	17.90	17.90	17.90	17.90	17.89	18.03
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	15.57	15.57	15.57	15.57	15.50	15.64
gamma-Chlordane	15.02	15.02	15.02	15.02	14.95	15.09
Tetrachloro-m-xylene	6.69	6.69	6.69	6.69	6.64	6.74
Decachlorobiphenyl	31.11	31.12	31.13	31.12	31.02	31.22

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.

## CHROMATOGRAM



Data File: >Z3943::D5  
Name: 15226N-CLJ-DB-01  
Misc: JM3967P,N7P40207,L:G2,25,5:1,

Quant Output File: ^Z3943::D5  
Instrument ID: Z

Id File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940312 16:45  
Injected at: 940312 16:05

0070  
DL  
3-14-94

QUANT REPORT

Page 1

Operator ID: USER1  
Output File: ^Z3943::D5  
Data File: >Z3943::D5  
Name: 15226N-CLJ-DB-01  
Misc: JM3967P,N7P40207,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940312 16:45  
                  Injected at: 940312 16:05  
Dilution Factor: 1.00000  
Instrument ID: Z

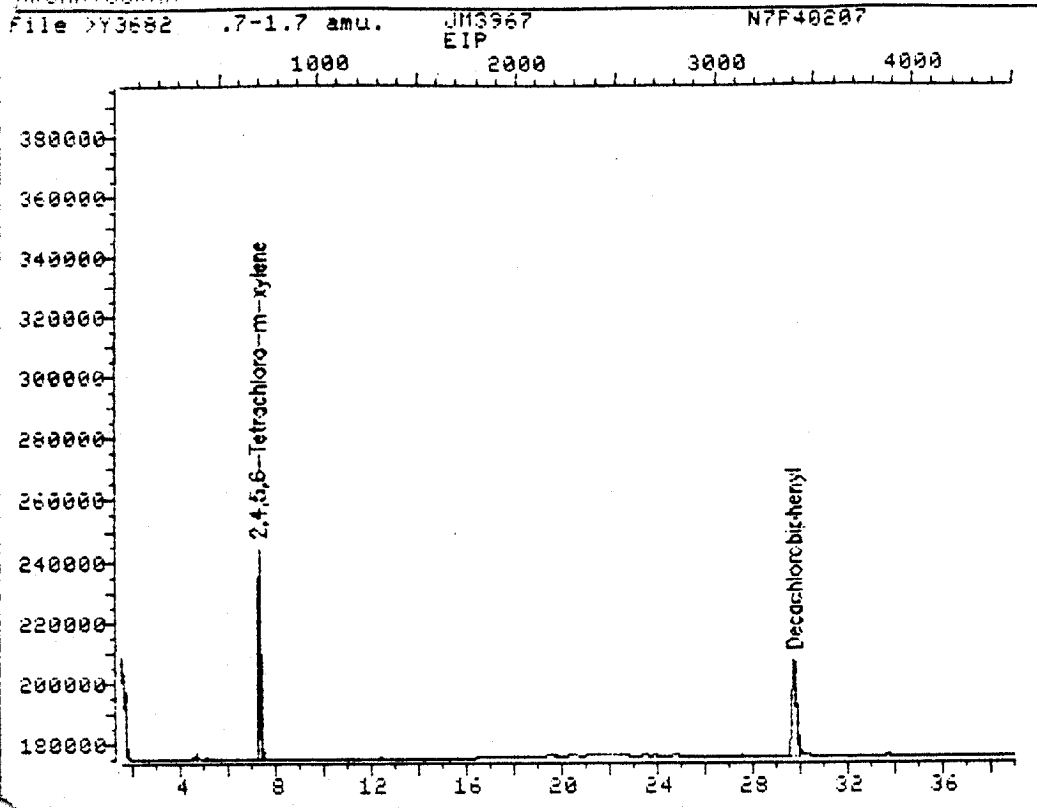
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.79	336	662307	.207	ug/ml	100
23) #Decachlorobiphenyl	31.58	3310	854900	.202	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3682::D5  
Name: JM3967  
Misc: N7P40207

Quant Output File: ^Y3682::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940312 17:30  
Injected at: 940312 16:49

DL 0072  
3-24-94

QUANT REPORT

Operator ID: USER1  
Output File: ^Y3682::D5  
Data File: >Y3682::D5  
Name: JM3967  
Misc: N7P40207

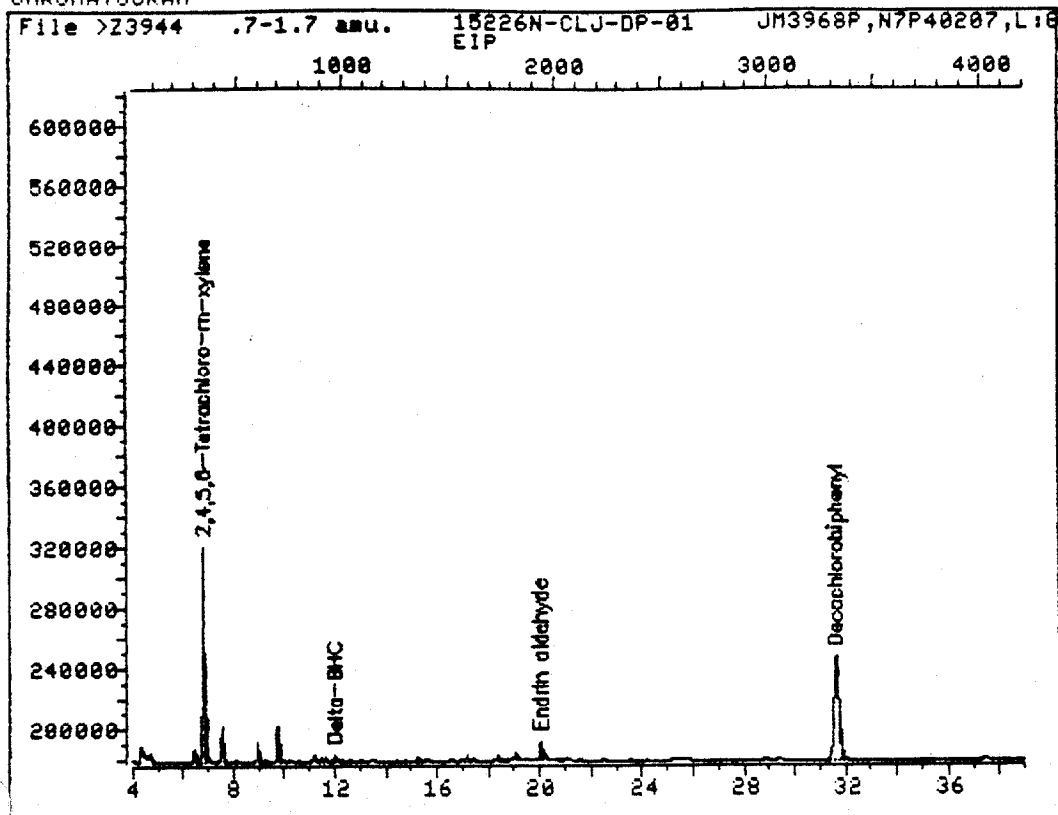
Quant Rev: 7      Quant Time: 940312 17:30  
                  Injected at: 940312 16:49  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.26	692	298879	.234	ug/ml	100
23) #Decachlorobiphenyl	29.73	3389	372140	.222	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;Z3944::D5

Quant Output File: ^Z3944::D5

Name: 15226N-CLJ-DP-01

Instrument ID: Z

Misc: JM3968P,N7P40207,L:G2,25,5:1,

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qual Time: &lt;none&gt;

Operator ID: USER1

Quant Time : 940312 17:29

Injected at: 940312 16:49

DL0074  
3-14-94

QUANT REPORT

Page 1

Operator ID: USER1  
Output File: ^Z3944::D5  
Data File: >Z3944::D5  
Name: 15226N-CLJ-DP-01  
Misc: JM3968P,N7P40207,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940312 17:29  
                  Injected at: 940312 16:49  
Dilution Factor: 1.00000  
Instrument ID: Z

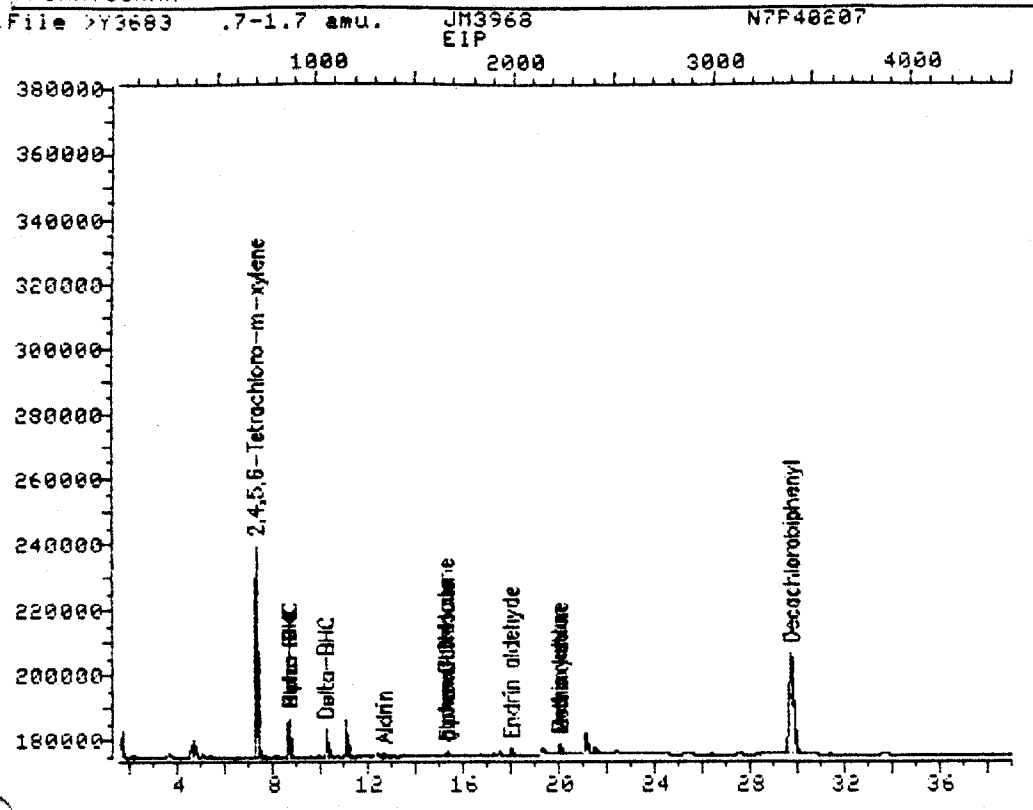
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.79	336	629028	.197	ug/ml	100
7) #Delta-BHC	11.97	957	28511	<del>.0428</del>	ug/ml	100
19) #Endrin aldehyde	20.01	1922	68576	<del>.0298</del>	ug/ml	100
23) #Decachlorobiphenyl	31.58	3311	852626	.202	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3683::D5  
Name: JM3968  
Misc: N7P40207

Quant Output File: ^Y3683::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qual Time: <none>

Operator ID: USER1  
Quant Time : 940312 18:15  
Injected at: 940312 17:34



DL 0076  
3-24-94

QUANT REPORT

Page 1

Operator ID: USER1  
Output File: ^Y3683::D5  
Data File: >Y3683::D5  
Name: JM3968  
Misc: N7P40207

Quant Rev: 7      Quant Time: 940312 18:15  
                  Injected at: 940312 17:34  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.26	692	277567	.217	ug/ml	100
2) #Alpha-BHC	8.67	862	51456	<del>.0300</del>	ug/ml	100
3) #Beta-BHC	8.67	862	43136	<del>.0496</del>	ug/ml	100
6) #Delta-BHC	10.21	1046	35968	<del>.0506</del>	ug/ml	100
8) #Aldrin	12.63	1336	9824	<del>.00636</del>	ug/ml	100
10) #gamma-Chlordane	15.25	1651	7744	<del>.00443</del>	ug/ml	100
11) #alpha-Chlordane	15.25	1651	7744	<del>.00509</del>	ug/ml	100
12) #Endosulfan I	15.25	1651	7744	<del>.00509</del>	ug/ml	100
18) #Endrin aldehyde	17.97	1978	10015	<del>.00860</del>	ug/ml	100
19) #Endrin ketone	19.99	2220	15520	<del>.0103</del>	ug/ml	100
22) #Methoxychlor	19.99	2220	15520	<del>.0276</del>	ug/ml	100
23) #Decachlorobiphenyl	29.72	3388	369515	.221	ug/ml	100

# Compound uses ESTD

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA* Case #: *NA*

SAS #: *NA* SDG #: *NA*

DW No.: *NA*

EPA Sample No.

Lab Sample ID.

*CLJ-DB-01*

*JM3967*

*CLJ-DB-01*

*JM3968*

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Were ICP interelement corrections applied?

Yes/NO *Yes*

Were ICP background corrections applied?  
If YES - were raw data generated before application of background corrections?

Yes/NO *Yes*

Yes/NO *No*

COMMENTS: *See SDG Narrative*  
\_\_\_\_\_  
\_\_\_\_\_

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

Signature: *J. Hnatow*

Name: *Joseph Hnatow*

Date: *5/10/94*

Title: *Operations Manager*

# INORGANIC ANALYSIS DATA SHEET (1)

0078

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLI-DB-01  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3967  
 % Solids: \_\_\_\_\_ Date Received: 02/28/94

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

ug/L   
*AP*  
*per MR/ASC*  
*6-16-94*

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	564			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	67.4			P
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	281			P
7439-96-5	Manganese				
7439-97-6	Mercury	0.218			CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	<del>0.2</del> 8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

0079

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-DP-01  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3968  
 % Solids: \_\_\_\_\_ Date Received: 02/28/94

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

ug/L - WP  
 per MP/ASC  
 6-16-94

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	13.4			F
7440-39-3	Barium	775			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	789			P
7440-47-3	Chromium	106			P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	897			P
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	u		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.3	u	w	F
7440-22-4	Silver	<del>20.9</del> 9.0	u		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0080

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic	32.8	34.4	105	20.5	21.1	103	19.5	95.1	P
Barium	9240	9460	102	4790	4863	101			P
Beryllium									
Boron									
Cadmium	2530	2580	102	1290	1290	100			P
Chromium	973	992	102	487	496	102			P
Cobalt									
Copper									
Iron									
Lead	4680	4730	101	2400	2420	101			P
Manganese									
Mercury	5.0	5.44	109	5.0	5.48	110			CV
Molybdenum									
Nickel									
Selenium									
Silver	1260	1240	98.4	588	595	101			P
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A) 0081

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: APG

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	39.1	38.0	97.2	23.5	23.8	101	25.3	108	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# CRDL STANDARD FOR AA AND ICP (2B)

0082

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: NA Case #: NA

SAS #: NA

SDG #: NA

AA CRDL Standard Source: \_\_\_\_\_

ICP CRDL Standard Source: Ventures

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	Initial True	Initial Found	Initial %R(1)	Final Found	Final %R(1)
Aluminum								
Antimony								
Arsenic	10.0	8.9	89.0					
Barium				402	402	100	407	101
Beryllium								
Boron								
Cadmium				10.8	10.6	98.1	10.2	94.4
Chromium				21.0	22.3	106	21.8	104
Cobalt								
Copper								
Iron								
Lead				160	141	88.1	144	90
Manganese								
Mercury	0.20	0.24	120					
Molybdenum								
Nickel								
Selenium	5.1	3.8	74.5					
Silver				22.0	19.7	89.5	17.3	78.6
Strontium								
Thallium								
Vanadium								
Zinc								

# BLANKS (3)

0083

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											
Antimony											
Arsenic	-1.7	B	-1.2	U	1.7	B			1.9	B	F
Barium	1.3	B	0.4	U					3.5	B	P
Beryllium											
Boron											
Cadmium	-0.1	U	-0.4	U					0.8	U	P
Chromium	0.4	U	-0.9	U					3.5	U	P
Cobalt											
Copper											
Iron											
Lead	0.4	U	-9.4	U					6.7	U	P
Manganese											
Mercury	-0.008	U	0.065	U					0.138	U	CV
Molybdenum											
Nickel											
Selenium	-1.2	U	-1.1	U	-0.6	U	-1.9	B	-0.5	U	F
Silver	2.2	U	0.7	U					0.2	U	P
Strontium											
Thallium											
Vanadium											
Zinc											



# ICP INTERFERENCE CHECK SAMPLE (4) - 0084

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

ICP ID #: 61

ISC Source: Ventura

Concentration Units: ug/L

ANALYTE	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium	φ	471	1.7	472	100	1.6	478	101
Beryllium								
Boron								
Cadmium	φ	874	-5.9	901	103	-6.2	898	103
Chromium	φ	462	-4.5	468	101	-5.0	468	101
Cobalt								
Copper								
Iron								
Lead	φ	883	-57.7	857	97.1	-42.7	841	95.2
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	φ	923	-7.3	901	97.6	-4.6	904	97.9
Strontium								
Thallium								
Vanadium								
Zinc								

# SPIKE SAMPLE RECOVERY (5A)

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLS-DB-01  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: NA  
 Matrix: (soil/water) WATER      Level (low/med): LOW      % Solids for Sample: \_\_\_\_\_

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR) C	SAMPLE RESULT (SR) C	SPIKE ADDED (SA)	%R	Q	M
Aluminum							
Antimony							
Arsenic	75-125	40.0	18.9	20.0	106		F
Barium	75-125	9830	564	10400	891		P
Beryllium							
Boron							
Cadmium	75-125	1010	67.4	1050	89.8		P
Chromium	75-125	4900	10.9	5430	90.0		P
Cobalt							
Copper							
Iron							
Lead	75-125	4896	281	5210	88.6		P
Manganese							
Mercury	75-125	2.08	0.218	3.0	93.1		CV
Molybdenum							
Nickel							
Selenium	75-125	10.7	<del>1.2</del> 10.8	U 20.0	53.5	N	F
Silver	75-125	88.5	0.2	U 93.5	94.7		P
Strontium							
Thallium							
Vanadium							
Zinc							

COMMENTS: \_\_\_\_\_

DUPLICATES (6)

Lab Name: Analytical Services Corp Contract: Neesa EPA Sample #: CLJ-DB-c  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER % Solids for Sample:       
 Level (low/med): LOW % Solids for Duplicate:     

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)		DUPLICATE (D)		RPD	Q	M
			C		C			
Aluminum								
Antimony								
Arsenic	20	18.9		18.0		4.9		F
Barium	20	564		581		3.0		P
Beryllium								
Boron								
Cadmium	20	67.4		69.8		3.5		P
Chromium		10.9		12.9		16.8		P
Cobalt								
Copper								
Iron								
Lead	20	282		292		3.5		P
Manganese								
Mercury	20	.218		.232		6.2		CV
Molybdenum								
Nickel								
Selenium		-1.2	U	0.1	U			F
Silver		0.2	U	-1.7	U			P
Strontium								
Thallium								
Vanadium								
Zinc								

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA SBLK1

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

Matrix: (soil/water) WATER Lab Sample ID: N7C40202

Sample wt/vol: 200 (g/mL) mL Lab File ID: D8091

% Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
95-48-7----	2-Methylphenol		100	U
106-44-5---	4-Methylphenol		100	U
67-72-1----	Hexachloroethane		100	U
98-95-3----	Nitrobenzene		100	U
87-68-3----	Hexachlorobutadiene		100	U
88-06-2----	2,4,6-Trichlorophenol		100	U
95-95-4----	2,4,5-Trichlorophenol		100	U
121-14-2---	2,4-Dinitrotoluene		100	U
118-74-1---	Hexachlorobenzene		100	U
87-86-5----	Pentachlorophenol		100	U
110-86-1---	Pyridine		100	U
72-43-5----	Methoxychlor		100	U
58-89-9----	gamma-BHC (Lindane)		100	U

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA SBLK1BS

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

Matrix: (soil/water) WATER Lab Sample ID: N7C40202S

Sample wt/vol: 200 (g/mL) mL Lab File ID: D8092

% Moisture: NA decanted: (Y/N) NA Date Received: 2/25/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94

Concentrated Extract Volume: \_\_\_\_\_ (uL) Date Analyzed: 3/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
95-48-7----	2-Methylphenol		186	
106-44-5---	4-Methylphenol		499	
67-72-1----	Hexachloroethane		438	
98-95-3----	Nitrobenzene		395	
87-68-3----	Hexachlorobutadiene		179	
88-06-2----	2,4,6-Trichlorophenol		684	
95-95-4----	2,4,5-Trichlorophenol		648	
121-14-2---	2,4-Dinitrotoluene		190	
118-74-1---	Hexachlorobenzene		267	
87-86-5----	Pentachlorophenol		1160	
110-86-1---	Pyridine		478	
72-43-5----	Methoxychlor		873	
58-89-9----	gamma-BHC (Lindane)		244	

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CW-DBOIMS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3967MS  
 Sample wt/vol: 200 (g/mL) mL Lab File ID: D8087  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2/26/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94  
 Concentrated Extract Volume: 200 (uL) Date Analyzed: 3/10/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
95-48-7----	2-Methylphenol		207	
106-44-5----	4-Methylphenol		543	
67-72-1----	Hexachloroethane		301	
98-95-3----	Nitrobenzene		414	
87-68-3----	Hexachlorobutadiene		914	
88-06-2----	2,4,6-Trichlorophenol		772	
95-95-4----	2,4,5-Trichlorophenol		759	
121-14-2----	2,4-Dinitrotoluene		237	
118-74-1---	Hexachlorobenzene		257	
87-86-5----	Pentachlorophenol		1520	
110-86-1---	Pyridine		515	
72-43-5----	Methoxychlor		939	
58-89-9----	gamma-BHC (Lindane)		284	

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DB CIMSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: 1M3967CR  
 Sample wt/vol: 200 (g/mL) mL Lab File ID: D8088  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2/28/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 3/5/94  
 Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3/10/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L Q

95-48-7----	2-Methylphenol	<u>192</u>	
106-44-5----	4-Methylphenol	<u>516</u>	
67-72-1----	Hexachloroethane	<u>335</u>	
98-95-3----	Nitrobenzene	<u>390</u>	
87-68-3----	Hexachlorobutadiene	<u>102</u>	
88-06-2----	2,4,6-Trichlorophenol	<u>716</u>	
95-95-4----	2,4,5-Trichlorophenol	<u>683</u>	
121-14-2----	2,4-Dinitrotoluene	<u>217</u>	
118-74-1---	Hexachlorobenzene	<u>247</u>	
87-86-5----	Pentachlorophenol	<u>1390</u>	
110-86-1---	Pyridine	<u>493</u>	
72-43-5----	Methoxychlor	<u>913</u>	
58-89-9----	gamma-BHC (Lindane)	<u>259</u>	

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESACLJ-DB-01Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix: (soil/water) WATERLab Sample ID: JM3967Sample wt/vol: 200 (g/mL) mLLab File ID: D8089% Moisture: NA decanted: (Y/N) NADate Received: 02/28/94Extraction: (SepF/Cont/Sonc) SepFDate Extracted: 03/05/94Concentrated Extract Volume: 2000 (uL)Date Analyzed:  / /94Injection Volume: 2.0  
1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: 5Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
95-48-7----	2-Methylphenol	100	u
106-44-5---	4-Methylphenol	100	u
67-72-1----	Hexachloroethane	100	u
98-95-3----	Nitrobenzene	100	u
87-68-3----	Hexachlorobutadiene	100	u
88-06-2----	2,4,6-Trichlorophenol	100	u
95-95-4----	2,4,5-Trichlorophenol	100	u
121-14-2---	2,4-Dinitrotoluene	100	u
118-74-1---	Hexachlorobenzene	100	u
87-86-5----	Pentachlorophenol	100	u
110-86-1---	Pyridine	100	u
72-43-5----	Methoxychlor	100	u
58-89-9----	gamma-BHC (Lindane)	100	u



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DP-01

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

Matrix: (soil/water) WATER Lab Sample ID: JM3968

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8090

% Moisture: NA decanted: (Y/N) NA Date Received: 02/28/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/05/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/10/94

Injection Volume: <sup>2.0</sup>~~1.0~~ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
95-48-7----	2-Methylphenol	100	U
106-44-5----	4-Methylphenol	100	U
67-72-1----	Hexachloroethane	100	U
98-95-3----	Nitrobenzene	100	U
87-68-3----	Hexachlorobutadiene	100	U
88-06-2----	2,4,6-Trichlorophenol	100	U
95-95-4----	2,4,5-Trichlorophenol	100	U
121-14-2----	2,4-Dinitrotoluene	100	U
118-74-1----	Hexachlorobenzene	100	U
87-86-5----	Pentachlorophenol	100	U
110-86-1----	Pyridine	100	U
72-43-5----	Methoxychlor	100	U
58-89-9----	gamma-BHC (Lindane)	100	U

2C  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT out
01	SBIKI	90.3	87.3	45.5	89.5	87.3	98.4			0
02	SBIKIBS	75.1	80.5	74.4	71.0	71.9	84.9			0
03	CLT-DB-01	79.3	77.7	83.2	81.7	77.2	90.5			0
04	CLT-DB-01MS	81.3	84.5	89.6	78.6	76.3	93.7			0
05	CLT-DB-01MSD	75.8	80.9	81.0	74.0	73.0	85.7			0
06	CLJ-DP-01	74.8	77.8	77.9	69.0	73.3	94.4			0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS  
 S1 (NBZ) = Nitrobenzene-d5 (35-114)  
 S2 (FBP) = 2-Fluorobiphenyl (43-116)  
 S3 (TPH) = Terphenyl-d14 (33-141)  
 S4 (PHL) = Phenol-d5 (10-110)  
 S5 (2FP) = 2-Fluorophenol (21-110)  
 S6 (TBP) = 2,4,6-Tribromophenol (10-123)  
 S7 (2CP) = 2-Chlorophenol-d4 (33-110) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (16-110) (advisory)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

## SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_Blank Spike - EPA Sample No.: SEKIES

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
2,4,5-Trichlorophenol	100750	0	65000	64.3	30-130
2,4,6-Trichlorophenol	103000	0	68500	66.4	30-130
2,4-Dinitrotoluene	25750	0	18950	73.8	24-96
2-Methylphenol	26250	0	18600	70.9	30-130
4-Methylphenol	50750	0	49400	98.3	30-130
Hexachlorobenzene	29250	0	26700	91.3	30-130
Hexachlorobutadiene	27500	0	17900	65.1	30-130
1,1-Dichloroethane	100750	0	48800	48.4	30-130
Nitrobenzene	50750	0	39500	77.8	30-130
Pentachlorophenol	102000	0	116500	* 114	9-103
Pyridine	73250	0	47800	65.3	30-130

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Spike Recovery: 1 out of 11 outside limits

COMMENTS: \_\_\_\_\_

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_Matrix Spike - EPA Sample No.: CLJ-DB-01MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC =	QC LIMITS REC.
2,4,5-Trichlorophenol	100750	0	76000	75.3	30-130
2,4,6-Trichlorophenol	103000	0	77000	75.0	30-130
2,4-Dinitrotoluene	25750	0	23700	92.0	24- 96
2-Methylphenol	26250	0	20700	78.9	30-130
4-Methylphenol	50750	0	54500	107	30-130
Hexachlorobenzene	29250	0	25700	87.9	30-130
Hexachlorobutadiene	27500	0	9150	33.2	30-130
Hexachloroethane	100750	0	30100	* 29.9	30-130
Nitrobenzene	50750	0	41400	81.6	30-130
Pentachlorophenol	102000	0	152000	* 149	9-103
Pyridine	73250	0	51500	70.3	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC =	% RPD =	QC LIMITS RPD REC.
2,4,5-Trichlorophenol	100750	68500	68.0	10.5	30-130
2,4,6-Trichlorophenol	103000	71500	69.4	7.53	30-130
2,4-Dinitrotoluene	25750	21700	84.3	8.81	24- 96
2-Methylphenol	26250	19200	73.1	7.52	30-130
4-Methylphenol	50750	51600	102	5.10	30-130
Hexachlorobenzene	29250	24700	84.4	3.97	30-130
Hexachlorobutadiene	27500	10150	36.9	10.6	30-130
Hexachloroethane	100750	33500	33.3	10.7	30-130
Nitrobenzene	50750	39050	76.9	5.97	30-130
Pentachlorophenol	102000	138500	* 135.8	8.93	9-103
Pyridine	73250	49300	67.3	4.37	30-130

= Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 11 outside limits  
Spike Recovery: 3 out of 22 outside limits

COMMENTS: \_\_\_\_\_

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBIKI

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Lab File ID: D8091

Lab Sample ID: N7C40202

Instrument ID: MSD-D

Date Extracted: 03-04-94

Matrix: (soil/water) Top Fluid

Date Analyzed: 03-10-94

Level: (low/med) Low

Time Analyzed: 2004

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBIKI	N7C40202	D8091	03-10-94
02	SBIKIBS	N7C40202	D8092	03-10-94
03	CLJ-DB-01	JM3967	D8089	03-10-94
04	CLJ-DB-01MS	JM3967MS	D8087	03-10-94
05	CLJ-DB-01MSD	JM3967MSD	D8088	03-10-94
06	CLJ-DP-01	JM3968	D8090	03-10-94
07				
08				
09				
10				
11				
12				
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COMMENTS:

\_\_\_\_\_

5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D8005 DFTPP Injection Date: 07-07-94  
 Instrument ID: MSD-D DFTPP Injection Time: 0716

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	25.0 - 75.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	23.6
265	Greater than 0.75% of mass 198	3.4
441	Present, but less than mass 443	71.2
442	40.0 - 110.0% of mass 198	75.5
443	15.0 - 24.0% of mass 442	14.6 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	sstd20	sstd20	D8007	03-07-94	1323
02	sstd50	sstd50	D8008	03-07-94	1417
03	sstd80	sstd80	D8009	03-07-94	1511
04	sstd120	sstd120	D8010	03-07-94	1604
05	sstd160	sstd160	D8011	03-07-94	1658
06					
07					
08					
09					
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58  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D8080 DFTPP Injection Date: 03-10-94  
 Instrument ID: MSD-D DFTPP Injection Time: 1151

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	63.8
68	Less than 2.0% of mass 69	0.4 ( 0.5 )
69	Mass 69 relative abundance	72.3
70	Less than 2.0% of mass 69	0.2 ( 0.3 )
127	25.0 - 75.0% of mass 198	41.3
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.1
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	70.6
442	40.0 - 110.0% of mass 198	108.7
443	15.0 - 24.0% of mass 442	21.5 ( 19.7 )

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Sstd50	Sstd50	D8081	03-10-94	1214
02	SBIK1	N7040202	D8091	03-10-94	2004
03	SBIK1B5	N7040202	D8092	03-10-94	2048
04	CLJ-DB-01	JM3967	D8089	03-10-94	1836
05	CLJ-DB-01MS	JM3967MS	D8087	03-10-94	1709
06	CLJ-DB-01MSD	JM3967MSD	D8088	03-10-94	1753
07	CLJ-DF-01	JM3968	D8090	03-10-94	1920
08					
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## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date(s): 02-08-94 03-07-94  
 Calibration Times: 11:52 16:58

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
LAB FILE ID: RRF80 = <u>D8009</u>	RRF20 = <u>D8007</u>	RRF50 = <u>D8008</u>	RRF80 = <u>D8011</u>	RRF120 = <u>D8010</u>	RRF160 = <u>D8011</u>		
Phenol	* 1.75	1.70	1.72	1.60	1.52	1.66	5.82
bis(2-Chloroethyl) ether	* 3.66	3.60	3.42	3.20	3.02	3.38	7.91
2-Chlorophenol	* 1.34	1.35	1.30	1.26	1.24	1.30	3.51
1,3-Dichlorobenzene	* 1.43	1.45	1.30	1.33	1.35	1.37	4.71
1,4-Dichlorobenzene	* 1.51	1.48	1.53	1.33	1.33	1.43	6.95
1,2-Dichlorobenzene	* 1.37	1.29	1.20	1.08	1.08	1.20	10.5
2-Methylphenol	* 1.23	1.18	1.09	1.10	1.07	1.13	5.96
2,2'-oxybis(1-Chloropropane)	3.31	3.23	3.18	3.06	2.95	3.14	4.52
4-Methylphenol	* 1.411	1.39	1.38	1.29	1.23	1.34	5.73
N-Nitroso-di-n-propylamine	* 1.22	1.19	1.13	0.999	0.922	1.09	11.7
Hexachloroethane	* 0.680	0.687	0.648	0.672	0.624	0.652	4.65
Nitrobenzene	* 0.451	0.441	0.411	0.367	0.374	0.409	9.28
Isophorone	* 0.978	0.951	0.890	0.809	0.791	0.884	9.40
2-Nitrophenol	* 0.211	0.214	0.199	0.185	0.182	0.198	7.29
2,4-Dimethylphenol	* 0.401	0.398	0.372	0.334	0.324	0.366	9.70
bis(2-Chloroethoxy) methane	* 0.571	0.534	0.498	0.453	0.441	0.499	10.9
2,4-Dichlorophenol	* 0.281	0.292	0.277	0.252	0.243	0.269	7.72
1,2,4-Trichlorobenzene	* 0.325	0.318	0.294	0.264	0.249	0.294	9.36
Naphthalene	* 1.04	0.980	0.978	0.781	0.777	0.891	12.9
4-Chloroaniline	0.397	0.531	0.511	0.461	0.456	0.471	11.1
Hexachlorobutadiene	0.199	0.199	0.181	0.167	0.169	0.183	8.52
4-Chloro-3-methylphenol	* 0.375	0.338	0.373	0.347	0.343	0.365	5.34
2-Methylnaphthalene	* 0.659	0.637	0.575	0.503	0.485	0.572	13.6
Hexachlorocyclopentadiene	0.021	0.072	0.087	0.105	0.114	0.08	46.6
2,4,6-Trichlorophenol	* 0.348	0.354	0.327	0.307	0.297	0.327	7.68
2,4,5-Trichlorophenol	* 0.369	0.369	0.309	0.268	0.258	0.315	17.0
2-Chloronaphthalene	* 1.06	0.994	0.967	0.783	0.741	0.889	15.3
2-Nitroaniline	0.426	0.477	0.441	0.420	0.414	0.436	5.79
Dimethylphthalate	1.51	1.42	1.26	1.13	1.09	1.28	14.0
Acenaphthylene	* 1.67	1.57	1.42	1.25	1.20	1.42	14.4
2,6-Dinitrotoluene	* 0.339	0.352	0.334	0.306	0.301	0.326	6.76
3-Nitroaniline	0.247	0.268	0.282	0.281	0.287	0.273	5.98
Acenaphthene	* 1.14	1.06	0.903	0.762	0.712	0.915	20.1
2,4-Dinitrophenol		0.050	0.063	0.077	0.093	0.071	26.4
4-Nitrophenol		0.059	0.070	0.082	0.094	0.076	20.1
Dibenzofuran	* 1.59	1.45	1.25	1.05	0.977	1.26	20.6
2,4-Dinitrotoluene	* 0.435	0.477	0.424	0.361	0.380	0.409	13.0

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.



6C  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date(s): 02-08-94 03-07-94  
 Calibration Times: 11:52 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008  
 RRF80 = D8009 RRF120 = D8010 RRF160 = D8010

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%RSD
Diethylphthalate	1.69	1.56	1.37	1.17	1.14	1.39	17.1
4-Chlorophenyl-phenylether	* 0.675	0.629	0.547	0.482	0.458	0.558	16.7
Fluorene	* 1.28	1.16	1.00	0.852	0.810	1.02	19.5
4-Nitroaniline	0.203	0.271	0.241	0.226	0.266	0.241	11.6
4,6-Dinitro-2-methylphenol	0.074	0.129	0.125	0.117	0.119	0.112	19.8
N-Nitrosodiphenylamine (1)	0.568	0.507	0.434	0.366	0.346	0.444	21.1
4-Bromophenyl-phenylether	* 0.283	0.261	0.232	0.203	0.193	0.235	16.1
Hexachlorobenzene	* 0.396	0.383	0.322	0.282	0.264	0.325	17.0
Pentachlorophenol	*	0.079	0.069	0.091	0.112	0.093	15.3
Phenanthrene	* 1.16	1.02	0.896	0.759	0.735	0.913	19.5
Anthracene	* 1.14	1.07	0.927	0.818	0.781	0.946	16.3
Carbazole	0.467	0.481	0.231	0.731	0.736	0.844	14.3
Di-n-butylphthalate	1.97	1.74	1.46	1.21	1.17	1.51	22.9
Fluoranthene	* 1.18	1.16	0.975	0.825	0.827	0.993	17.3
Pyrene	* 1.40	1.24	1.16	1.01	0.878	1.14	17.9
Butylbenzylphthalate	0.851	0.721	0.625	0.525	0.468	0.638	24.0
3,3'-Dichlorobenzidine	0.399	0.454	0.397	0.379	0.360	0.398	8.78
Benzo(a)anthracene	* 1.16	1.13	1.06	0.995	0.968	1.06	7.87
Chrysene	* 1.10	1.10	0.998	0.938	0.929	1.01	8.27
bis(2-Ethylhexyl)phthalate	1.29	1.18	1.07	0.929	0.855	1.07	16.8
Di-n-octylphthalate	2.10	1.77	1.79	1.63	1.49	1.76	13.0
Benzo(b)fluoranthene	* 1.22	1.06	1.09	0.899	0.922	1.03	12.0
Benzo(k)fluoranthene	* 1.31	1.26	1.18	1.15	1.03	1.18	9.43
Benzo(a)pyrene	* 0.948	0.964	0.917	0.863	0.845	0.907	5.70
Indeno(1,2,3-cd)pyrene	* 0.751	0.891	0.833	0.820	0.818	0.823	6.05
Dibenz(a,h)anthracene	* 0.545	0.739	0.663	0.668	0.674	0.663	9.38
Benzo(g,h,i)perylene	* 0.561	0.716	0.693	0.655	0.663	0.650	8.59
Nitrobenzene-d5	0.432	0.454	0.410	0.385	0.388	0.414	7.08
2-Fluorobiphenyl	* 1.21	1.06	0.855	0.704		0.955	23.1
Terphenyl-d14	* 1.11	0.994	0.912	0.794	0.687	0.900	18.5
Phenol-d5	* 1.55	1.59	1.53	1.46	1.40	1.51	5.04
2-Fluorophenol	* 1.24	1.25	1.23	1.19	1.18	1.22	2.66
2,4,6-Tribromophenol	0.268	0.291	0.274	0.246	0.247	0.265	7.19
2-Chlorophenol-d4	*						
1,2-Dichlorobenzene-d4	*						

1; Cannot be separated from Diphenylamine  
 \* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

7B

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14  
 Lab File ID: D8081 Init. Calib. Date(s): 02-08-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.66	1.77	0.800	6.80	25.0
bis(2-Chloroethyl) ether	3.38	3.62	0.700	7.20	25.0
2-Chlorophenol	1.30	1.32	0.800	1.50	25.0
1,3-Dichlorobenzene	1.37	1.34	0.600	2.80	25.0
1,4-Dichlorobenzene	1.43	1.55	0.500	8.40	25.0
1,2-Dichlorobenzene	1.20	1.26	0.400	5.10	25.0
2-Methylphenol	1.13	1.38	0.700	21.6	25.0
2,2'-oxybis(1-Chloropropane)	3.14	4.10		40.0	
4-Methylphenol	1.34	1.47	0.600	9.30	25.0
N-Nitroso-di-n-propylamine	1.09	1.32	0.500	20.9	25.0
Hexachloroethane	0.652	0.720	0.300	10.5	25.0
Nitrobenzene	0.413	0.473	0.200	14.4	25.0
Isophorone	0.884	1.04	0.400	17.9	25.0
2-Nitrophenol	0.198	0.226	0.100	14.2	25.0
2,4-Dimethylphenol	0.346	0.406	0.200	11.0	25.0
bis(2-Chloroethoxy) methane	0.494	0.576	0.300	15.4	25.0
2,4-Dichlorophenol	0.269	0.298	0.200	10.8	25.0
1,2,4-Trichlorobenzene	0.294	0.325	0.200	10.4	25.0
Napthalene	0.891	1.04	0.700	17.1	25.0
4-Chloroaniline	0.471	0.428		10.1	
Hexachlorobutadiene	0.183	0.217		18.8	
4-Chloro-3-methylphenol	0.365	0.400	0.200	9.6	25.0
2-Methylnapthalene	0.572	0.636	0.400	11.2	25.0
Hexachlorocyclopentadiene	0.080	0.095		19.3	
2,4,6-Trichlorophenol	0.327	0.353	0.200	8.00	25.0
2,4,5-Trichlorophenol	0.315	0.358	0.200	13.9	25.0
2-Chloronapthalene	0.889	0.986	0.300	10.9	25.0
2-Nitroaniline	0.436	0.497		14.1	
Dimethylphthalate	1.28	1.40		9.20	
Acenaphthylene	1.42	1.57	1.000	10.5	25.0
2,6-Dinitrotoluene	0.326	0.305	0.200	11.9	25.0
3-Nitroaniline	0.273	0.297		8.70	
Acenaphthene	0.915	1.06	0.800	16.2	25.0
2,4-Dinitrophenol	0.071	0.068		3.3	
4-Nitrophenol	0.076	0.050		34.6	
Dibenzofuran	1.26	1.47	0.800	16.7	25.0
2,4-Dinitrotoluene	0.409	0.475	0.200	16.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14  
 Lab File ID: D8081 Init. Calib. Date(s): 02-08-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.62		16.9	
4-Chlorophenyl-phenylether	0.558	0.654	0.400	17.1	25.0
Fluorene	1.02	1.23	0.900	21.0	25.0
4-Nitroaniline	0.241	0.271		12.4	
4,6-Dinitro-2-methylphenol	0.113	0.135		19.7	
N-Nitrosodiphenylamine (1)	0.444	0.522		17.6	
4-Bromophenyl-phenylether	0.235	0.257	0.100	9.50	25.0
Hexachlorobenzene	0.325	0.349	0.100	7.30	25.0
Pentachlorophenol	0.093	0.092	0.050	0.500	25.0
Phenanthrene	0.913	1.09	0.700	19.8	25.0
Anthracene	0.446	1.09	0.700	14.7	25.0
Carbazole	0.849	0.983		15.8	
Di-n-butylphthalate	1.51	1.78		17.7	
Fluoranthene	0.993	1.13	0.600	13.7	25.0
Pyrene	1.14	1.38	0.600	21.4	25.0
Butylbenzylphthalate	0.638	0.801		25.6	
3,3'-Dichlorobenzidine	2.25	2.84		26.3	
Benzo(a)anthracene	1.06	1.16	0.800	9.00	25.0
Chrysene	1.01	1.14	0.700	12.0	25.0
bis(2-Ethylhexyl)phthalate	1.07	1.35		27.1	
Di-n-octylphthalate	1.76	2.25		28.2	
Benzo(b)fluoranthene	1.03	1.05	0.700	1.90	25.0
Benzo(k)fluoranthene	1.18	1.37	0.700	16.4	25.0
Benzo(a)pyrene	0.907	0.989	0.700	9.00	25.0
Indeno(1,2,3-cd)pyrene	0.823	0.975	0.500	18.5	25.0
Dibenz(a,h)anthracene	0.663	0.794	0.400	19.9	25.0
Benzo(g,h,i)perylene	0.650	0.778	0.500	19.7	25.0
Nitrobenzene-d5	0.413	0.473	0.200	14.4	25.0
2-Fluorobiphenyl	0.955	1.01	0.700	5.7	25.0
Terphenyl-d14	0.900	1.09	0.500	20.9	25.0
Phenol-d5	1.51	1.59	0.800	5.50	25.0
2-Fluorophenol	1.22	1.22	0.600	0.00	25.0
2,4,6-Tribromophenol	0.265	0.286		7.80	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine  
 All other compounds must meet a minimum RRF of 0.010.

88  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D8081 Date Analyzed: 03-10-94  
 Instrument ID: MSD-D Time Analyzed: 1214

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT
12 HOUR STD	28947	10.50	109933	13.07	77172	17.00
UPPER LIMIT	57894	11.00	219866	13.57	154344	17.50
LOWER LIMIT	14473	10.00	54961	12.57	38586	16.50
EPA SAMPLE NO.						
01 SBKI	23885	10.47	88946	13.06	59021	16.98
02 SBKBS	30315	10.47	108380	13.06	69631	16.98
03 CLJ-DB-C1	25344	10.49	97244	13.06	66209	16.98
04 CLJ-DB-CIMS	29520	10.47	104787	13.06	68253	16.98
05 CLJ-DB-C1 MSD	29982	10.48	108349	13.04	70269	16.99
06 CLJ-DB-C1	26391	10.47	98825	13.06	64561	16.98
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 (NPT) = Naphthalene-d8  
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

8C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D8081 Date Analyzed: 03-10-94  
 Instrument ID: MSD-D Time Analyzed: 1214

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #	
12 HOUR STD	135369	20.38	108995	26.74	103478	32.51	
UPPER LIMIT	270738	20.88	217990	27.24	206956	33.01	
LOWER LIMIT	67684	19.88	54497	26.24	51739	32.01	
EPA SAMPLE NO.							
01	SBLKI	103863	20.36	96275	26.71	97659	32.49
02	SBLKIBS	122863	20.36	114375	26.72	111448	32.49
03	CLJ-DB-01	113325	20.36	111421	26.72	113986	32.49
04	CLJ-DB-01MS	122546	20.37	110482	26.72	106743	32.52
05	CLJ-DB-01MSD	126617	20.37	115531	26.73	112792	32.50
06	CLJ-DP-01	112351	20.36	107968	26.70	108580	32.47
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10  
 IS5 (CRY) = Chrysene-d12  
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

‡ Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

Data File: /chem/a900.i/d031094.b/d8089.d  
 Report Date: 11-Mar-1994 06:40

Page 1

## Analytical Services Corp.

## BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d031094.b/d8089.d  
 Lab. Id. : Quant Type: ISTD  
 Inj Date : 10-MAR-94 18:36 Autotune Date: {  
 Operator : Tom Inst ID: a900.i  
 Smp Info : 15226N CLJ-DB-01  
 Misc Info : JM3967C,N7C40202,L:M1,200,2:1, BTL#1  
 Comment :  
 Method : /chem/a900.i/d031094.b/bnaclpd.m  
 Meth Date : 10-Mar-1994 13:07  
 Cal Date : 10-MAR-94 12:14 Cal File: d8081.d  
 Als bottle: 0  
 Dil Factor: 1.000 Target Version: Target 3.00  
 Integrator: HP RTE Compound Sublist: all.sub  
 Sample Matrix: WATER

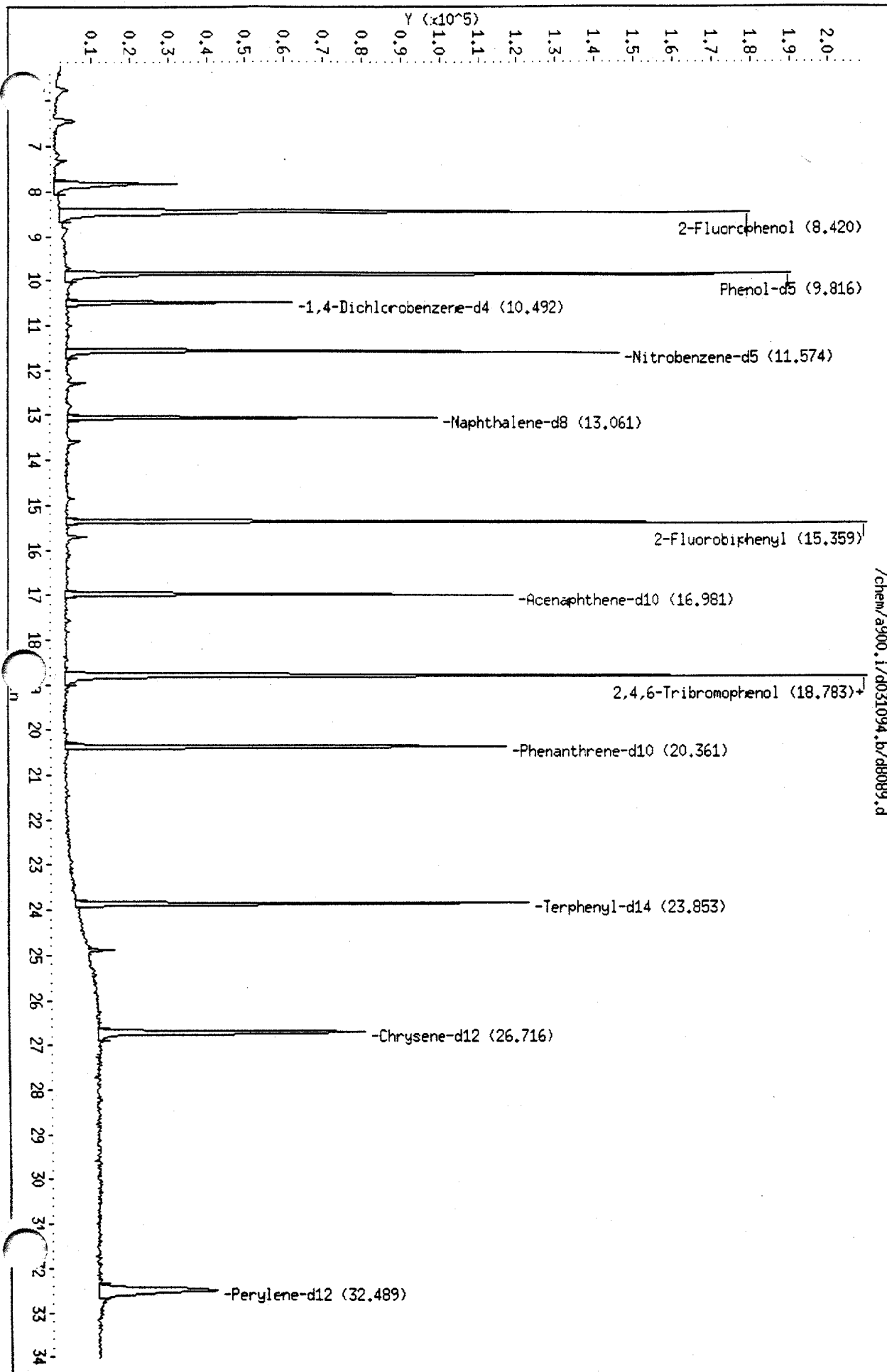
TS  
3-17-94

Compounds	QUANT SIG	RT	REL RT	RESPONSE	CONCENTRATIONS		
					ON-COLUMN (ug/ml)	FINAL (ug/ml)	
2-Fluorophenol	112.00	8.420	(0.802)	150350	195	97.3 (AR)	✓
\$ 4 Phenol-d5	99.00	9.816	(0.936)	182744	181	90.7 (AR)	✓
* 9 1,4-Dichlorobenzene-d4	152.00	10.492	(1.000)	25344	40.0		
\$ 17 Nitrobenzene-d5	82.00	11.574	(0.886)	114389	99.4	49.7 (R)	✓
* 25 Naphthalene-d8	136.00	13.061	(1.000)	97244	40.0		✓
\$ 35 2-Fluorobiphenyl	172.00	15.359	(0.904)	166222	99.5	49.7 (R)	✓
* 42 Acenaphthene-d10	164.00	16.981	(1.000)	66209	40.0		✓
\$ 54 2,4,6-Tribromophenol	330.00	18.783	(1.106)	108444	229	114 (AQR)	
55 4-Bromophenyl-phenylether	248.00	18.783	(0.923)	5205	6.97	<del>3.48 (AQR)</del>	
* 59 Phenanthrene-d10	188.00	20.361	(1.000)	116325	40.0		✓
\$ 67 Terphenyl-d14	244.00	23.853	(0.893)	140306	46.3	23.2	✓
* 73 Chrysene-d12	240.00	26.716	(1.000)	111421	40.0		
* 79 Perylene-d12	264.00	32.489	(1.000)	113986	40.0		

## QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/a900.i/d031094.b/d8089.d  
Date: 10-MAR-94 18:36  
Instrument: a900.i  
Sample ID:  
Column phase: J&W DB-5  
Volume Injected (ul): 2.0



/chem/a900.i/d031094.b/d8089.d

Column diameter: 0.25

Data File: /chem/a900.i/d031094.b/d8090.d  
 Report Date: 11-Mar-1994 06:41

Page 1

## Analytical Services Corp.

## BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d031094.b/d8090.d

Lab. Id. : Quant Type: ISTD

Inj Date : 10-MAR-94 19:20 Autotune Date: {

Operator : Tom Inst ID: a900.i

Smp Info : 15226N CLJ-DP-01

Misc Info : JM3968C,N7C40202,L:M1,400,4:1,

BTL#1

Comment :

Method : /chem/a900.i/d031094.b/bnaclpd.m

Meth Date : 10-Mar-1994 13:07

Cal Date : 10-MAR-94 12:14

Cal File: d8081.d

Als bottle: 0

Dil Factor: 1.000

Target Version: Target 3.00

Integrator: HP RTE

Compound Sublist: all.sub

Sample Matrix: WATER

Compounds	QUANT SIG	MASS	RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/ml)
3 2-Fluorophenol	----	112.00	8.420	(0.804)	148516	185	92.3 (AR) ✓
S 4 Phenol-d5	----	99.00	9.817	(0.938)	151121	144	72.1 (R) ✓
5 Phenol	----	94.00	9.839	(0.940)	113229	97.0	48.5 ✓
6 bis(2-Chloroethyl)ether	----	93.00	9.839	(0.940)	2725	1.14	0.572 (AQ) ✓
* 9 1,4-Dichlorobenzene-d4	----	152.00	10.470	(1.000)	26331	40.0	
S 17 Nitrobenzene-d5	----	82.00	11.575	(0.886)	109602	93.8	46.9 (R) ✓
* 25 Naphthalene-d8	----	136.00	13.062	(1.000)	98825	40.0	
S 35 2-Fluorobiphenyl	----	172.00	15.361	(0.904)	162251	99.6	49.8 (R) ✓
* 42 Acenaphthene-d10	----	164.00	16.983	(1.000)	64561	40.0	
53 N-Nitrosodiphenylamine	----	169.00	18.335	(0.900)	4707	3.21	1.60 (a) ✓
S 54 2,4,6-Tribromophenol	----	330.00	18.786	(1.106)	110055	238	119 (AQR) ✓
55 4-Bromophenyl-phenylether	----	248.00	18.786	(0.923)	5379	7.46	3.73 (AQ) ✓
* 59 Phenanthrene-d10	----	188.00	20.364	(1.000)	112351	40.0	
S 67 Terphenyl-d14	----	244.00	23.857	(0.894)	127236	43.3	21.7 ✓
70 bis(2-Ethylhexyl)phthalate	----	149.00	26.247	(0.983)	74263	20.3	10.2 ✓
* 73 Chrysene-d12	----	240.00	26.698	(1.000)	107968	40.0	
75 Di-n-octylphthalate	----	149.00	28.141	(0.867)	1916	0.314	0.157 (a) ✓
* 79 Perylene-d12	----	264.00	32.471	(1.000)	108580	40.0	

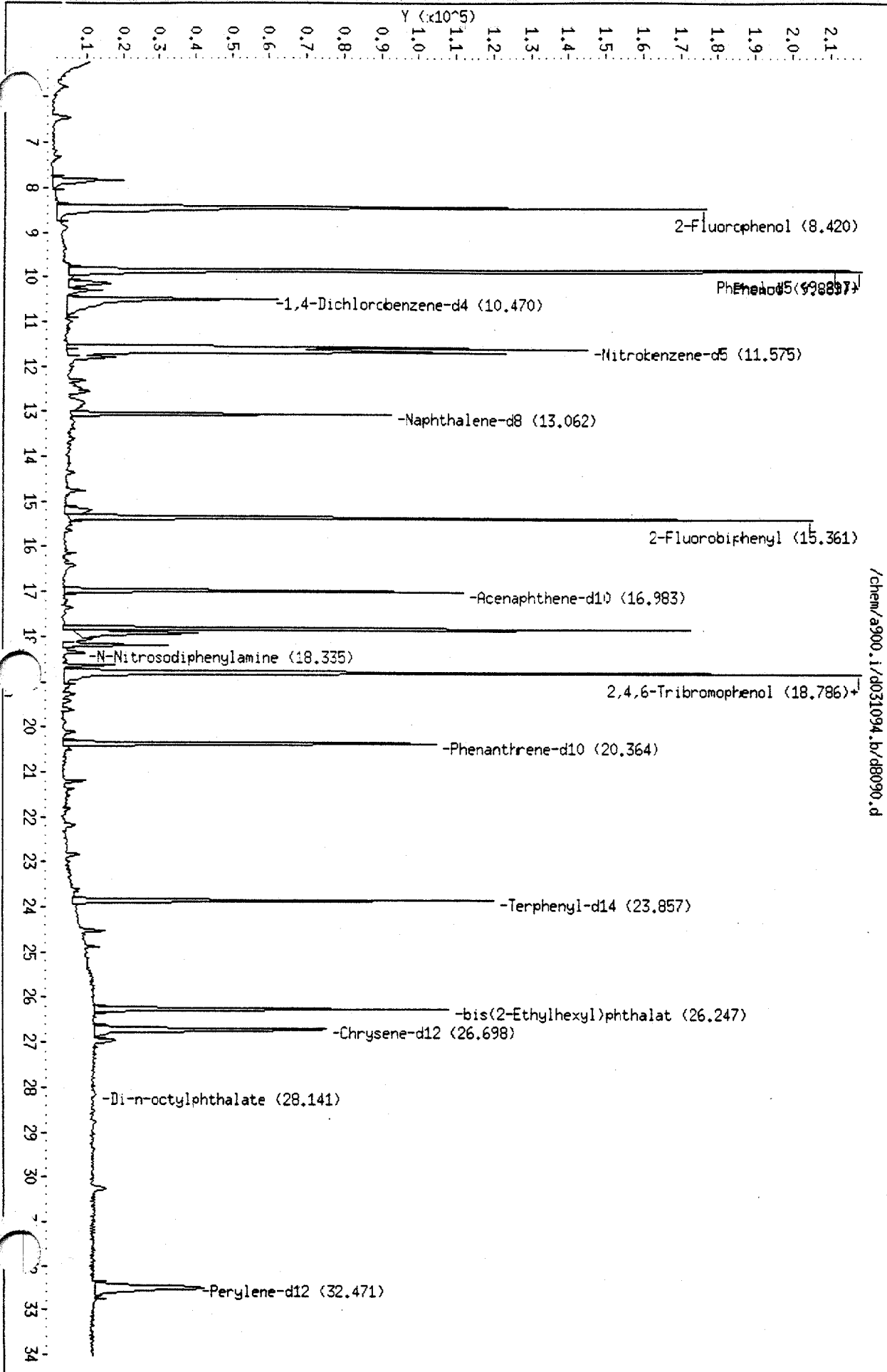
## QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.



Data File: /chem/a900.1/d031094.b/d8090.d  
Date: 10-MAR-94 19:20  
Instrument: a900.1  
Sample ID:  
Column phase: J&W DB-5  
Volume Injected (ul): 2.0

Column diameter: 0.25



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA VBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: NV3388V  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B3106  
 Level: (low/med) NA Date Received: 2-23-94  
 % Moisture: not dec. NA Date Analyzed: 3-21-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

## CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No. **0110**

VSPK01

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: NV3388VS  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B3107  
 Level: (low/med) NA Date Received: 2-28-94  
 ‡ Moisture: not dec. NA Date Analyzed: 3-21-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	2230	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	2330	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	2630	
107-06-2	1,2-Dichloroethane	2710	
78-93-3	2-Butanone	4390	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	2480	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	2440	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	2420	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	2330	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	2450	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	2320	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CW-DB-01MS

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

Matrix: (soil/water) WATER Lab Sample ID: JM3967VS

Sample wt/vol: 300 (g/mL) ML Lab File ID: B3109

Level: (low/med) NA Date Received: 2-28-94

% Moisture: not dec. NA Date Analyzed: 3-21-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	2160	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	2340	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	2640	
107-06-2	1,2-Dichloroethane	2700	
78-93-3	2-Butanone	4180	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	2620	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	2500	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	2470	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	2360	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	2450	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	2370	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DB-01MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3967VR  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B3110  
 Level: (low/med) NA Date Received: 2-28-94  
 ‡ Moisture: not dec. NA Date Analyzed: 3-21-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	-----Chloromethane	NA	
74-83-9	-----Bromomethane	NA	
75-01-4	-----Vinyl Chloride	2030	
75-00-3	-----Chloroethane	NA	
75-09-2	-----Methylene Chloride	NA	
67-64-1	-----Acetone	NA	
75-15-0	-----Carbon Disulfide	NA	
75-35-4	-----1,1-Dichloroethene	2320	
75-34-3	-----1,1-Dichloroethane	NA	
540-59-0	-----1,2-Dichloroethene (total)	NA	
67-66-3	-----Chloroform	2580	
107-06-2	-----1,2-Dichloroethane	2650	
78-93-3	-----2-Butanone	3960	
71-55-6	-----1,1,1-Trichloroethane	NA	
56-23-5	-----Carbon Tetrachloride	2600	
75-27-4	-----Bromodichloromethane	NA	
78-87-5	-----1,2-Dichloropropane	NA	
10061-01-5	-----cis-1,3-Dichloropropene	NA	
79-01-6	-----Trichloroethene	2490	
124-48-1	-----Dibromochloromethane	NA	
79-00-5	-----1,1,2-Trichloroethane	NA	
71-43-2	-----Benzene	2520	
10061-02-6	-----trans-1,3-Dichloropropene	NA	
75-25-2	-----Bromoform	NA	
108-10-1	-----4-Methyl-2-Pentanone	NA	
591-78-6	-----2-Hexanone	NA	
127-18-4	-----Tetrachloroethene	2380	
79-34-5	-----1,1,2,2-Tetrachloroethane	NA	
108-88-3	-----Toluene	NA	
108-90-7	-----Chlorobenzene	2440	
100-41-4	-----Ethylbenzene	NA	
100-42-5	-----Styrene	NA	
1330-20-7	-----Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	2350	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0113

CLS-DB-01

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3967V  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B3108  
 Level: (low/med) NA Date Received: 2-28-94  
 % Moisture: not dec. NA Date Analyzed: 3-21-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DP-01

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

Matrix: (soil/water) WATER Lab Sample ID: JM 29168V

Sample wt/vol: 300 (g/mL) ML Lab File ID: B311

Level: (low/med) NA Date Received: 2-28-94

% Moisture: not dec. NA Date Analyzed: 3-21-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	125	U

2A  
 WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0115

Lab Name: ASC Contract: NEESP  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VPLK01	95.5	97.1	93.7		0
02	VSPK01	93.6	103	97.7		0
03	CLL-DB-CIMS	96.5	102	109		0
04	CLL-DB-CIMS	97.3	104	97.6		0
05	CLL-DB-CI	96.4	101	101		0
06	CLL-DB-CI	95.3	99.3	99.8		0
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QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)  
 SMC2 (BFB) = Bromofluorobenzene (86-115)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out



VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0116

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: CLY-DB-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	93.6	93.6	61-145
Trichloroethene	100	0	100	100	71-120
Benzene	100	0	99.0	99.0	76-127
Chlorobenzene	100	0	97.8	97.8	75-130
1,2-Dichloroethane	100	0	108	108	30-130
1,4-dichlorobenzene	100	0	94.9	94.9	30-130
Carbon Tetrachloride	100	0	105	105	30-130
Chloroform	100	0	106	106	30-130
2-Butanone	200	0	167	83.5	30-130
Tetrachloroethene	100	0	94.4	94.4	30-130
Vinyl Chloride	100	0	86.5	86.5	30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	100	92.3	92.3	.358	14 61-145
Trichloroethene	100	99.5	99.5	.501	14 71-120
Benzene	100	101	101	2.00	11 76-127
Chlorobenzene	100	97.5	97.5	.307	13 75-130
1,2-Dichloroethane	100	106	106	1.87	20 30-130
1,4-dichlorobenzene	100	94.1	94.1	4.33	20 30-130
Carbon Tetrachloride	100	104	104	.952	20 30-130
Chloroform	100	103	103	2.88	20 30-130
2-Butanone	200	159	79.5	4.23	20 30-130
Tetrachloroethene	100	95.1	95.1	.739	20 30-130
Vinyl Chloride	100	83.3	83.3	3.77	20 30-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 11 outside limits  
 Spike Recovery: 0 out of 22 outside limits

COMMENTS: \_\_\_\_\_

## VOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Blank Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	93.4	93.4	61-145
Trichloroethene	100	0	97.4	97.4	71-120
Benzene	100	0	96.9	96.9	76-127
Chlorobenzene	100	0	98.1	98.1	75-130
1,2-Dichloroethane	100	0	108	108	30-130
1,4-dichlorobenzene	100	0	93.0	93.0	30-130
Carbon Tetrachloride	100	0	99.2	99.2	30-130
Chloroform	100	0	105	105	30-130
2-Butanone	200	0	175	87.7	30-130
Tetrachloroethene	100	0	93.4	93.4	30-130
Vinyl Chloride	100	0	89.3	89.3	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: \_\_\_\_\_

4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA VBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B3106 Lab Sample ID: NV3388V  
 Date Analyzed: 3-21-94 Time Analyzed: 15:21  
 GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N  
 Instrument ID: MSD-B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ-DB-CIMS	JM 3967VS	B3109	17:27
02	CLJ-DB-CIMSD	JM 3967VR	B3110	18:05
03	CLJ-DB-CI	JM 3967V	B3108	16:48
04	CLJ-DF-CI	JM 3968V	B3111	18:44
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COMMENTS:

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5A  
**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**  
**BROMOFLUOROBENZENE (BFB)**

Lab Name: ASC Contract: NFESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B3104 BFB Injection Date: 3-21-94  
 Instrument ID: MSD-B BFB Injection Time: 13:05  
 GC Column: DB-624 ID: 53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.50
75	30.0 - 66.0% of mass 95	40.45
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.78
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	74.13
175	4.0 - 9.0 % of mass 174	6.01 (8.10) 1
176	93.0 - 101.0% of mass 174	74.22 (100.12) 1
177	5.0 - 9.0% of mass 176	4.76 (6.42) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLK01	NV3388V	B3106	3-21-94	15:21
02	VSPK01	NV3388VS	B3107	3-21-94	16:09
03	CLL-DB-01MS	JM3967VS	B3109	3-21-94	17:27
04	CLL-DB-01MSD	JM3967VR	B3110	3-21-94	18:05
05	CLL-DB-01	JM3967V	B3108	3-21-94	16:48
06	CLL-DB-01	JM3968V	B3111	3-21-94	18:44
07	VSTDSC	CLL STD	B3105	3-21-94	9:09
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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-B Calibration Date(s): 02-21-94 02-21-94  
 Heated Purge: (Y/N) N Calibration Times: 1013 1242  
 GC column: DB624 ID: 0.53 (mm)

LAB FILE ID: \_\_\_\_\_ RRF10 = B2817 RRF20 = B2818  
 RRF50 = B2819 RRF100 = B2820 RRF200 = B2821

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	RSD
Chloromethane	0.456	0.457	0.469	0.499	0.515	0.479	5.56
Bromomethane	1.22	1.06	0.868	0.714	0.631	0.899	27.0
Vinyl Chloride	1.42	1.40	1.34	1.39	1.43	1.39	2.66
Chloroethane	0.771	0.850	0.715	0.587	0.436	0.693	26.6
Methylene Chloride	1.44	1.44	1.38	1.33	1.29	1.37	4.68
Acetone	0.651	0.463	0.516	0.383	0.260	0.455	32.1
Carbon Disulfide	4.18	4.28	4.10	4.12	4.02	4.14	2.32
1,1-Dichloroethene		1.52	1.34	1.30	1.12	1.33	10.7
1,1-Dichloroethane (trans)	2.74	2.86	2.76	2.81	2.76	2.79	1.80
1,2-Dichloroethane (total)	1.43	1.44	1.37	1.35	1.28	1.37	4.65
Chloroform	2.79	2.94	2.86	2.87	2.77	2.85	2.46
1,2-Dichloroethane	2.11	2.15	2.06	2.04	1.94	2.06	3.89
2-Butanone	0.021	0.023	0.022	0.032	0.029	0.025	19.7
1,1,1-Trichloroethane	0.485	0.500	0.478	0.471	0.438	0.475	4.89
Carbon Tetrachloride	0.471	0.499	0.472	0.476	0.427	0.469	5.65
Bromodichloromethane	0.633	0.650	0.615	0.664	0.607	0.646	3.95
1,2-Dichloropropane	0.423	0.453	0.441	0.441	0.413	0.435	3.76
cis-1,3-Dichloropropene	0.632	0.648	0.651	0.650	0.618	0.620	2.27
Trichloroethene	0.457	0.467	0.465	0.444	0.398	0.441	6.31
Dibromochloromethane	0.635	0.610	0.615	0.614	0.612	0.611	3.95
1,1,2-Trichloroethane	0.371	0.36	0.359	0.353	0.318	0.342	5.11
Benzene	0.964	1.01	0.974	0.943	0.951	0.955	4.58
trans-1,3-Dichloropropene	0.427	0.456	0.433	0.441	0.437	0.456	3.25
Bromoform	0.451	0.518	0.517	0.512	0.463	0.496	3.01
4-Methyl-2-Pentanone	0.138	0.136	0.131	0.146	0.132	0.136	4.47
2-Hexanone	0	0.304	0.242	0.356	0.362	0.318	17.5
Tetrachloroethene	0.567	0.578	0.561	0.552	0.498	0.551	5.67
1,1,2,2-Tetrachloroethane	0.498	0.537	0.535	0.516	0.479	0.513	4.86
Toluene	0.795	0.814	0.824	0.803	0.759	0.800	3.24
Chlorobenzene	1.07	1.11	1.10	1.09	1.01	1.08	3.85
Ethylbenzene	0.480	0.503	0.484	0.473	0.426	0.477	6.15
Styrene	0.979	1.01	0.943	0.936	0.823	0.943	7.02
Xylene (total) M+P	1.25	1.27	1.22	1.14	1.01	1.18	9.23
Toluene-d8	1.23	1.28	1.26	1.27	1.22	1.25	1.92
Bromofluorobenzene	0.754	0.995	0.983	0.971	0.917	0.965	2.15
1,2-Dichloroethane-d4	1.73	1.87	1.81	1.83	1.79	1.81	2.27
1,2-cis-Dichloroethane	1.61	1.69	1.59	1.59	1.52	1.60	3.48
* Compounds with required minimum RRF and maximum RSD values.							
All other compounds must meet a minimum RRF of 0.010.							
o-Xylene	0.582	0.626	0.595	0.570	0.488	0.572	8.97

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-B Calibration Date: 3-21-94 ~~02-21-94~~ Time: 8:13.43  
 Lab File ID: B3105 Init. Calib. Date(s): 02-21-94 02-21-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 1013 1242  
 GC Column: DB 624 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.47921	.33758		29.55	
Bromomethane	.89857	.72714	0.100	19.08	25.0
Vinyl Chloride	1.39502	1.13567	0.100	18.59	25.0
Chloroethane	.69201	.67467		2.65	
Methylene chloride	1.27474	1.25751		8.53	
Acetone	.45489	.41495		8.78	
Carbon Disulfide	4.14133	3.65750		11.68	
1,1-Dichloroethene	1.33310	1.26982	0.100	4.75	25.0
1,1-Dichloroethane	2.73654	2.43336	0.200	12.71	25.0
1,2-Dichloroethene (total)	1.60206	1.45990		8.93	
Chloroform	2.74881	2.74402	0.200	3.54	25.0
1,2-Dichloroethane	2.06100	1.82483	0.100	11.46	25.0
2-Butanone	.02530	.03832		51.43	
1,1,1-Trichloroethane	.47466	.46145	0.100	2.78	25.0
Carbon Tetrachloride	.48911	.45354	0.100	3.32	25.0
Bromodichloromethane	1.04586	.57763	0.200	10.56	25.0
1,2-Dichloropropane	.43471	.37189		14.45	
cis-1,3-Dichloropropene	.63993	.57220	0.200	10.58	25.0
Trichloroethene	.44619	.41854	0.300	6.20	25.0
Dibromochloromethane	.52672	.52596	0.100	7.19	25.0
1,1,2-Trichloroethane	.34841	.34082	0.100	2.18	25.0
Benzene	.95455	.88763	0.500	7.01	25.0
trans-1,3-Dichloropropene	.45242	.42374	0.100	7.16	25.0
Bromoform	.49823	.49266	0.100	1.12	25.0
4-Methyl-2-Pentanone	.13647	.14973		9.72	
2-Hexanone	.31769	.37182		17.04	
Tetrachloroethene	.55113	.54443	0.200	1.22	25.0
1,1,2,2-Tetrachloroethane	.69739	.73248	0.500	5.03	25.0
Toluene	.80024	.78760	0.400	1.58	25.0
Chlorobenzene	1.07590	.94104	0.500	12.54	25.0
Ethylbenzene	.47340	.46314	0.100	2.17	25.0
Styrene	.94833	.92340	0.300	2.63	25.0
Xylene (total) m+p	1.17721	1.12519	0.300	4.42	25.0
Toluene-d8	1.25074	1.25318		.04	
Bromofluorobenzene	.91652	.92378	0.200	4.36	25.0
1,2-Dichloroethane-d4	1.81444	1.68676		7.04	

All other compounds must meet a minimum RRF of 0.010.

1,2-Trans-dichloroethylene 1.3765 1.20736 8.12  
 FORM VII VOA  
 o-xylene .57240 .54176 5.35

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
Lab File ID (Standard): B3105 Date Analyzed: 3-21-94  
Instrument ID: MSD-B Time Analyzed: 13:43  
GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
12 HOUR STD	31973	9.67	132202	11.59	103067	17.59
UPPER LIMIT	63946	10.17	264404	12.09	206134	18.09
LOWER LIMIT	15987	9.17	66101	11.09	51534	17.09
EPA SAMPLE NO.						
01 VRLKCI	30919	9.86	131784	11.76	106728	17.72
02 VSPKDI	27414	9.52	133272	11.43	98805	17.41
03 CLI-DB-CIMS	26550	9.45	117214	11.37	96860	17.36
04 CLI-DB-CIMSD	25332	9.48	110410	11.38	90919	17.37
05 CLI-DB-OI	25694	9.46	112539	11.38	94271	17.37
06 CLI-DB-OI	27495	9.50	119620	11.40	102382	17.41
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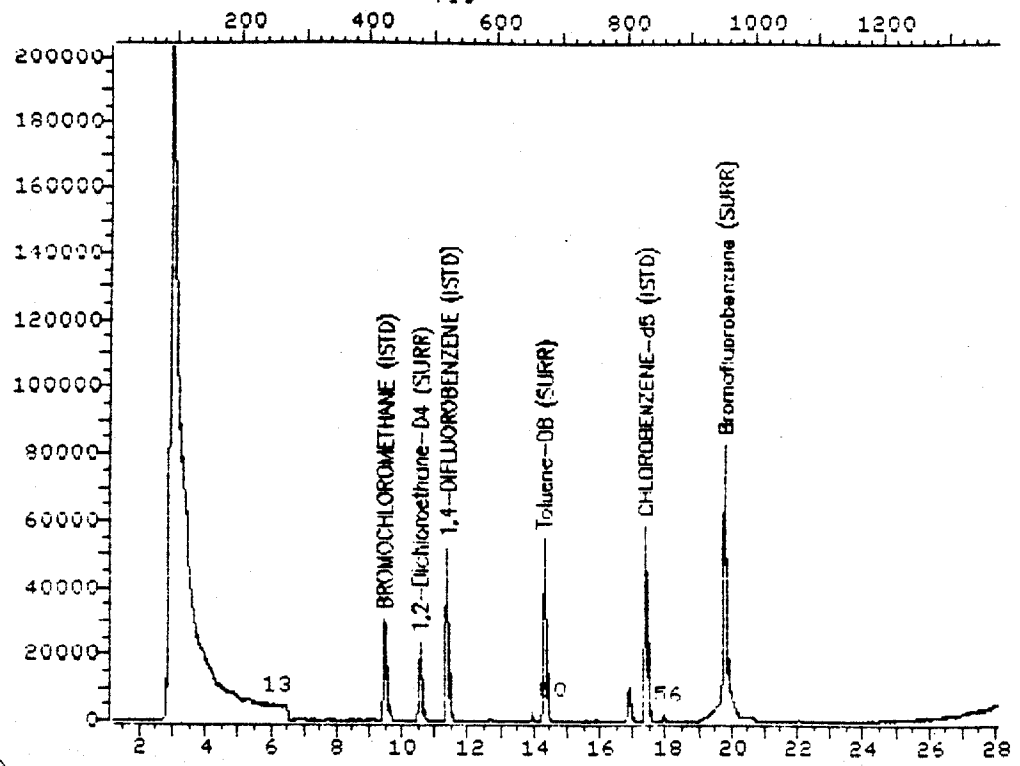
IS1 (BCM) = Bromochloromethane  
IS2 (DFB) = 1,4-Difluorobenzene  
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area  
AREA LOWER LIMIT = - 50% of internal standard area  
RT UPPER LIMIT = +0.50 minutes of internal standard RT  
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

## TOTAL ION CHROMATOGRAM

File >B3108 35.0-260.0 amu. 15226N CLJ-DB-01 ZHEJM3967V,N7V3388,L:MS  
TIC



Data File: &gt;B3108::D6

Quant Output File: ^B3108::QT

Name: 15226N CLJ-DB-01 ZHE

Misc: JM3967V,N7V3388,L:M2,0.200,5.00:1, 200ul/5ml

Id File: IB321A::D4

Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940321 15:00

Operator ID: STEVE

Quant Time: 940321 17:20

Injected at: 940321 16:48



## QUANT REPORT

Page 1

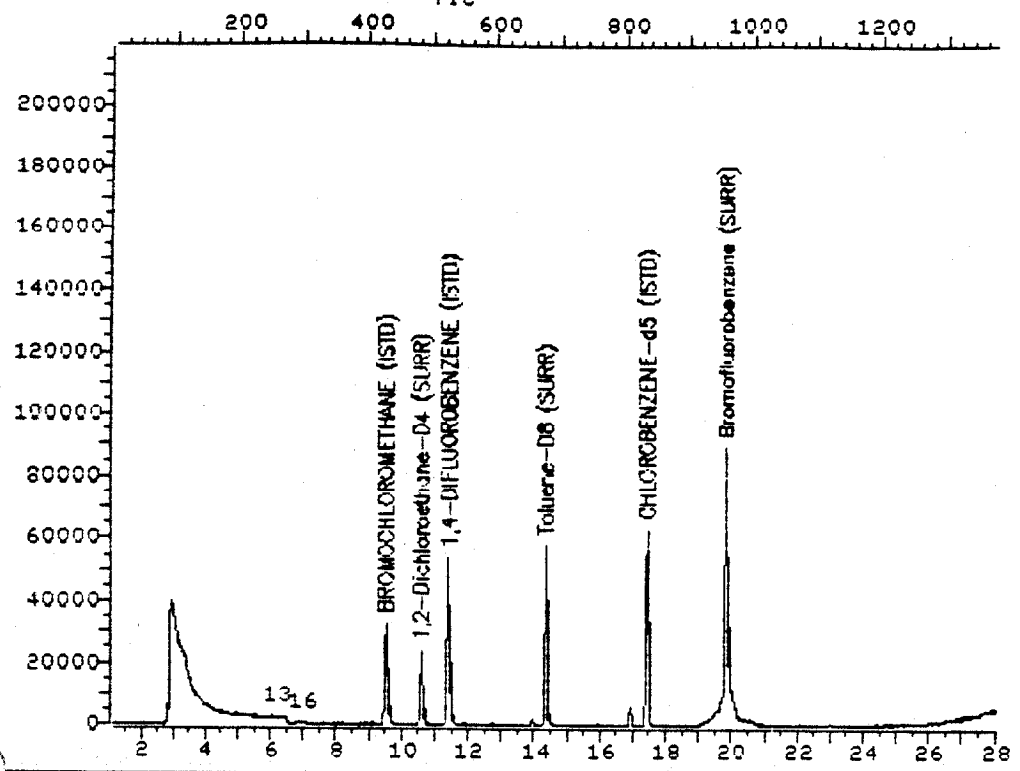
Operator ID: STEVE                      Quant Rev: 7            Quant Time: 940321 17:20  
 Output File: ^B3108::QT                      Injected at: 940321 16:48  
 Data File: >B3108::D6                      Dilution Factor: 1.00000  
 Name: 15226N CLJ-DB-01 ZHE  
 Misc: JM3967U,N7U3398,L:M2,0.200,5.00:1, 200ul/5ml

ID File: IB321A::D4  
 Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940321 15:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.46	128.0	25694	50.00	ug/l	87
13) Acetone	6.04	43.0	1742	8.38	ug/l	72
26) 1,2-Dichloroethane-D4 (SURR) ✓	10.54	65.0	43858	50.60	ug/l	90
29) *1,4-DIFLUOROBENZENE (ISTD)	11.38	114.0	112539	50.00	ug/l	91
48) *CHLOROBENZENE-d5 (ISTD)	17.37	117.0	94271	50.00	ug/l	91
49) Toluene-D8 (SURR) ✓	14.31	98.0	113941	48.22	ug/l	84
50) Toluene	14.44	92.0	2381	1.60	ug/l	97
56) Ethylbenzene	17.92	106.0	1806	2.07	ug/l	73
60) Bromofluorobenzene (SURR) ✓	19.80	95.0	87872	50.47	ug/l	93

\*Compound is ISTD

## TOTAL ION CHROMATOGRAM

File >B3111 35.0-260.0 amu. 15226N CLJ-OP-01 ZHEJM3966V,N7V3388,L:MG  
TIC

Data File: &gt;B3111::D6

Quant Output File: ^B3111::QT

Name: 15226N CLJ-OP-01 ZHE

Misc: JM3968U,N7U3388,L:M2,0.200,5.00:1, 200ul/5ml

Id File: IB321A::D4

Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940321 15:00

Operator ID: STEVE

Quant Time: 940321 19:16

Injected at: 940321 18:44

## QUANT REPORT

Page 1

Operator ID: STEVE  
 Output File: ^B3111::QT  
 Data File: >B3111::D6  
 Name: 15226N CLJ-DP-01 ZHE  
 Misc: JM3968U,N7V3388,L:M2,0.200,5.00:1, 200ul/5ml

Quant Rev: 7  
 Quant Time: 940321 19:16  
 Injected at: 940321 18:44  
 Dilution Factor: 1.00000

ID File: IB321A::D4  
 Title: MSD-8 DB624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940321 15:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.50	128.0	27495	50.00	ug/l	95
13) Acetone	6.95	43.0	4024	18.09	ug/l	84
16) Methylene chloride	6.87	84.0	2101	3.04	ug/l	82
26) 1,2-Dichloroethane-D4 (SURR) ✓	10.56	65.0	46292	49.91	ug/l	88
29) *1,4-DIFLUOROBENZENE (ISTD)	11.40	114.0	119620	50.00	ug/l	95
48) *CHLOROBENZENE-d5 (ISTD)	17.41	117.0	102382	50.00	ug/l	94
49) Toluene-D8 (SURR) ✓	14.33	98.0	122251	47.64	ug/l	82
60) Bromofluorobenzene (SURR) ✓	19.83	95.0	93910	49.67	ug/l	93

\* Compound is ISTD



Analytical Services Corp.

## ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis  
Bill Perry

**Project:** 15226N - NEESA; Camp LeJuene, Jacksonville, NC

**Sample(s):** C6593 through C6598, CLJ-DWS-145, CLJ-DWS-146 and CLJ-DWS-15

**Sample Type(s):** Organic

**Analysis Performed:** Conventionals


**Date Sample Received:** February 25 and March 6, 1994

**Date Order Received:** May 10, 1994

**Joblink(s):** 615798

*This report is **"PROPRIETARY AND CONFIDENTIAL"** and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.*

Reviewed and  
Approved by:

  
\_\_\_\_\_  
Thomas E. Gran, Ph.D., Vice President

Date: 5/1/94

## PROJECT NARRATIVE

---

The following items relate to the samples and analytical data contained in this report.

- o Note any and all comments at the bottom of the tables in Appendix C.
- o **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/sample will be imposed for unreturned samples.
- o OHM Sample Numbers CLJ-DWS-5, 6, 9, 10, 11, 12, 13, 14, 72, 76, 77 and 78 were analyzed by GC/MS to confirm a GC matrix interference on the PCB analysis. There were no PCB hits found by GC/MS analysis for any of the samples. These results are found in the revised report, Joblinks 615277 and 615278.
- o No QA/QC is available for the free Chlorine analysis.

**APPENDIX A**  
**DATA SUMMARY REPORT**

**NOTE:** The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

# DATA SUMMARY REPORT

DATE: 05/26/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	CLJ-DWS-15	CLJ-DWS145	CLJ-DWS146
ASC Sample Number:	JM7520	JM7519	JM7517
Sample Date:			
Facility Code:	015226N	015226N	015226N

Parameters

Units

## Conventional Data (CV10)

Chlorine, Free	mg/L	<5.00	<5.00	<5.00
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**APPENDIX B**

**QUANTITATIVE RESULTS**



### CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWS-15

JM7520

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlorine, Free	ND	5.00	-	

### CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWS145

JM7519

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlorine, Free	ND	5.00	-	

### CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWS146

JM7517

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlorine, Free	ND	5.00	-	

**APPENDIX C**

**QUALITY ASSURANCE DATA**

## SUMMARY OF ANALYTICAL METHODOLOGY

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Parameter	Reference	Method
<b>Conventionals</b>		
Free Chlorine	SMEWW	410C Modified

---

## METHODOLOGY REFERENCES

---

- ASTM**      *American Society for Testing and Materials*, 1985 edition.
- CAWW**      *Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
- CLP**        *USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
- EPA-500**    *USEPA Methods for the Determination of Organic Compounds in Drinking Water*, EPA-600/4-88/039 December 1988.
- EPA-600**    *USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
- NIOSH**      *National Institute for Occupational Safety and Health*, 3rd edition, 1984.
- SMEWW**     *Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
- STOA**       *Spot Tests In Organic Analysis*, 7th edition, 1966.
- SW-846**     *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
- (1)            This method was modified to incorporate the use of Boron Trifluoride (BF<sub>3</sub>) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
- Title 22**     *Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

## ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

**Validated by:**

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

**Approvals:**

- o Chemical Waste Management ..... Waste Characterization Analysis
- o EnviroSAFE ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

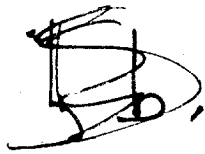
## REPORT KEY

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mg/kg	= milligram per kilogram (ppm)
Mg/m <sup>3</sup>	= milligram per cubic meter
ug/kg	= microgram per kilogram (ppb)
mg/L	= milligram per liter (ppm)
ug/L	= microgram per liter (ppb)
mg/W	= milligram per wipe
ug/W	= microgram per wipe
mg/SMP	= milligram per sample
ug/SMP	= microgram per sample
um/cm	= microMho per centimeter
pCi/l	= picocurie per liter
gm/cc	= grams per cubic centimeter
ppm	= parts per million
ppb	= parts per billion
ND	= Not detected at or above stated detection limit
<	= less than
>	= greater than
%	= percent
BTU/lb	= British Thermal Units per pound
Deg. C	= Degrees Celsius
n/a	= not applicable
Unk	= unknown
std	= result is relative to standard pH units
CV	= Conventionals
IR	= Infrared Spectrophotometric
GC	= Gas Chromatograph Instrument
GC/MS	= Gas Chromatography/Mass Spectrometer Instrument
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
PCB	= Polychlorinated Biphenyls (PCBs)
EP TOX	= Extraction Procedure Toxicity
TCLP	= Toxicity Characteristic Leaching Procedure
RCRA	= Resource Conservation and Recovery Act



**APPENDIX D**  
**CHAIN-OF-CUSTODY RECORD(S)**



6b.

Camp Lejeune 15226

QA/QC SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>CQC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DQO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-DWW-02	3/1/94	12K POOL SAMPLE: BATCH #2	127973	ASC	JM4135	IV	615282	7526016864
CLJ-TBLK-7	3/1/94	TRIP BLANK	127973	ASC	JM4136	-	-	7526016864

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Conventional Data (CV10)

Cyanide, Total	mg/L	<.009
Oil and Grease	mg/L	111
Solids, total suspended	mg/L	38.0
Total Dissolved Solids (TDS)	mg/L	148
pH (Electrode)	std	7.18

## Total Pesticide and PCB Analysis, GC, (GS05)

Aldrin	mg/L	<.0001
Alpha-BHC	mg/L	<.0001
Beta-BHC	mg/L	<.0001
Chlordane	mg/L	<.0005
4,4'-DDD	mg/L	.0008
4,4'-DDE	mg/L	.0003
4,4'-DDT	mg/L	.002
Delta-BHC	mg/L	<.0001
Dieldrin	mg/L	<.0001
Endosulfan sulfate	mg/L	<.0001
Endosulfan I	mg/L	<.0001
Endosulfan II	mg/L	<.0001
Endrin	mg/L	<.0001
Endrin aldehyde	mg/L	<.0001
Endrin ketone	mg/L	<.0001
Gamma-BHC	mg/L	<.0001
Heptachlor	mg/L	<.0001
Heptachlor epoxide	mg/L	<.0001
Methoxychlor	mg/L	<.0001
Toxaphene	mg/L	<.002
Aroclor 1016	mg/L	<.001
Aroclor 1221	mg/L	<.001
Aroclor 1232	mg/L	<.001
Aroclor 1242	mg/L	<.001
Aroclor 1248	mg/L	<.001
Aroclor 1254	mg/L	<.001
Aroclor 1260	mg/L	<.001

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters Units

## RCRA Total Metals Analysis, (ME50)

Arsenic	mg/L	<.100
Barium	mg/L	.058
Cadmium	mg/L	<.005
Chromium	mg/L	<.010
Lead	mg/L	.397
Mercury	mg/L	<.001
Selenium	mg/L	<.100
Silver	mg/L	<.010

## Total Base/Neutral/Acid Analysis, MS, (MS02)

Acenaphthene	mg/L	<.010
Acenaphthylene	mg/L	<.010
Anthracene	mg/L	<.010
Benzidine	mg/L	<.010
Benzo (a) anthracene	mg/L	<.010
Benzo (b) fluoranthene	mg/L	<.010
Benzo (k) fluoranthene	mg/L	<.010
Benzo (ghi) perylene	mg/L	<.010
Benzo (a) pyrene	mg/L	<.010
bis (2-Chloroethyl) ether	mg/L	<.010
bis (2-Chloroethoxy) methane	mg/L	<.010
bis (2-Chloroisopropyl) ether	mg/L	<.010
bis (2-Ethylhexyl) phthalate	mg/L	.063
4-Bromophenyl phenyl ether	mg/L	<.010
Butyl benzyl phthalate	mg/L	<.010
Carbazole	mg/L	<.010
4-Chloroaniline	mg/L	<.010
p-Chloro-m-cresol	mg/L	<.010
2-Chloronaphthalene	mg/L	<.010
2-Chlorophenol	mg/L	<.010
4-Chlorophenyl phenyl ether	mg/L	<.010
Chrysene	mg/L	<.010
Dibenzo (a, h) anthracene	mg/L	<.010
Dibenzofuran	mg/L	<.010
Di-n-butyl phthalate	mg/L	.018

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Base/Neutral/Acid Analysis, MS, (MS02)

1,2-Dichlorobenzene	mg/L	<.010
1,3-Dichlorobenzene	mg/L	<.010
1,4-Dichlorobenzene	mg/L	<.010
3,3'-Dichlorobenzidine	mg/L	<.010
2,4-Dichlorophenol	mg/L	<.010
Diethyl phthalate	mg/L	<.010
Dimethyl phthalate	mg/L	<.010
2,4-Dimethylphenol	mg/L	<.010
4,6-Dinitro-o-cresol	mg/L	<.025
2,4-Dinitrophenol	mg/L	<.050
2,4-Dinitrotoluene	mg/L	<.010
2,6-Dinitrotoluene	mg/L	<.010
Di-n-octyl phthalate	mg/L	<.010
Fluoranthene	mg/L	<.010
Fluorene	mg/L	<.010
Hexachlorobenzene	mg/L	<.010
Hexachlorobutadiene	mg/L	<.010
Hexachlorocyclopentadiene	mg/L	<.010
Hexachloroethane	mg/L	<.010
Isophorone	mg/L	<.010
2-Methylnaphthalene	mg/L	<.010
2-Methylphenol	mg/L	<.010
4-Methylphenol	mg/L	<.010
N-Nitrosodimethylamine	mg/L	<.010
N-Nitrosodi-n-propylamine	mg/L	<.010
N-Nitrosodiphenylamine	mg/L	<.010
Naphthalene	mg/L	<.010
2-Nitroaniline	mg/L	<.010
3-Nitroaniline	mg/L	<.010
4-Nitroaniline	mg/L	<.010
Nitrobenzene	mg/L	<.010
2-Nitrophenol	mg/L	<.010
4-Nitrophenol	mg/L	<.050
Pentachlorophenol	mg/L	<.010
Phenanthrene	mg/L	<.010

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters Units

## Total Base/Neutral/Acid Analysis, MS, (MS02)

Phenol	mg/L	<.010
Pyrene	mg/L	<.010
Pyridine	mg/L	<.010
1,2,4-Trichlorobenzene	mg/L	<.010
2,4,5-Trichlorophenol	mg/L	<.010
2,4,6-Trichlorophenol	mg/L	<.010
1,2,4,5-Tetrachlorobenzene	mg/L	<.010
2,3,4,6-Tetrachlorophenol	mg/L	<.010
2,6-Dichlorophenol	mg/L	<.010
2-Ethoxyethanol	mg/L	<.010
2-Nitropropane	mg/L	<.010
3-Chloropropionitrile	mg/L	<.010
4,4'-Methylenebis(2-chloroanil	mg/L	<.010
Benzoic acid	mg/L	<.025
Benzyl alcohol	mg/L	<.010
Cyclohexanone	mg/L	<.010
Hexachloropropene	mg/L	<.010
Indeno(1,2,3-c,d)pyrene	mg/L	<.010
Pentachlorobenzene	mg/L	<.010
Pentachloroethane	mg/L	<.010
Pentachloronitrobenzene	mg/L	<.010
Pronamide	mg/L	<.010
bis(2-Chloroethoxy) ethane	mg/L	<.010

## Total Volatile Analysis, MS, (MV00)

Acetone	mg/L	.025
Acrolein	mg/L	<.025
Acrylonitrile	mg/L	<.013
Benzene	mg/L	<.005
Bromoform	mg/L	<.005
Carbon disulfide	mg/L	<.005
Carbon tetrachloride	mg/L	<.005
Chlorobenzene	mg/L	<.005
Chlorodibromomethane	mg/L	<.005
Chloroethane	mg/L	<.005

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MV00)

Chloroform	mg/L	<.005
2-Chloroethylvinyl ether	mg/L	<.005
3-Chloropropene	mg/L	<.005
1,2-Dibromo-3-chloropropane	mg/L	<.005
Dichlorobromomethane	mg/L	<.005
Dichlorodifluoromethane	mg/L	<.005
1,1-Dichloroethane	mg/L	<.005
1,2-Dichloroethane	mg/L	<.005
1,1-Dichloroethylene	mg/L	<.005
1,2-Dichloropropane	mg/L	<.005
cis-1,3-Dichloropropylene	mg/L	<.005
trans-1,3-Dichloropropylene	mg/L	<.005
Dibromomethane	mg/L	<.005
Ethylbenzene	mg/L	<.005
Ethylene dibromide	mg/L	<.005
Ethyl acetate	mg/L	<.050
Ethyl ether	mg/L	<.005
2-Hexanone	mg/L	<.005
Iodomethane	mg/L	<.005
Methyl bromide	mg/L	<.005
Methyl chloride	mg/L	<.005
Methylene chloride	mg/L	<.005
Methyl ethyl ketone	mg/L	<.010
Methyl-iso-butyl ketone	mg/L	<.010
Styrene	mg/L	<.005
1,1,1,2-Tetrachloroethane	mg/L	<.005
1,1,2,2-Tetrachloroethane	mg/L	<.005
Tetrachloroethylene	mg/L	<.005
Tetrahydrofuran	mg/L	<.005
Toluene	mg/L	<.005
1,1,1-Trichloroethane	mg/L	<.005
1,1,2-Trichloroethane	mg/L	<.005
Trichloroethylene	mg/L	<.005
1,2-Trans-dichloroethylene	mg/L	<.005
Trichlorofluoromethane	mg/L	<.005



# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MV00)

1,2,3-Trichloropropane	mg/L	<.005
1,1,2-Trichlorotrifluoroethane	mg/L	<.010
Vinyl acetate	mg/L	<.025
Vinyl chloride	mg/L	<.005
Xylenes	mg/L	<.005



Analytical Services Corp.

## ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis

**Project:** 15226N - Camp LaJeune, Jacksonville, NC

**Sample(s):** CLJ-DWW-02

**Sample Type(s):** Liquid

**Analysis Performed:** Conventionals, Metals and Organics

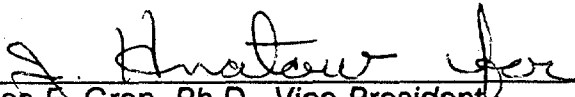
**Date Sample Received:** March 2, 1994

**Date Order Received:** March 2, 1994

**Joblink(s):** 615282

*This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.*

Reviewed and  
Approved by:

  
Thomas E. Gran, Ph.D., Vice President

Date: 3-14-94

## PROJECT NARRATIVE

---

The following items relate to the samples and analytical data contained in this report.

- o The identity of all pesticide compounds were confirmed by secondary column analysis.
- o Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/sample will be imposed for unreturned samples.

**APPENDIX A**  
**DATA SUMMARY REPORT**

**NOTE:** The GC/MS screen data, if applicable, is included in Appendix B.

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Conventional Data (CV10)

Cyanide, Total	mg/L	<.009
Oil and Grease	mg/L	111
Solids, total suspended	mg/L	38.0
Total Dissolved Solids (TDS)	mg/L	148
pH (Electrode)	std	7.18

## Total Pesticide and PCB Analysis, GC, (GS05)

Aldrin	mg/L	<.0001
Alpha-BHC	mg/L	<.0001
Beta-BHC	mg/L	<.0001
Chlordane	mg/L	<.0005
4,4'-DDD	mg/L	.0008
4,4'-DDE	mg/L	.0003
4,4'-DDT	mg/L	.002
Delta-BHC	mg/L	<.0001
Dieldrin	mg/L	<.0001
Endosulfan sulfate	mg/L	<.0001
Endosulfan I	mg/L	<.0001
Endosulfan II	mg/L	<.0001
Endrin	mg/L	<.0001
Endrin aldehyde	mg/L	<.0001
Endrin ketone	mg/L	<.0001
Gamma-BHC	mg/L	<.0001
Heptachlor	mg/L	<.0001
Heptachlor epoxide	mg/L	<.0001
Methoxychlor	mg/L	<.0001
Toxaphene	mg/L	<.002
Aroclor 1016	mg/L	<.001
Aroclor 1221	mg/L	<.001
Aroclor 1232	mg/L	<.001
Aroclor 1242	mg/L	<.001
Aroclor 1248	mg/L	<.001
Aroclor 1254	mg/L	<.001
Aroclor 1260	mg/L	<.001

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters Units

## RCRA Total Metals Analysis, (ME50)

Arsenic	mg/L	<.100
Barium	mg/L	.058
Cadmium	mg/L	<.005
Chromium	mg/L	<.010
Lead	mg/L	.397
Mercury	mg/L	<.001
Selenium	mg/L	<.100
Silver	mg/L	<.010

## Total Base/Neutral/Acid Analysis, MS, (MS02)

Acenaphthene	mg/L	<.010
Acenaphthylene	mg/L	<.010
Anthracene	mg/L	<.010
Benizidine	mg/L	<.010
Benzoic acid	mg/L	<.025
Benzyl alcohol	mg/L	<.010
Benzo(a)anthracene	mg/L	<.010
Benzo(b)fluoranthene	mg/L	<.010
Benzo(k)fluoranthene	mg/L	<.010
Benzo(ghi)perylene	mg/L	<.010
Benzo(a)pyrene	mg/L	<.010
bis(2-Chloroethoxy)ethane	mg/L	<.010
bis(2-Chloroethyl) ether	mg/L	<.010
bis(2-Chloroethoxy)methane	mg/L	<.010
bis(2-Chloroisopropyl)ether	mg/L	<.010
bis(2-Ethylhexyl)phthalate	mg/L	.063
4-Bromophenyl phenyl ether	mg/L	<.010
Butyl benzyl phthalate	mg/L	<.010
Carbazole	mg/L	<.010
4-Chloroaniline	mg/L	<.010
p-Chloro-m-cresol	mg/L	<.010
2-Chloronaphthalene	mg/L	<.010
2-Chlorophenol	mg/L	<.010
4-Chlorophenyl phenyl ether	mg/L	<.010
3-Chloropropionitrile	mg/L	<.010

# DATA SUMMARY REPORT

DATE: 03/03/94

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Company: OHM REMEDIATION SERVICES CORPORATION

**Sample Point ID:** CLJ-DWW-02  
**ASC Sample Number:** JM4135  
**Sample Date:** 940301  
**Facility Code:** 015226N

Parameters Units

**Total Base/Neutral/Acid Analysis, MS, (MS02)**

Chrysene	mg/L	<.010
Cyclohexanone	mg/L	<.010
Dibenzo(a,h)anthracene	mg/L	<.010
Dibenzofuran	mg/L	<.010
Di-n-butyl phthalate	mg/L	.018
1,2-Dichlorobenzene	mg/L	<.010
1,3-Dichlorobenzene	mg/L	<.010
1,4-Dichlorobenzene	mg/L	<.010
3,3'-Dichlorobenzidine	mg/L	<.010
2,4-Dichlorophenol	mg/L	<.010
2,6-Dichlorophenol	mg/L	<.010
Diethyl phthalate	mg/L	<.010
Dimethyl phthalate	mg/L	<.010
2,4-Dimethylphenol	mg/L	<.010
4,6-Dinitro-o-cresol	mg/L	<.025
2,4-Dinitrophenol	mg/L	<.050
2,4-Dinitrotoluene	mg/L	<.010
2,6-Dinitrotoluene	mg/L	<.010
Di-n-octyl phthalate	mg/L	<.010
2-Ethoxyethanol	mg/L	<.010
Fluoranthene	mg/L	<.010
Fluorene	mg/L	<.010
Hexachlorobenzene	mg/L	<.010
Hexachlorobutadiene	mg/L	<.010
Hexachlorocyclopentadiene	mg/L	<.010
Hexachloroethane	mg/L	<.010
Hexachloropropene	mg/L	<.010
Indeno(1,2,3-c,d)pyrene	mg/L	<.010
Isophorone	mg/L	<.010
4,4'-Methylenebis(2-chloroani-	mg/L	<.010
line)		
2-Methylnaphthalene	mg/L	<.010
2-Methylphenol	mg/L	<.010
4-Methylphenol	mg/L	<.010
2-Nitropropane	mg/L	<.010
N-Nitrosodimethylamine	mg/L	<.010

# DATA SUMMARY REPORT

DATE: 03/03/94

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters Units

## Total Base/Neutral/Acid Analysis, MS, (MS02)

N-Nitrosodi-n-propylamine	mg/L	<.010
N-Nitrosodiphenylamine	mg/L	<.010
Naphthalene	mg/L	<.010
2-Nitroaniline	mg/L	<.010
3-Nitroaniline	mg/L	<.010
4-Nitroaniline	mg/L	<.010
Nitrobenzene	mg/L	<.010
2-Nitrophenol	mg/L	<.010
4-Nitrophenol	mg/L	<.050
Pentachlorobenzene	mg/L	<.010
Pentachloronitrobenzene	mg/L	<.010
Pentachlorophenol	mg/L	<.010
Pentachloroethane	mg/L	<.010
Phenanthrene	mg/L	<.010
Phenol	mg/L	<.010
Pronamide	mg/L	<.010
Pyrene	mg/L	<.010
Pyridine	mg/L	<.010
1,2,4,5-Tetrachlorobenzene	mg/L	<.010
2,3,4,6-Tetrachlorophenol	mg/L	<.010
1,2,4-Trichlorobenzene	mg/L	<.010
2,4,5-Trichlorophenol	mg/L	<.010
2,4,6-Trichlorophenol	mg/L	<.010

## Total Volatile Analysis, MS, (MV00)

Acetone	mg/L	.025
Acrolein	mg/L	<.025
Acrylonitrile	mg/L	<.013
Benzene	mg/L	<.005
Bromoform	mg/L	<.005
Carbon disulfide	mg/L	<.005
Carbon tetrachloride	mg/L	<.005
Chlorobenzene	mg/L	<.005
Chlorodibromomethane	mg/L	<.005
Chloroethane	mg/L	<.005



# DATA SUMMARY REPORT

DATE: 03/03/94

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters Units

## Total Volatile Analysis, MS, (MV00)

Chloroform	mg/L	<.005
2-Chloroethylvinyl ether	mg/L	<.005
3-Chloropropene	mg/L	<.005
1,2-Dibromo-3-chloropropane	mg/L	<.005
Dichlorobromomethane	mg/L	<.005
Dichlorodifluoromethane	mg/L	<.005
1,1-Dichloroethane	mg/L	<.005
1,2-Dichloroethane	mg/L	<.005
1,1-Dichloroethylene	mg/L	<.005
1,2-Dichloropropane	mg/L	<.005
cis-1,3-Dichloropropylene	mg/L	<.005
trans-1,3-Dichloropropylene	mg/L	<.005
Dibromomethane	mg/L	<.005
Ethylbenzene	mg/L	<.005
Ethylene dibromide	mg/L	<.005
Ethyl acetate	mg/L	<.050
Ethyl ether	mg/L	<.005
2-Hexanone	mg/L	<.005
Iodomethane	mg/L	<.005
Methyl bromide	mg/L	<.005
Methyl chloride	mg/L	<.005
Methylene chloride	mg/L	<.005
Methyl ethyl ketone	mg/L	<.010
Methyl-iso-butyl ketone	mg/L	<.010
Styrene	mg/L	<.005
1,1,1,2-Tetrachloroethane	mg/L	<.005
1,1,2,2-Tetrachloroethane	mg/L	<.005
Tetrachloroethylene	mg/L	<.005
Tetrahydrofuran	mg/L	<.005
Toluene	mg/L	<.005
1,1,1-Trichloroethane	mg/L	<.005
1,1,2-Trichloroethane	mg/L	<.005
Trichloroethylene	mg/L	<.005
1,2-Trans-dichloroethylene	mg/L	<.005
Trichlorofluoromethane	mg/L	<.005

# DATA SUMMARY REPORT

DATE: 03/03/94

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MV00)

1,2,3-Trichloropropane	mg/L	<.005
1,1,2-Trichlorotrifluoroethane	mg/L	<.010
Vinyl acetate	mg/L	<.025
Vinyl chloride	mg/L	<.005
Xylenes	mg/L	<.005

**APPENDIX B**  
**QUANTITATIVE RESULTS**

### CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Cyanide, Total	mg/L	ND	.009	ND	Q1I3319
Oil and Grease	mg/L	111	5.00	ND	Q1I3317
Solids, total suspended	mg/L	38.0	10.0	-	
Total Dissolved Solids (TDS)	mg/L	148	10.0	-	
pH (Electrode)	std	7.18	-	-	

## RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic	ND	.100	ND	Q1M3881
Barium	.058	.020	ND	Q1M3881
Cadmium	ND	.005	ND	Q1M3881
Chromium	ND	.010	ND	Q1M3881
Lead	.397	.075	ND	Q1M3881
Mercury	ND	.001	ND	Q1G3882
Selenium	ND	.100	ND	Q1M3881
Silver	ND	.010	ND	Q1M3881

# TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aldrin	ND	.0001	ND	Q1P40098
Alpha-BHC	ND	.0001	ND	Q1P40098
Beta-BHC	ND	.0001	ND	Q1P40098
Chlordane	ND	.0005	ND	Q1P40098
4,4'-DDD	.0008	.0001	ND	Q1P40098
4,4'-DDE	.0003	.0001	ND	Q1P40098
4,4'-DDT	.002	.0001	ND	Q1P40098
Delta-BHC	ND	.0001	ND	Q1P40098
Dieldrin	ND	.0001	ND	Q1P40098
Endosulfan sulfate	ND	.0001	ND	Q1P40098
Endosulfan I	ND	.0001	ND	Q1P40098
Endosulfan II	ND	.0001	ND	Q1P40098
Endrin	ND	.0001	ND	Q1P40098
Endrin aldehyde	ND	.0001	ND	Q1P40098
Endrin ketone	ND	.0001	ND	Q1P40098
Gamma-BHC	ND	.0001	ND	Q1P40098
Heptachlor	ND	.0001	ND	Q1P40098
Heptachlor epoxide	ND	.0001	ND	Q1P40098
Methoxychlor	ND	.0001	ND	Q1P40098
Toxaphene	ND	.002	ND	Q1P40098
Aroclor 1016	ND	.001	ND	Q1P40098
Aroclor 1221	ND	.001	ND	Q1P40098
Aroclor 1232	ND	.001	ND	Q1P40098
Aroclor 1242	ND	.001	ND	Q1P40098
Aroclor 1248	ND	.001	ND	Q1P40098
Aroclor 1254	ND	.001	ND	Q1P40098
Aroclor 1260	ND	.001	ND	Q1P40098

**TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)**

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acenaphthene	ND	.010	ND	Q1C40198
Acenaphthylene	ND	.010	ND	Q1C40198
Anthracene	ND	.010	ND	Q1C40198
Benzidine	ND	.010	ND	Q1C40198
Benzoic acid	ND	.025	ND	Q1C40198
Benzo(a)anthracene	ND	.010	ND	Q1C40198
Benzo(b)fluoranthene	ND	.010	ND	Q1C40198
Benzo(k)fluoranthene	ND	.010	ND	Q1C40198
Benzo(ghi)perylene	ND	.010	ND	Q1C40198
Benzo(a)pyrene	ND	.010	ND	Q1C40198
bis(2-Chloroethoxy)ethane	ND	.010	ND	Q1C40198
bis(2-Chloroethyl) ether	ND	.010	ND	Q1C40198
bis(2-Chloroethoxy)methane	ND	.010	ND	Q1C40198
bis(2-Chloroisopropyl)ether	ND	.010	ND	Q1C40198
bis(2-Ethylhexyl)phthalate	.063	.010	ND	Q1C40198
4-Bromophenyl phenyl ether	ND	.010	ND	Q1C40198
Butyl benzyl phthalate	ND	.010	ND	Q1C40198
Carbazole	ND	.010	ND	Q1C40198
4-Chloroaniline	ND	.010	ND	Q1C40198
p-Chloro-m-cresol	ND	.010	ND	Q1C40198
2-Chloronaphthalene	ND	.010	ND	Q1C40198
2-Chlorophenol	ND	.010	ND	Q1C40198
4-Chlorophenyl phenyl ether	ND	.010	ND	Q1C40198
3-Chloropropionitrile	ND	.010	ND	Q1C40198
Chrysene	ND	.010	ND	Q1C40198
Cyclohexanone	ND	.010	ND	Q1C40198
Dibenzo(a,h)anthracene	ND	.010	ND	Q1C40198
Dibenzofuran	ND	.010	ND	Q1C40198
Di-n-butyl phthalate	.018	.010	ND	Q1C40198
1,2-Dichlorobenzene	ND	.010	ND	Q1C40198
1,3-Dichlorobenzene	ND	.010	ND	Q1C40198
1,4-Dichlorobenzene	ND	.010	ND	Q1C40198
3,3'-Dichlorobenzidine	ND	.010	ND	Q1C40198
2,4-Dichlorophenol	ND	.010	ND	Q1C40198
2,6-Dichlorophenol	ND	.010	ND	Q1C40198
Diethyl phthalate	ND	.010	ND	Q1C40198
Dimethyl phthalate	ND	.010	ND	Q1C40198
2,4-Dimethylphenol	ND	.010	ND	Q1C40198
4,6-Dinitro-o-cresol	ND	.025	ND	Q1C40198
2,4-Dinitrophenol	ND	.050	ND	Q1C40198
2,4-Dinitrotoluene	ND	.010	ND	Q1C40198
2,6-Dinitrotoluene	ND	.010	ND	Q1C40198
Di-n-octyl phthalate	ND	.010	ND	Q1C40198
2-Ethoxyethanol	ND	.010	ND	Q1C40198
Fluoranthene	ND	.010	ND	Q1C40198
Fluorene	ND	.010	ND	Q1C40198
Hexachlorobenzene	ND	.010	ND	Q1C40198
Hexachlorobutadiene	ND	.010	ND	Q1C40198
Hexachlorocyclopentadiene	ND	.010	ND	Q1C40198

**TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)**

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Hexachloroethane	ND	.010	ND	Q1C40198
Hexachloropropene	ND	.010	ND	Q1C40198
Indeno(1,2,3-c,d)pyrene	ND	.010	ND	Q1C40198
Isophorone	ND	.010	ND	Q1C40198
4,4'-Methylenebis(2-chloroani- line)	ND	.010	ND	Q1C40198
2-Methylnaphthalene	ND	.010	ND	Q1C40198
2-Methylphenol	ND	.010	ND	Q1C40198
4-Methylphenol	ND	.010	ND	Q1C40198
2-Nitropropane	ND	.010	ND	Q1C40198
N-Nitrosodimethylamine	ND	.010	ND	Q1C40198
N-Nitrosodi-n-propylamine	ND	.010	ND	Q1C40198
N-Nitrosodiphenylamine	ND	.010	ND	Q1C40198
Naphthalene	ND	.010	ND	Q1C40198
2-Nitroaniline	ND	.010	ND	Q1C40198
3-Nitroaniline	ND	.010	ND	Q1C40198
4-Nitroaniline	ND	.010	ND	Q1C40198
Nitrobenzene	ND	.010	ND	Q1C40198
2-Nitrophenol	ND	.010	ND	Q1C40198
4-Nitrophenol	ND	.050	ND	Q1C40198
Pentachlorobenzene	ND	.010	ND	Q1C40198
Pentachloronitrobenzene	ND	.010	ND	Q1C40198
Pentachlorophenol	ND	.010	ND	Q1C40198
Pentachloroethane	ND	.010	ND	Q1C40198
Phenanthrene	ND	.010	ND	Q1C40198
Phenol	ND	.010	ND	Q1C40198
Pronamide	ND	.010	ND	Q1C40198
Pyrene	ND	.010	ND	Q1C40198
Pyridine	ND	.010	ND	Q1C40198
1,2,4,5-Tetrachlorobenzene	ND	.010	ND	Q1C40198
2,3,4,6-Tetrachlorophenol	ND	.010	ND	Q1C40198
1,2,4-Trichlorobenzene	ND	.010	ND	Q1C40198
2,4,5-Trichlorophenol	ND	.010	ND	Q1C40198
2,4,6-Trichlorophenol	ND	.010	ND	Q1C40198

3-Methyl- and 4-Methylphenol coelute and are reported as the total



**TOTAL VOLATILE ANALYSIS, MS, (MV00)**

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.025	.005	ND	Q1V3330
Acrolein	ND	.025	ND	Q1V3330
Acrylonitrile	ND	.013	ND	Q1V3330
Benzene	ND	.005	ND	Q1V3330
Bromoform	ND	.005	ND	Q1V3330
Carbon disulfide	ND	.005	ND	Q1V3330
Carbon tetrachloride	ND	.005	ND	Q1V3330
Chlorobenzene	ND	.005	ND	Q1V3330
Chlorodibromomethane	ND	.005	ND	Q1V3330
Chloroethane	ND	.005	ND	Q1V3330
Chloroform	ND	.005	ND	Q1V3330
2-Chloroethylvinyl ether	ND	.005	ND	Q1V3330
3-Chloropropene	ND	.005	ND	Q1V3330
1,2-Dibromo-3-chloropropane	ND	.005	ND	Q1V3330
Dichlorobromomethane	ND	.005	ND	Q1V3330
Dichlorodifluoromethane	ND	.005	ND	Q1V3330
1,1-Dichloroethane	ND	.005	ND	Q1V3330
1,2-Dichloroethane	ND	.005	ND	Q1V3330
1,1-Dichloroethylene	ND	.005	ND	Q1V3330
1,2-Dichloropropane	ND	.005	ND	Q1V3330
cis-1,3-Dichloropropylene	ND	.005	ND	Q1V3330
trans-1,3-Dichloropropylene	ND	.005	ND	Q1V3330
Dibromomethane	ND	.005	ND	Q1V3330
Ethylbenzene	ND	.005	ND	Q1V3330
Ethylene dibromide	ND	.005	ND	Q1V3330
Ethyl acetate	ND	.050	ND	Q1V3330
Ethyl ether	ND	.005	ND	Q1V3330
2-Hexanone	ND	.005	ND	Q1V3330
Iodomethane	ND	.005	ND	Q1V3330
Methyl bromide	ND	.005	ND	Q1V3330
Methyl chloride	ND	.005	ND	Q1V3330
Methylene chloride	ND	.005	ND	Q1V3330
Methyl ethyl ketone	ND	.010	ND	Q1V3330
Methyl-iso-butyl ketone	ND	.010	ND	Q1V3330
Styrene	ND	.005	ND	Q1V3330
1,1,1,2-Tetrachloroethane	ND	.005	ND	Q1V3330
1,1,2,2-Tetrachloroethane	ND	.005	ND	Q1V3330
Tetrachloroethylene	ND	.005	ND	Q1V3330
Tetrahydrofuran	ND	.005	ND	Q1V3330
Toluene	ND	.005	ND	Q1V3330
1,1,1-Trichloroethane	ND	.005	ND	Q1V3330
1,1,2-Trichloroethane	ND	.005	ND	Q1V3330
Trichloroethylene	ND	.005	ND	Q1V3330
1,2-Trans-dichloroethylene	ND	.005	ND	Q1V3330
Trichlorofluoromethane	ND	.005	ND	Q1V3330
1,2,3-Trichloropropane	ND	.005	ND	Q1V3330
1,1,2-Trichlorotrifluoroethane	ND	.010	.026	Q1V3330
Vinyl acetate	ND	.025	ND	Q1V3330
Vinyl chloride	ND	.005	ND	Q1V3330
Xylenes	ND	.005	ND	Q1V3330

- Variable QC matrix spike recoveries were attributed to sample matrix interference.

**APPENDIX C**

**QUALITY ASSURANCE DATA**

## SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
<b>Conventionals</b>		
pH, Electrode	SW-846	9040
Solids, Total Suspended	CAWW	160.2
Solids, Total Dissolved	CAWW	160.1
Oil & Grease	CAWW	413.1
Cyanide, Total	CLP	335.2
<b>Metals</b>		
Total Metals	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
<b>Organics</b>		
Semi-volatile Compounds by GC/MS	SW-846	8270
Volatile Compounds by GC/MS	SW-846	8240
Pesticides and PCBs by GC	SW-846	8080

## METHODOLOGY REFERENCES

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- ASTM**      *American Society for Testing and Materials*, 1985 edition.
- CAWW**      *Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
- CLP**        *USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
- EPA-500**    *USEPA Methods for the Determination of Organic Compounds in Drinking Water*, EPA-600/4-88/039 December 1988.
- EPA-600**    *USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
- NIOSH**      *National Institute for Occupational Safety and Health*, 3rd edition, 1984.
- SMEWW**     *Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
- STOA**       *Spot Tests In Organic Analysis*, 7th edition, 1966.
- SW-846**     *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
- (1)            This method was modified to incorporate the use of Boron Trifluoride (BF<sub>3</sub>) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
- Title 22**     *Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

## ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

**Validated by:**

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

**Approvals:**

- o Chemical Waste Management ..... Waste Characterization Analysis
- o EnviroSAFE ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Energy and Environmental Support Activity ..... Chemical Analysis in Various Matrices

## REPORT KEY

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mg/kg	= milligram per kilogram (ppm)
Mg/m <sup>3</sup>	= milligram per cubic meter
ug/kg	= microgram per kilogram (ppb)
mg/L	= milligram per liter (ppm)
mg/W	= milligram per wipe
ug/L	= microgram per liter (ppb)
ug/W	= microgram per wipe
ug/SMP	= microgram per sample
um/cm	= microMho per centimeter
pCi/l	= picocurie per liter
ppm	= parts per million
ppb	= parts per billion
ND	= Not detected at or above stated detection limit
<	= less than
>	= greater than
%	= percent
BTU/lb	= British Thermal Units per pound
Deg. C	= Degrees Celsius
gm/cc	= grams per cubic centimeter
n/a	= not applicable
std	= result is relative to standard pH units
CV	= Conventional
IR	= Infrared Spectrophotometric
GC	= Gas Chromatograph Instrument
GC/MS	= Gas Chromatography/Mass Spectrometer Instrument
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
PCB	= Polychlorinated Biphenyls (PCBs)
EP TOX	= Extraction Procedure Toxicity
TCLP	= Toxicity Characteristic Leaching Procedure
RCRA	= Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

CONVENTIONAL DATA (CV10)

Compounds	Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Cyanide, Total Oil and Grease	mg/L mg/L	ND ND	108 94	96.5 -	82 -	3 -
						Q1I3319 Q1I3317

QUALITY ASSURANCE DATA

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic	ND	94	ND	87	4	Q1M3881
Barium	ND	98	.058	90	5	Q1M3881
Cadmium	ND	93	ND	86	3	Q1M3881
Chromium	ND	94	ND	87	3	Q1M3881
Lead	ND	90	.397	82	5	Q1M3881
Mercury	ND	100	ND	88	3	Q1G3882
Selenium	ND	91	ND	85	4	Q1M3881
Silver	ND	89	ND	96	11	Q1M3881



QUALITY ASSURANCE DATA

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	60	ND	73	6	Q1P40098
Alpha-BHC	ND	65	ND	69	9	Q1P40098
Beta-BHC	ND	83	ND	81	8	Q1P40098
Chlordane	ND	88	ND	89	4	Q1P40098
4,4'-DDD	ND	70	.0008	75	1	Q1P40098
4,4'-DDE	ND	75	.0003	83	2	Q1P40098
4,4'-DDT	ND	92	.002	94	1	Q1P40098
Delta-BHC	ND	75	ND	79	3	Q1P40098
Dieldrin	ND	76	ND	74	5	Q1P40098
Endosulfan sulfate	ND	58	ND	64	4	Q1P40098
Endosulfan I	ND	90	ND	91	5	Q1P40098
Endosulfan II	ND	80	ND	81	4	Q1P40098
Endrin	ND	74	ND	78	2	Q1P40098
Endrin aldehyde	ND	63	ND	59	18	Q1P40098
Endrin ketone	ND	65	ND	66	6	Q1P40098
Gamma-BHC	ND	67	ND	70	5	Q1P40098
Heptachlor	ND	71	ND	86	7	Q1P40098
Heptachlor epoxide	ND	78	ND	84	5	Q1P40098
Methoxychlor	ND	76	ND	74	5	Q1P40098

QUALITY ASSURANCE DATA

TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	94	ND	97	5	Q1C40198
Acenaphthylene	ND	99	ND	102	5	Q1C40198
Anthracene	ND	85	ND	88	15	Q1C40198
Benzoic acid	ND	26	ND	39	-	Q1C40198
Benzo(a)pyrene	ND	102	ND	112	30	Q1C40198
bis(2-Ethylhexyl)phthalate	ND	106	.063	125	13	Q1C40198
Butyl benzyl phthalate	ND	98	ND	105	10	Q1C40198
Carbazole	ND	86	ND	93	13	Q1C40198
4-Chloroaniline	ND	32	ND	22	5	Q1C40198
p-Chloro-m-cresol	ND	85	ND	90	9	Q1C40198
2-Chlorophenol	ND	86	ND	90	6	Q1C40198
Chrysene	ND	102	ND	114	20	Q1C40198
Cyclohexanone	ND	21	ND	22	6	Q1C40198
Di-n-butyl phthalate	ND	99	.018	112	15	Q1C40198
1,2-Dichlorobenzene	ND	70	ND	77	1	Q1C40198
1,4-Dichlorobenzene	ND	65	ND	73	2	Q1C40198
3,3'-Dichlorobenzidine	ND	76	ND	35	1	Q1C40198
2,4-Dichlorophenol	ND	83	ND	82	10	Q1C40198
2,4-Dinitrophenol	ND	54	ND	45	-	Q1C40198
2,4-Dinitrotoluene	ND	104	ND	100	9	Q1C40198
Hexachloroethane	ND	53	ND	68	3	Q1C40198
Isophorone	ND	93	ND	93	4	Q1C40198
4,4'-Methylenebis(2-chloroani- line)	ND	71	ND	23	60	Q1C40198
2-Methylnaphthalene	ND	79	ND	90	8	Q1C40198
2-Methylphenol	ND	76	ND	82	2	Q1C40198
N-Nitrosodi-n-propylamine	ND	91	ND	94	4	Q1C40198
4-Nitroaniline	ND	104	ND	91	3	Q1C40198
4-Nitrophenol	ND	54	ND	7	-	Q1C40198
Pentachloronitrobenzene	ND	90	ND	101	12	Q1C40198
Pentachlorophenol	ND	132	ND	160	15	Q1C40198
Phenol	ND	50	ND	69	2	Q1C40198
Pyrene	ND	102	ND	120	12	Q1C40198
2,3,4,6-Tetrachlorophenol	ND	84	ND	88	11	Q1C40198
1,2,4-Trichlorobenzene	ND	70	ND	82	10	Q1C40198
2,4,5-Trichlorophenol	ND	99	ND	93	4	Q1C40198
2,4,6-Trichlorophenol	ND	92	ND	95	11	Q1C40198

3-Methyl- and 4-Methylphenol coelute and are reported as the total  
Matrix spike recoveries below the detection limits were observed for  
analytes designated with a dash for the RPD of replicate matrix  
spikes.

QUALITY ASSURANCE DATA

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acetone	ND	106	.025	81	20	Q1V3330
Acrolein	ND	88	ND	6	-	Q1V3330
Acrylonitrile	ND	96	ND	106	12	Q1V3330
Benzene	ND	99	ND	100	22	Q1V3330
Bromoform	ND	100	ND	101	14	Q1V3330
Carbon disulfide	ND	92	ND	97	6	Q1V3330
Carbon tetrachloride	ND	98	ND	100	8	Q1V3330
Chlorobenzene	ND	101	ND	97	47	Q1V3330
Chlorodibromomethane	ND	100	ND	97	16	Q1V3330
Chloroethane	ND	88	ND	94	4	Q1V3330
Chloroform	ND	98	ND	97	8	Q1V3330
2-Chloroethylvinyl ether	ND	54	ND	103	19	Q1V3330
3-Chloropropene	ND	92	ND	98	7	Q1V3330
1,2-Dibromo-3-chloropropane	ND	105	ND	111	16	Q1V3330
Dichlorobromomethane	ND	98	ND	96	12	Q1V3330
Dichlorodifluoromethane	ND	93	ND	99	8	Q1V3330
1,1-Dichloroethane	ND	95	ND	98	9	Q1V3330
1,2-Dichloroethane	ND	97	ND	97	14	Q1V3330
1,1-Dichloroethylene	ND	95	ND	98	8	Q1V3330
1,2-Dichloropropane	ND	101	ND	99	13	Q1V3330
cis-1,3-Dichloropropylene	ND	92	ND	90	13	Q1V3330
trans-1,3-Dichloropropylene	ND	104	ND	101	16	Q1V3330
Dibromomethane	ND	97	ND	96	16	Q1V3330
Ethylbenzene	ND	101	ND	101	10	Q1V3330
Ethylene dibromide	ND	103	ND	104	13	Q1V3330
Ethyl acetate	ND	99	ND	62	14	Q1V3330
Ethyl ether	ND	93	ND	92	14	Q1V3330
2-Hexanone	ND	95	ND	113	14	Q1V3330
Iodomethane	ND	94	ND	95	8	Q1V3330
Methyl bromide	ND	90	ND	100	1	Q1V3330
Methyl chloride	ND	92	ND	99	1	Q1V3330
Methylene chloride	ND	91	ND	92	9	Q1V3330
Methyl ethyl ketone	ND	118	ND	101	30	Q1V3330
Methyl-iso-butyl ketone	ND	98	ND	108	14	Q1V3330
Styrene	ND	104	ND	99	12	Q1V3330
1,1,1,2-Tetrachloroethane	ND	101	ND	99	12	Q1V3330
1,1,2,2-Tetrachloroethane	ND	105	ND	104	18	Q1V3330
Tetrachloroethylene	ND	101	ND	98	11	Q1V3330
Tetrahydrofuran	ND	92	ND	100	16	Q1V3330
Toluene	ND	99	ND	98	13	Q1V3330
1,1,1-Trichloroethane	ND	94	ND	98	4	Q1V3330
1,1,2-Trichloroethane	ND	101	ND	100	15	Q1V3330
Trichloroethylene	ND	97	ND	100	8	Q1V3330
1,2-Trans-dichloroethylene	ND	93	ND	97	6	Q1V3330
Trichlorofluoromethane	ND	93	ND	97	5	Q1V3330
1,2,3-Trichloropropane	ND	103	ND	107	13	Q1V3330
1,1,2-Trichlorotrifluoroethane	.026	44	ND	98	10	Q1V3330
Vinyl acetate	ND	101	ND	11	-	Q1V3330
Vinyl chloride	ND	94	ND	95	5	Q1V3330
Xylenes	ND	101	ND	100	12	Q1V3330

**QUALITY ASSURANCE DATA  
SURROGATE SUMMARY REPORT**

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
<b>QC BATCH: Q1C40198 Aqueous (Semi-Volatile organics by MS)</b>							
<b>SAMPLE ID</b>							
BLANK	67	45	113	83	99	120	0
BLANK SPIKE	65	48	102	83	91	105	0
CLJ-DWW-02	51	36	88	69	92	101	0
CLJ-DWW-02 MD	77	63	88	89	90	107	0
CLJ-DWW-02 MS	76	67	92	88	97	121	0
<b>QC LIMITS</b>	(21-110) (10-110) (10-123) (35-114) (43-116) (33-141)						

SURROGATE ID	B816	A500	# OUT
<b>QC BATCH: Q1P40098 Aqueous (Pesticide compounds by GC)</b>			
<b>SAMPLE ID</b>			
BLANK	47	45	0
BLANK SPIKE	56	59	0
CLJ-DWW-02	79	27	0
CLJ-DWW-02 MD	83	43	0
CLJ-DWW-02 MS	76	44	0
<b>QC LIMITS</b>	(37-116) (14-147)		

SURROGATE ID	A047	B185	B668	# OUT
<b>QC BATCH: Q1V3330 Aqueous (Volatile organics by MS)</b>				
<b>SAMPLE ID</b>				
BLANK	93	94	99	0
BLANK SPIKE	99	98	99	0
CLJ-DWW-02	95	95	101	0
CLJ-DWW-02 MD	106	103	104	0
CLJ-DWW-02 MS	94	94	95	0
<b>QC LIMITS</b>	(76-114) (88-110) (86-115)			

**SURROGATE ID**

A047 = 1,2-Dichloroethane-D4                      A500 = Decachlorobiphenyl  
 B185 = Toluene-D8  
 B668 = Bromofluorobenzene  
 A159 = 2-Fluorophenol  
 B732 = Phenol-D6  
 A121 = 2,4,6-Tribromophenol  
 A884 = Nitrobenzene-D5  
 A158 = 2-Fluorobiphenyl  
 B142 = Terphenyl-D14  
 B816 = 2,4,5,6-Tetrachloro-m-xylene

\* Values outside of method quality control limits  
 D Surrogate diluted out

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).



Analytical Services Corp.

## ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis

**Project:** 15226N - Camp LaJeune, Jacksonville, NC

**Sample(s):** CLJ-DWW-02

**Sample Type(s):** Liquid

**Analysis Performed:** Conventionals, Metals and Organics

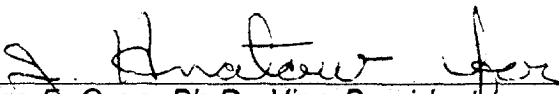
**Date Sample Received:** March 2, 1994

**Date Order Received:** March 2, 1994

**Joblink(s):** 615282

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Reviewed and  
Approved by:

  
Thomas E. Gran, Ph.D., Vice President

Date: 3-14-94

## PROJECT NARRATIVE

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The following items relate to the samples and analytical data contained in this report.

- o The identity of all pesticide compounds were confirmed by secondary column analysis.
- o Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/sample will be imposed for unreturned samples.

**APPENDIX A**  
**DATA SUMMARY REPORT**

**NOTE:** The GC/MS screen data, if applicable, is included in Appendix B.

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Conventional Data (CV10)

Cyanide, Total	mg/L	<.009
Oil and Grease	mg/L	111
Solids, total suspended	mg/L	38.0
Total Dissolved Solids (TDS)	mg/L	148
pH (Electrode)	std	7.18

## Total Pesticide and PCB Analysis, GC, (GS05)

Aldrin	mg/L	<.0001
Alpha-BHC	mg/L	<.0001
Beta-BHC	mg/L	<.0001
Chlordane	mg/L	<.0005
4,4'-DDD	mg/L	.0008
4,4'-DDE	mg/L	.0003
4,4'-DDT	mg/L	.002
Delta-BHC	mg/L	<.0001
Dieldrin	mg/L	<.0001
Endosulfan sulfate	mg/L	<.0001
Endosulfan I	mg/L	<.0001
Endosulfan II	mg/L	<.0001
Endrin	mg/L	<.0001
Endrin aldehyde	mg/L	<.0001
Endrin ketone	mg/L	<.0001
Gamma-BHC	mg/L	<.0001
Heptachlor	mg/L	<.0001
Heptachlor epoxide	mg/L	<.0001
Methoxychlor	mg/L	<.0001
Toxaphene	mg/L	<.002
Aroclor 1016	mg/L	<.001
Aroclor 1221	mg/L	<.001
Aroclor 1232	mg/L	<.001
Aroclor 1242	mg/L	<.001
Aroclor 1248	mg/L	<.001
Aroclor 1254	mg/L	<.001
Aroclor 1260	mg/L	<.001



# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## RCRA Total Metals Analysis, (ME50)

Arsenic	mg/L	<.100
Barium	mg/L	.058
Cadmium	mg/L	<.005
Chromium	mg/L	<.010
Lead	mg/L	.397
Mercury	mg/L	<.001
Selenium	mg/L	<.100
Silver	mg/L	<.010

## Total Base/Neutral/Acid Analysis, MS, (MS02)

Acenaphthene	mg/L	<.010
Acenaphthylene	mg/L	<.010
Anthracene	mg/L	<.010
Benzidine	mg/L	<.010
Benzoic acid	mg/L	<.025
Benzyl alcohol	mg/L	<.010
Benzo(a)anthracene	mg/L	<.010
Benzo(b)fluoranthene	mg/L	<.010
Benzo(k)fluoranthene	mg/L	<.010
Benzo(ghi)perylene	mg/L	<.010
Benzo(a)pyrene	mg/L	<.010
bis(2-Chloroethoxy)ethane	mg/L	<.010
bis(2-Chloroethyl) ether	mg/L	<.010
bis(2-Chloroethoxy)methane	mg/L	<.010
bis(2-Chloroisopropyl)ether	mg/L	<.010
bis(2-Ethylhexyl)phthalate	mg/L	.063
4-Bromophenyl phenyl ether	mg/L	<.010
Butyl benzyl phthalate	mg/L	<.010
Carbazole	mg/L	<.010
4-Chloroaniline	mg/L	<.010
p-Chloro-m-cresol	mg/L	<.010
2-Chloronaphthalene	mg/L	<.010
2-Chlorophenol	mg/L	<.010
4-Chlorophenyl phenyl ether	mg/L	<.010
3-Chloropropionitrile	mg/L	<.010

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Base/Neutral/Acid Analysis, MS, (MS02)

Chrysene	mg/L	<.010
Cyclohexanone	mg/L	<.010
Dibenzo(a,h)anthracene	mg/L	<.010
Dibenzofuran	mg/L	<.010
Di-n-butyl phthalate	mg/L	.018
1,2-Dichlorobenzene	mg/L	<.010
1,3-Dichlorobenzene	mg/L	<.010
1,4-Dichlorobenzene	mg/L	<.010
3,3'-Dichlorobenzidine	mg/L	<.010
2,4-Dichlorophenol	mg/L	<.010
2,6-Dichlorophenol	mg/L	<.010
Diethyl phthalate	mg/L	<.010
Dimethyl phthalate	mg/L	<.010
2,4-Dimethylphenol	mg/L	<.010
4,6-Dinitro-o-cresol	mg/L	<.025
2,4-Dinitrophenol	mg/L	<.050
2,4-Dinitrotoluene	mg/L	<.010
2,6-Dinitrotoluene	mg/L	<.010
Di-n-octyl phthalate	mg/L	<.010
2-Ethoxyethanol	mg/L	<.010
Fluoranthene	mg/L	<.010
Fluorene	mg/L	<.010
Hexachlorobenzene	mg/L	<.010
Hexachlorobutadiene	mg/L	<.010
Hexachlorocyclopentadiene	mg/L	<.010
Hexachloroethane	mg/L	<.010
Hexachloropropene	mg/L	<.010
Indeno(1,2,3-c,d)pyrene	mg/L	<.010
Isophorone	mg/L	<.010
4,4'-Methylenebis(2-chloroani-	mg/L	<.010
line)		
2-Methylnaphthalene	mg/L	<.010
2-Methylphenol	mg/L	<.010
4-Methylphenol	mg/L	<.010
2-Nitropropane	mg/L	<.010
N-Nitrosodimethylamine	mg/L	<.010

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Base/Neutral/Acid Analysis, MS, (MS02)

N-Nitrosodi-n-propylamine	mg/L	<.010
N-Nitrosodiphenylamine	mg/L	<.010
Naphthalene	mg/L	<.010
2-Nitroaniline	mg/L	<.010
3-Nitroaniline	mg/L	<.010
4-Nitroaniline	mg/L	<.010
Nitrobenzene	mg/L	<.010
2-Nitrophenol	mg/L	<.010
4-Nitrophenol	mg/L	<.050
Pentachlorobenzene	mg/L	<.010
Pentachloronitrobenzene	mg/L	<.010
Pentachlorophenol	mg/L	<.010
Pentachloroethane	mg/L	<.010
Phenanthrene	mg/L	<.010
Phenol	mg/L	<.010
Pronamide	mg/L	<.010
Pyrene	mg/L	<.010
Pyridine	mg/L	<.010
1,2,4,5-Tetrachlorobenzene	mg/L	<.010
2,3,4,6-Tetrachlorophenol	mg/L	<.010
1,2,4-Trichlorobenzene	mg/L	<.010
2,4,5-Trichlorophenol	mg/L	<.010
2,4,6-Trichlorophenol	mg/L	<.010

## Total Volatile Analysis, MS, (MV00)

Acetone	mg/L	.025
Acrolein	mg/L	<.025
Acrylonitrile	mg/L	<.013
Benzene	mg/L	<.005
Bromoform	mg/L	<.005
Carbon disulfide	mg/L	<.005
Carbon tetrachloride	mg/L	<.005
Chlorobenzene	mg/L	<.005
Chlorodibromomethane	mg/L	<.005
Chloroethane	mg/L	<.005

# DATA SUMMARY REPORT

DATE: 03/03/94

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

**Sample Point ID:** CLJ-DWW-02  
**ASC Sample Number:** JM4135  
**Sample Date:** 940301  
**Facility Code:** 015226N

Parameters                      Units

**Total Volatile Analysis, MS, (MVOO)**

Chloroform	mg/L	<.005
2-Chloroethylvinyl ether	mg/L	<.005
3-Chloropropene	mg/L	<.005
1,2-Dibromo-3-chloropropane	mg/L	<.005
Dichlorobromomethane	mg/L	<.005
Dichlorodifluoromethane	mg/L	<.005
1,1-Dichloroethane	mg/L	<.005
1,2-Dichloroethane	mg/L	<.005
1,1-Dichloroethylene	mg/L	<.005
1,2-Dichloropropane	mg/L	<.005
cis-1,3-Dichloropropylene	mg/L	<.005
trans-1,3-Dichloropropylene	mg/L	<.005
Dibromomethane	mg/L	<.005
Ethylbenzene	mg/L	<.005
Ethylene dibromide	mg/L	<.005
Ethyl acetate	mg/L	<.050
Ethyl ether	mg/L	<.005
2-Hexanone	mg/L	<.005
Iodomethane	mg/L	<.005
Methyl bromide	mg/L	<.005
Methyl chloride	mg/L	<.005
Methylene chloride	mg/L	<.005
Methyl ethyl ketone	mg/L	<.010
Methyl-iso-butyl ketone	mg/L	<.010
Styrene	mg/L	<.005
1,1,1,2-Tetrachloroethane	mg/L	<.005
1,1,2,2-Tetrachloroethane	mg/L	<.005
Tetrachloroethylene	mg/L	<.005
Tetrahydrofuran	mg/L	<.005
Toluene	mg/L	<.005
1,1,1-Trichloroethane	mg/L	<.005
1,1,2-Trichloroethane	mg/L	<.005
Trichloroethylene	mg/L	<.005
1,2-Trans-dichloroethylene	mg/L	<.005
Trichlorofluoromethane	mg/L	<.005

# DATA SUMMARY REPORT

DATE: 03/03/94

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-02  
ASC Sample Number: JM4135  
Sample Date: 940301  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MV00)

1,2,3-Trichloropropane	mg/L	<.005
1,1,2-Trichlorotrifluoroethane	mg/L	<.010
Vinyl acetate	mg/L	<.025
Vinyl chloride	mg/L	<.005
Xylenes	mg/L	<.005

**APPENDIX B**  
**QUANTITATIVE RESULTS**

### CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number	
Cyanide, Total	mg/L	ND	.009	ND	Q1I3319
Oil and Grease	mg/L	111	5.00	ND	Q1I3317
Solids, total suspended	mg/L	38.0	10.0	-	
Total Dissolved Solids (TDS)	mg/L	148	10.0	-	
pH (Electrode)	std	7.18	-	-	

## RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic	ND	.100	ND	Q1M3881
Barium	.058	.020	ND	Q1M3881
Cadmium	ND	.005	ND	Q1M3881
Chromium	ND	.010	ND	Q1M3881
Lead	.397	.075	ND	Q1M3881
Mercury	ND	.001	ND	Q1G3882
Selenium	ND	.100	ND	Q1M3881
Silver	ND	.010	ND	Q1M3881



# TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aldrin	ND	.0001	ND	Q1P40098
Alpha-BHC	ND	.0001	ND	Q1P40098
Beta-BHC	ND	.0001	ND	Q1P40098
Chlordane	ND	.0005	ND	Q1P40098
4,4'-DDD	.0008	.0001	ND	Q1P40098
4,4'-DDE	.0003	.0001	ND	Q1P40098
4,4'-DDT	.002	.0001	ND	Q1P40098
Delta-BHC	ND	.0001	ND	Q1P40098
Dieldrin	ND	.0001	ND	Q1P40098
Endosulfan sulfate	ND	.0001	ND	Q1P40098
Endosulfan I	ND	.0001	ND	Q1P40098
Endosulfan II	ND	.0001	ND	Q1P40098
Endrin	ND	.0001	ND	Q1P40098
Endrin aldehyde	ND	.0001	ND	Q1P40098
Endrin ketone	ND	.0001	ND	Q1P40098
Gamma-BHC	ND	.0001	ND	Q1P40098
Heptachlor	ND	.0001	ND	Q1P40098
Heptachlor epoxide	ND	.0001	ND	Q1P40098
Methoxychlor	ND	.0001	ND	Q1P40098
Toxaphene	ND	.002	ND	Q1P40098
Aroclor 1016	ND	.001	ND	Q1P40098
Aroclor 1221	ND	.001	ND	Q1P40098
Aroclor 1232	ND	.001	ND	Q1P40098
Aroclor 1242	ND	.001	ND	Q1P40098
Aroclor 1248	ND	.001	ND	Q1P40098
Aroclor 1254	ND	.001	ND	Q1P40098
Aroclor 1260	ND	.001	ND	Q1P40098

**TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)**

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acenaphthene	ND	.010	ND	Q1C40198
Acenaphthylene	ND	.010	ND	Q1C40198
Anthracene	ND	.010	ND	Q1C40198
Benzidine	ND	.010	ND	Q1C40198
Benzoic acid	ND	.025	ND	Q1C40198
Benzyl alcohol	ND	.010	ND	Q1C40198
Benzo(a)anthracene	ND	.010	ND	Q1C40198
Benzo(b)fluoranthene	ND	.010	ND	Q1C40198
Benzo(k)fluoranthene	ND	.010	ND	Q1C40198
Benzo(ghi)perylene	ND	.010	ND	Q1C40198
Benzo(a)pyrene	ND	.010	ND	Q1C40198
bis(2-Chloroethoxy)ethane	ND	.010	ND	Q1C40198
bis(2-Chloroethyl) ether	ND	.010	ND	Q1C40198
bis(2-Chloroethoxy)methane	ND	.010	ND	Q1C40198
bis(2-Chloroisopropyl)ether	ND	.010	ND	Q1C40198
bis(2-Ethylhexyl)phthalate	.063	.010	ND	Q1C40198
4-Bromophenyl phenyl ether	ND	.010	ND	Q1C40198
Butyl benzyl phthalate	ND	.010	ND	Q1C40198
Carbazole	ND	.010	ND	Q1C40198
4-Chloroaniline	ND	.010	ND	Q1C40198
p-Chloro-m-cresol	ND	.010	ND	Q1C40198
2-Chloronaphthalene	ND	.010	ND	Q1C40198
2-Chlorophenol	ND	.010	ND	Q1C40198
4-Chlorophenyl phenyl ether	ND	.010	ND	Q1C40198
3-Chloropropionitrile	ND	.010	ND	Q1C40198
Chrysene	ND	.010	ND	Q1C40198
Cyclohexanone	ND	.010	ND	Q1C40198
Dibenzo(a,h)anthracene	ND	.010	ND	Q1C40198
Dibenzofuran	ND	.010	ND	Q1C40198
Di-n-butyl phthalate	.018	.010	ND	Q1C40198
1,2-Dichlorobenzene	ND	.010	ND	Q1C40198
1,3-Dichlorobenzene	ND	.010	ND	Q1C40198
1,4-Dichlorobenzene	ND	.010	ND	Q1C40198
3,3'-Dichlorobenzidine	ND	.010	ND	Q1C40198
2,4-Dichlorophenol	ND	.010	ND	Q1C40198
2,6-Dichlorophenol	ND	.010	ND	Q1C40198
Diethyl phthalate	ND	.010	ND	Q1C40198
Dimethyl phthalate	ND	.010	ND	Q1C40198
2,4-Dimethylphenol	ND	.010	ND	Q1C40198
4,6-Dinitro-o-cresol	ND	.025	ND	Q1C40198
2,4-Dinitrophenol	ND	.050	ND	Q1C40198
2,4-Dinitrotoluene	ND	.010	ND	Q1C40198
2,6-Dinitrotoluene	ND	.010	ND	Q1C40198
Di-n-octyl phthalate	ND	.010	ND	Q1C40198
2-Ethoxyethanol	ND	.010	ND	Q1C40198
Fluoranthene	ND	.010	ND	Q1C40198
Fluorene	ND	.010	ND	Q1C40198
Hexachlorobenzene	ND	.010	ND	Q1C40198
Hexachlorobutadiene	ND	.010	ND	Q1C40198
Hexachlorocyclopentadiene	ND	.010	ND	Q1C40198

**TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)**

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Hexachloroethane	ND	.010	ND	Q1C40198
Hexachloropropene	ND	.010	ND	Q1C40198
Indeno(1,2,3-c,d)pyrene	ND	.010	ND	Q1C40198
Isophorone	ND	.010	ND	Q1C40198
4,4'-Methylenebis(2-chloroani- line)	ND	.010	ND	Q1C40198
2-Methylnaphthalene	ND	.010	ND	Q1C40198
2-Methylphenol	ND	.010	ND	Q1C40198
4-Methylphenol	ND	.010	ND	Q1C40198
2-Nitropropane	ND	.010	ND	Q1C40198
N-Nitrosodimethylamine	ND	.010	ND	Q1C40198
N-Nitrosodi-n-propylamine	ND	.010	ND	Q1C40198
N-Nitrosodiphenylamine	ND	.010	ND	Q1C40198
Naphthalene	ND	.010	ND	Q1C40198
2-Nitroaniline	ND	.010	ND	Q1C40198
3-Nitroaniline	ND	.010	ND	Q1C40198
4-Nitroaniline	ND	.010	ND	Q1C40198
Nitrobenzene	ND	.010	ND	Q1C40198
2-Nitrophenol	ND	.010	ND	Q1C40198
4-Nitrophenol	ND	.050	ND	Q1C40198
Pentachlorobenzene	ND	.010	ND	Q1C40198
Pentachloronitrobenzene	ND	.010	ND	Q1C40198
Pentachlorophenol	ND	.010	ND	Q1C40198
Pentachloroethane	ND	.010	ND	Q1C40198
Phenanthrene	ND	.010	ND	Q1C40198
Phenol	ND	.010	ND	Q1C40198
Pronamide	ND	.010	ND	Q1C40198
Pyrene	ND	.010	ND	Q1C40198
Pyridine	ND	.010	ND	Q1C40198
1,2,4,5-Tetrachlorobenzene	ND	.010	ND	Q1C40198
2,3,4,6-Tetrachlorophenol	ND	.010	ND	Q1C40198
1,2,4-Trichlorobenzene	ND	.010	ND	Q1C40198
2,4,5-Trichlorophenol	ND	.010	ND	Q1C40198
2,4,6-Trichlorophenol	ND	.010	ND	Q1C40198

3-Methyl- and 4-Methylphenol coelute and are reported as the total

## TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-02	JM4135

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.025	.005	ND	Q1V3330
Acrolein	ND	.025	ND	Q1V3330
Acrylonitrile	ND	.013	ND	Q1V3330
Benzene	ND	.005	ND	Q1V3330
Bromoform	ND	.005	ND	Q1V3330
Carbon disulfide	ND	.005	ND	Q1V3330
Carbon tetrachloride	ND	.005	ND	Q1V3330
Chlorobenzene	ND	.005	ND	Q1V3330
Chlorodibromomethane	ND	.005	ND	Q1V3330
Chloroethane	ND	.005	ND	Q1V3330
Chloroform	ND	.005	ND	Q1V3330
2-Chloroethylvinyl ether	ND	.005	ND	Q1V3330
3-Chloropropene	ND	.005	ND	Q1V3330
1,2-Dibromo-3-chloropropane	ND	.005	ND	Q1V3330
Dichlorobromomethane	ND	.005	ND	Q1V3330
Dichlorodifluoromethane	ND	.005	ND	Q1V3330
1,1-Dichloroethane	ND	.005	ND	Q1V3330
1,2-Dichloroethane	ND	.005	ND	Q1V3330
1,1-Dichloroethylene	ND	.005	ND	Q1V3330
1,2-Dichloropropane	ND	.005	ND	Q1V3330
cis-1,3-Dichloropropylene	ND	.005	ND	Q1V3330
trans-1,3-Dichloropropylene	ND	.005	ND	Q1V3330
Dibromomethane	ND	.005	ND	Q1V3330
Ethylbenzene	ND	.005	ND	Q1V3330
Ethylene dibromide	ND	.005	ND	Q1V3330
Ethyl acetate	ND	.050	ND	Q1V3330
Ethyl ether	ND	.005	ND	Q1V3330
2-Hexanone	ND	.005	ND	Q1V3330
Iodomethane	ND	.005	ND	Q1V3330
Methyl bromide	ND	.005	ND	Q1V3330
Methyl chloride	ND	.005	ND	Q1V3330
Methylene chloride	ND	.005	ND	Q1V3330
Methyl ethyl ketone	ND	.010	ND	Q1V3330
Methyl-iso-butyl ketone	ND	.010	ND	Q1V3330
Styrene	ND	.005	ND	Q1V3330
1,1,1,2-Tetrachloroethane	ND	.005	ND	Q1V3330
1,1,2,2-Tetrachloroethane	ND	.005	ND	Q1V3330
Tetrachloroethylene	ND	.005	ND	Q1V3330
Tetrahydrofuran	ND	.005	ND	Q1V3330
Toluene	ND	.005	ND	Q1V3330
1,1,1-Trichloroethane	ND	.005	ND	Q1V3330
1,1,2-Trichloroethane	ND	.005	ND	Q1V3330
Trichloroethylene	ND	.005	ND	Q1V3330
1,2-Trans-dichloroethylene	ND	.005	ND	Q1V3330
Trichlorofluoromethane	ND	.005	ND	Q1V3330
1,2,3-Trichloropropane	ND	.005	ND	Q1V3330
1,1,2-Trichlorotrifluoroethane	ND	.010	.026	Q1V3330
Vinyl acetate	ND	.025	ND	Q1V3330
Vinyl chloride	ND	.005	ND	Q1V3330
Xylenes	ND	.005	ND	Q1V3330

- Variable QC matrix spike recoveries were attributed to sample matrix interference.

**APPENDIX C**

**QUALITY ASSURANCE DATA**

## SUMMARY OF ANALYTICAL METHODOLOGY

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Parameter	Reference	Method
<b>Conventionals</b>		
pH, Electrode	SW-846	9040
Solids, Total Suspended	CAWW	160.2
Solids, Total Dissolved	CAWW	160.1
Oil & Grease	CAWW	413.1
Cyanide, Total	CLP	335.2
<b>Metals</b>		
Total Metals	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
<b>Organics</b>		
Semi-volatile Compounds by GC/MS	SW-846	8270
Volatile Compounds by GC/MS	SW-846	8240
Pesticides and PCBs by GC	SW-846	8080

## METHODOLOGY REFERENCES

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- ASTM**      *American Society for Testing and Materials*, 1985 edition.
- CAWW**      *Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
- CLP**        *USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
- EPA-500**    *USEPA Methods for the Determination of Organic Compounds in Drinking Water*, EPA-600/4-88/039 December 1988.
- EPA-600**    *USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
- NIOSH**      *National Institute for Occupational Safety and Health*, 3rd edition, 1984.
- SMEWW**     *Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
- STOA**      *Spot Tests In Organic Analysis*, 7th edition, 1966.
- SW-846**    *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
- (1)            This method was modified to incorporate the use of Boron Trifluoride (BF<sub>3</sub>) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
- Title 22**    *Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

## ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

**Validated by:**

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

**Approvals:**

- o Chemical Waste Management ..... Waste Characterization Analysis
- o EnviroSAFE ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Energy and Environmental Support Activity ..... Chemical Analysis in Various Matrices



## REPORT KEY

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mg/kg	= milligram per kilogram (ppm)
Mg/m <sup>3</sup>	= milligram per cubic meter
ug/kg	= microgram per kilogram (ppb)
mg/L	= milligram per liter (ppm)
mg/W	= milligram per wipe
ug/L	= microgram per liter (ppb)
ug/W	= microgram per wipe
ug/SMP	= microgram per sample
um/cm	= microMho per centimeter
pCi/l	= picocurie per liter
ppm	= parts per million
ppb	= parts per billion
ND	= Not detected at or above stated detection limit
<	= less than
>	= greater than
%	= percent
BTU/lb	= British Thermal Units per pound
Deg. C	= Degrees Celsius
gm/cc	= grams per cubic centimeter
n/a	= not applicable
std	= result is relative to standard pH units
CV	= Conventional
IR	= Infrared Spectrophotometric
GC	= Gas Chromatograph Instrument
GC/MS	= Gas Chromatography/Mass Spectrometer Instrument
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
PCB	= Polychlorinated Biphenyls (PCBs)
EP TOX	= Extraction Procedure Toxicity
TCLP	= Toxicity Characteristic Leaching Procedure
RCRA	= Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

CONVENTIONAL DATA (CV10)

Compounds	Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Cyanide, Total Oil and Grease	mg/L ND	ND 108	96.5 -	82 -	3 -	Q1I3319 Q1I3317

QUALITY ASSURANCE DATA

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic	ND	94	ND	87	4	Q1M3881
Barium	ND	98	.058	90	5	Q1M3881
Cadmium	ND	93	ND	86	3	Q1M3881
Chromium	ND	94	ND	87	3	Q1M3881
Lead	ND	90	.397	82	5	Q1M3881
Mercury	ND	100	ND	88	3	Q1G3882
Selenium	ND	91	ND	85	4	Q1M3881
Silver	ND	89	ND	96	11	Q1M3881

QUALITY ASSURANCE DATA

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	60	ND	73	6	Q1P40098
Alpha-BHC	ND	65	ND	69	9	Q1P40098
Beta-BHC	ND	83	ND	81	8	Q1P40098
Chlordane	ND	88	ND	89	4	Q1P40098
4,4'-DDD	ND	70	.0008	75	1	Q1P40098
4,4'-DDE	ND	75	.0003	83	2	Q1P40098
4,4'-DDT	ND	92	.002	94	1	Q1P40098
Delta-BHC	ND	75	ND	79	3	Q1P40098
Dieldrin	ND	76	ND	74	5	Q1P40098
Endosulfan sulfate	ND	58	ND	64	4	Q1P40098
Endosulfan I	ND	90	ND	91	5	Q1P40098
Endosulfan II	ND	80	ND	81	4	Q1P40098
Endrin	ND	74	ND	78	2	Q1P40098
Endrin aldehyde	ND	63	ND	59	18	Q1P40098
Endrin ketone	ND	65	ND	66	6	Q1P40098
Gamma-BHC	ND	67	ND	70	5	Q1P40098
Heptachlor	ND	71	ND	86	7	Q1P40098
Heptachlor epoxide	ND	78	ND	84	5	Q1P40098
Methoxychlor	ND	76	ND	74	5	Q1P40098

QUALITY ASSURANCE DATA

TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	94	ND	97	5	Q1C40198
Acenaphthylene	ND	99	ND	102	5	Q1C40198
Anthracene	ND	85	ND	88	15	Q1C40198
Benzoic acid	ND	26	ND	39	-	Q1C40198
Benzo(a)pyrene	ND	102	ND	112	30	Q1C40198
bis(2-Ethylhexyl)phthalate	ND	106	.063	125	13	Q1C40198
Butyl benzyl phthalate	ND	98	ND	105	10	Q1C40198
Carbazole	ND	86	ND	93	13	Q1C40198
4-Chloroaniline	ND	32	ND	22	5	Q1C40198
p-Chloro-m-cresol	ND	85	ND	90	9	Q1C40198
2-Chlorophenol	ND	86	ND	90	6	Q1C40198
Chrysene	ND	102	ND	114	20	Q1C40198
Cyclohexanone	ND	21	ND	22	6	Q1C40198
Di-n-butyl phthalate	ND	99	.018	112	15	Q1C40198
1,2-Dichlorobenzene	ND	70	ND	77	1	Q1C40198
1,4-Dichlorobenzene	ND	65	ND	73	2	Q1C40198
3,3'-Dichlorobenzidine	ND	76	ND	35	1	Q1C40198
2,4-Dichlorophenol	ND	83	ND	82	10	Q1C40198
2,4-Dinitrophenol	ND	54	ND	45	-	Q1C40198
2,4-Dinitrotoluene	ND	104	ND	100	9	Q1C40198
Hexachloroethane	ND	53	ND	68	3	Q1C40198
Isophorone	ND	93	ND	93	4	Q1C40198
4,4'-Methylenebis(2-chloroani- line)	ND	71	ND	23	60	Q1C40198
2-Methylnaphthalene	ND	79	ND	90	8	Q1C40198
2-Methylphenol	ND	76	ND	82	2	Q1C40198
N-Nitrosodi-n-propylamine	ND	91	ND	94	4	Q1C40198
4-Nitroaniline	ND	104	ND	91	3	Q1C40198
4-Nitrophenol	ND	54	ND	7	-	Q1C40198
Pentachloronitrobenzene	ND	90	ND	101	12	Q1C40198
Pentachlorophenol	ND	132	ND	160	15	Q1C40198
Phenol	ND	50	ND	69	2	Q1C40198
Pyrene	ND	102	ND	120	12	Q1C40198
2,3,4,6-Tetrachlorophenol	ND	84	ND	88	11	Q1C40198
1,2,4-Trichlorobenzene	ND	70	ND	82	10	Q1C40198
2,4,5-Trichlorophenol	ND	99	ND	93	4	Q1C40198
2,4,6-Trichlorophenol	ND	92	ND	95	11	Q1C40198

3-Methyl- and 4-Methylphenol coelute and are reported as the total  
 Matrix spike recoveries below the detection limits were observed for  
 analytes designated with a dash for the RPD of replicate matrix  
 spikes.

QUALITY ASSURANCE DATA

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acetone	ND	106	.025	81	20	Q1V3330
Acrolein	ND	88	ND	6	-	Q1V3330
Acrylonitrile	ND	96	ND	106	12	Q1V3330
Benzene	ND	99	ND	100	22	Q1V3330
Bromoform	ND	100	ND	101	14	Q1V3330
Carbon disulfide	ND	92	ND	97	6	Q1V3330
Carbon tetrachloride	ND	98	ND	100	8	Q1V3330
Chlorobenzene	ND	101	ND	97	47	Q1V3330
Chlorodibromomethane	ND	100	ND	97	16	Q1V3330
Chloroethane	ND	88	ND	94	4	Q1V3330
Chloroform	ND	98	ND	97	8	Q1V3330
2-Chloroethylvinyl ether	ND	54	ND	103	19	Q1V3330
3-Chloropropene	ND	92	ND	98	7	Q1V3330
1,2-Dibromo-3-chloropropane	ND	105	ND	111	16	Q1V3330
Dichlorobromomethane	ND	98	ND	96	12	Q1V3330
Dichlorodifluoromethane	ND	93	ND	99	8	Q1V3330
1,1-Dichloroethane	ND	95	ND	98	9	Q1V3330
1,2-Dichloroethane	ND	97	ND	97	14	Q1V3330
1,1-Dichloroethylene	ND	95	ND	98	8	Q1V3330
1,2-Dichloropropane	ND	101	ND	99	13	Q1V3330
cis-1,3-Dichloropropylene	ND	92	ND	90	13	Q1V3330
trans-1,3-Dichloropropylene	ND	104	ND	101	16	Q1V3330
Dibromomethane	ND	97	ND	96	16	Q1V3330
Ethylbenzene	ND	101	ND	101	10	Q1V3330
Ethylene dibromide	ND	103	ND	104	13	Q1V3330
Ethyl acetate	ND	99	ND	62	14	Q1V3330
Ethyl ether	ND	93	ND	92	14	Q1V3330
2-Hexanone	ND	95	ND	113	14	Q1V3330
Iodomethane	ND	94	ND	95	8	Q1V3330
Methyl bromide	ND	90	ND	100	1	Q1V3330
Methyl chloride	ND	92	ND	99	1	Q1V3330
Methylene chloride	ND	91	ND	92	9	Q1V3330
Methyl ethyl ketone	ND	118	ND	101	30	Q1V3330
Methyl-iso-butyl ketone	ND	98	ND	108	14	Q1V3330
Styrene	ND	104	ND	99	12	Q1V3330
1,1,1,2-Tetrachloroethane	ND	101	ND	99	12	Q1V3330
1,1,2,2-Tetrachloroethane	ND	105	ND	104	18	Q1V3330
Tetrachloroethylene	ND	101	ND	98	11	Q1V3330
Tetrahydrofuran	ND	92	ND	100	16	Q1V3330
Toluene	ND	99	ND	98	13	Q1V3330
1,1,1-Trichloroethane	ND	94	ND	98	4	Q1V3330
1,1,2-Trichloroethane	ND	101	ND	100	15	Q1V3330
Trichloroethylene	ND	97	ND	100	8	Q1V3330
1,2-Trans-dichloroethylene	ND	93	ND	97	6	Q1V3330
Trichlorofluoromethane	ND	93	ND	97	5	Q1V3330
1,2,3-Trichloropropane	ND	103	ND	107	13	Q1V3330
1,1,2-Trichlorotrifluoroethane	.026	44	ND	98	10	Q1V3330
Vinyl acetate	ND	101	ND	11	-	Q1V3330
Vinyl chloride	ND	94	ND	95	5	Q1V3330
Xylenes	ND	101	ND	100	12	Q1V3330

**QUALITY ASSURANCE DATA  
SURROGATE SUMMARY REPORT**

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
<b>QC BATCH: Q1C40198 Aqueous (Semi-Volatile organics by MS)</b>							
<b>SAMPLE ID</b>							
BLANK	67	45	113	83	99	120	0
BLANK SPIKE	65	48	102	83	91	105	0
CLJ-DWW-02	51	36	88	69	92	101	0
CLJ-DWW-02 MD	77	63	88	89	90	107	0
CLJ-DWW-02 MS	76	67	92	88	97	121	0
<b>QC LIMITS</b>	(21-110) (10-110) (10-123) (35-114) (43-116) (33-141)						

SURROGATE ID	B816	A500	# OUT
<b>QC BATCH: Q1P40098 Aqueous (Pesticide compounds by GC)</b>			
<b>SAMPLE ID</b>			
BLANK	47	45	0
BLANK SPIKE	56	59	0
CLJ-DWW-02	79	27	0
CLJ-DWW-02 MD	83	43	0
CLJ-DWW-02 MS	76	44	0
<b>QC LIMITS</b>	(37-116) (14-147)		

SURROGATE ID	A047	B185	B668	# OUT
<b>QC BATCH: Q1V3330 Aqueous (Volatile organics by MS)</b>				
<b>SAMPLE ID</b>				
BLANK	93	94	99	0
BLANK SPIKE	99	98	99	0
CLJ-DWW-02	95	95	101	0
CLJ-DWW-02 MD	106	103	104	0
CLJ-DWW-02 MS	94	94	95	0
<b>QC LIMITS</b>	(76-114) (88-110) (86-115)			

**SURROGATE ID**

A047 = 1,2-Dichloroethane-D4                      A500 = Decachlorobiphenyl  
 B185 = Toluene-D8  
 B668 = Bromofluorobenzene  
 A159 = 2-Fluorophenol  
 B732 = Phenol-D6  
 A121 = 2,4,6-Tribromophenol  
 A884 = Nitrobenzene-D5  
 A158 = 2-Fluorobiphenyl  
 B142 = Terphenyl-D14  
 B816 = 2,4,5,6-Tetrachloro-m-xylene

\* Values outside of method quality control limits  
 D Surrogate diluted out

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

**APPENDIX D**

**CHAIN-OF-CUSTODY RECORD(S)**



**CERTIFICATE OF ANALYSIS**

OHM Remediation Services  
100 Dominion Drive  
Suite 100  
Morrisville, NC 27560-9259  
Attn: Kent Guis

March 31, 1994

Job Number: 99-TCLP

P.O. Number: N/A

This is the Certificate of Analysis for the following samples:

Client Project ID: Camp LeJune  
Date Received by Lab: February 24, 1994  
Number of Samples: One (1)  
Sample Type: Soil

**I. Introduction**

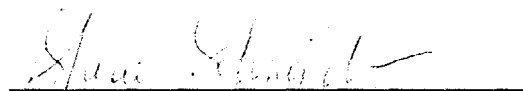
On February 24, 1994, one (1) soil sample arrived at the ITAS-Knoxville, Tennessee, laboratory from OHM, Jacksonville, North Carolina in support of the Camp LeJune project. The list of analytical tests performed, as well as date of receipt and analysis, can be found in the attached report.

**II. Analytical Results/Methodology**

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information and the analytical results. Please note that the data are not blank corrected.

The sample was prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

Reviewed and Approved:



Sheree A. Schneider  
Project Manager

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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## II. Analytical Results/Methodology (Continued)

The sample was analyzed for the TCLP regulated volatile organic compounds by gas chromatography/mass spectroscopy (GC/MS) based on EPA SW-846 method 8240.

The TCLP leachate was analyzed for the regulated semivolatile organic compounds by gas chromatography/mass spectroscopy (GC/MS) based on EPA SW-846 method 8270.

The TCLP leachate was analyzed for the regulated pesticides by gas chromatography/electron capture detection (GC/ECD) based on EPA SW-846 method 8080.

The TCLP leachate was analyzed for the regulated herbicides by gas chromatography/electron capture detection (GC/ECD) based on EPA SW-846 method 8150.

The TCLP leachate was analyzed for the regulated metals by inductively coupled plasma spectroscopy (ICP) and cold vapor atomic absorption spectroscopy (CVAA) based on EPA SW-846 methods 6010 and 7470, respectively.

The sample was analyzed for total high boiling petroleum hydrocarbons as diesel range organics (DRO) by gas chromatography/flame ionization detection (GC/FID) based on Tennessee modified method 8015.

The sample was analyzed for total low boiling petroleum hydrocarbons as gasoline-range organics (GRO) by gas chromatography/flame ionization detection (GC/FID) based on Tennessee modified method 8015.

The pH of the sample was determined using EPA methods 150.1 and 9040.

The sample was analyzed for reactive cyanide by section 7.3.3.2, SW-846, Test Methods to Determine Cyanide Released from Wastes.

The sample was analyzed for reactive sulfide by section 7.3.4.2, SW-846, Test Methods to Determine Hydrogen Sulfide Released from Waste.

The sample was analyzed for ignitability according to USEPA, SW-846 Method 1010.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

### III. Quality Control

Routine laboratory level I QC was followed.

The sample was analyzed for cyanide by manual distillation followed by automated colorimetric determination using the LACHAT QuikChem automated flow injection analyzer (QuikChem Method No. 10-204-00-2-B).

The pH of the sample was measured by electrometric procedure on March 8, 1994; the activity of the hydrogen ions was determined by potentiometric measurement using a standard hydrogen electrode and a reference electrode.

The sample was analyzed for TCLP volatiles on February 28 and March 3, 1994 by purge and trap with a J&W DB-624 column on a Hewlett-Packard 5970 GC/MS/DS unit. Carbon disulfide in VSTD020, VSTD050, VSTD100, and VSTD200 and m/p xylenes in VSTD200 required manual integration in the initial calibration analyzed on January 26, 1994, m/p xylene required manual integration in VSTD200 in the initial calibration analyzed on February 23, 1994.

The sample was analyzed for TCLP semivolatiles March 8-10, 1994 by direct injection of sample extract on a Restek XTI-5 capillary column on a Finnigan 4500 GC/MS/DS unit. A laboratory control sample (LCS) was analyzed as BLCS1.

The sample was analyzed for TCLP pesticides on March 9, 1994 using a XTI-5 column on a HP5890M GC. The sample, associated method blank, and LCS were treated to remove interferences using a mercury cleanup procedure. A continuing standard was analyzed with every ten (10) samples. The check standard was compared to the initial linearity using acceptance criteria of  $\pm 15\%$  difference.

The sample was analyzed for the TCLP herbicides 2,4-D, and 2,4,5-TP (Silvex) by gas chromatography using an electron capture detector. A RTX-35 column was used on a Hewlett Packard 5890 GC.

The TCLP extract was digested on March 2, 1994 for ICP and GFAA. The extract for mercury analysis was prepared just prior to analysis. The CVAA analysis for mercury was performed on March 2, 1994. The GFAA analysis for selenium was performed on March 5, 1994; the TCLP metals were analyzed by ICP on March 3, 1994. All run QC was acceptable.

The sample was analyzed for total high boiling petroleum hydrocarbons as diesel fuel by gas chromatography/flame ionization detection using an SPB-1 column on a Hewlett Packard GC.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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### III. Quality Control (Continued)

The sample was analyzed for low boiling petroleum hydrocarbons as gasoline by gas chromatography/flame ionization detection using a DB-624 column on a VARIAN 3400 GC.

The sample was analyzed for reactive cyanide on February 23, 1994.

The sample was analyzed for reactive sulfide on February 23, 1994.

The sample was analyzed for ignitability on February 23, 1994.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

TCLP VOLATILE ORGANIC ANALYSIS

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: CLJ-CSS-028D

Lab Sample ID: AA2044

<u>Compound</u>	<u>Result</u>
vinyl chloride	0.050 U
1,1-dichloroethene	0.025 U
chloroform	0.025 U
1,2-dichloroethane	0.025 U
methyl ethyl ketone	0.029 J
carbon tetrachloride	0.025 U
trichloroethene	0.025 U
benzene	0.025 U
tetrachloroethene	0.025 U
chlorobenzene	0.025 U

Date of Analysis: 03/03/94

Dilution Factor: 5.0

J - Indicates an estimated value less than the detection limit.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

TCLP VOLATILE ORGANIC ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID: Method Blank (VBLK3P)

Lab Sample ID: PB0303

<u>Compound</u>	<u>Result</u>
vinyl chloride	0.010 U
1,1-dichloroethene	0.005 U
chloroform	0.005 U
1,2-dichloroethane	0.005 U
methyl ethyl ketone	0.010 U
carbon tetrachloride	0.005 U
trichloroethene	0.005 U
benzene	0.005 U
tetrachloroethene	0.005 U
chlorobenzene	0.005 U

Date of Analysis: 03/03/94

Dilution Factor: 1.0

- J - Indicates an estimated value less than the detection limit.  
U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

TCLP VOLATILE ORGANIC ANALYSIS

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: TCLP Blank  
Lab Sample ID: AA2486

<u>Compound</u>	<u>Result</u>
vinyl chloride	0.050 U
1,1-dichloroethene	0.025 U
chloroform	0.025 U
1,2-dichloroethane	0.025 U
methyl ethyl ketone	0.022 J
carbon tetrachloride	0.025 U
trichloroethene	0.025 U
benzene	0.025 U
tetrachloroethene	0.025 U
chlorobenzene	0.025 U

Date of Analysis: 03/03/94  
Dilution Factor: 5.0

- J - Indicates an estimated value less than the detection limit.  
U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP VOLATILE ORGANIC ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: TCLP LCS  
Lab Sample ID: AA2487

<u>Compound</u>	<u>Result</u>
vinyl chloride	0.320 +
1,1-dichloroethene	0.210 +
chloroform	0.240 +
1,2-dichloroethane	0.260 +
methyl ethyl ketone	0.360 +
carbon tetrachloride	0.250 +
trichloroethene	0.240 +
benzene	0.240 +
tetrachloroethene	0.230 +
chlorobenzene	0.240 +

Date of Analysis: 03/03/94  
Dilution Factor: 5.0

- + - Positive result.
- J - Indicates an estimated value less than the detection limit.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.



Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP SEMIVOLATILE ORGANIC ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Method Blank (SBLK1B)

Lab Sample ID: AA2469

<u>Compound</u>	<u>Concentration</u>
total cresols	0.04 U
pyridine	0.40 U
1,4-dichlorobenzene	0.04 U
hexachloroethane	0.04 U
nitrobenzene	0.04 U
hexachlorobutadiene	0.04 U
2,4,6-trichlorophenol	0.04 U
2,4,5-trichlorophenol	0.20 U
2,4-dinitrotoluene	0.04 U
hexachlorobenzene	0.04 U
pentachlorophenol	0.20 U

Extraction Date: 03/02/94

Analysis Date: 03/08/94

Dilution Factor: 1.0

- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- J - Indicates an estimated value less than the detection limit.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP SEMIVOLATILE ORGANIC ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: CLJ-CSS-028D  
Lab Sample ID: AA2045

<u>Compound</u>	<u>Concentration</u>
total cresols	0.04 U
pyridine	0.40 U
1,4-dichlorobenzene	0.04 U
hexachloroethane	0.04 U
nitrobenzene	0.04 U
hexachlorobutadiene	0.04 U
2,4,6-trichlorophenol	0.04 U
2,4,5-trichlorophenol	0.20 U
2,4-dinitrotoluene	0.04 U
hexachlorobenzene	0.04 U
pentachlorophenol	0.20 U

Extraction Date: 03/02/94  
Analysis Date: 03/08/94  
Dilution Factor: 1.0

- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.  
J - Indicates an estimated value less than the detection limit.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

TCLP SEMIVOLATILE ORGANIC ANALYSIS

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: BLCS1  
Lab Sample ID: AA2470

<u>Compound</u>	<u>Concentration</u>
total cresols	1.054 +
pyridine	0.561 +
1,4-dichlorobenzene	0.410 +
hexachloroethane	0.400 +
nitrobenzene	0.380 +
hexachlorobutadiene	0.400 +
2,4,6-trichlorophenol	0.440 +
2,4,5-trichlorophenol	0.580 +
2,4-dinitrotoluene	0.040 +
hexachlorobenzene	0.110 +
pentachlorophenol	0.520 +

Extraction Date: 03/02/94  
Analysis Date: 03/08/94  
Dilution Factor: 1.0

- + - Positive result.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- J - Indicates an estimated value less than the detection limit.

The samples were prepared in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP PESTICIDES ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: CLJ-CSS-028D

Lab Sample ID: AA2064

<u>Compound</u>	<u>Uncorrected Concentration</u>
lindane	0.008 U
heptachlor	0.001 U
heptachlor epoxide	0.001 U
endrin	0.004 U
methoxychlor	0.08 U
chlordane	0.006 U
toxaphene	0.1 U

TCLP Date: 02/28/94  
Extraction Date: 03/02/94  
Analysis Date: 03/09/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Sample extracted in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP PESTICIDES ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Method Blank  
Lab Sample ID: AA2469

<u>Compound</u>	<u>Uncorrected Concentration</u>
lindane	0.008 U
heptachlor	0.001 U
heptachlor epoxide	0.001 U
endrin	0.004 U
methoxychlor	0.08 U
chlordane	0.006 U
toxaphene	0.1 U

TCLP Date: 02/28/94  
Extraction Date: 03/02/94  
Analysis Date: 03/09/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Sample extracted in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**SPIKED BLANK ANALYSIS**

Results in: mg/liter (ppm) in the leachate

Sample Matrix: Water

Client Sample ID: Laboratory Control Sample

Lab Sample ID: AA2470

<u>Compound</u>	<u>Conc.</u> <u>Spike Added</u>	<u>Conc.</u> <u>Blank Spike</u>	<u>%</u> <u>Rec.</u>
lindane	0.040	0.033	83
heptachlor	0.020	0.014	70
heptachlor epoxide	0.020	0.014	70
endrin	0.040	0.028	70
methoxychlor	0.40	0.37	92

Date of Preparation: 02/28/94, 03/02/94

Date of Analysis: 03/08/94

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP HERBICIDES ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: CLJ-CSS-028D

Lab Sample ID: AA2464

<u>Compound</u>	<u>Uncorrected Concentration</u>
2,4-D	0.12 U
2,4,5-TP (silvex)	0.02 U

TCLP Date: 03/01/94  
Extraction Date: 03/02/94  
Analysis Date: 03/04/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Sample extracted in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998. Friday, June 29, 1990.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP HERBICIDES ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Method Blank  
Lab Sample ID: AA2469

<u>Compound</u>	<u>Uncorrected Concentration</u>
2,4-D	0.12 U
2,4,5-TP (silvex)	0.02 U

TCLP Date: 03/01/94  
Extraction Date: 03/02/94  
Analysis Date: 03/04/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Sample extracted in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998, Friday, June 29, 1990.



OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TCLP HERBICIDES ANALYSIS**

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Blank Spike  
Lab Sample ID: AA2470

<u>Compound</u>	<u>Uncorrected Concentration</u>
2,4-D	0.91 +
2,4,5-TP (silvex)	0.90 +

TCLP Date: 03/01/94  
Extraction Date: 03/02/94  
Analysis Date: 03/04/94

+ - Positive result.

Sample extracted in accordance with the "Toxicity Characteristic Leaching Procedure," Federal Register, Vol. 55, No. 126, pp. 26986-26998. Friday, June 29, 1990.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**SPIKED BLANK ANALYSIS**

Results in: mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Blank Spike  
Lab Sample ID: AA2470

<u>Compound</u>	<u>Conc. Spike Added</u>	<u>Conc. Blank Spike</u>	<u>% Rec.</u>
2,4-D	1.0	0.91	91
2,4,5-TP (Silvex)	1.0	0.90	90

Date of Analysis: 03/04/94

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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WATER SURROGATE PERCENT RECOVERY SUMMARY

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>HERBICIDE</u>
		<u>2,4-DCPA</u>
CLJ-CSS-028D	AA2464	104
Method Blank	AA2469	108
Blank Spike	AA2470	150

2,4-DCPA - 2,4-Dichlorophenylacetic acid

QC limits not yet established.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

METALS ANALYSIS

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Lab Sample ID:	Method Blank <u>PBW0302AS (ICP),</u> <u>APBW0302BS (GFAA),</u> <u>CPBW0302A (CVAA)</u>	CLJ-CSS-028D <u>AA2064</u>
arsenic	0.08 U	0.08 U
barium	0.002 U	0.75 +
cadmium	0.005 U	0.012 +
chromium	0.010 U	0.01 U
lead	0.05 U	0.05 U
selenium	0.215 +	0.002 U
silver	0.005 U	0.005 U
mercury	0.0002 U	0.0002 U

Digestion Date: 03/02/94 (ICP), 03/02/94 (CVAA), 03/02/94 (GFAA)

Analysis Date: 03/03/94 (ICP), 03/02/94 (CVAA), 03/05/94 (GFAA)

+ - Positive result.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

METALS ANALYSIS

Results in mg/liter (ppm) in the leachate

Sample Matrix: Soil

Client Sample ID: Lab Sample ID:	TCLP Blank <u>AA2469</u>	TCLP LCS <u>AA2470</u>
arsenic	0.08 U	4.9 +
barium	0.002 U	5.0 +
cadmium	0.005 U	1.0 +
chromium	0.010 U	5.0 +
lead	0.05 U	5.1 +
selenium	0.002 U	0.042 +
silver	0.0063 B	0.98 +
mercury	0.0002 U	0.0045 +

Digestion Date: 03/02/94 (ICP), 03/02/94 (CVAA), 03/02/94 (GFAA)

Analysis Date: 03/03/94 (ICP), 03/02/94 (CVAA), 03/05/94 (GFAA)

- + - Positive result.
- B - Analyte was found in the blank as well as the sample.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TOTAL LOW BOILING PETROLEUM HYDROCARBONS  
AS GASOLINE RANGE ORGANICS**

Results in mg/kg (ppm)

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>As Compared To Gasoline Range Organics</u>
CLI-CSS-028D	AA2045	5 U
Method Blank	AA3253	5 U

Date of Extraction: 03/07/94

Date of Analysis: 03/07/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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SOIL SURROGATE PERCENT RECOVERY SUMMARY

LOW BOILING PETROLEUM  
HYDROCARBONS

<u>Client Sample ID</u>	<u>Bromofluorobenzene (FID)</u> <u>(50-126%)*</u>
CLJ-CSS-028D	94
Method Blank	104

FID = Quantitated from the flame ionization detector.

\*Values in parentheses represent required QC limits.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**SPIKED BLANK ANALYSIS**

Results in: mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: Laboratory Control Sample  
Lab Sample ID: B4299

<u>Compound</u>	<u>Conc. Spike Added</u>	<u>Conc. Blank Spike</u>	<u>% Rec.</u>
low boiling petroleum hydrocarbons as compared to gasoline range organics	120	120	100

Date of Analysis: 03/07/94



OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TOTAL HIGH BOILING PETROLEUM HYDROCARBONS**

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: CLJ-CSS-028D  
Lab Sample ID: AA2045

<u>Compound</u>	<u>Results</u>
total high boiling petroleum hydrocarbons, as diesel fuel	5 U

Date of Extraction: 03/07/94  
Date of Analysis: 03/11/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**TOTAL HIGH BOILING PETROLEUM HYDROCARBONS**

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: Method Blank  
Lab Sample ID: AA3068

<u>Compound</u>	<u>Results</u>
total high boiling petroleum hydrocarbons, as diesel fuel	5 U

Date of Extraction: 03/07/94  
Date of Analysis: 03/11/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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**TOTAL HIGH BOILING PETROLEUM HYDROCARBONS**

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: Blank Spike  
Lab Sample ID: AA3069

<u>Compound</u>	<u>Results</u>
total high boiling petroleum hydrocarbons, as diesel fuel	36 +

Date of Extraction: 03/07/94

Date of Analysis: 03/11/94

+ - Positive result.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**SPIKED BLANK ANALYSIS**

Results in: mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: Blank Spike  
Lab Sample ID: AA3069

<u>Compound</u>	<u>Conc.</u> <u>Spike Added</u>	<u>Conc.</u> <u>Blank Spike</u>	<u>%</u> <u>Rec.</u>
total high boiling petroleum hydrocarbons, as diesel fuel	34	36	106

Date of Analysis: 03/11/94

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**SOIL SURROGATE PERCENT RECOVERY SUMMARY**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>HIGH BOILING HYDROCARBONS</u>	
		<u>C23</u>	<u>C32</u>
CLJ-CSS-028D	AA2045	100	110
Method Blank	AA3068	115	124
Blank Spike	AA3069	140	125

	<u>QC LIMITS</u>
C32 - c-dotriacontane	(59-179%)*
C23 - c-tricosane	(41-149%)*

\* - Values in parentheses represent QC control limits.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**pH ANALYSIS**

Results in standard units (s.u.)

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Result</u>
Method Blank	-	*
CLJ-CSS-028D	AA2045	4.3

Date of Analysis: 03/08/94

\* - A method blank is not applicable for this analysis.

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**REACTIVE CYANIDE ANALYSIS**

Results in mg/kg (ppm)

Sample matrix: Soil

Client ID	Laboratory Sample ID	Concentration
CLJ-CSS-028D	AA2045	0.32 U

Analysis Date: 03/07/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

**REACTIVE SULFIDE ANALYSIS**

Results in mg/kg (ppm)

Sample matrix: Soil

Client ID	Laboratory Sample ID	Concentration
CLJ-CSS-028D	AA2045	13 U

Analysis Date: 03/10/94

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.



OHM Remediation Services  
March 31, 1994

IT ANALYTICAL SERVICES  
5815 MIDDLEBROOK PIKE  
KNOXVILLE, TN

Client Project ID: Camp LeJune

Job Number: 99-TCLP

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**IGNITABILITY ANALYSIS**

Results in : Fahrenheit (°F)

Sample matrix: Soil

Client ID	Laboratory Sample ID	Concentration
CLJ-CSS-028D	AA2045	> 150

Analysis Date: 03/07/94

> - Less than.

SECTION 1C

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>COC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DQO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-CSS-034	3/3/94	BATT. EXCAV.; E. TRENCH; E. WALL (1ST FLAG)	127970	ASC	JM4354	IV	615320	7526016816
CLJ-CSS-035	3/3/94	BATT. EXCAV.; E. TRENCH; FLOOR (1ST FLAG)	127970	ASC	JM4355	IV	615320	7526016816
CLJ-CSS-036	3/3/94	BATT. EXCAV.; E. TRENCH; W. WALL (1ST FLAG)	127970	ASC	JM4356	IV	615320	7526016816
CLJ-CSS-037	3/3/94	BATT. EXCAV.; E. TRENCH; E. WALL (2ND FLAG)	127970	ASC	JM4357	IV	615320	7526016816
CLJ-CSS-038	3/3/94	BATT. EXCAV.; E. TRENCH; FLOOR (2ND FLAG)	127970	ASC	JM4358	IV	615320	7526016816
CLJ-CSS-039	3/3/94	BATT. EXCAV.; E. TRENCH; W. WALL (2ND FLAG)	127970	ASC	JM4359	IV	615320	7526016816
CLJ-CSS-040	3/3/94	BATT. EXCAV.; E. TRENCH; E. WALL (3RD FLAG)	127970	ASC	JM4360	IV	615320	7526016816
CLJ-CSS-041	3/3/94	BATT. EXCAV.; E. TRENCH; FLOOR (3RD FLAG)	127970	ASC	JM4361	IV	615320	7526016816
CLJ-CSS-042	3/3/94	BATT. EXCAV.; E. TRENCH; W. WALL (3RD FLAG)	127970	ASC	JM4362	IV	615320	7526016816
CLJ-CSS-043	3/3/94	BATT. EXCAV.; E. TRENCH; E. WALL (4TH FLAG)	127969	ASC	JM4363	IV	615320	7526016816
CLJ-CSS-044	3/3/94	BATT. EXCAV.; E. TRENCH; FLOOR (4TH FLAG)	127969	ASC	JM4364	IV	615320	7526016816
CLJ-CSS-045	3/3/94	BATT. EXCAV.; E. TRENCH; W. WALL (4TH FLAG)	127969	ASC	JM4365	IV	615320	7526016816
CLJ-CSS-046	3/3/94	BATT. EXCAV.; E. TRENCH; S. WALL	127969	ASC	JM4366	IV	615320	7526016816
CLJ-CSS-047	3/3/94	BATT. EXCAV.; E. TRENCH; N. WALL	127969	ASC	JM4353	IV	615320	7526016816

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	<b>CLJ-CSS-33</b>	<b>CLJ-CSS-34</b>	<b>CLJ-CSS-35</b>	<b>CLJ-CSS-36</b>	<b>CLJ-CSS-37</b>	<b>CLJ-CSS-38</b>	<b>CLJ-CSS-39</b>	<b>CLJ-CSS-40</b>
ASC Sample Number:	JM4353	JM4354	JM4355	JM4356	JM4357	JM4358	JM4359	JM4360
Sample Date:	940303	940303	940303	940303	940303	940303	940303	940303
Facility Code:	015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N

Parameters Units

**Conventional Data (CV10)**

pH (Electrode)	std	4.59	4.68	4.22	3.87	4.55	4.06	4.45	4.96
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**RCRA TCLP Leachate Metals Analysis, (ME52)**

Arsenic	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Barium	mg/L	.168	.344	.325	.300	.258	.430	.248	.285
Cadmium	mg/L	<.005	<.005	<.005	<.005	<.001	.004	.001	<.001
Chromium	mg/L	<.020	<.004	<.020	<.020	<.004	.007	<.004	<.004
Lead	mg/L	<.002	<.002	.021	<.002	<.002	.009	.011	<.002
Mercury	mg/L	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
Selenium	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Silver	mg/L	<.020	<.020	<.020	<.020	<.008	<.008	<.008	<.008

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	CLJ-CSS-41	CLJ-CSS-42	CLJ-CSS-43	CLJ-CSS-44	CLJ-CSS-45	CLJ-CSS-46
ASC Sample Number:	JM4361	JM4362	JM4363	JM4364	JM4365	JM4366
Sample Date:	940303	940303	940303	940303	940303	940303
Facility Code:	015226N	015226N	015226N	015226N	015226N	015226N

Parameters Units

**Conventional Data (CV10)**

pH (Electrode)	std	3.94	3.99	4.58	3.93	4.77	4.23
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**RCRA TCLP Leachate Metals Analysis, (ME52)**

Arsenic	mg/L	<.001	<.001	<.001	<.001	<.001	<.001
Barium	mg/L	.268	.300	.296	.260	.344	.297
Cadmium	mg/L	.003	.001	<.001	.001	<.005	<.001
Chromium	mg/L	.005	<.004	<.004	<.004	<.020	.006
Lead	mg/L	.019	.011	<.002	.083	.005	<.002
Mercury	mg/L	<.0001	<.0001	<.001	<.0001	<.001	<.001
Selenium	mg/L	<.001	<.001	<.001	<.001	<.001	<.001
Silver	mg/L	<.008	<.008	<.008	<.008	<.020	<.008



Analytical Services Corp.

## ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis  
Bill Perry

**Project:** 15226N - NEESA; Camp LeJeune, Jacksonville, NC

**Sample(s):** CLJ-CSS-33 through CLJ-CSS-46

**Sample Type(s):** Solid

**Analysis Performed:** Conventional and RCRA TCLP Leachate Parameters

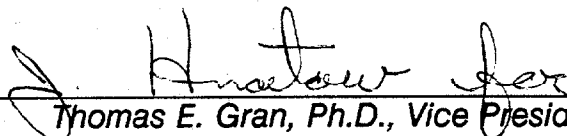
**Date Sample Received:** March 7, 1994

**Date Order Received:** March 7, 1994

**Joblink(s):** 615320

*This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.*

Reviewed and  
Approved by:

  
Thomas E. Gran, Ph.D., Vice President

Date: 5-20-94

## SUMMARY OF ANALYTICAL METHODOLOGY

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<b>Parameter</b>	<b>Reference</b>	<b>Method</b>
<b>Conventionals</b>		
pH, Electrode (soil)	CLP	1.7.1.1
<b>RCRA TCLP</b>		
Leachate Preparation	SW-846	1311
Metals (except mercury)	SW-846	6010
Mercury by Cold Vapor	SW-846	7470

## SDG NARRATIVE

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### Conventionals

The pH results are in standard units not mg/kg.

The method qualifier for pH (Electrode) is "pH". The CLP manual does not address this result or the method for reporting.

### TCLP Metals

Since the samples were analyzed for TCLP analytes the items listed (color before, artifacts, etc.) at the bottom of Form I-IN were not reported.

All of the Initial and Continuing Calibration verifications were inside the QC limits.

Due to the bottles used for the TCLP leachate preparation a small amount of Barium is present in the samples. The level is well below any level of concern for this project using this analysis. ASC believes that this will not affect the validity of data for this project.

The ICP Interference Check samples were within the required QC criteria.

The matrix spike and post spike recoveries for Arsenic were outside control limits. All Arsenic data associated with the spike for Sample #CLJ-DS-11D have been flagged with the appropriate qualifier.

The matrix spike recovery for Selenium and the Duplicate result for Lead were outside control limits for Sample #CLJ-CSS-42. All samples associated with these results have been flagged with the appropriate qualifier.

The laboratory Control Sample exhibited recoveries with a range between 64 to 127%.

Autosamplers were not utilized for the ICP analysis. The CLP SOW requires samples to be analyzed at the same time interval from sample to sample. Since autosamplers were not utilized, the manual aspirations were kept at the same time interval as closely as possible. This has no impact on the validity of the data as reported.

Autosampler problems were encountered during the Arsenic LCS analysis. All samples analyzed when the problems occurred were re-analyzed. Some sample matrix interferences were noted for Arsenic and Selenium analyses. All Lead analyses required a 5x dilution due to severe sample matrix interferences.



## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services CorpContract: NeesaLab Code: NA Case #: NASAS #: NA SDG #: CLJ-CSS-33 <sup>N/A NA</sup>DW No.: NA

## EPA Sample No.

## Lab Sample ID.

CLJ-CSS-33JM4353CLJ-CSS-34JM4354CLJ-CSS-35JM4355CLJ-CSS-36JM4356CLJ-CSS-37JM4357CLJ-CSS-38JM4358CLJ-CSS-39JM4359CLJ-CSS-40JM4360CLJ-CSS-41JM4361CLJ-CSS-42JM4362

Were ICP interelement corrections applied?

Yes/NO Yes

Were ICP background corrections applied?

Yes/NO Yes

If YES - were raw data generated before application of background corrections?

Yes/NO NoCOMMENTS: See SDG Narrative

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

Signature: J. HnatowName: Joseph HnatowDate: 5/16/94Title: Operations Manager

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA SDG #: ~~CLS-355-3~~ <sup>N/A</sup>

DW No.: NA

**EPA Sample No.**

**Lab Sample ID.**

CLS-CSS-43

JM 4363

CLS-CSS-44

JM 4364

CLS-CSS-45

JM 4365

CLS-CSS-46

JM 4366

~~CLS-DS-10~~

~~JM 4367~~

~~CLS-DS-11~~

~~JM 4368~~

~~CLS-DS-11D~~

~~JM 4369~~

Were ICP interelement corrections applied?

Yes/NO Yes

Were ICP background corrections applied?

Yes/NO Yes

If YES - were raw data generated before application of background corrections?

Yes/NO No

COMMENTS: See SDG Narrative

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

Signature: J. Hnataw

Name: Joseph Hnataw

Date: 5/16/94

Title: OPERATIONS MANAGER

# INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-655-33  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-655-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4353  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	168			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U		F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLS-CSS-34  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLS-CSS-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4354  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	249			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U	W	F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLJ-CSS-35*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLJ-CSS-3*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM4355*  
 % Solids: \_\_\_\_\_ Date Received: *03/07/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	325			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	2.3	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	41.5			F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0006

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-36  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-3  
 Matrix: (soil/water) WATER Level: (low/med) low Lab Sample ID: JM4356  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	300			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.4	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U		F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-37

Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-37

Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4357

% Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	258			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U	W	F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0008

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-655-38  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-655-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4358  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	4		F
7440-39-3	Barium	430			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	4.0	B		P
7440-47-3	Chromium	6.6	B		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	93.7			F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_



# INORGANIC ANALYSIS DATA SHEET (1)

0009

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-39  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4359  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	248			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.3	B		P
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U		F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0010

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-655-4C  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-655-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4360  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	285			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U	W	F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

## INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLJ-655-41*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLJ-655-3*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM4361*  
 % Solids: \_\_\_\_\_ Date Received: *03/07/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	<i>NR</i>			
7440-36-0	Antimony	<i>NR</i>			
7440-38-2	Arsenic	<i>1.0</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>268</i>			<i>P</i>
7440-41-7	Beryllium	<i>NR</i>			
7440-42-8	Boron	<i>NR</i>			
7440-43-9	Cadmium	<i>2.9</i>	<i>B</i>		<i>P</i>
7440-47-3	Chromium	<i>4.6</i>	<i>B</i>		<i>P</i>
7440-48-4	Cobalt	<i>NR</i>			
7439-50-8	Copper	<i>NR</i>			
7439-89-6	Iron	<i>NR</i>			
7439-92-1	Lead	<i>37.4</i>			<i>F</i>
7439-96-5	Manganese	<i>NR</i>			
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum	<i>NR</i>			
7440-02-0	Nickel	<i>NR</i>			
7782-49-2	Selenium	<i>1.3</i>	<i>U</i>	<i>W</i>	<i>F</i>
7440-22-4	Silver	<i>8.0</i>	<i>U</i>		<i>P</i>
7440-24-6	Strontium	<i>NR</i>			
7440-28-0	Thallium	<i>NR</i>			
7440-62-2	Vanadium	<i>NR</i>			
7440-66-6	Zinc	<i>NR</i>			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

0012

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLI-CSS-42  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLI-CSS-3  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4362  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	300			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.2	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	11.1			F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1)

0013

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-43  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-43  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4363  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	296			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U		F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

## INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLJ-255-44*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLJ-255-3*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM4364*  
 % Solids: \_\_\_\_\_ Date Received: *03/07/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	2.60			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.4	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	33.2		W	F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0015

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLI-CSS-45*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLI-CSS-3*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM 4365*  
 % Solids: \_\_\_\_\_ Date Received: *03/07/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	<i>NR</i>			
7440-36-0	Antimony	<i>NR</i>			
7440-38-2	Arsenic	<i>1.0</i>	<i>U</i>	<i>W</i>	<i>F</i>
7440-39-3	Barium	<i>344</i>			<i>P</i>
7440-41-7	Beryllium	<i>NR</i>			
7440-42-8	Boron	<i>NR</i>			
7440-43-9	Cadmium	<i>1.1</i>	<i>U</i>		<i>P</i>
7440-47-3	Chromium	<i>4.2</i>	<i>U</i>		<i>P</i>
7440-48-4	Cobalt	<i>NR</i>			
7439-50-8	Copper	<i>NR</i>			
7439-89-6	Iron	<i>NR</i>			
7439-92-1	Lead	<i>2.3</i>	<i>U</i>	<i>W</i>	<i>F</i>
7439-96-5	Manganese	<i>NR</i>			
7439-97-6	Mercury	<i>0.72</i>			<i>CV</i>
7439-98-7	Molybdenum	<i>NR</i>			
7440-02-0	Nickel	<i>NR</i>			
7782-49-2	Selenium	<i>1.3</i>	<i>U</i>	<i>W</i>	<i>F</i>
7440-22-4	Silver	<i>8.0</i>	<i>U</i>		<i>P</i>
7440-24-6	Strontium	<i>NR</i>			
7440-28-0	Thallium	<i>NR</i>			
7440-62-2	Vanadium	<i>NR</i>			
7440-66-6	Zinc	<i>NR</i>			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0016

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-46  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-46  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM4366  
 % Solids: \_\_\_\_\_ Date Received: 03/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum	NR			
7440-36-0	Antimony	NR			
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	297			P
7440-41-7	Beryllium	NR			
7440-42-8	Boron	NR			
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	NR			
7439-50-8	Copper	NR			
7439-89-6	Iron	NR			
7439-92-1	Lead	2.3	U	E	F
7439-96-5	Manganese	NR			
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum	NR			
7440-02-0	Nickel	NR			
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium	NR			
7440-28-0	Thallium	NR			
7440-62-2	Vanadium	NR			
7440-66-6	Zinc	NR			

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: Severe interference was noted for lead  
in this sample 5X diluted post spike was 7.7% Rec.



# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0017

Lab Name: Analytical Services Corp

Contract: Nesca

Lab Code: NA Case #: NA

SAS #: NA

SDG #: 43-65-3  
*N/A*

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic	32.8	34.7	106	20.5	22.1	108	20.9	102	F
Barium	9240	9340	101	4740	4680	103	4660	98.3	P
Beryllium									
Boron									
Cadmium	2530	2630	104	1260	1320	105	1310	104	P
Chromium	973	1000	103	484	504	104	504	104	P
Cobalt									
Copper									
Iron									
Lead	35.3	37.6	107	21.2	20.2	95.3	20.7	97.6	F
Manganese									
Mercury	5.0	5.4	108	5.0	5.6	112	5.4	108	CV
Molybdenum									
Nickel									
Selenium									
Silver	1260	1280	102	579	598	103	600	104	P
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0018

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CL-655-32  
*NA #1*

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminium									
Antimony									
Arsenic				20.5	20.8	101	21.6	105	F
Barium				4740	4660	98.3	4650	98.2	P
Beryllium									
Boron									
Cadmium				1260	1290	102	1290	102	P
Chromium				484	502	104	498	103	P
Cobalt									
Copper									
Iron									
Lead				21.2	21.2	100	22.2	105	F
Manganese									
Mercury	5.0	5.0	100	5.0	4.6	92	4.6	92	CV
Molybdenum									
Nickel									
Selenium									
Silver				579	595	103	596	103	P
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0019

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CL-655-33  
*N/A*

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				20.5	21.2	103	22.2	108	F
Barium				4740	4680	98.7			P
Beryllium									
Boron									
Cadmium				1260	1290	102			P
Chromium				484	506	105			P
Cobalt									
Copper									
Iron									
Lead				21.2	22.6	107	22.8	108	F
Manganese									
Mercury				5.0	5.2	104	5.2	104	CV
Molybdenum									
Nickel									
Selenium									
Silver				579	593	102	5.		P
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0020

Lab Name: Analytical Services Corp

Contract: Neesa  
NA NA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: 65-655-3

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				20.5	21.8	106			F
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				21.2	21.0	99.1	21.6	102	F
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0021

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CL-65*

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: *NIST*

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				<i>21.2</i>	<i>21.6</i>	<i>102</i>	<i>21.9</i>	<i>103</i>	<i>F</i>
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0022

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *643-655-3*

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: *NIST*

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				21.2	22.2	105	23.2	109	F
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0023

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: ~~65-655-5~~ <sup>N/A</sup>

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				21.2	21.2	100			
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0024

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: APG

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	39.1	38.5	98.5	23.5	25.5	109	24.2	103	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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



# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A) 0025

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: 655 655 33

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium				23.5	22.9	97.4	22.7	96.6	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0026

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: 65-65-3 <sup>NIP M</sup>

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium				23.5	23.1	98.3	24.1	103	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0027

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: N/A

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium				23.5	21.5	91.5	23.7	101	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

(2A)

0028

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: N/A

Case #: N/A

SAS #: NA

SDG #: ~~44-55~~ N/A

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminium									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium				23.5	21.9	93.2	22.6	96.2	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# CRDL STANDARD FOR AA AND ICP (2B)

0029

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA* Case #: *NA*

SAS #: *NA*

SDG #: *NA*  
~~18553~~

AA CRDL Standard Source: *Ventures*

ICP CRDL Standard Source: *Ventures*

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	Initial True	Initial Found	Initial %R(1)	Final Found	Final %R(1)
Aluminum								
Antimony								
Arsenic	<i>10.0</i>	<i>11.5</i>	<i>115</i>					
Barium				<i>402</i>	<i>388</i>	<i>96.4</i>	<i>384</i>	<i>95.6</i>
Beryllium								
Boron								
Cadmium				<i>10.8</i>	<i>9.67</i>	<i>89.5</i>	<i>9.25</i>	<i>85.6</i>
Chromium				<i>21.0</i>	<i>21.8</i>	<i>104</i>	<i>23.3</i>	<i>111</i>
Cobalt								
Copper								
Iron								
Lead	<i>3.0</i>	<i>3.8</i>	<i>127</i>					
Manganese								
Mercury	<i>0.2</i>	<i>0.15</i>	<i>75.0</i>					
Molybdenum								
Nickel								
Selenium								
Silver				<i>22.0</i>	<i>14.2</i>	<i>64.5</i>	<i>14.2</i>	<i>64.5</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B) 0030

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

AA CRDL Standard Source: *NIST*

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	Initial True	Initial Found	Initial %R(1)	Final Found	Final %R(1)
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	<i>0.2</i>	<i>0.16</i>	<i>80</i>					
Molybdenum								
Nickel								
Selenium	<i>5.1</i>	<i>4.0</i>	<i>78.4</i>					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# BLANKS (3)

0031

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum											
Antimony											
Arsenic	1.3	U	-0.2	U	-0.4	U	-0.4	U	0.2	U	F
Barium	0.5	U	0.8	U	0.5	U	1.1	U	0.5	U	P
Beryllium											
Boron											
Cadmium	-0.5	U	-0.6	U	-0.6	U	0.2	U	-0.4	U	P
Chromium	-1.0	U	-0.9	U	1.2	U	2.2	U	1.0	U	P
Cobalt											
Copper											
Iron											
Lead	-1.6	U	-1.4	U	-1.4	U	-1.3	U	-0.9	U	F
Manganese											
Mercury	-0.22	B	-0.15	B	-0.12	U	-0.15	B	-0.18	B	CV
Molybdenum											
Nickel											
Selenium	-1.4	B	-0.8	U	-1.2	U	-0.4	U	-1.1	U	F
Silver	-4.2	U	-1.2	U	-4.5	U	-0.5	U	-3.7	U	P
Strontium											
Thallium											
Vanadium											
Zinc											

# BLANKS (3)

0032

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*  
*CLT-65513*

Prep Blank Matrix: (soil/water) *WATER*

Prep Blank Concentration Units: (ug/L or mg/kg) *ug/L*

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	(ug/L)	C	1	C	2	C	3	C	C	C	
Aluminum											
Antimony											
Arsenic			-0.3	U	-0.7	U	0.1	U			
Barium			0.3	U	0.4	U					
Beryllium											
Boron											
Cadmium			-0.6	U	-0.8	U					
Chromium			-0.7	U	0.3	U					
Cobalt											
Copper											
Iron											
Lead			-0.9	U	-1.3	U	-1.3	U	-0.7	U	F
Manganese											
Mercury	-0.14	B	0.01	U	-0.01	U	0.02	U	0.02	U	CV
Molybdenum											
Nickel											
Selenium			-1.3	B	-1.8	B	-1.8	B	-0.4	U	F
Silver			-4.0	U	-2.7	U					
Strontium											
Thallium											
Vanadium											
Zinc											



# BLANKS (3)

0033

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *23 NA 13*

Prep Blank Matrix: (soil/water) *WATER*

Prep Blank Concentration Units: (ug/L or mg/kg) *ug/L*

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank		M
			1	C	2	C	3	C	C	C	
Aluminum											
Antimony											
Arsenic			<i>-0.1</i>	<i>U</i>							
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			<i>-1.4</i>	<i>U</i>	<i>-1.0</i>	<i>U</i>	<i>-1.1</i>	<i>U</i>			<i>F</i>
Manganese											
Mercury			<i>.01</i>	<i>U</i>							<i>CV</i>
Molybdenum											
Nickel											
Selenium			<i>-0.8</i>	<i>U</i>	<i>-0.8</i>	<i>U</i>	<i>-0.2</i>	<i>U</i>			<i>F</i>
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

# BLANKS (3)

0034

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

Prep Blank Matrix: (soil/water) *WATER*

Prep Blank Concentration Units: (ug/L or mg/kg) *ug/L*

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	(ug/L)	C	1	C	2	C	3	C	C	M	
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			<i>-1.3</i>	<i>u</i>	<i>-1.3</i>	<i>u</i>	<i>-0.9</i>	<i>u</i>			<i>F</i>
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium			<i>-1.2</i>	<i>u</i>							<i>F</i>
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

# BLANKS (3)

0035

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

Prep Blank Matrix: (soil/water) *WATER*

Prep Blank Concentration Units: (ug/L or mg/kg) *ug/L*

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
	(ug/L)	C	1	C	2	C	3	C	C	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			<i>-1.0</i>	<i>4</i>							
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium											
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

# ICP INTERFERENCE CHECK SAMPLE (4) 0036

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA-NA-3*

ICP ID #: *61*

ISC Source: *Venture*

Concentration Units: ug/L

ANALYTE	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium	<i>φ</i>	<i>471</i>	<i>2.0</i>	<i>420</i>	<i>99.6</i>	<i>1.7</i>	<i>462</i>	<i>98.0</i>
Beryllium								
Boron								
Cadmium	<i>φ</i>	<i>874</i>	<i>-7.9</i>	<i>929</i>	<i>106</i>	<i>-8.4</i>	<i>898</i>	<i>103</i>
Chromium	<i>φ</i>	<i>462</i>	<i>-5.3</i>	<i>477</i>	<i>103</i>	<i>-6.8</i>	<i>464</i>	<i>100</i>
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	<i>φ</i>	<i>923</i>	<i>-9.7</i>	<i>943</i>	<i>102</i>	<i>-7.2</i>	<i>921</i>	<i>99.8</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# SPIKE SAMPLE RECOVERY (5A)

0037

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CL5-CSS-4  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: NA  
 Matrix: (soil/water) WATER      Level (low/med): LOW      % Solids for Sample: \_\_\_\_\_

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)		SAMPLE RESULT (SR)		SPIKE ADDED (SA)	%R	Q	M
			C		C				
Aluminum									
Antimony									
Arsenic	75-125	20.8		-0.7	U	20	104		F
Barium	75-125	9700		300		10400	90.4		P
Beryllium									
Boron									
Cadmium	75-125	995		1.2	B	1050	94.6		P
Chromium	75-125	5110		3.5	U	5430	94.1		P
Cobalt									
Copper									
Iron									
Lead	75-125	34.3		11.1		20.0	116		F
Manganese									
Mercury	75-125	1.86		-0.12	U	2.0	93		CV
Molybdenum									
Nickel									
Selenium	75-125	17.0		-0.7	U	20.0	70	N	F
Silver	75-125	86.0		-3.0	U	93.5	92.0		P
Strontium									
Thallium									
Vanadium									
Zinc									

COMMENTS: \_\_\_\_\_

**SPIKE SAMPLE RECOVERY (5A)**

Lab Name: Analytical Services Corp Contract: Neesa EPA Sample #: 42-05-112  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level (low/med): LOW % Solids for Sample: \_\_\_\_\_

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)		SAMPLE RESULT (SR)		SPIKE ADDED (SA)	%R	Q	M
			C		C				
Aluminum									
Antimony									
Arsenic	75-125	13.1		-1.3	4	20	65.5	N	F
Barium	75-125	9410		108		10400	89.4		P
Beryllium									
Boron									
Cadmium	75-125	977		9.9		1050	92.1		P
Chromium	75-125	5030		6.9		5430	92.5		P
Cobalt									
Copper									
Iron									
Lead	75-125	85.2		64.8		20	102		F
Manganese									
Mercury	75-125	2.47		.05	4	2.0	124		CV
Molybdenum									
Nickel									
Selenium	75-125	16.7		0.1	4	20.0	83.5		F
Silver	75-125	89.4		-1.8	4	93.5	95.6		P
Strontium									
Thallium									
Vanadium									
Zinc									

COMMENTS: \_\_\_\_\_

POST DIGEST SPIKE SAMPLE RECOVERY (5B)

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

EPA Sample #: *CT-05-111*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

IC Matrix: (soil/water) *WATER*

Level (low/med): *LOW*

Concentration Units: ug/L

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR) C	SAMPLE RESULT (SR) C	SPIKE ADDED (SA)	%R	Q	M
Aluminum							
Antimony							
Arsenic	75-125	13.1	-0.3 U	20	65.5	N	F
Barium	75-125	9410	108	10400	89.4		P
Beryllium							
Boron							
Cadmium	75-125	977	9.9	1050	92.1		P
Chromium	75-125	5030	6.9	5430	92.5		P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	75-125	89.4	-1.8 U	93.5	95.6		P
Srontium							
Thallium							
Vanadium							
Zinc							

COMMENTS: \_\_\_\_\_

# DUPLICATES (6)

0040

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

EPA Sample #: *CLJ-655-4*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA 113*

Matrix: (soil/water) *WATER*

% Solids for Sample: \_\_\_\_\_

Level (low/med): *LOW*

% Solids for Duplicate: \_\_\_\_\_

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
					C			
Aluminum								
Antimony								
Arsenic		<i>-0.7</i>	<i>U</i>	<i>-0.7</i>	<i>U</i>			<i>F</i>
Barium	<i>20</i>	<i>300</i>		<i>298</i>		<i>0.7</i>		<i>P</i>
Beryllium								
Boron								
Cadmium		<i>1.2</i>		<i>1.1</i>		<i>8.7</i>		<i>P</i>
Chromium		<i>3.5</i>	<i>U</i>	<i>3.3</i>	<i>U</i>			<i>P</i>
Cobalt								
Copper								
Iron								
Lead		<i>11.1</i>	<i>B</i>	<i>19.2</i>		<i>53</i>		<i>P</i>
Manganese								
Mercury		<i>-0.12</i>	<i>U</i>	<i>-0.06</i>	<i>U</i>			<i>CV</i>
Molybdenum								
Nickel								
Selenium		<i>-0.7</i>	<i>U</i>	<i>-0.5</i>	<i>U</i>			<i>F</i>
Silver		<i>-3.0</i>	<i>U</i>	<i>-1.7</i>	<i>U</i>			<i>P</i>
Strontium								
Thallium								
Vanadium								
Zinc								



# DUPLICATES (6)

0041

Lab Name: *Analytical Services Corp*      Contract: *Neesa*      EPA Sample #: *CLJ-DS-1*  
 Lab Code: *NA*      Case #: *NA*      SAS #: *NA*      SDG #: *NA*  
 Matrix: (soil/water) *WATER*      % Solids for Sample: \_\_\_\_\_  
 Level (low/med): *LOW*      % Solids for Duplicate: \_\_\_\_\_

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)		DUPLICATE (D)		RPD	Q	M
			C		C			
Aluminum								
Antimony								
Arsenic		<i>- 0.3</i>	<i>U</i>	<i>0.1</i>	<i>U</i>			<i>F</i>
Barium	<i>20</i>	<i>108</i>		<i>104</i>		<i>3.8</i>		<i>P</i>
Beryllium								
Boron								
Cadmium	<i>20</i>	<i>9.9</i>		<i>9.4</i>		<i>5.2</i>		<i>P</i>
Chromium		<i>6.9</i>	<i>B</i>	<i>2.4</i>	<i>U</i>			<i>P</i>
Cobalt								
Copper								
Iron								
Lead	<i>20</i>	<i>64.8</i>		<i>63.1</i>		<i>3.0</i>		<i>P</i>
Manganese								
Mercury		<i>.05</i>	<i>U</i>	<i>.07</i>	<i>U</i>			<i>CV</i>
Molybdenum								
Nickel								
Selenium		<i>0.1</i>	<i>U</i>	<i>0.2</i>	<i>U</i>			<i>F</i>
Silver		<i>- 1.8</i>	<i>U</i>	<i>- 4.3</i>	<i>U</i>			<i>P</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# LABORATORY CONTROL SAMPLE (7)

0042

Lab Name: Analytical Services Corp

Contract: Neesa  
 SDG #: NA 11  
~~CS-55-3~~

Lab Code: NA Case #: NA

SAS #: NA

Liquid LCS Source: Ventures

Aqueous LCS Source: \_\_\_\_\_

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	20.0	100					
Barium	10400	9194	88.4					
Beryllium								
Boron								
Cadmium	1050	948	90.3					
Chromium	5430	4910	90.4					
Cobalt								
Copper								
Iron								
Lead	20.0	21.4	107					
Manganese								
Mercury	2.0	2.0	100					
Molybdenum								
Nickel								
Selenium	20.0	19.3	96.5					
Silver	93.5	89.8	96.0					
Strontium								
Thallium								
Vanadium								
Zinc								

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA <sup>mt</sup>

Contract: Neesa

Case #: NA SAS #: NA

SDG #: CLS-CSS-35

Method: F

Instrument ID Number: 51

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLS-CSS-37A		1558	50.6			X																			
CCV		1606				X																			
CCB		1613				X																			
CLS-CSS-38		1620				X																			
CLS-CSS-38A		1628	86.2			X																			
CLS-CSS-39		1635				X																			
CLS-CSS-39A		1642	62.8			X																			
CLS-CSS-40		1650				X																			
CLS-CSS-40A		1657																							
CLS-CSS-40A		1705	69.1			X																			
CLS-CSS-41		1712																							
CLS-CSS-41A		1719	52.2			X																			
TCLP BIK		1727																							
TCLP BIK A		1734																							
CCV		1741				X																			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CL5-655-33 <sup>NA MH</sup>

Method: F

Instrument ID Number: 51

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CCB		1749				X																			
PBW		1756				X																			
PBWA		1804	92.4			X																			
LCSW		1811				X																			
LCSWA		1819	93.1			X																			
CLJ-05-110S		1826				X																			
CLJ-05-110S		1834																							
CLJ-05-110S		1841																							
CLJ-05-110		1849				X																			
CLJ-05-110A		1856	49.8			X																			
CLJ-05-110D		1904				X																			
CLJ-05-110DA		1912	61.0			X																			
CCV		1919				X																			
CCB		1927				X																			
CL5-655-43		1934				X																			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA PA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-33

Method: F

Instrument ID Number: 51

Start Date: 07/19/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-43A		1942	56.5			X																			
CLJ-CSS-44		1949				X																			
CLJ-CSS-44A		1957																							
CLJ-CSS-44A		2005	61.9			X																			
CLJ-CSS-45		2012				X																			
CLJ-CSS-45A		2020																							
CLJ-CSS-45A		2027	53.8			X																			
CLJ-CSS-46		2035				X																			
CLJ-CSS-46A		2042	54.5			X																			
CCV		2050				X																			
CCB		2057				X																			
CLJ-DS-10		2105				X																			
CLJ-DS-10A		2112																							
CLJ-DS-10A		2120	76.7			X																			
CLJ-DS-11		2127				X																			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA <sup>NA NY</sup>

Contract: Neesa

Case #: NA

SAS #: NA

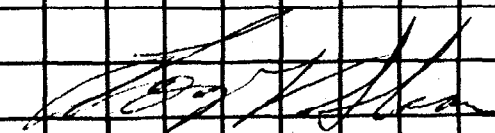
SDG #: CLS-255-55

Method: F

Instrument ID Number: 51

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
CLS-DS-11A		2135	55.3			X																				
TCLP BIK		2142				X																				
TCLP BIK A		2149	76.6																							
TCLP BIK A		2157	67.5			X																				
CCV		2204				X																				
CCB		2212				X																				
 3/25/94																										

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA <sup>NA</sup> <sub>NA</sub>

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: ~~CLJ-85-33~~

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
Cal Blank		1303													X											
S1		1309													X											
S2		1315													X											
S3		1321													X											
S4		1327													X											
ICV		1438																								
ICB		1444																								
ICV		1450													X											
ICB		1456													X											
CRA		1502													X											
PBW		1512													X											
PBWA		1518	105												X											
LCSW		1525													X											
LCSWA		1531	100												X											
CLJ-85-425		1537													X											

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: NA ~~CS-33~~

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-PSS-42S		1544																							
CLJ-CSS-42S		1550																							
CLJ-CSS-42		1556																							
CLJ-CSS-42A		1603																							
CCV		1614																							
CCV		1624													X										
CCB		1630													X										
CLJ-CSS-42S	5	1636													X										
CLJ-CSS-42S	5	1643																							
CLJ-CSS-42	5	1649													X										
CLJ-CSS-42A	5	1655													X										
CLJ-CSS-42D	5	1702													X										
CLJ-CSS-420A	5	1708													X										
CLJ-CSS-33		1714																							
CLJ-CSS-33A		1720																							



## ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA *NA NY*

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-33

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CCV		1728														X									
CCB		1734														X									
CLJ-CSS-33	5	1740														X									
CLJ-CSS-33A	5	1746	111													X									
CLJ-CSS-34		1753																							
CLJ-CSS-34A		1759																							
CLJ-CSS-54	5	1806														X									
CLJ-CSS-34A	5	1812	119													X									
CLJ-CSS-35		1818																							
CLJ-CSS-35A		1824																							
CLJ-CSS-35	10	1832														X									
CLJ-CSS-35A	10	1838	107													X									
CCV		1844														X									
CCB		1850														X									
CLJ-CSS-36		1856																							

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA

Contract: Neesa

Case #: NA SAS #: NA

SDG #: NA-CSS-33

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLT-CSS-36A		1902																							
CLJ-CSS-36	5	1909													X										
CLJ-CSS-36A	5	1915	110											X											
CLT-CSS-37		1921																							
CLJ-CSS-37A		1927																							
CLJ-CSS-37	5	1934												X											
CLJ-CSS-37A	5	1940	114											X											
CLJ-CSS-38		1946																							
CLJ-CSS-38A		1952																							
CCV		2000												X											
CCB		2006												X											
CLT-CSS-38	25	2012												X											
CLJ-CSS-38A	25	2018	115											X											
CLJ-CSS-39		2025																							
CLJ-CSS-39A		2031																							

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-33

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-39	5	2037																							
CLJ-CSS-39	5	2043													X										
CLJ-CSS-39A	5	2049	113												X										
CLJ-CSS-40		2055																							
CLJ-CSS-40A		2101																							
CCV		2109													X										
CCB		2115													X										
CLJ-CSS-40	5	2121													X										
CLJ-CSS-40A	5	2127	117												X										
CLJ-CSS-41		2133																							
CLJ-CSS-41A		2139																							
CLJ-CSS-41		2145																							
CLJ-CSS-41		2152													X										
CLJ-CSS-41A		2158	109												X										
TCLP DLK		2204																							

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-255-33

Method: F

Instrument ID Number: 41

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
TCLP BKA		2210																							
CCV		2220													X										
CCB		2226													X										
TCLP BIK		2233													X										
TCLP BKA		2239													X										
PBW		2245													X										
PBWA		2251	91.7												X										
LCSW		2257																							
LCSW		2304													X										
LCSWA		2310	103												X										
CLJ-05-1108		2316																							
CLJ-05-1109		2322																							
CLJ-05-1105		2329																							
CCV		2335													X										
CCB		2341													X										

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: ~~CLJ-CSS-33~~ NA

Method: F

Instrument ID Number: 71

Start Date: 03/16/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-11A		2347																							
CLJ-CSS-11A		2354																							
CLJ-CSS-11DA		0000																							
CLJ-CSS-11DS	5	0010																							
CLJ-CSS-11DS	5	0017																							
CLJ-CSS-11D	5	0023																							
CLJ-CSS-11DA	5	0029	107																						
CLJ-CSS-11DD	5	0032																							
CLJ-CSS-11DS	5	0042	103																						
CCV		0048																							
CCB		0054																							
CLJ-CSS-43		0101																							
CLJ-CSS-43A		0107																							
CLJ-CSS-43	5	0114																							
CLJ-CSS-43A	5	0120	108																						

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA 11

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-55

Method: F

Instrument ID Number: 41

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-44		0126																							
CLJ-CSS-44		0133																							
CLJ-CSS-44		0140																							
CLJ-CSS-44		0146																							
CLJ-CSS-44		0153																							
CCV		0159													X										
CCV		0206													X										
CLJ-CSS-44		0212																							
CLJ-CSS-44	10	0217													X										
CLJ-CSS-44A	10	0224	120												X										
CLJ-CSS-45		0230																							
CLJ-CSS-45A		0236																							
CLJ-CSS-45	5	0244													X										
CLJ-CSS-45A	5	0250	108												X										
CLJ-CSS-46		0256																							

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neosa

Case #: NA

SAB #: NA

SDG #: NA NA  
CLJ-CSS-46A

Method: F

Instrument ID Number: 41

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-46A		0302																							
CCV		0309																							
CCB		0315																							
CLJ-CSS-46	5	0321																							
CLJ-CSS-46A	5	0327	7.7																						
CLJ-DS-10		0326																							
CLJ-DS-10		0342																							
CLJ-DS-10A		0348																							
CLJ-DS-10	5	0354																							
CLJ-DS-10A	5	0400	11.7																						
CLJ-DS-11		0407																							
CLJ-DS-11A		0413																							
CCV		0419																							
CCV		0425																							
CCV		0428																							

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: ~~CLJ-DS-33~~ NA 33

Method: F

Instrument ID Number: 41

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																										
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N					
CCV		0434														X														
CCB		0440														X														
CLJ-DS-11		0446																												
CLJ-DS-11		0452																												
CLJ-DS-11A		0458																												
CCV		0505																												
CCV		0511														X														
CCB		0518																												
CLJ-DS-11		0522																												
CCB		0528														X														
CLJ-DS-11		0534																												
CLJ-DS-11	100	0541														X														
CLJ-DS-11A	100	0547	108																											
TCLP BIK		0553																												
TCLP BIK A		0559																												



# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA ~~NA~~

Contract: Neesa

Case #: NA

SAS #: NA

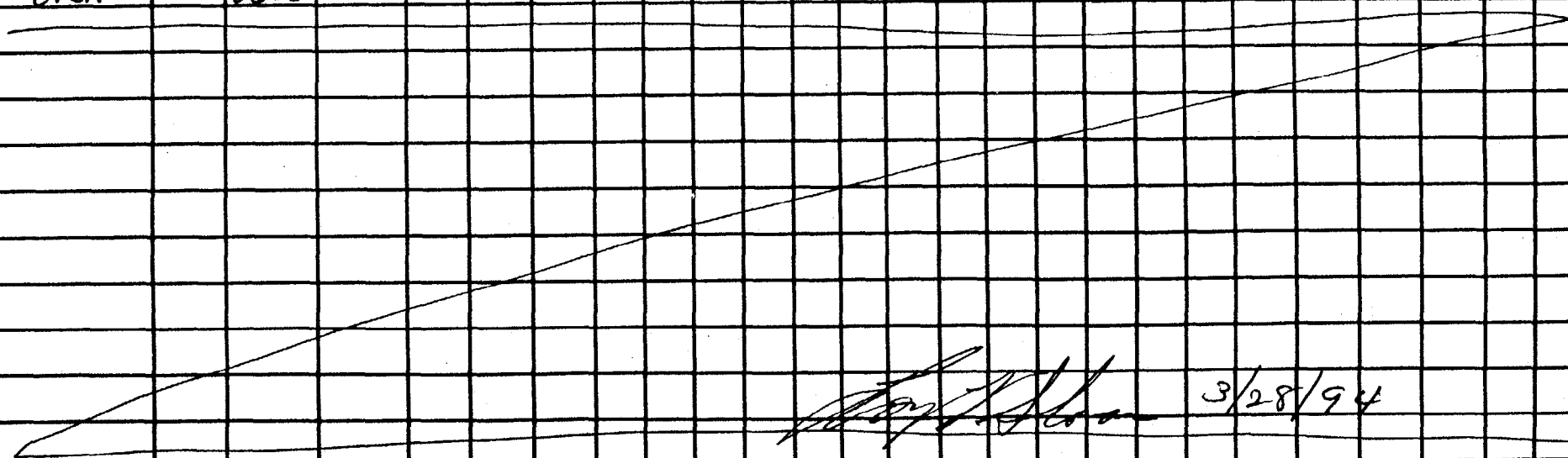
SDG #: CLF CSS-33

Method: F

Instrument ID Number: 71

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
TCLP BIK	5	0605													X										
TCLP BIK A	5	0612	115												X										
CCV		0618													X										
CCB		0624													X										
CRA		0630																							
																									

*[Signature]* 3/28/94

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA <sup>NA</sup> ~~NA~~

Contract: Neesa

Case #: NA SAS #: NA

SDG #: 615-555-33

Method: F

Instrument ID Number: 51

Start Date: 3/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S E	A G	S R	T L	V	Z N
Cal Blank		1259																	X						
51		1305																	X						
52		1312																	X						
53		1319																	X						
54		1326																	X						
55		1333																	X						
56		1339																	X						
1 CV		1444																	X						
1 CB		1451																	X						
CRA		1458																							
CRA		1505																	X						
PBW		1512																	X						
PBW A		1519																							
PBW A		1526	87.0																X						
LCSW		1533																	X						





# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA <sup>NA</sup> ~~NA~~

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: ~~CLJ-CSS-33~~

Method: F

Instrument ID Number: 51

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S E	A G	S R	T L	V	Z N		
CLJ-CSS-38A		1915																									
CLJ-CSS-38A		1922	51.0																								
CLJ-CSS-39		1929																									
CLJ-CSS-39A		1935	40.0																								
CLJ-CSS-40		1942																									
CCV		1958																									
CCB		2005																									
CLJ-CSS-40		2012																									
CLJ-CSS-40A		2018																									
CLJ-CSS-40A		2025	56.0																								
CLJ-CSS-41		2032																									
CLJ-CSS-41A		2039																									
CLJ-CSS-41A		2046	63.0																								
TCLP BIK		2053																									
TCLP BIK		2100	53.0																								

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA NA ME

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: 445-55-33

Method: F

Instrument ID Number: 51

Start Date: 03/16/94

End Date: 03/16/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S E	A G	S R	T L	V	Z N
CCV		2108																	X						
CCB		2115																	X						
PBW		2121																							
PBWA		2128																							
CCV		2136																	X						
CCB		2143																	X						
PBW		2150																							
PBW		2157																							
PBWA		2204																							
PBW		2214																	X						
PBWA		2221	109																X						
LCSW		2228																							
LCSW		2235																	X						
LCSWA		2242	97.4																X						
CLT-05-110S		2249																	X						















# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

BDG #: 613-CSS-33

Method: CV

Instrument ID Number: 200

Start Date: 03/17/94

End Date: 03/17/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V
CLJ-CSS-38		1132																						
CLJ-CSS-39		1135																						
CLJ-CSS-40		1138																						
CLJ-CSS-41		1141																						
TCLP Blank		1145																						
Z		1148																						
Z		1151																						
Z		1154																						
CCB		1158																						
CEV		1201																						
<i>[Signature]</i>																								

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLT-655-33

Method: CV

Instrument ID Number: 200

Start Date: 03/15/94

End Date: 03/15/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
51		1327															X									
51		1331															X									
51		1334															X									
52		1337															X									
52		1341															X									
52		1344															X									
53		1348															X									
53		1351															X									
53		1354															X									
54		1358															X									
54		1401															X									
54		1404															X									
55		1408															X									
55		1411															X									
55		1415															X									









# INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

0091

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa  
 Case #: NA      SAS #: NA      SDG #: 615-68-33 ICP ID #: 61  
 Date: 2-15-94      Flame AA ID #: \_\_\_\_\_      Furnace AA ID #: 51

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic			10		
Barium	493.41		200	1.0	P
Beryllium			5		
Boron					
Cadmium	214.44		5	1.1	P
Chromium	267.72		10	4.2	P
Cobalt			50		
Copper			100		
Iron			100		
Lead	220.35		5	18.4	P
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5	-	
Silver	328.07		10	8.0	P
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

# INSTRUMENT DETECTION LIMITS - QUARTERLY (11) 0092

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neosa  
 Case #: NA      SAS #: NA      SDG #: NA M CL-21-33 ICP ID #: \_\_\_\_\_  
 Date: 2-11-94      Flame AA ID #: \_\_\_\_\_      Furnace AA ID #: 51

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic	193.7	BZ	10	1.0	F
Barium			200		
Beryllium			5		
Boron					
Cadmium			5		
Chromium			10		
Cobalt			50		
Copper			100		
Iron			100		
Lead	283.3	BZ	3	2.0	F
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium	196.00	BZ	5	1.3	F
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

# INSTRUMENT DETECTION LIMITS - QUARTERLY (11) 0093

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa  
 Case #: NA      SAS #: NA      SDG #: NA MM ~~CL-23-33~~      ICP ID #: \_\_\_\_\_  
 Date: 2-11-94      Flame AA ID #: \_\_\_\_\_      Furnace AA ID #: 41

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminium			200		
Antimony			60		
Arsenic	193.7	BZ	10	1.4	F
Barium			200		
Beryllium			5		
Boron					
Cadmium			5		
Chromium			10		
Cobalt			50		
Copper			100		
Iron			100		
Lead	283.3	BZ	3	2.3	F
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5		
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

# ICP INTERELEMENT CORRECTION FACTORS -0094 QUARTERLY (12A)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: NA 174  
~~CLJ-653~~ ICP ID #: 61

Date: \_\_\_\_\_

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	V
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium	214.44	.00007		.000046		-.00021
Chromium	267.72					.00008
Cobalt						
Copper						
Iron						
Lead	220.35	.001195		.000104		
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07					-.00242
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: \_\_\_\_\_

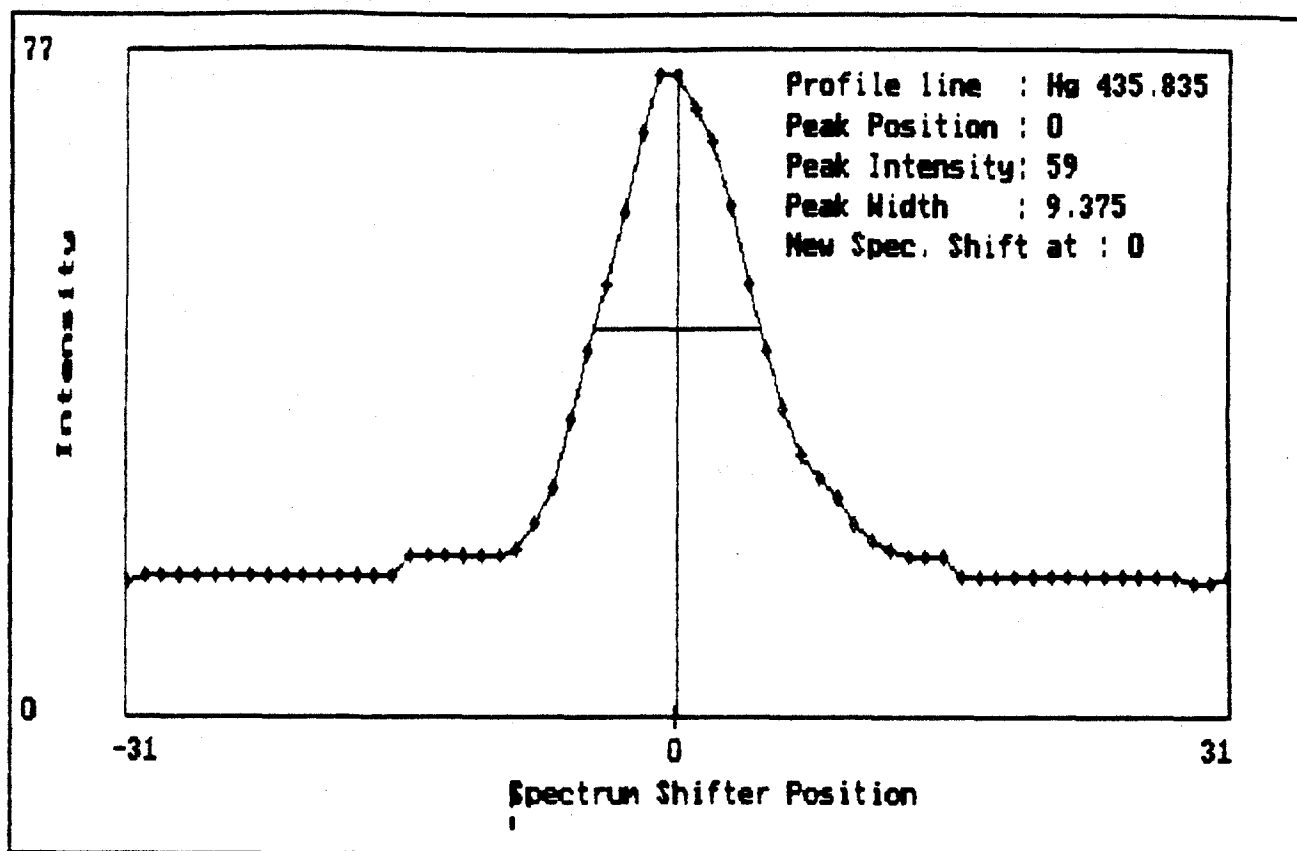
# ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12B)

0095

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa  
 Case #: NA      SAS #: NA      SDG #: ~~61-63~~ <sup>NA</sup> 33 ICP ID #: 61  
 Date: \_\_\_\_\_

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Mo	Mn	Cr	Co	Ni
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium	214.44					
Chromium	267.72	- .00048	.00022			
Cobalt						
Copper						
Iron						
Lead	220.35			.00078	-.0191	.000753
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07	.00084	.00011			
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



Method: ICAP3

Standard: STD1-Blank

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avgc	.0000	-.0002	.0029	.0017	-.0014	-.0022	.0023
SDev	.0006	.0001	.0048	.0023	.0057	.0037	.0014
%RSD	.0000	51.16	161.5	138.9	391.7	168.7	61.86
#1	-.0003	-.0001	.0083	.0043	.0047	.0005	.0007
#2	.0007	-.0002	.0012	.0002	-.0025	-.0007	.0032
#3	-.0003	-.0003	-.0007	.0005	-.0065	-.0063	.0032
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Fe	Al3082
Avgc	-.0002	.0006	.0012	-.0007	-.0343	-.0012	.0008
SDev	.0008	.0003	.0006	.0003	.0169	.0005	.0068
%RSD	458.3	40.57	48.79	35.25	49.16	41.66	812.6
#1	-.0008	.0005	.0005	-.0010	-.0148	-.0017	-.0043
#2	.0007	.0004	.0015	-.0005	-.0433	-.0007	.0085
#3	-.0003	.0009	.0016	-.0007	-.0447	-.0013	-.0017
Elem	Be3130	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179
Avgc	.0007	.0007	.0004	.0006	.0012	-.0011	-.0003
SDev	.0001	.0003	.0005	.0016	.0017	.0028	.0007
%RSD	13.32	35.25	114.6	283.5	149.1	261.5	242.5
#1	.0008	.0005	.0000	.0023	.0000	-.0037	-.0010
#2	.0007	.0010	.0010	.0000	.0003	.0018	.0003
#3	.0007	.0007	.0003	-.0007	.0032	-.0013	-.0002
Elem	Na5889	Sr4215	Co2286	K_7664	V_2924	B_1826	
Avgc	.7661	.0000	.0006	.0197	-.0016	.2058	
SDev	.0058	.0000	.0011	.0052	.0007	.0016	
%RSD	.7603	.0000	196.6	26.42	41.81	.7975	
#1	.7645	.0000	.0017	.0257	-.0020	.2072	
#2	.7725	.0000	-.0005	.0167	-.0008	.2063	
#3	.7612	.0000	.0004	.0167	-.0020	.2040	

Method: ICAP3

Standard: STD3 0729

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avgc	1.896	12.21	35.00	2.072	2.788	3.171	.5601
SDev	.010	.04	.16	.003	.009	.008	.0015
%RSD	.5250	.3670	.4623	.1653	.3139	.2483	.2765
#1	1.903	12.23	34.83	2.072	2.779	3.177	.5588
#2	1.900	12.25	35.15	2.076	2.796	3.162	.5618
#3	1.885	12.16	35.01	2.069	2.787	3.174	.5597
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Avgc	.4669	2.177	3.375	1.516	3.748	5.005	.5696
SDev	.0046	.007	.009	.004	.007	.011	.0013
%RSD	.9868	.3189	.2812	.2703	.1750	.2192	.2235
#1	.4617	2.170	3.369	1.513	3.751	5.002	.5693
#2	.4690	2.184	3.385	1.520	3.753	5.017	.5710
#3	.4702	2.176	3.369	1.513	3.741	4.997	.5685



Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avge	8.705	1.217	7.548	17.38	17.30	6.708	.3557
SDev	.025	.010	.020	.03	.03	.012	.0016
%RSD	.2873	.7959	.2687	.1903	.1691	.1818	.4519

#1	8.706	1.206	7.525	17.36	17.30	6.696	.3545
#2	8.730	1.225	7.564	17.42	17.34	6.720	.3550
#3	8.680	1.219	7.555	17.37	17.28	6.707	.3575

Elem	V_2924
Avge	2.187
SDev	.004
%RSD	.1874

#1	2.185
#2	2.191
#3	2.184

Method: ICAP3      Standard: STD4 0775

Elem	Fe
Avge	10.21
SDev	.07
%RSD	.7271

#1	10.15
#2	10.29
#3	10.18

Method: ICAP3      Standard: STD2 0761

Elem	Ti3349	Mo2020	Sr4215	B_1826
Avge	3.720	.4016	1.945	6.303
SDev	.035	.0034	.020	.061
%RSD	.9427	.8549	1.028	.9719

#1	3.689	.3980	1.928	6.238
#2	3.758	.4048	1.967	6.360
#3	3.714	.4020	1.941	6.312

Method: ICAP3      Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
As1890	189.042	STD3 0729	STD1-Blank	5.27442	.000000	03/17/94 09:32:50
Ba4934	493.409	STD3 0729	STD1-Blank	1.63734	.000364	03/17/94 09:32:50
Cd2144	214.423	STD3 0729	STD1-Blank	.142879	-.000421	03/17/94 09:32:50
Cr2677	267.716	STD3 0729	STD1-Blank	.965976	-.001610	03/17/94 09:32:50
Pb2203	220.353	STD3 0729	STD1-Blank	3.58537	.005179	03/17/94 09:32:50
Se1960	196.026	STD3 0729	STD1-Blank	3.15098	.006827	03/17/94 09:32:50
Ag3280	328.068	STD3 0729	STD1-Blank	4.48207	-.010458	03/17/94 09:32:50
Cu3247	324.754	STD3 0729	STD1-Blank	5.35205	.000892	03/17/94 09:32:50

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Zn2138	213.856	STD3 0729	STD1-Blank	2.29753	-.001436	03/17/94 09:32:50
Ni2316	231.604	STD3 0729	STD1-Blank	1.48223	-.001774	03/17/94 09:32:50
Tl1908	190.864	STD3 0729	STD1-Blank	6.59486	.004763	03/17/94 09:32:50
Fe	259.940	STD3 0729	STD1-Blank	2.66710	.003260	03/17/94 09:32:50
Fe	385.958	STD4 0775	STD1-Blank	19.5272	.669350	03/17/94 09:32:50
Al3082	308.215	STD3 0729	STD1-Blank	3.99654	-.003330	03/17/94 09:32:50
Be3130	313.042	STD3 0729	STD1-Blank	.878906	-.000635	03/17/94 09:32:50
Ti3349	334.941	STD2 0761	STD1-Blank	2.68853	-.001942	03/17/94 09:32:50
Mn2576	257.610	STD3 0729	STD1-Blank	.574397	-.000255	03/17/94 09:32:50
Mo2020	202.030	STD2 0761	STD1-Blank	2.94224	-.001635	03/17/94 09:32:50
Sb2068	206.838	STD3 0729	STD1-Blank	8.22669	-.009598	03/17/94 09:32:50
Mg2790	279.079	STD3 0729	STD1-Blank	6.62315	.006991	03/17/94 09:32:50
Ca3179	317.933	STD3 0729	STD1-Blank	2.87605	.000799	03/17/94 09:32:50
Na5889	588.995	STD3 0729	STD1-Blank	3.02320	-2.31594	03/17/94 09:32:50
Sr4215	421.552	STD2 0761	STD1-Blank	2.57062	.000000	03/17/94 09:32:50
Co2286	228.616	STD3 0729	STD1-Blank	.745466	-.000412	03/17/94 09:32:50
K_7664	766.491	STD3 0729	STD1-Blank	148.810	-2.92659	03/17/94 09:32:50
V_2924	292.402	STD3 0729	STD1-Blank	2.28467	.003681	03/17/94 09:32:50
B_1826	182.640	STD2 0761	STD1-Blank	.820008	-.168785	03/17/94 09:32:50

Method: ICAP3 Sample Name: STD3 CHECK Operator: DK  
Run Time: 03/17/94 09:37:40  
Comment:  
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	10.19	19.97	5.141	2.032	10.37	10.16	2.556
SDev	.08	.21	.051	.022	.11	.10	.027
%RSD	.7522	1.041	.9868	1.061	1.107	.9920	1.044

#1	10.14	19.83	5.141	2.019	10.29	10.07	2.533
#2	10.28	20.21	5.191	2.057	Q10.50	10.27	2.585
#3	10.15	19.86	5.090	2.021	10.31	10.14	2.551

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00	20.00	5.000	2.000	10.00	10.00	2.500
Range	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.431	5.060	5.086	10.15	10.06	20.36	.5025
SDev	.032	.051	.050	.09	.10	.20	.0053
%RSD	1.306	1.015	.9853	.8892	1.016	1.004	1.059

#1	2.398	5.018	5.066	10.07	9.993	20.20	.4994
#2	2.461	5.117	5.143	10.25	10.18	20.59	.5087
#3	2.434	5.044	5.050	10.12	10.01	20.29	.4995

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	5.000	5.000	10.00	10.00	20.00	.5000
Range	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0027	5.072	-.0057	10.27	51.21	50.43	50.75

SDev	.0011	.050	.0020	.09	.53	.50	.54
%RSD	41.94	.9804	35.08	.8977	1.043	.9845	1.069
#1	.0025	5.039	-.0079	10.21	50.82	50.10	50.36
#2	.0039	5.129	-.0041	10.38	51.82	51.00	51.37
#3	.0016	5.048	-.0050	10.23	50.99	50.19	50.52
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value		5.000		10.00	50.00	50.00	50.00
Range		5.000		5.000	5.000	5.000	5.000
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0157	5.083	50.31	5.061	.0338		
SDev	.0003	.051	.92	.050	.0020		
%RSD	1.575	.9978	1.838	.9908	5.839		
#1	.0159	5.042	49.65	5.025	.0354		
#2	.0159	5.140	51.36	5.119	.0343		
#3	.0154	5.067	49.90	5.041	.0316		
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK		
Value		5.000	50.00	5.000			
Range		5.000	5.000	5.000			

Method: ICAP3      Sample Name: ICV  
 Run Time: 03/17/94 09:48:46  
 Comment: IA,07M3943  
 Mode: CONC      Corr. Factor: 1

*WRONG October 2nd*  
*Operator: DK*  
*2/17/94*

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.861	9.355	2.642	1.003	4.909	4.808	1.289
SDev	.038	.088	.014	.007	.036	.079	.010
%RSD	.7722	.9422	.5408	.6594	.7436	1.640	.7961
#1	4.846	9.353	2.654	1.003	4.928	4.829	1.292
#2	4.904	9.444	2.646	1.009	4.932	4.874	1.297
#3	4.834	9.268	2.626	.9957	4.867	4.720	1.277
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.830	9.310	2.610	1.070	4.950	4.870	1.260
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	1.269	2.578	2.629	4.552	4.817	9.887	0.2523
SDev	.014	.024	.030	.066	.042	.081	.0021
%RSD	1.094	.9211	1.134	1.440	.8775	.8232	.8276
#1	1.273	2.579	2.622	4.539	4.822	9.877	0.2523
#2	1.280	2.602	2.661	4.623	4.857	9.973	0.2543
#3	1.253	2.554	2.603	4.494	4.772	9.811	0.2502
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	1.350	2.460	2.540	4.670	4.680	9.460	.1890

Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.724	2.590	Q.2520	4.855	24.24	24.32	Q24.53
SDev	.041	.021	.0019	.037	.22	.19	.20
%RSD	.8776	.8026	.7344	.7696	.9108	.7917	.8342
#1	4.723	2.587	Q.2541	4.838	24.24	24.31	Q24.55
#2	4.766	2.612	Q.2511	4.898	24.46	24.51	Q24.73
#3	4.683	2.571	Q.2507	4.828	24.02	24.13	Q24.32
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail
Value	4.770	2.510	.1920	4.750	23.80	24.00	39.80
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	2.557	2.599	24.45	4.828	Q2.385		
SDev	.022	.020	.67	.039	.016		
%RSD	.8766	.7863	2.749	.8000	.6890		
#1	2.554	2.601	25.15	4.829	Q2.381		
#2	2.581	2.618	23.81	4.866	Q2.403		
#3	2.536	2.577	24.38	4.789	Q2.371		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail		
Value	2.520	2.520	23.80	4.780	4.640		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: ICV, <sup>C772</sup>  
 Run Time: 03/17/94 09:54:32 <sub>3/17/94</sub>  
 Comment: IA, Q7MB943  
 Mode: CONC Corr. Factor: 1 Operator: DK

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.850	9.341	2.627	.9996	4.905	4.782	1.281
SDev	.005	.037	.006	.0040	.004	.058	.003
%RSD	.0999	.3979	.2255	.3985	.0838	1.205	.2695
#1	4.853	9.327	2.633	.9960	4.905	4.717	1.280
#2	4.844	9.314	2.622	.9989	4.909	4.824	1.278
#3	4.852	9.384	2.627	1.004	4.901	4.807	1.285
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.410	9.240	2.530	.9730	4.680	4.590	1.260
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	1.257	2.574	2.631	4.558	4.803	9.892	.2519
SDev	.004	.009	.012	.010	.010	.030	.0010
%RSD	.3287	.3551	.4717	.2256	.2035	.3036	.4132
#1	1.254	2.565	2.617	4.569	4.796	9.871	.2510

#2	1.254	2.574	2.642	4.555	4.800	9.879	.2516
#3	1.261	2.584	2.633	4.549	4.814	9.927	.2530
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.260	2.480	2.500	4.510	4.670	9.630	.2480
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	4.714	2.563	.2513	4.852	24.24	24.31	24.49
SDev	.017	.007	.0036	.037	.05	.07	.06
%RSD	.3610	.2648	1.444	.7651	.2079	.3015	.2627
#1	4.703	2.560	.2526	4.815	24.18	24.24	24.45
#2	4.706	2.558	.2541	4.852	24.26	24.30	24.46
#3	4.733	2.571	.2472	4.889	24.27	24.38	24.56
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.690	2.500	.2530	4.620	23.30	23.10	23.80
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	2.552	2.594	24.17	4.820	2.383		
SDev	.010	.008	.41	.016	.007		
%RSD	.3777	.3166	1.687	.3361	.2997		
#1	2.548	2.588	23.71	4.806	2.379		
#2	2.545	2.592	24.33	4.816	2.379		
#3	2.563	2.604	24.48	4.838	2.391		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	2.540	2.510	23.80	4.730	2.390		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3      Sample Name: ICB      Operator: DK  
 Run Time: 03/17/94 09:57:36  
 Comment: IC,Q7M3943  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0009	.0005	-.0005	-.0010	.0046	-.0019	-.0042
SDev	.0128	.0009	.0008	.0010	.0045	.0077	.0004
%RSD	1457.	163.7	142.3	100.2	99.14	399.6	10.17
#1	.0114	.0015	.0002	-.0016	-.0002	-.0052	-.0045
#2	-.0141	.0003	-.0013	.0002	.0052	-.0073	-.0037
#3	.0000	-.0002	-.0005	-.0016	.0087	.0068	-.0045
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0039	.0024	.0006	.0096	.0585	.0365	-.0000
SDev	.0052	.0013	.0016	.0098	.0007	.0148	.0000
%RSD	133.2	55.91	269.9	102.9	1.157	40.51	1.166





Avge	-.0024	-.0037	.0016	.0246	246.8	187.3	.0054
SDev	.0008	.0003	.0029	.0287	.6	.3	.0337
%RSD	32.48	9.008	175.7	116.8	.2288	.1479	626.7
#1	-.0033	-.0041	.0028	.0022	246.2	187.0	-.0319
#2	-.0019	-.0034	.0038	.0570	247.2	187.5	.0144
#3	-.0019	-.0037	-.0016	.0146	247.0	187.3	.0336
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0071	-.0023	.1571	-.0009	.1578		
SDev	.0005	.0012	.2304	.0017	.0012		
%RSD	6.928	51.08	146.7	194.1	.7861		
#1	.0077	-.0010	.2232	-.0013	.1583		
#2	.0069	-.0033	.3472	.0010	.1587		
#3	.0069	-.0027	-.0992	-.0024	.1563		

Method: ICAP3      Sample Name: ICSAB      Operator: DK  
 Run Time: 03/17/94 10:14:35  
 Comment: IG,Q7M3943  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9840	.4696	.9293	.4771	.9431	.9425	.9429
SDev	.0472	.0016	.0083	.0018	.0167	.0038	.0062
%RSD	4.798	.3454	.8888	.3701	1.768	.4055	.6603
#1	.9488	.4714	.9377	.4785	.9238	.9466	.9498
#2	1.038	.4688	.9212	.4777	.9516	.9417	.9379
#3	.9655	.4685	.9290	.4751	.9538	.9391	.9409

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4670	.9574	.8921	.8864	176.6	489.9	.4748
SDev	.0019	.0019	.0066	.0130	.6	1.9	.0013
%RSD	.3975	.1982	.7356	1.465	.3229	.3890	.2692
#1	.4649	.9586	.8921	.8789	177.3	492.1	.4762
#2	.4676	.9553	.8856	.8790	176.2	488.5	.4737
#3	.4685	.9585	.8987	.9014	176.4	489.2	.4745

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9051	.4542	.9373	.9521	508.9	231.0	1.010
SDev	.0031	.0006	.0024	.0229	.8	.6	.019
%RSD	.3370	.1355	.2518	2.408	.1654	.2497	1.846



#1	.9086	.4538	.9391	.9665	509.8	231.7	.9914
#2	.9027	.4540	.9346	.9256	508.2	230.5	1.010
#3	.9041	.4549	.9381	.9640	508.7	230.9	1.029
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9123	.4063	.9210	.8952	490.4	226.7	.9625
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.9377	.4476	.4712	.4545	1.084		
SDev	.0043	.0014	.3410	.0022	.004		
%RSD	.4577	.3081	72.36	.4810	.3867		
#1	.9426	.4467	Q.7688	.4561	1.082		
#2	.9344	.4469	.5456	.4520	1.081		
#3	.9361	.4492	Q.0992	.4554	1.089		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	.9516	.4323	.5666	.4458	1.083		
Range	20.00	20.00	20.00	20.00	20.00		

Method: ICAP3 Sample Name: PBL, N7M3943 BLANK Operator: DK  
 Run Time: 03/17/94 10:18:31  
 Comment: N7M3943M,N7M3943,L,A5,50,50,1  
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0041	.0005	-.0004	.0010	.0107	-.0014	-.0037
SDev	.0110	.0002	.0001	.0008	.0063	.0142	.0065
%RSD	268.1	34.64	13.61	86.72	58.60	1026.	173.1
#1	-.0009	.0004	-.0005	-.0000	.0105	.0126	-.0075
#2	.0167	.0006	-.0004	.0014	.0171	-.0157	.0037
#3	-.0035	.0004	-.0005	.0014	.0046	-.0010	-.0075
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.0021	.0012	.0009	.0988	.0292	-.0000
SDev	.0010	.0009	.0026	.0101	.0135	.0051	.0000
%RSD	173.0	41.19	223.1	1156.	13.69	17.43	1.138
#1	.0000	.0013	.0021	.0083	.1135	.0314	-.0000
#2	.0018	.0030	-.0018	.0050	.0962	.0328	-.0000
#3	.0000	.0020	.0032	-.0107	.0868	.0234	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0004	-.0000	-.0023	-.0000	.0640	.0256	.0175
SDev	.0005	.0002	.0006	.0239	.0073	.0024	.0186
%RSD	115.5	29e6	24.77	255300.	11.48	9.249	106.7
#1	.0007	.0001	-.0026	-.0110	.0677	.0228	.0341
#2	.0007	.0001	-.0026	-.0165	.0688	.0267	.0210

#3	-.0001	-.0003	-.0016	.0274	.0556	.0272	-.0027
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0004	.0017	-.0909	-.0000	.0071		
SDev	.0004	.0012	.1878	.0006	.0003		
%RSD	100.0	70.07	206.5	6489.	4.470		
#1	.0000	.0018	-.2232	-.0005	.0067		
#2	.0004	.0028	-.1736	.0006	.0072		
#3	.0009	.0005	.1240	-.0001	.0072		

Method: ICAP3 Sample Name: LCSL, N7M3943 SPIKE Operator: DK  
 Run Time: 03/17/94 10:21:13  
 Comment: N7M3943MS,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.680	9.194	.9476	4.910	4.777	.9273	.0898
SDev	.026	.068	.0047	.028	.019	.0309	.0004
%RSD	.5528	.7381	.4975	.5653	.4047	3.333	.4729

#1	4.709	9.271	.9480	4.941	4.793	.9138	.0896
#2	4.669	9.146	.9427	4.886	4.756	.9054	.0903
#3	4.661	9.163	.9521	4.904	4.781	.9626	.0896

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.700	4.549	4.724	4.782	.0898	.0056	.9132
SDev	.014	.014	.026	.018	.0075	.0233	.0056
%RSD	.3013	.3106	.5435	.3772	8.391	416.1	.6123

#1	4.711	4.558	4.753	4.802	.0975	-.0080	.9195
#2	4.684	4.533	4.712	4.768	.0895	-.0077	.9088
#3	4.705	4.556	4.706	4.775	.0824	.0325	.9113

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0025	.9283	.9434	.8635	.0651	.0336	.0339
SDev	.0000	.0035	.0034	.0207	.0036	.0014	.0189
%RSD	.0000	.3743	.3646	2.395	5.448	4.124	55.75

#1	.0025	.9323	.9471	.8511	.0611	.0320	.0235
#2	.0025	.9258	.9428	.8520	.0677	.0344	.0558
#3	.0025	.9269	.9403	.8874	.0666	.0344	.0225

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0059	.9527	-.0248	.9308	.0133		
SDev	.0003	.0052	.3224	.0040	.0014		
%RSD	4.225	.5405	1300.	.4311	10.10		

#1	.0056	.9579	-.3968	.9354	.0149		
#2	.0060	.9476	.1736	.9278	.0124		
#3	.0060	.9525	.1488	.9293	.0127		

Method: ICAP3 Sample Name: MS, JM4362 MIX SPK Operator: DK

Run Time: 03/17/94 10:24:26

Comment: JM4362MS,N7M3943,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	5.035	9.702	.9945	5.112	4.949	1.002	.0860
SDev	.013	.037	.0067	.004	.002	.009	.0027
%RSD	.2671	.3856	.6706	.0875	.0497	.8917	3.135

#1	5.042	9.740	1.002	5.117	4.948	1.002	.0838
#2	5.019	9.665	.9901	5.110	4.947	.9925	.0852
#3	5.043	9.699	.9912	5.108	4.951	1.010	.0890

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	5.013	5.219	4.904	4.931	.1659	.3477	.9605
SDev	.038	.023	.020	.014	.0050	.0253	.0022
%RSD	.7564	.4340	.4135	.2866	3.044	7.282	.2294

#1	5.057	5.245	4.926	4.941	.1715	.3464	.9628
#2	4.993	5.203	4.898	4.937	.1644	.3231	.9584
#3	4.989	5.210	4.887	4.915	.1618	.3736	.9603

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0072	.9951	.9891	.9294	.0725	.5524	S3993.
SDev	.0007	.0009	.0027	.0176	.0092	.0007	.
%RSD	9.547	.0918	.2729	1.898	12.68	.1326	.0055

#1	.0066	.9960	.9904	.9439	.0798	.5525	S3993.
#2	.0079	.9941	.9860	.9097	.0622	.5516	S3993.
#3	.0070	.9952	.9909	.9344	.0754	.5530	S3992.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0157	.9896	.0579	.9748	.1522
SDev	.0005	.0021	.5625	.0014	.0010
%RSD	3.149	.2156	972.0	.1407	.6777

#1	.0163	.9921	-.1488	.9752	.1512
#2	.0154	.9881	.6944	.9733	.1524
#3	.0154	.9888	-.3720	.9760	.1532

Method: ICAP3 Sample Name: MSD, JM4362 MIX DUP Operator: DK

Run Time: 03/17/94 10:27:29

Comment: JM4362MR,N7M3943,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.909	9.454	.9643	4.977	4.832	.9933	.0859
SDev	.037	.088	.0064	.045	.054	.0147	.0008

%RSD	.7588	.9267	.6640	.9004	1.116	1.480	.8704
#1	4.952	9.554	.9717	5.028	4.893	1.008	.0860
#2	4.889	9.410	.9602	4.957	4.815	.9784	.0852
#3	4.885	9.396	.9611	4.945	4.789	.9936	.0867
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	4.862	5.064	4.784	4.820	.1468	.3438	.9357
SDev	.046	.049	.048	.049	.0012	.0273	.0087
%RSD	.9532	.9634	1.012	1.006	.8050	7.944	.9345
#1	4.916	5.120	4.837	4.876	.1481	.3319	.9457
#2	4.836	5.038	4.742	4.787	.1461	.3244	.9322
#3	4.836	5.034	4.774	4.798	.1461	.3750	.9293
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0066	.9663	.9660	.8856	.0832	.5337	S3994.
SDev	.0009	.0107	.0098	.0283	.0181	.0039	.
%RSD	13.64	1.111	1.019	3.194	21.73	.7260	.0008
#1	.0057	.9786	.9773	.8783	.0677	.5381	S3994.
#2	.0066	.9614	.9598	.8617	.0787	.5314	S3994.
#3	.0075	.9589	.9608	.9168	.1030	.5314	S3994.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0150	.9641	-.1653	.9520	.1397		
SDev	.0007	.0088	.1794	.0063	.0019		
%RSD	4.949	.9166	108.5	.6667	1.374		
#1	.0154	.9743	-.0496	.9593	.1417		
#2	.0154	.9590	-.3720	.9483	.1395		
#3	.0141	.9590	-.0744	.9483	.1379		

Method: ICAP3 Sample Name: XX, JM4362 CLJCSS42 Operator: DK  
 Run Time: 03/17/94 10:30:58  
 Comment: JM4362M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0082	.3001	.0012	.0035	.0249	.0086	-.0030
SDev	.0044	.0013	.0012	.0026	.0206	.0065	.0086
%RSD	53.96	.4224	104.8	73.48	82.94	75.81	288.6
#1	.0123	.3002	.0005	.0021	.0101	.0011	-.0060
#2	.0035	.3012	.0005	.0019	.0161	.0121	.0067
#3	.0088	.2987	.0026	.0064	.0484	.0126	-.0097
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0092	.3965	.0045	-.0030	.1443	.3644	-.0000
SDev	.0057	.0022	.0038	.0121	.0039	.0398	.0001
%RSD	62.21	.5579	84.90	406.2	2.682	10.92	5215.

#1	.0116	.3957	.0039	.0054	.1470	.3611	-.0001
#2	.0134	.3990	.0086	.0025	.1461	.4058	-.0001
#3	.0027	.3949	.0010	-.0168	.1399	.3264	.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0051	.0292	.0007	-.0056	.0809	.5667	S3993.
SDev	.0009	.0005	.0006	.0149	.0260	.0063	.
%RSD	18.37	1.653	84.95	267.4	32.15	1.104	.0029

#1	.0048	.0292	.0003	-.0097	.1030	.5674	S3993.
#2	.0061	.0296	.0003	.0109	.0876	.5727	S3993.
#3	.0043	.0287	.0013	-.0180	.0522	.5602	S3993.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0103	.0010	.6035	.0018	.1408		
SDev	.0009	.0007	.0871	.0011	.0013		
%RSD	8.333	70.48	14.43	65.01	.9262		

#1	.0103	.0002	.5208	.0018	.1406		
#2	.0094	.0016	.5952	.0029	.1421		
#3	.0111	.0012	.6944	.0006	.1395		

Method: ICAP3      Sample Name: XX, CLJCSS42 DUP      Operator: DK  
 Run Time: 03/17/94 10:36:14  
 Comment: JM4362MM,N7M3943,L,A5,50,50,1  
 Mode: CCNC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0085	.2978	.0011	.0033	.0161	.0195	-.0017
SDev	.0119	.0006	.0003	.0026	.0078	.0196	.0016
%RSD	140.5	.2046	29.82	77.35	48.47	100.7	89.52

#1	-.0149	.2984	.0008	.0055	.0239	.0242	-.0030
#2	.0053	.2978	.0014	.0005	.0083	-.0021	-.0022
#3	-.0158	.2971	.0011	.0040	.0160	.0363	.0000

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0089	.3904	.0057	.0067	.1315	.3769	-.0001
SDev	.0015	.0017	.0053	.0079	.0013	.0212	.0000
%RSD	17.31	.4370	93.62	118.0	1.013	5.631	1.978

#1	.0080	.3903	-.0004	.0002	.1315	.3711	-.0000
#2	.0080	.3921	.0091	.0044	.1301	.3591	-.0001
#3	.0107	.3887	.0084	.0154	.1328	.4004	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0054	.0286	-.0008	.0086	.0784	.5484	S3993.
SDev	.0003	.0003	.0027	.0255	.0094	.0026	.
%RSD	4.811	1.175	332.7	295.2	11.98	.4814	.0040

#1	.0057	.0283	-.0026	-.0179	.0688	.5482	S3993.
#2	.0052	.0287	-.0021	.0110	.0787	.5458	S3993.
#3	.0052	.0289	.0023	.0328	.0876	.5511	S3993.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0110	-.0001	.6696	.0016	.1944
SDev	.0005	.0011	.1626	.0012	.0002
%RSD	4.499	1456.	24.29	71.16	.1074

#1	.0107	.0005	.6448	.0006	.1946
#2	.0107	-.0014	.8433	.0014	.1942
#3	.0116	.0006	.5208	.0029	.1945

Method: ICAP3      Sample Name: XX, JM4353 CLJCSS3      Operator: DK  
 Run Time: 03/17/94 10:39:46  
 Comment: JM4353M,N7M3943,L,A5,50,50,1  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0064	.1680	-.0001	.0016	.0040	-.0024	-.0060
SDev	.0057	.0005	.0002	.0005	.0141	.0228	.0045
%RSD	87.68	.3079	168.7	33.28	348.7	931.9	75.07

#1	-.0106	.1681	-.0002	.0019	-.0093	-.0184	-.0060
#2	-.0088	.1674	.0001	.0010	.0188	.0236	-.0015
#3	.0000	.1684	-.0001	.0018	.0026	-.0126	-.0105

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0065	.1039	.0014	.0095	.0341	.6106	-.0000
SDev	.0019	.0006	.0024	.0043	.0005	.0249	.0000
%RSD	28.38	.6092	175.4	45.60	1.504	4.078	4.449

#1	.0045	.1035	.0036	.0142	.0344	.5915	-.0000
#2	.0071	.1035	.0018	.0055	.0335	.6015	-.0000
#3	.0080	.1046	-.0012	.0090	.0344	.6387	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0021	.0020	-.0008	-.0014	.0695	.1991	S4000.
SDev	.0004	.0001	.0012	.0192	.0204	.0025	.
%RSD	21.43	5.579	151.0	1368.	29.37	1.236	.0049

#1	.0016	.0020	.0003	-.0233	.0589	.1964	S3999.
#2	.0021	.0019	-.0007	.0068	.0567	.1997	S4000.
#3	.0025	.0020	-.0021	.0123	.0931	.2012	S4000.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0040	-.0002	-.0744	-.0005	.0965
SDev	.0005	.0010	.1549	.0023	.0016
%RSD	12.37	495.4	208.2	451.9	1.707

#1	.0034	-.0010	-.1240	.0006	.0983
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Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6199	1.269	1.298	2.274	2.375	4.791	.1224
SDev	.0042	.015	.012	.019	.028	.021	.0017
%RSD	.6823	1.219	.9471	.8336	1.174	.4281	1.380
#1	.6214	1.284	1.312	2.293	2.399	4.808	.1236
#2	.6151	1.253	1.288	2.255	2.344	4.768	.1205
#3	.6231	1.269	1.294	2.273	2.380	4.797	.1231
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6256	1.237	1.275	2.171	2.334	4.749	.1200
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.333	1.267	.1148	2.367	12.25	12.24	12.26
SDev	.029	.016	.0054	.015	.13	.15	.20
%RSD	1.224	1.248	4.709	.6454	1.064	1.219	1.637
#1	2.356	1.280	.1154	2.354	12.37	12.37	12.47
#2	2.301	1.249	.1091	2.383	12.11	12.08	12.07
#3	2.343	1.272	.1198	2.363	12.27	12.27	12.24
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.320	1.226	.1112	2.281	11.73	11.93	11.97
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	1.265	1.290	11.74	2.409	1.167		
SDev	.017	.014	.16	.029	.016		
%RSD	1.312	1.097	1.358	1.205	1.349		
#1	1.278	1.303	11.86	2.432	1.176		
#2	1.246	1.275	11.81	2.376	1.148		
#3	1.272	1.292	11.56	2.418	1.176		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.261	1.238	11.52	2.370	1.125		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB  
 Run Time: 03/17/94 10:53:31  
 Comment: ID,N7M3943,N7M3943  
 Mode: CONC Corr. Factor: 1

Operator: DK

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0308	.0008	-.0006	-.0009	-.0030	.0079	-.0012
SDev	.0207	.0004	.0008	.0025	.0135	.0260	.0030
%RSD	67.23	52.94	142.9	291.3	447.1	329.6	244.0
#1	.0519	.0011	-.0009	-.0029	-.0128	-.0157	.0015
#2	.0299	.0009	.0004	.0019	.0124	.0357	-.0007

#3	.0105	.0003	-.0012	-.0016	-.0086	.0037	-.0045
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0057	.0039	.0009	.0073	.0527	.0361	-.0001
SDev	.0021	.0016	.0020	.0118	.0022	.0275	.0000
%RSD	36.48	42.36	222.2	161.3	4.156	76.16	4.164
#1	.0080	.0058	.0029	-.0016	.0513	.0256	-.0001
#2	.0045	.0032	-.0011	.0207	.0517	.0154	-.0001
#3	.0045	.0027	.0009	.0028	.0553	.0672	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0010	.0009	.0007	.0005	.0703	.0128	.1933
SDev	.0005	.0004	.0030	.0158	.0063	.0024	.0352
%RSD	49.49	42.86	454.5	3295.	8.931	18.75	18.19
#1	.0007	.0013	-.0026	-.0177	.0633	.0152	.1616
#2	.0016	.0005	.0013	.0082	.0754	.0104	.1873
#3	.0007	.0009	.0033	.0110	.0721	.0128	.2311
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0004	.0013	-.6944	.0025	.0064		
SDev	.0000	.0007	.4060	.0021	.0014		
%RSD	.0000	53.41	58.47	83.79	22.52		
#1	.0004	.0011	-1.042	.0048	.0081		
#2	.0004	.0020	-.2480	.0022	.0059		
#3	.0004	.0007	-.7937	.0006	.0053		

Method: ICAP3 Sample Name: XX, JM4356 CLJCLL36 Operator: DK  
 Run Time: 03/17/94 10:56:55  
 Comment: JM4356M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0123	.3004	.0014	.0035	.0156	.0070	-.0060
SDev	.0150	.0008	.0007	.0013	.0149	.0199	.0065
%RSD	122.0	.2682	47.10	36.41	95.43	282.3	109.1
#1	.0018	.2999	.0007	.0022	.0152	-.0047	-.0135
#2	-.0106	.3013	.0020	.0035	.0308	.0300	-.0015
#3	-.0281	.3000	.0015	.0048	.0009	-.0042	-.0030
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0086	.3569	.0031	.0043	.1693	1.070	-.0000
SDev	.0037	.0001	.0014	.0106	.0024	.018	.0000
%RSD	43.07	.0139	44.19	250.1	1.385	1.678	5.246
#1	.0045	.3569	.0020	-.0080	.1675	1.064	-.0000
#2	.0116	.3570	.0028	.0096	.1720	1.090	-.0000
#3	.0098	.3570	.0047	.0111	.1684	1.056	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0027	.0213	-.0003	-.0106	.0545	.2908	S3995.
SDev	.0016	.0007	.0032	.0145	.0160	.0075	.
%RSD	58.53	3.156	992.7	136.9	29.44	2.591	.0068

#1	.0012	.0206	-.0026	-.0261	.0390	.2827	S3995.
#2	.0043	.0220	.0033	-.0084	.0710	.2975	S3994.
#3	.0025	.0214	-.0016	.0027	.0534	.2922	S3995.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0109	.0004	.0579	-.0001	.1379
SDev	.0005	.0018	.1453	.0027	.0016
%RSD	4.558	430.9	251.1	1875.	1.149

#1	.0111	-.0016	-.0000	-.0032	.1368
#2	.0111	.0016	.2232	.0006	.1397
#3	.0103	.0012	-.0496	.0021	.1371

Method: ICAP3 Sample Name: XX, JM4357 CLJCSS37 Operator: DK

Run Time: 03/17/94 11:03:10

Comment: JM4357M,N7M3943,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0138	.2582	-.0001	.0028	.0077	-.0009	-.0032
SDev	.0148	.0018	.0006	.0046	.0112	.0105	.0068
%RSD	107.6	.6796	744.8	160.6	145.0	1208.	209.8

#1	.0035	.2602	-.0007	-.0005	.0010	-.0005	-.0105
#2	.0070	.2574	.0003	.0010	.0016	-.0115	-.0022
#3	.0307	.2569	.0002	.0080	.0207	.0095	.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0095	.1363	.0012	.0082	.0299	.5338	-.0000
SDev	.0031	.0033	.0025	.0046	.0024	.0229	.0000
%RSD	32.93	2.399	207.4	55.65	7.859	4.290	7.006

#1	.0062	.1400	.0000	.0079	.0281	.5095	-.0000
#2	.0098	.1338	-.0005	.0038	.0290	.5369	-.0001
#3	.0125	.1350	.0041	.0129	.0326	.5550	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0034	.0033	.0007	-.0060	.0997	.5482	S3995.
SDev	.0009	.0003	.0027	.0198	.0261	.0019	.
%RSD	26.09	8.738	414.3	329.9	26.17	.3498	.0062

#1	.0025	.0033	-.0021	-.0261	.0721	.5463	S3995.
#2	.0034	.0030	.0033	-.0055	.1030	.5482	S3995.
#3	.0043	.0036	.0008	.0136	.1240	.5501	S3995.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0074	.0009	.5622	.0004	.1037
SDev	.0005	.0015	.8539	.0037	.0009
%RSD	6.662	172.7	151.9	998.1	.8576
#1	.0077	-.0006	-.3968	-.0039	.1037
#2	.0077	.0008	.8433	.0025	.1046
#3	.0069	.0023	1.240	.0025	.1028

Method: ICAP3 Sample Name: XX, JM4358 CLJCSS38 Operator: DK  
 Run Time: 03/17/94 11:07:05  
 Comment: JM4358M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0036	.4302	.0040	.0066	.1326	.0190	-.0015
SDev	.0183	.0025	.0005	.0004	.0059	.0066	.0020
%RSD	514.5	.5736	11.47	6.135	4.435	34.56	131.2
#1	.0141	.4277	.0044	.0070	.1365	.0116	-.0023
#2	-.0175	.4301	.0041	.0062	.1258	.0211	.0007
#3	.0141	.4326	.0035	.0066	.1354	.0242	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0241	1.934	.0199	.0095	.3634	2.519	-.0001
SDev	.0024	.015	.0047	.0103	.0058	.024	.0003
%RSD	9.794	.7582	23.38	108.2	1.607	.9547	573.9
#1	.0250	1.920	.0222	.0125	.3687	2.545	.0002
#2	.0214	1.932	.0146	.0180	.3643	2.517	-.0001
#3	.0259	1.950	.0230	-.0020	.3572	2.497	-.0003

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0321	.1870	.0002	-.0034	.1424	1.112	S3987.
SDev	.0019	.0009	.0010	.0234	.0071	.005	.
%RSD	6.082	.4971	546.5	691.9	4.984	.4800	.0083
#1	.0344	.1862	.0013	-.0016	.1395	1.107	S3987.
#2	.0312	.1868	-.0001	.0190	.1505	1.111	S3988.
#3	.0308	.1881	-.0006	-.0276	.1372	1.118	S3987.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0206	.0023	.8681	.0024	.1538
SDev	.0000	.0005	.4303	.0004	.0009
%RSD	.0000	22.16	49.57	18.70	.5644
#1	.0206	.0017	1.364	.0021	.1528
#2	.0206	.0025	.5952	.0029	.1543
#3	.0206	.0026	.6448	.0021	.1543

Method: ICAP3 Sample Name: XX, JM4359 CLJCSS39 Operator: DK  
 Run Time: 03/17/94 11:11:41  
 Comment: JM4359M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0067	.2476	.0013	.0033	.0172	-.0068	-.0052
SDev	.0109	.0013	.0008	.0014	.0104	.0194	.0064
%RSD	160.8	.5122	60.58	41.73	60.44	285.8	122.2

#1	-.0158	.2487	.0009	.0048	.0260	-.0241	-.0045
#2	-.0097	.2462	.0008	.0031	.0200	.0142	.0008
#3	.0053	.2479	.0021	.0021	.0057	-.0105	-.0120

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0062	.3189	.0101	-.0058	.1497	1.592	-.0001
SDev	.0064	.0050	.0028	.0201	.0041	.058	.0002
%RSD	103.0	1.557	28.05	344.4	2.757	3.656	117.9

#1	.0080	.3245	.0106	.0121	.1516	1.635	-.0000
#2	.0116	.3151	.0127	-.0020	.1525	1.616	-.0003
#3	-.0009	.3170	.0071	-.0276	.1450	1.526	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0042	.0102	-.0006	-.0078	.0684	1.033	S3995.
SDev	.0022	.0004	.0010	.0130	.0401	.005	.
%RSD	52.85	4.218	152.5	165.5	58.65	.5018	.0048

#1	.0052	.0107	-.0016	-.0179	.0964	1.039	S3995.
#2	.0057	.0103	.0003	.0068	.0865	1.032	S3996.
#3	.0016	.0098	-.0006	-.0124	.0224	1.029	S3995.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avgc	.0166	.0017	.4299	-.0007	.1158
SDev	.0005	.0022	.3031	.0041	.0012
%RSD	2.986	134.4	70.50	623.4	1.029

#1	.0163	.0037	.6944	.0002	.1166
#2	.0163	.0020	.4960	.0029	.1163
#3	.0171	-.0007	.0992	-.0051	.1144

Method: ICAP3 Sample Name: XX, JM4360 CLJCSS40 Operator: DK  
 Run Time: 03/17/94 11:14:29  
 Comment: JM4360M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0000	.2850	-.0003	-.0001	.0062	.0070	.0005
SDev	.0092	.0028	.0001	.0021	.0230	.0064	.0038
%RSD	238500.	.9700	43.26	3749.	370.9	91.58	750.2

#1	.0106	.2839	-.0002	-.0024	-.0145	.0000	-.0020
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#2	-.0053	.2830	-.0004	.0014	.0309	.0126	.0000
#3	-.0053	.2882	-.0004	.0008	.0022	.0084	.0045
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0098	.1730	.0133	.0032	.0264	1.469	-.0001
SDev	.0018	.0009	.0029	.0070	.0018	.038	.0002
%RSD	18.17	.5081	21.87	219.1	6.744	2.614	114.6
#1	.0098	.1735	.0100	-.0039	.0246	1.425	-.0000
#2	.0080	.1720	.0153	.0034	.0264	1.488	-.0001
#3	.0116	.1734	.0146	.0101	.0281	1.494	-.0003
Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0018	.0019	-.0015	-.0127	.1030	.9708	S3997.
SDev	.0013	.0001	.0033	.0236	.0152	.0080	.
%RSD	72.17	4.904	222.4	185.0	14.73	.8296	.0025
#1	.0003	.0020	-.0036	-.0397	.0865	.9638	S3997.
#2	.0025	.0019	-.0031	-.0027	.1063	.9691	S3997.
#3	.0025	.0019	.0023	.0041	.1163	.9796	S3997.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0094	-.0005	.2645	.0023	.1528		
SDev	.0000	.0011	.2291	.0022	.0013		
%RSD	.0000	213.6	86.60	94.74	.8626		
#1	.0094	-.0011	-.0000	-.0001	.1538		
#2	.0094	.0008	.3968	.0029	.1533		
#3	.0094	-.0013	.3968	.0041	.1513		

Method: ICAP3 Sample Name: XX, JM4361 CLJCSS41 Operator: DK  
 Run Time: 03/17/94 11:17:26  
 Comment: JM4361M,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0146	.2682	.0029	.0047	.0845	.0221	-.0025
SDev	.0227	.0012	.0007	.0010	.0038	.0199	.0023
%RSD	154.8	.4327	22.82	21.04	4.515	90.37	91.77
#1	.0211	.2670	.0023	.0035	.0818	.0373	.0000
#2	-.0106	.2683	.0029	.0051	.0889	.0294	-.0045
#3	.0334	.2693	.0036	.0053	.0829	-.0005	-.0030
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0116	3.231	.0059	.0083	.1108	.9493	-.0002
SDev	.0000	.013	.0028	.0044	.0005	.0079	.0002
%RSD	.0066	.3981	47.55	52.39	.4610	.8300	68.16
#1	.0116	3.219	.0027	.0130	.1105	.9474	-.0001
#2	.0116	3.230	.0073	.0076	.1114	.9426	-.0003

#3	.0116	3.244	.0078	.0044	.1105	.9580	-.0003
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0049	.0399	-.0000	.0109	.0927	.4659	S3991.
SDev	.0003	.0003	.0025	.0112	.0045	.0023	.
%RSD	5.249	.7708	952900.	102.6	4.811	.4862	.0033
#1	.0048	.0396	-.0026	.0013	.0887	.4667	S3991.
#2	.0048	.0401	.0023	.0232	.0920	.4634	S3991.
#3	.0052	.0400	.0003	.0081	.0975	.4677	S3991.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0094	.0014	-.0579	.0038	.1379		
SDev	.0000	.0016	.4040	.0002	.0011		
%RSD	.0000	112.3	698.1	5.847	.8075		
#1	.0094	.0027	-.5208	.0040	.1374		
#2	.0094	-.0004	.1240	.0037	.1391		
#3	.0094	.0019	.2232	.0037	.1371		

Method: ICAP3 Sample Name: LD, CLJCSS41 @5X Operator: DK  
 Run Time: 03/17/94 11:21:17  
 Comment: JM4361ML,N7M3943,L,A5,50,50,5  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0082	.0502	.0004	.0028	.0352	.0193	-.0057
SDev	.0200	.0006	.0016	.0023	.0245	.0074	.0068
%RSD	243.5	1.152	383.5	82.59	69.76	38.19	118.4
#1	-.0246	.0504	.0003	.0008	.0264	.0121	-.0067
#2	-.0141	.0507	-.0012	.0023	.0162	.0268	.0015
#3	.0140	.0496	.0021	.0053	.0629	.0189	-.0120
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0039	.6117	.0005	.0129	.0343	.2353	.0000
SDev	.0037	.0114	.0050	.0187	.0036	.0386	.0002
%RSD	96.11	1.869	1098.	145.1	10.36	16.41	344.9
#1	.0027	.6211	-.0051	.0207	.0343	.2391	-.0000
#2	.0080	.6151	.0018	.0265	.0379	.2719	-.0001
#3	.0009	.5990	.0046	-.0085	.0308	.1950	.0002
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0013	.0077	-.0007	-.0042	.0637	.1208	283.5
SDev	.0014	.0003	.0026	.0360	.0417	.0039	5.4
%RSD	101.8	3.297	395.5	862.8	65.56	3.208	1.918
#1	.0016	.0079	-.0026	-.0096	.0489	.1202	287.8
#2	.0025	.0078	-.0016	.0343	.1108	.1249	285.4
#3	-.0001	.0074	.0023	-.0372	.0313	.1173	277.4

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0049	.0008	.1984	-.0010	.0697
SDev	.0005	.0014	.5365	.0031	.0080
%RSD	10.19	187.4	270.4	299.3	11.42
#1	.0051	-.0005	.0496	-.0013	.0641
#2	.0043	.0024	-.2480	.0022	.0663
#3	.0051	.0004	.7937	-.0039	.0789

Method: ICAP3 Sample Name: AS, CLJCSS41 POSTSPK Operator: DK  
 Run Time: 03/17/94 11:24:37  
 Comment: JM4361MP,N7M3943,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.759	9.097	.9389	4.844	4.773	.9579	.0808
SDev	.077	.154	.0203	.080	.085	.0114	.0146
%RSD	1.628	1.692	2.162	1.646	1.774	1.194	18.04
#1	4.840	9.272	.9614	4.933	4.870	.9658	.0874
#2	4.686	8.984	.9219	4.780	4.714	.9448	.0910
#3	4.751	9.036	.9334	4.819	4.735	.9632	.0641

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.684	7.428	4.653	4.651	.1297	.8554	.9107
SDev	.073	.088	.068	.079	.0081	.0484	.0162
%RSD	1.551	1.179	1.465	1.691	6.270	5.660	1.780
#1	4.768	7.524	4.731	4.741	.1217	.8275	.9291
#2	4.634	7.353	4.608	4.597	.1295	.9113	.8985
#3	4.652	7.407	4.619	4.615	.1379	.8275	.9045

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0066	.9421	.9283	.8825	.0913	.4589	S3994.
SDev	.0012	.0162	.0150	.0202	.0346	.0022	.
%RSD	18.04	1.720	1.615	2.288	37.91	.4710	.0038
#1	.0061	.9607	.9456	.8993	.0622	.4567	S3994.
#2	.0079	.9316	.9194	.8883	.1295	.4610	S3994.
#3	.0057	.9338	.9198	.8601	.0821	.4590	S3994.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0154	.9360	.2728	.9239	.2671
SDev	.0000	.0158	.3446	.0169	.0087
%RSD	.0000	1.690	126.3	1.827	3.269
#1	.0154	.9541	.4464	.9434	.2606
#2	.0154	.9250	-.1240	.9141	.2636
#3	.0154	.9289	.4960	.9141	.2770



Method: ICAP3 Sample Name: TCLP BLANK N7M3943 Operator: DK

Run Time: 03/17/94 11:32:34

Comment:

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0012	.1257	-.0001	.0023	.0028	.0075	-.0045
SDev	.0041	.0010	.0003	.0008	.0065	.0268	.0015
%RSD	345.9	.7709	288.3	37.77	236.4	356.1	33.36
#1	-.0035	.1256	.0001	.0019	-.0038	.0189	-.0060
#2	.0035	.1248	-.0005	.0032	.0093	-.0231	-.0030
#3	-.0035	.1267	.0001	.0016	.0027	.0268	-.0045
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0062	.0620	-.0028	-.0051	.0191	.0333	-.0002
SDev	.0018	.0004	.0005	.0061	.0016	.0168	.0002
%RSD	28.59	.6868	19.20	119.5	8.163	50.36	68.96
#1	.0045	.0623	-.0023	-.0118	.0175	.0139	-.0003
#2	.0080	.0615	-.0033	-.0039	.0206	.0434	-.0000
#3	.0062	.0622	-.0029	.0003	.0193	.0426	-.0003
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0000	.0004	-.0013	.0004	.0614	.2199	S4004.
SDev	.0003	.0003	.0016	.0070	.0045	.0024	.
%RSD	205e6	61.11	120.5	1717.	7.260	1.090	.0030
#1	-.0001	.0003	-.0002	-.0014	.0567	.2175	S4004.
#2	.0003	.0007	-.0031	-.0055	.0655	.2199	S4004.
#3	-.0001	.0002	-.0007	.0082	.0622	.2223	S4004.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0034	.0008	.0992	-.0010	.0589		
SDev	.0000	.0013	.1488	.0015	.0010		
%RSD	.0000	154.4	150.0	151.2	1.673		
#1	.0034	.0022	.0992	-.0024	.0586		
#2	.0034	.0005	.2480	.0006	.0581		
#3	.0034	-.0002	-.0496	-.0013	.0600		

Method: ICAP3 Sample Name: CCV,0809 Operator: DK

Run Time: 03/17/94 11:36:31

Comment: IB,N7M3943,Q1M3962

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	2.317	4.658	1.307	.5037	2.468	2.407	.6000
SDev	.038	.033	.011	.0027	.024	.017	.0009
%RSD	1.64	.706	.842	.536	.972	.706	.150
#1	2.317	4.658	1.307	.5037	2.468	2.407	.6000
#2	2.317	4.658	1.307	.5037	2.468	2.407	.6000
#3	2.317	4.658	1.307	.5037	2.468	2.407	.6000

#1	2.275	4.623	1.295	.5011	2.441	2.389	.5990
#2	2.324	4.663	1.317	.5064	2.476	2.421	.6005
#3	2.351	4.689	1.310	.5035	2.486	2.413	.6005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.234	4.740	1.261	.4841	2.301	2.284	.5789
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.6154	1.267	1.297	2.289	2.359	4.782	.1223
SDev	.0054	.009	.013	.046	.019	.023	.0009
%RSD	.8752	.7383	1.028	2.003	.8019	.4866	.7185
#1	.6097	1.258	1.284	2.238	2.339	4.756	.1213
#2	.6160	1.266	1.311	2.303	2.361	4.801	.1225
#3	.6205	1.277	1.296	2.327	2.377	4.790	.1231
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6256	1.237	1.275	2.171	2.334	4.749	.1200
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	2.323	1.287	.1128	2.352	12.28	12.27	12.19
SDev	.015	.003	.0016	.015	.09	.09	.08
%RSD	.6531	.2231	1.388	.6474	.7578	.7217	.6173
#1	2.307	1.283	.1110	2.353	12.17	12.17	12.11
#2	2.325	1.287	.1140	2.336	12.31	12.29	12.19
#3	2.337	1.289	.1135	2.366	12.35	12.35	12.26
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.320	1.226	.1112	2.281	11.73	11.93	11.97
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	1.260	1.289	11.59	2.405	1.164		
SDev	.009	.008	.31	.017	.012		
%RSD	.7026	.6156	2.675	.7263	1.061		
#1	1.251	1.280	11.90	2.386	1.151		
#2	1.261	1.291	11.58	2.408	1.166		
#3	1.268	1.295	11.28	2.421	1.176		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.261	1.238	11.52	2.370	1.125		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB  
Run Time: 03/17/94 11:40:15  
Comment: ID,N7M3943,Q1M3962  
Mode: CONC Corr. Factor: 1

Operator: DK

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0012	.0005	-.0006	.0012	.0058	-.0016	-.0045
SDev	.0189	.0003	.0004	.0012	.0034	.0304	.0015
%RSD	1620.	64.05	59.74	98.83	58.24	1939.	33.34

#1	.0202	.0003	-.0003	.0018	.0094	-.0352	-.0060
#2	-.0079	.0003	-.0010	.0019	.0027	.0242	-.0045
#3	-.0158	.0009	-.0005	-.0002	.0052	.0063	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0021	.0028	-.0019	-.0008	.0295	.0343	-.0000
SDev	.0010	.0007	.0027	.0080	.0004	.0178	.0000
%RSD	49.51	24.06	140.9	945.6	1.515	52.01	2.937

#1	.0009	.0036	-.0044	.0028	.0295	.0293	-.0000
#2	.0027	.0025	-.0024	-.0101	.0290	.0541	-.0000
#3	.0027	.0024	.0010	.0047	.0299	.0195	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0007	.0006	-.0028	.0018	.0427	.0097	.1589
SDev	.0009	.0005	.0020	.0192	.0061	.0015	.0048
%RSD	120.0	83.86	71.26	1050.	14.24	15.02	3.014

#1	.0007	.0011	-.0007	.0205	.0467	.0113	.1540
#2	.0016	.0005	-.0031	-.0178	.0456	.0094	.1591
#3	-.0001	.0001	-.0046	.0028	.0357	.0085	.1636

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0009	-.2811	-.0000	.0055
SDev	.0003	.0005	.2990	.0014	.0006
%RSD	86.60	51.91	106.4	61620.	10.32

#1	.0000	.0013	-.5952	-.0017	.0051
#2	.0004	.0004	-.2480	.0010	.0053
#3	.0004	.0010	-.0000	.0006	.0062

Method: ICAP3 Sample Name: PEW, Q1M3962 BLANK Operator: DK

Run Time: 03/17/94 11:44:01

Comment: Q1M3942M,Q1M3962,L,A6,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0126	.0003	.0002	.0006	.0179	.0210	-.0022
SDev	.0059	.0002	.0010	.0006	.0054	.0199	.0013
%RSD	46.46	63.63	415.8	110.4	30.10	94.95	57.86

#1	.0097	.0004	.0004	.0010	.0231	.0137	-.0007
#2	.0193	.0001	-.0008	-.0002	.0183	.0058	-.0030
#3	.0088	.0003	.0011	.0010	.0123	.0436	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
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Avge	.4686	.4893	.4877	.4382	9.553	9.667	9.563
SDev	.0063	.0063	.0070	.0162	.094	.112	.134
%RSD	1.339	1.285	1.427	3.684	.9835	1.162	1.402
#1	.4614	.4822	.4802	.4448	9.447	9.540	9.413
#2	.4712	.4913	.4890	.4501	9.584	9.706	9.606
#3	.4730	.4943	.4939	.4199	9.627	9.754	9.671
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.4726	.4882	9.573	.4833	1.851		
SDev	.0069	.0053	.374	.0055	.023		
%RSD	1.459	1.078	3.912	1.144	1.248		
#1	.4649	.4821	9.524	.4770	1.825		
#2	.4747	.4915	9.970	.4857	1.857		
#3	.4781	.4910	9.226	.4872	1.871		

Method: ICAP3 Sample Name: MS, CLJDWW03 MIX SPK Operator: DK  
 Run Time: 03/17/94 11:56:09  
 Comment: JM4781MS, QLM3962, L, A6, 50, 50, 1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	1.876	2.150	.5664	.2051	.5403	1.858	.0342
SDev	.018	.012	.0035	.0033	.0192	.043	.0037
%RSD	.9574	.5537	.6196	1.611	3.551	2.320	10.79
#1	1.896	2.137	.5624	.2020	.5459	1.829	.0359
#2	1.862	2.161	.5680	.2086	.5560	1.907	.0367
#3	1.870	2.152	.5688	.2049	.5189	1.837	.0299
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2785	77.76	.4728	1.674	11.79	14.22	.0465
SDev	.0024	.47	.0035	.009	.06	.05	.0003
%RSD	.8475	.6000	.7377	.5211	.5492	.3760	.6553
#1	.2776	77.26	.4763	1.666	11.72	14.15	.0462
#2	.2767	78.18	.4694	1.683	11.85	14.25	.0468
#3	.2811	77.84	.4726	1.674	11.81	14.25	.0464
Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4793	6.770	.4685	.3866	14.96	61.92	24.65
SDev	.0029	.025	.0019	.0042	.10	.31	.12
%RSD	.6130	.3738	.3958	1.077	.6581	.5070	.4930
#1	.4762	6.756	.4676	.3909	14.86	61.59	24.53
#2	.4820	6.799	.4706	.3865	15.05	62.21	24.64
#3	.4798	6.754	.4672	.3825	14.98	61.95	24.77
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	1.436	.4807	23.94	.4741	3.133		

SDev	.008	.0029	.80	.0013	.046
%RSD	.5871	.6027	3.356	.2784	1.472
#1	1.427	.4781	24.36	.4748	3.121
#2	1.443	.4838	24.45	.4748	3.094
#3	1.437	.4801	23.02	.4726	3.184

Method: ICAP3 Sample Name: MSD, CLJDMW03 MIXDUP Operator: DK  
 Run Time: 03/17/94 11:59:05  
 Comment: JM4781MR, QLM3962, L, A6, 50, 50, 1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	1.864	2.129	.5809	.2042	.5464	1.835	.0362
SDev	.025	.027	.0040	.0010	.0132	.007	.0024
%RSD	1.348	1.276	.6893	.4733	2.410	.3599	6.628
#1	1.849	2.156	.5827	.2048	.5616	1.829	.0352
#2	1.849	2.102	.5763	.2031	.5391	1.834	.0389
#3	1.893	2.129	.5837	.2047	.5384	1.842	.0344

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.2770	78.60	.4793	1.797	11.83	14.37	.0460
SDev	.0054	.80	.0044	.026	.13	.18	.0004
%RSD	1.968	1.016	.9273	1.444	1.074	1.266	.9664
#1	.2829	79.27	.4789	1.827	11.93	14.55	.0464
#2	.2722	77.72	.4751	1.784	11.69	14.19	.0455
#3	.2758	78.82	.4839	1.779	11.86	14.39	.0461

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.4772	6.794	.4605	.3666	15.00	62.58	25.04
SDev	.0056	.068	.0057	.0052	.17	.63	.48
%RSD	1.174	.9942	1.236	1.420	1.103	1.007	1.910
#1	.4829	6.852	.4657	.3688	15.11	63.09	25.52
#2	.4717	6.720	.4544	.3704	14.81	61.87	24.57
#3	.4771	6.810	.4613	.3607	15.09	62.77	25.04

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avgc	1.435	.4780	24.69	.4717	3.453
SDev	.018	.0059	.84	.0033	.170
%RSD	1.239	1.226	3.386	.7013	4.915
#1	1.453	.4825	25.47	.4744	3.626
#2	1.417	.4714	23.81	.4680	3.286
#3	1.435	.4802	24.80	.4726	3.448

Method: ICAP3 Sample Name: XX, JM4781 CWDW03 Operator: DK  
 Run Time: 03/17/94 12:02:27

Comment: JM4781M,Q1M3962,L,A6,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0018	.3381	.5492	.0098	.0892	.0209	-.0037
SDev	.0076	.0046	.0043	.0016	.0080	.0095	.0015
%RSD	409.3	1.348	.7752	16.58	8.966	45.59	40.57
#1	-.0100	.3431	.5541	.0082	.0871	.0279	-.0052
#2	-.0004	.3368	.5472	.0098	.0824	.0101	-.0022
#3	.0049	.3343	.5463	.0114	.0980	.0248	-.0037
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0410	81.55	.0231	.0058	3.145	3.759	-.0001
SDev	.0009	.70	.0032	.0062	.051	.024	.0000
%RSD	2.175	.8533	13.67	106.6	1.606	.6381	1.614
#1	.0410	82.30	.0258	.0124	3.201	3.784	-.0001
#2	.0419	81.44	.0240	.0050	3.133	3.758	-.0001
#3	.0402	80.92	.0196	.0000	3.102	3.736	-.0001
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0321	6.627	.0013	-.0547	6.044	55.72	16.03
SDev	.0009	.073	.0007	.0105	.072	.61	.14
%RSD	2.791	1.097	59.40	19.19	1.186	1.087	.8460
#1	.0321	6.706	.0011	-.0433	6.121	56.38	16.17
#2	.0330	6.614	.0006	-.0570	6.030	55.61	16.03
#3	.0312	6.563	.0021	-.0639	5.980	55.18	15.90
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	1.024	.0107	16.02	.0086	1.413		
SDev	.012	.0007	.36	.0010	.009		
%RSD	1.207	6.827	2.249	11.23	.6295		
#1	1.038	.0101	16.00	.0075	1.422		
#2	1.021	.0105	15.67	.0094	1.413		
#3	1.014	.0115	16.39	.0087	1.405		

Method: ICAP3 Sample Name: XX, CWDW03 DUP Operator: DK  
 Run Time: 03/17/94 12:05:34  
 Comment: JM4781M,Q1M3962,L,A6,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0012	.0016	.0007	-.0001	.0058	.0025	.0003
SDev	.0158	.0012	.0019	.0009	.0069	.0102	.0046
%RSD	1335.	73.64	268.7	791.1	119.6	414.3	1803.
#1	-.0088	.0030	.0027	-.0011	.0033	-.0026	-.0008
#2	.0193	.0009	-.0010	.0003	.0004	-.0042	.0052
#3	-.0070	.0010	.0004	.0005	.0136	.0142	-.0037

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0018	.3380	.0012	.0034	.0539	.0177	-.0003
SDev	.0009	.3494	.0043	.0035	.0157	.0321	.0000
%RSD	50.03	103.4	346.7	103.0	29.08	181.0	.8319
#1	.0018	.7386	.0061	.0004	.0711	.0495	-.0003
#2	.0027	.1788	-.0021	.0072	.0499	.0183	-.0003
#3	.0009	.0966	-.0003	.0025	.0406	-.0146	-.0003
Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0003	.0229	-.0010	.0064	.0666	.1959	.0039
SDev	.0004	.0342	.0020	.0067	.0327	.2969	.0917
%RSD	150.0	149.4	202.4	104.6	49.08	151.6	2373.
#1	.0003	.0624	-.0031	-.0013	.1008	.5377	.1092
#2	.0007	.0055	-.0007	.0110	.0633	.0487	-.0395
#3	-.0001	.0009	.0008	.0096	.0357	.0013	-.0581
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0034	.0015	-.1157	.0033	-.0176		
SDev	.0049	.0007	.2484	.0030	.0043		
%RSD	142.0	46.25	214.6	91.71	24.61		
#1	.0090	.0014	-.0992	.0022	-.0127		
#2	.0013	.0023	-.3720	.0067	-.0193		
#3	.0000	.0009	.1240	.0010	-.0209		

Method: ICAP3      Sample Name: LD, CdDWW03 @5X      Operator: DK  
 Run Time: 03/17/94 12:08:31  
 Comment: JM4781ML, Q1M3962, L, A6, 50, 50, 5  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0043	.0675	.1145	.0057	.0331	.0122	-.0011
SDev	.0190	.0003	.0008	.0036	.0194	.0096	.0023
%RSD	445.2	.4085	.6767	63.00	58.83	78.50	201.2
#1	-.0136	.0677	.1154	.0044	.0370	.0075	-.0031
#2	.0022	.0672	.1143	.0029	.0119	.0059	.0014
#3	.0242	.0675	.1139	.0097	.0502	.0232	-.0016
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0104	16.88	.0017	.0053	.6579	.8128	-.0001
SDev	.0010	.15	.0018	.0021	.0093	.0148	.0000
%RSD	9.907	.8670	106.4	39.67	1.412	1.821	4.350
#1	.0098	16.97	.0030	.0065	.6643	.8288	-.0001
#2	.0116	16.97	.0025	.0066	.6622	.7996	-.0001
#3	.0098	16.72	-.0004	.0029	.6473	.8100	-.0001



Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0069	1.342	-.0001	-.0016	1.283	11.33	3.423
SDev	.0007	.016	.0047	.0048	.007	.12	.037
%RSD	9.962	1.212	4091.	304.1	.5727	1.031	1.072
#1	.0070	1.354	-.0035	-.0043	1.292	11.40	3.439
#2	.0075	1.349	-.0021	.0040	1.280	11.39	3.449
#3	.0061	1.323	.0053	-.0045	1.279	11.19	3.381
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.2074	.0025	3.480	.0032	.3828		
SDev	.0023	.0018	1.012	.0023	.0066		
%RSD	1.093	73.74	29.08	71.74	1.724		
#1	.2082	.0013	3.249	.0017	.3869		
#2	.2091	.0015	2.604	.0059	.3862		
#3	.2048	.0046	4.588	.0021	.3752		

Method: ICAP3 Sample Name: AS, CWDW03 POSTSPK Operator: DK  
 Run Time: 03/17/94 12:14:26  
 Comment: JM4781MP, QLM3962, L, A6, 50, 50, 1  
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	1.844	2.123	.5311	.2136	.5375	1.840	.0367
SDev	.033	.023	.0044	.0051	.0140	.029	.0047
%RSD	1.811	1.100	.8336	2.406	2.611	1.581	12.75
#1	1.845	2.110	.5312	.2085	.5394	1.836	.0352
#2	1.877	2.150	.5355	.2188	.5505	1.871	.0420
#3	1.811	2.108	.5266	.2135	.5227	1.813	.0330
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2713	72.61	.4819	1.831	11.49	12.63	.0462
SDev	.0056	.72	.0042	.033	.14	.19	.0006
%RSD	2.054	.9946	.8683	1.779	1.242	1.465	1.266
#1	.2695	72.31	.4772	1.830	11.38	12.55	.0458
#2	.2776	73.43	.4835	1.865	11.65	12.84	.0468
#3	.2669	72.08	.4851	1.800	11.44	12.49	.0458
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4838	6.234	.4669	.3783	14.47	58.29	24.16
SDev	.0055	.082	.0071	.0112	.18	.62	.56
%RSD	1.138	1.316	1.530	2.968	1.265	1.067	2.334
#1	.4815	6.192	.4647	.3880	14.39	58.02	23.76
#2	.4901	6.329	.4749	.3809	14.68	59.00	24.80
#3	.4798	6.183	.4612	.3660	14.34	57.84	23.91
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		



Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	1.259	1.287	11.99	2.401	1.171
SDev	.012	.008	.53	.014	.008
%RSD	.9684	.6062	4.420	.6025	.6958
#1	1.267	1.295	12.38	2.413	1.178
#2	1.264	1.287	11.38	2.406	1.173
#3	1.245	1.280	12.20	2.385	1.162
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.261	1.238	11.52	2.370	1.125
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3      Sample Name: CCB      Operator: DK  
 Run Time: 03/17/94 12:21:28  
 Comment: ID,Q1M3962,N7M3946  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0120	.0011	.0002	.0022	.0253	.0186	-.0005
SDev	.0149	.0007	.0008	.0036	.0193	.0075	.0011
%RSD	123.9	63.23	445.5	163.8	76.38	40.24	230.9
#1	.0246	.0004	-.0004	-.0019	.0034	.0100	-.0015
#2	.0158	.0017	.0010	.0047	.0326	.0221	-.0007
#3	-.0044	.0012	-.0001	.0039	.0398	.0236	.0008

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0039	.0116	.0029	.0074	.0450	.0543	-.0001
SDev	.0027	.0011	.0003	.0068	.0009	.0296	.0000
%RSD	70.46	9.506	11.46	91.22	1.969	54.47	2.686
#1	.0009	.0127	.0025	.0006	.0450	.0202	-.0001
#2	.0045	.0105	.0029	.0141	.0459	.0693	-.0000
#3	.0062	.0116	.0032	.0075	.0442	.0734	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0013	.0007	-.0016	.0087	.0600	.0147	.2064
SDev	.0005	.0002	.0035	.0147	.0192	.0027	.0467
%RSD	38.49	27.24	215.8	169.3	31.93	18.16	22.64
#1	.0007	.0007	-.0056	.0166	.0379	.0123	.1525
#2	.0016	.0009	.0013	.0177	.0699	.0176	.2316
#3	.0016	.0005	-.0007	-.0083	.0721	.0142	.2351

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0004	.0024	.7937	.0018	.0084
SDev	.0000	.0013	1.025	.0013	.0003
%RSD	.0000	53.86	129.1	74.61	4.103
#1	.0004	.0009	-.1488	.0025	.0083

#2	.0004	.0031	1.885	.0002	.0087
#3	.0004	.0031	.6448	.0025	.0081

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Method: ICAP3 Sample Name: TCLP BLANK N7M3946 Operator: DK

Run Time: 03/17/94 13:28:26

Comment:

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0009	.1793	-.0002	.0008	-.0002	-.0021	-.0065
SDev	.0115	.0014	.0005	.0022	.0000	.0097	.0017
%RSD	1290.	.7660	208.0	270.9	13.62	464.1	26.62

#1	-.0044	.1777	-.0005	-.0016	-.0003	-.0016	-.0075
#2	.0141	.1803	.0003	.0014	-.0002	-.0121	-.0045
#3	-.0070	.1798	-.0005	.0026	-.0003	.0074	-.0075

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0024	.0904	.0019	-.0029	.0215	.0291	-.0003
SDev	.0019	.0019	.0009	.0167	.0080	.0254	.0000
%RSD	78.04	2.143	48.20	575.3	37.11	87.03	.2148

#1	.0045	.0924	.0010	.0094	.0306	.0566	-.0003
#2	.0009	.0902	.0029	-.0219	.0164	.0067	-.0003
#3	.0018	.0885	.0019	.0038	.0173	.0240	-.0003

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0001	.0185	-.0028	.0096	.0530	.1382	S3995.
SDev	.0007	.0003	.0003	.0286	.0177	.0015	.
%RSD	458.3	1.582	10.33	297.3	33.48	1.060	.0086

#1	.0007	.0188	-.0026	.0425	.0732	.1398	S3995.
#2	-.0006	.0184	-.0026	-.0082	.0456	.1369	S3996.
#3	.0003	.0182	-.0031	-.0055	.0401	.1379	S3995.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0043	-.0002	-.3472	-.0009	.1030
SDev	.0004	.0008	.1312	.0008	.0019
%RSD	10.000	393.7	37.80	85.59	1.812

#1	.0047	.0003	-.2976	-.0017	.1013
#2	.0039	.0003	-.4960	-.0009	.1050
#3	.0043	-.0011	-.2480	-.0001	.1026

Method: ICAP3 Sample Name: PBL, N7M3946 BLANK Operator: DK

Run Time: 03/17/94 13:33:59

Comment: N7M3946M,N7M3946,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0076	.0002	.0002	.0013	.0123	.0117	-.0037
SDev	.0120	.0005	.0010	.0015	.0045	.0029	.0071
%RSD	157.0	269.3	457.3	114.7	36.84	24.67	191.0

#2	-.0035	-.0000	.0012	.0029	.0165	.0131	-.0105
#3	-.0211	-.0002	.0003	-.0000	.0129	.0137	-.0045
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0012	.0029	.0002	-.0015	.0070	.0360	-.0001
SDev	.0042	.0006	.0020	.0123	.0025	.0411	.0002
%RSD	354.6	19.86	1346.	808.0	36.30	114.1	118.0
#1	.0045	.0025	.0006	.0050	.0090	.0794	-.0003
#2	-.0036	.0036	.0019	-.0157	.0041	-.0022	-.0000
#3	.0027	.0028	-.0021	.0061	.0077	.0307	-.0000
Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0001	.0003	-.0007	-.0119	.0364	.0260	.1085
SDev	.0016	.0002	.0021	.0196	.0294	.0015	.1418
%RSD	1039.	60.07	325.8	165.0	80.71	5.623	130.7
#1	.0007	.0003	.0003	.0096	.0556	.0276	.2714
#2	-.0019	.0001	.0008	-.0289	.0026	.0248	.0124
#3	.0007	.0005	-.0031	-.0164	.0511	.0257	.0417
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0006	-.0000	.0661	-.0004	.0049		
SDev	.0005	.0017	.3731	.0038	.0011		
%RSD	86.60	3744.	564.2	1004.	22.66		
#1	.0000	.0012	-.1736	.0037	.0062		
#2	.0009	-.0020	.4960	-.0039	.0042		
#3	.0009	.0007	-.1240	-.0009	.0042		

Method: ICAP3 Sample Name: LCSL, N7M3946 SPIKE Operator: DK  
 Run Time: 03/17/94 13:36:53  
 Comment: N7M3946MS, N7M3946, L, A5, 50, 50, 1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.776	9.596	.9740	5.074	4.927	.9575	.0895
SDev	.023	.014	.0137	.003	.024	.0135	.0136
%RSD	.4827	.1503	1.404	.0652	.4926	1.414	15.18
#1	4.801	9.605	.9816	5.073	4.951	.9536	.0994
#2	4.770	9.603	.9582	5.072	4.903	.9463	.0740
#3	4.756	9.579	.9821	5.078	4.928	.9725	.0950
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.872	4.692	4.924	4.854	.0104	-.0015	.9526
SDev	.031	.022	.023	.031	.0042	.0627	.0022
%RSD	.6439	.4741	.4619	.6315	40.46	4045.	.2302
#1	4.839	4.672	4.927	4.867	.0144	.0265	.9547
#2	4.876	4.689	4.900	4.819	.0060	-.0734	.9503

#3	4.902	4.716	4.945	4.876	.0108	.0422	.9527
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0016	.9733	.9707	.8691	.0291	.0431	.0440
SDev	.0015	.0039	.0057	.0436	.0405	.0076	.0670
%RSD	94.48	.4026	.5915	5.013	139.4	17.58	152.4
#1	.0025	.9776	.9684	.9094	.0578	.0497	.0749
#2	-.0001	.9699	.9664	.8229	-.0173	.0348	-.0329
#3	.0025	.9723	.9772	.8750	.0467	.0449	.0900
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0059	.9849	-.2976	.9689	.0281		
SDev	.0003	.0070	.2517	.0077	.0016		
%RSD	4.225	.7092	84.57	.7947	5.645		
#1	.0060	.9905	-.0248	.9738	.0291		
#2	.0056	.9770	-.5208	.9600	.0262		
#3	.0060	.9871	-.3472	.9730	.0288		

Method: ICAP3 Sample Name: MS, <sup>CLJDS110</sup> ~~CLJDS10~~-MIX SPK Operator: DK  
 Run Time: 03/17/94 13:40:20  
 Comment: JM4369MS,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	4.917	9.409	.9769	5.028	4.932	.9999	.0894
SDev	.046	.089	.0068	.035	.034	.0163	.0030
%RSD	.9279	.9495	.6949	.7047	.6912	1.632	3.399
#1	4.962	9.507	.9844	5.064	4.972	.9831	.0926
#2	4.918	9.390	.9711	5.027	4.913	1.001	.0866
#3	4.871	9.331	.9752	4.993	4.912	1.016	.0889

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	4.988	10.45	4.863	4.790	.1037	.8757	.9580
SDev	.069	.07	.020	.032	.0009	.0350	.0067
%RSD	1.374	.6863	.4203	.6673	.8951	3.999	.6955
#1	5.064	10.52	4.887	4.826	.1047	.9070	.9648
#2	4.971	10.45	4.848	4.775	.1031	.8821	.9577
#3	4.930	10.38	4.855	4.768	.1032	.8379	.9515

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0067	1.678	.9681	.8982	.1965	3.362	S3992.
SDev	.0005	.011	.0058	.0124	.0128	.023	.
%RSD	7.698	.6592	.6030	1.381	6.511	.6773	.0035
#1	.0070	1.690	.9743	.9108	.2101	3.387	S3992.
#2	.0070	1.675	.9675	.8977	.1946	3.359	S3992.
#3	.0061	1.668	.9627	.8860	.1847	3.342	S3992.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0274	.9755	.1405	.9705	.1398
SDev	.0000	.0068	.3160	.0096	.0013
%RSD	.0000	.6993	224.8	.9852	.8959
#1	.0274	.9826	-.2232	.9806	.1412
#2	.0274	.9749	.3472	.9692	.1395
#3	.0274	.9690	.2976	.9616	.1387

Method: ICAP3 Sample Name: MSD, CLJDS11D MIXDUP Operator: DK  
 Run Time: 03/17/94 13:43:22  
 Comment: JM4369MR,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.854	9.279	.9630	4.959	4.874	.9806	.0901
SDev	.034	.082	.0041	.031	.030	.0308	.0073
%RSD	.6945	.8880	.4244	.6241	.6112	3.144	8.127
#1	4.816	9.187	.9583	4.929	4.857	.9836	.0985
#2	4.881	9.345	.9657	4.991	4.908	1.010	.0859
#3	4.864	9.306	.9649	4.956	4.855	.9484	.0858

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.882	10.49	4.806	4.735	.1033	.8994	.9450
SDev	.030	.05	.029	.033	.0038	.0404	.0067
%RSD	.6089	.5059	.5983	.6922	3.665	4.498	.7068
#1	4.850	10.44	4.780	4.717	.1071	.9375	.9378
#2	4.909	10.55	4.837	4.773	.1031	.9037	.9509
#3	4.886	10.48	4.800	4.714	.0996	.8570	.9463

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0073	1.674	.9588	.8898	.2042	3.443	S3991.
SDev	.0013	.001	.0044	.0363	.0293	.018	.
%RSD	17.67	.0458	.4627	4.084	14.33	.5372	.0041
#1	.0088	1.674	.9549	.8953	.2278	3.425	S3991.
#2	.0066	1.674	.9636	.9230	.2134	3.462	S3991.
#3	.0066	1.675	.9578	.8510	.1715	3.442	S3991.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0277	.9626	.6035	.9562	.0897
SDev	.0005	.0052	.6046	.0040	.0008
%RSD	1.786	.5386	100.2	.4202	.9520
#1	.0274	.9592	.3720	.9525	.0899
#2	.0283	.9685	1.290	.9605	.0887
#3	.0274	.9600	.1488	.9555	.0903



Method: ICAP3 Sample Name: XX, JM4369 CLJDS11D Operator: DK  
 Run Time: 03/17/94 13:46:10  
 Comment: JM4369M,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0056	.1076	.0099	.0069	.0858	.0095	-.0018
SDev	.0106	.0033	.0011	.0014	.0069	.0180	.0065
%RSD	188.7	3.094	11.01	20.97	8.013	189.7	358.6

#1	.0055	.1114	.0107	.0085	.0926	.0226	.0037
#2	-.0156	.1053	.0086	.0061	.0860	.0168	-.0090
#3	-.0068	.1061	.0102	.0060	.0789	-.0110	-.0001

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0577	5.798	.0105	.0026	.1004	.8735	.0001
SDev	.0040	.046	.0023	.0151	.0014	.0040	.0002
%RSD	6.974	.7986	21.92	572.2	1.396	.4605	152.7

#1	.0616	5.843	.0130	.0156	.0989	.8781	.0004
#2	.0535	5.751	.0084	-.0139	.1008	.8705	.0001
#3	.0580	5.801	.0102	.0062	.1016	.8720	-.0001

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0045	.7180	.0003	-.0134	.1987	3.399	S3991.
SDev	.0007	.0056	.0017	.0088	.0108	.035	.
%RSD	15.28	.7761	524.7	66.01	5.453	1.042	.0074

#1	.0039	.7243	-.0016	-.0070	.1924	3.427	S3992.
#2	.0043	.7138	.0013	-.0235	.1924	3.359	S3991.
#3	.0052	.7159	.0013	-.0097	.2112	3.411	S3991.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0223	.0024	.2976	.0005	.0881
SDev	.0009	.0011	.1736	.0022	.0012
%RSD	3.846	44.85	58.33	453.8	1.400

#1	.0231	.0033	.1736	.0021	.0892
#2	.0214	.0012	.2232	-.0020	.0882
#3	.0223	.0026	.4960	.0014	.0868

Method: ICAP3 Sample Name: XX, CLJDS11D DUP Operator: DK  
 Run Time: 03/17/94 13:49:12  
 Comment: JM4369M,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0076	.1037	.0094	.0024	.0623	-.0007	-.0043
SDev	.0095	.0010	.0005	.0006	.0120	.0187	.0054

#1	.0029	.1048	.0098	.0018	.0615	.0005	-.0016
#2	-.0103	.1030	.0088	.0023	.0508	-.0199	-.0105
#3	-.0156	.1032	.0095	.0031	.0747	.0173	-.0008

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0517	5.682	.0077	.0012	.0946	.8569	-.0002
SDev	.0045	.036	.0024	.0020	.0022	.0546	.0002
%RSD	8.623	.6316	30.59	175.3	2.305	6.373	70.11

#1	.0562	5.724	.0097	.0024	.0969	.9087	-.0003
#2	.0473	5.660	.0051	-.0012	.0925	.7999	-.0000
#3	.0517	5.663	.0083	.0022	.0943	.8620	-.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0034	.7415	-.0015	-.0101	.1939	3.388	S3992.
SDev	.0004	.0073	.0012	.0256	.0226	.027	.
%RSD	13.04	.9894	84.24	253.4	11.63	.7915	.0026

#1	.0039	.7499	-.0026	.0137	.2035	3.419	S3992.
#2	.0030	.7380	-.0002	-.0371	.1682	3.369	S3992.
#3	.0034	.7365	-.0016	-.0069	.2101	3.378	S3992.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0223	.0003	.1075	.0001	.0988		
SDev	.0000	.0017	.3275	.0023	.0013		
%RSD	.0000	528.5	304.7	2015.	1.344		

#1	.0223	.0017	.1736	.0021	.0999		
#2	.0223	-.0016	.3968	-.0024	.0973		
#3	.0223	.0009	-.2480	.0006	.0991		

Method: ICAP3    Sample Name: XX, JM4363 CLJCSS43    Operator: DK  
Run Time: 03/17/94 13:52:08  
Comment: JM4363M,N7M3946,L,A5,50,50,1  
Mode: CONC    Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0035	.2957	.0000	.0037	.0153	.0195	-.0067
SDev	.0047	.0014	.0009	.0011	.0032	.0227	.0049
%RSD	132.9	.4587	68500.	28.54	20.64	116.9	72.99

#1	.0088	.2967	.0010	.0027	.0164	.0405	-.0075
#2	.0017	.2961	-.0003	.0048	.0177	.0226	-.0112
#3	-.0000	.2941	-.0007	.0035	.0117	-.0047	-.0015

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0068	.1743	.0038	.0017	.1188	2.544	-.0001
SDev	.0010	.0057	.0013	.0066	.0024	.013	.0002
%RSD	15.04	3.282	33.31	390.2	1.977	.5116	116.0

#1	.0062	.1801	.0027	-.0046	.1206	2.539	-.0001
#2	.0080	.1740	.0051	.0012	.1197	2.559	-.0000
#3	.0062	.1687	.0035	.0085	.1161	2.535	-.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0109	.0029	.0000	.0081	.1744	1.142	S3996.
SDev	.0005	.0004	.0006	.0071	.0166	.003	.
%RSD	4.745	12.34	15270.	87.81	9.522	.2948	.0032

#1	.0106	.0031	-.0006	.0040	.1659	1.142	S3996.
#2	.0115	.0032	.0003	.0040	.1935	1.145	S3996.
#3	.0106	.0025	.0003	.0164	.1637	1.139	S3996.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0120	.0006	.0909	.0011	.1840		
SDev	.0000	.0014	.3861	.0027	.0018		
%RSD	.0000	220.2	424.6	238.3	.9995		

#1	.0120	-.0008	.0496	.0014	.1860		
#2	.0120	.0020	.4960	-.0017	.1825		
#3	.0120	.0007	-.2728	.0037	.1834		

Method: ICAP3      Sample Name: XX, JM4364 CLJCSS44      Operator: DK  
 Run Time: 03/17/94 13:56:09  
 Comment: JM4364M,N7M3946,L,A5,50,50,1  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0105	.2603	.0014	.0020	.0308	-.0068	-.0097
SDev	.0158	.0015	.0006	.0021	.0231	.0279	.0088
%RSD	150.0	.5654	46.74	103.6	74.95	410.6	90.70

#1	-.0263	.2586	.0013	-.0002	.0057	-.0383	-.0194
#2	-.0105	.2610	.0007	.0022	.0356	.0032	-.0022
#3	.0053	.2612	.0020	.0040	.0512	.0147	-.0075

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0054	.4186	-.0005	-.0035	.1699	1.014	-.0001
SDev	.0071	.0037	.0022	.0183	.0045	.056	.0002
%RSD	132.2	.8737	430.1	519.6	2.642	5.526	114.7

#1	-.0027	.4144	-.0024	-.0237	.1647	.9492	-.0003
#2	.0107	.4209	-.0009	.0010	.1723	1.045	-.0001
#3	.0080	.4206	.0018	.0121	.1727	1.048	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0076	.0359	-.0033	-.0238	.0497	.3218	S3997.
SDev	.0009	.0007	.0037	.0267	.0393	.0091	.
%RSD	12.25	2.012	113.9	112.1	79.05	2.820	.0023

#1	.0066	.0352	-.0075	-.0507	.0070	.3114	S3997.
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#2	.0079	.0360	-.0016	.0027	.0578	.3258	S3997.
#3	.0084	.0366	-.0006	-.0234	.0843	.3282	S3997.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0081	-.0010	-.0413	-.0013	.1440		
SDev	.0007	.0041	.6227	.0029	.0019		
%RSD	9.116	390.6	1506.	222.7	1.296		
#1	.0073	-.0054	-.6944	-.0043	.1423		
#2	.0086	-.0005	.0248	.0014	.1436		
#3	.0086	.0027	.5456	-.0009	.1460		

Method: ICAP3      Sample Name: CCV, 0809      Operator: DK  
 Run Time: 03/17/94 14:00:16  
 Comment: IB,N7M3946,N7M3946  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	2.270	4.653	1.289	.4982	2.439	2.365	.5955
SDev	.018	.039	.004	.0051	.015	.018	.0028
%RSD	.8027	.8432	.3388	1.019	.6238	.7438	.4758
#1	2.254	4.642	1.286	.4964	2.432	2.365	.5923
#2	2.290	4.697	1.294	.5040	2.457	2.382	.5968
#3	2.267	4.620	1.288	.4943	2.429	2.347	.5975

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.234	4.740	1.261	.4841	2.301	2.284	.5789
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.6157	1.260	1.296	2.270	2.344	4.764	.1221
SDev	.0049	.005	.003	.003	.014	.024	.0009
%RSD	.7989	.4219	.2387	.1259	.5763	.5037	.7222

#1	.6106	1.256	1.299	2.268	2.340	4.737	.1219
#2	.6204	1.266	1.297	2.273	2.359	4.784	.1231
#3	.6160	1.259	1.293	2.269	2.333	4.772	.1213

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6256	1.237	1.275	2.171	2.334	4.749	.1200
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	2.307	1.267	.1136	2.320	12.23	12.31	12.18
SDev	.016	.007	.0015	.012	.07	.08	.09
%RSD	.6953	.5379	1.305	.5329	.5585	.6583	.7326

#1	2.303	1.262	.1140	2.333	12.21	12.29	12.17
#2	2.325	1.275	.1149	2.319	12.31	12.40	12.28
#3	2.293	1.265	.1120	2.308	12.18	12.24	12.10

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.320	1.226	.1112	2.281	11.73	11.93	11.97
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	1.258	1.280	11.67	2.401	1.156
SDev	.010	.009	.10	.014	.007
%RSD	.7934	.6863	.8846	.5900	.6350

#1	1.255	1.278	11.56	2.396	1.154
#2	1.269	1.290	11.76	2.417	1.164
#3	1.250	1.273	11.71	2.390	1.149

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.261	1.238	11.52	2.370	1.125
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3      Sample Name: CCB  
 Run Time: 03/17/94 14:03:08  
 Comment: ID,N7M3946,N7M3946  
 Mode: CONC      Corr. Factor: 1

Operator: DK

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0316	.0003	-.0006	-.0008	.0139	.0070	-.0040
SDev	.0265	.0004	.0003	.0005	.0046	.0100	.0028
%RSD	83.87	153.4	52.27	65.42	33.36	142.7	71.16

#1	.0598	.0004	-.0008	-.0006	.0087	.0173	-.0052
#2	.0281	.0006	-.0009	-.0013	.0177	.0063	-.0007
#3	.0070	-.0002	-.0003	-.0003	.0153	-.0026	-.0060

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0021	.0022	.0002	.0091	.0084	.0198	-.0000
SDev	.0026	.0008	.0027	.0035	.0016	.0148	.0000
%RSD	123.7	38.73	1258.	38.82	18.44	75.05	3.855

#1	-.0009	.0016	-.0014	.0051	.0068	.0059	-.0000
#2	.0036	.0031	.0033	.0116	.0086	.0354	-.0001
#3	.0036	.0017	-.0013	.0105	.0099	.0180	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0007	.0001	.0007	-.0087	.0364	.0021	.1159
SDev	.0000	.0005	.0020	.0173	.0256	.0024	.0294
%RSD	.0000	754.2	311.4	199.3	70.24	116.2	25.39

#1	.0007	-.0004	.0023	-.0247	.0070	-.0002	.1344
#2	.0007	.0001	.0013	.0096	.0534	.0018	.1313
#3	.0007	.0005	-.0016	-.0110	.0489	.0046	.0820

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0003	-.0006	-.1571	.0006	.0071

SDev	.0003	.0010	.5390	.0020	.0006
%RSD	86.60	160.2	343.2	318.1	8.058
#1	.0000	-.0014	-.7688	-.0009	.0075
#2	.0004	.0005	.2480	.0029	.0064
#3	.0004	-.0010	.0496	-.0001	.0072

Jm4365 Dr 3/17/94  
 Method: ICAP3 Sample Name: XX, JM4365 CLJCSS45 Operator: DK  
 Run Time: 03/17/94 14:06:04  
 Comment: JM4365-4M,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0000	.3442	-.0003	.0028	.0098	.0135	.0012
SDev	.0216	.0006	.0002	.0031	.0153	.0017	.0071
%RSD	254400.	.1846	86.07	110.2	156.4	12.53	565.9
#1	.0158	.3444	-.0003	.0063	.0249	.0142	-.0067
#2	-.0246	.3435	-.0004	.0016	.0099	.0147	.0037
#3	.0088	.3448	-.0000	.0005	-.0056	.0116	.0067

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0036	.1417	.0087	-.0009	.0536	2.015	-.0002
SDev	.0024	.0013	.0032	.0091	.0005	.026	.0002
%RSD	66.10	.9220	36.28	1013.	.9566	1.294	69.69
#1	.0009	.1432	.0120	-.0109	.0530	1.990	-.0000
#2	.0054	.1410	.0082	.0068	.0539	2.014	-.0003
#3	.0045	.1410	.0058	.0015	.0539	2.042	-.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0088	.0019	-.0002	-.0032	.2002	4.080	S3997.
SDev	.0004	.0001	.0008	.0064	.0192	.003	.
%RSD	5.085	5.789	519.2	196.3	9.568	.0647	.0109
#1	.0084	.0019	.0003	-.0070	.1836	4.080	S3998.
#2	.0088	.0019	-.0011	.0041	.1958	4.078	S3997.
#3	.0093	.0020	.0003	-.0068	.2211	4.083	S3997.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avgc	.0193	.0017	.2067	.0015	.1318
SDev	.0004	.0006	.4226	.0027	.0015
%RSD	2.222	34.58	204.5	178.8	1.179
#1	.0197	.0013	.6944	-.0009	.1313
#2	.0189	.0013	-.0496	.0010	.1305
#3	.0193	.0023	-.0248	.0044	.1335

Method: ICAP3 Sample Name: XX, JM4366 CLJCLL46 Operator: DK  
 Run Time: 03/17/94 14:09:05

Comment: JM4366M,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0009	.2966	-.0001	.0061	.0197	.0375	-.0010
SDev	.0135	.0004	.0003	.0000	.0052	.0114	.0026
%RSD	1553.	.1372	544.1	.0061	26.21	30.46	264.6

#1	-.0026	.2967	.0003	.0061	.0141	.0252	-.0037
#2	-.0106	.2970	-.0004	.0061	.0207	.0478	-.0007
#3	.0158	.2962	-.0001	.0061	.0243	.0394	.0015

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0054	.1303	.0104	.0013	.0255	1.558	-.0002
SDev	.0015	.0002	.0048	.0051	.0011	.001	.0002
%RSD	28.86	.1283	45.99	378.6	4.373	.0506	68.72

#1	.0045	.1302	.0104	.0072	.0267	1.559	-.0003
#2	.0045	.1305	.0056	-.0016	.0254	1.559	-.0003
#3	.0071	.1302	.0152	-.0016	.0245	1.557	-.0001

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0007	.0123	-.0010	.0068	.1141	.5169	S3998.
SDev	.0000	.0004	.0007	.0143	.0086	.0015	.
%RSD	.0000	3.569	75.69	211.0	7.558	.2833	.0017

#1	.0007	.0128	-.0016	-.0097	.1096	.5156	S3998.
#2	.0007	.0119	-.0012	.0137	.1085	.5166	S3998.
#3	.0007	.0122	-.0002	.0164	.1240	.5185	S3998.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0069	.0013	.1075	.0023	.1462
SDev	.0000	.0004	.2080	.0021	.0016
%RSD	.0000	33.12	193.5	92.01	1.096

#1	.0069	.0012	-.0248	.0002	.1480
#2	.0069	.0009	-.0000	.0044	.1450
#3	.0069	.0018	.3472	.0022	.1456

Method: ICAP3 Sample Name: XX, JM4367 CLJDS010 Operator: DK  
 Run Time: 03/17/94 14:12:18  
 Comment: JM4367M,N7M3946,L,A5,50,50,1  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0037	.3789	.0058	.0069	.0446	.0023	-.0045
SDev	.0120	.0008	.0003	.0018	.0134	.0118	.0007
%RSD	320.2	.2054	5.147	26.39	29.96	513.8	16.53

#1	.0018	.3780	.0059	.0090	.0546	-.0026	-.0052
#2	.0045	.3796	.0060	.0057	.0498	.0158	-.0038
#3	-.0175	.3790	.0055	.0059	.0294	-.0063	-.0045

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0467	14.01	.0061	.0032	.1344	1.704	-.0001
SDev	.0021	.04	.0037	.0077	.0014	.010	.0002
%RSD	4.414	.2914	60.82	242.7	1.018	.6012	113.8

#1	.0491	13.96	.0066	.0049	.1356	1.709	-.0001
#2	.0455	14.04	.0096	.0099	.1347	1.692	-.0000
#3	.0455	14.01	.0022	-.0053	.1329	1.711	-.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0063	.2137	-.0021	-.0097	.1450	1.437	S3994.
SDev	.0007	.0016	.0009	.0171	.0048	.003	.
%RSD	10.91	.7618	40.01	176.6	3.319	.2083	.0038

#1	.0070	.2119	-.0026	-.0289	.1483	1.435	S3994.
#2	.0057	.2150	-.0026	.0040	.1395	1.440	S3994.
#3	.0061	.2144	-.0011	-.0042	.1472	1.436	S3994.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0129	.0022	.3968	.0015	.1328
SDev	.0000	.0021	.3224	.0012	.0013
%RSD	.0000	94.35	81.25	81.30	.9563

#1	.0129	.0045	.7688	.0029	.1313
#2	.0129	.0016	.1984	.0010	.1334
#3	.0129	.0005	.2232	.0006	.1337

Method: ICAP3      Sample Name: XX, JM4368 CLJDS11      Operator: DK  
 Run Time: 03/17/94 14:15:35  
 Comment: JM4368M,N7M3946,L,A5,50,50,1  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0063	.3037	.0212	.0041	1.849	.0110	-.0035
SDev	.0137	.0028	.0004	.0017	.014	.0050	.0017
%RSD	218.3	.9308	1.796	41.16	.7399	45.35	48.75

#1	-.0104	.3055	.0211	.0031	1.842	.0116	-.0045
#2	-.0174	.3052	.0209	.0031	1.864	.0058	-.0045
#3	.0090	.3004	.0216	.0060	1.840	.0158	-.0015

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.028	39.75	.0096	-.0027	.1045	.9748	-.0002
SDev	.016	.30	.0022	.0033	.0012	.0120	.0002
%RSD	.7823	.7576	22.42	124.7	1.120	1.231	69.66

#1	2.039	39.91	.0116	-.0064	.1049	.9858	-.0000
#2	2.035	39.94	.0073	-.0000	.1054	.9767	-.0003
#3	2.010	39.40	.0099	-.0016	.1032	.9620	-.0003



Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0027	.5448	-.0021	-.0439	.2469	3.304	S3996.
SDev	.0009	.0020	.0013	.0060	.0109	.026	.
%RSD	34.69	.3602	61.26	13.58	4.411	.7964	.0039

#1	.0034	.5470	-.0006	-.0371	.2344	3.320	S3996.
#2	.0030	.5436	-.0031	-.0466	.2520	3.318	S3996.
#3	.0016	.5437	-.0026	-.0480	.2543	3.273	S3996.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0257	.0020	.0413	.0011	.1190
SDev	.0000	.0013	.4589	.0019	.0023
%RSD	.0000	63.19	1110.	169.7	1.962

#1	.0257	.0011	-.4216	-.0009	.1193
#2	.0257	.0034	.0496	.0014	.1212
#3	.0257	.0015	.4960	.0029	.1166

Method: ICAP3      Sample Name: LD, CLJDS11 @5X      Operator: DK  
 Run Time: 03/17/94 14:19:42  
 Comment: JM4368ML,N7M3946,L,A5,50,50,5  
 Mode: CONC      Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0038	.0623	.0046	.0016	.3947	.0158	-.0015
SDev	.0119	.0007	.0004	.0019	.0159	.0219	.0049
%RSD	309.8	1.124	8.547	117.3	4.031	139.0	326.0

#1	-.0035	.0627	.0042	.0009	.3861	.0131	-.0008
#2	-.0026	.0614	.0047	.0001	.3849	-.0047	.0030
#3	.0176	.0626	.0050	.0037	.4130	.0389	-.0067

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.4169	8.326	.0018	.0052	.0276	.2534	-.0001
SDev	.0014	.056	.0049	.0090	.0016	.0201	.0000
%RSD	.3269	.6733	274.4	173.0	5.850	7.932	5.555

#1	.4184	8.374	.0068	.0029	.0262	.2539	-.0000
#2	.4157	8.264	-.0031	.0152	.0294	.2733	-.0001
#3	.4166	8.338	.0016	-.0024	.0271	.2331	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0004	.1124	-.0013	-.0210	.0898	.7112	262.5
SDev	.0017	.0012	.0022	.0075	.0174	.0037	1.4
%RSD	378.6	1.065	168.8	35.61	19.32	.5264	.5506

#1	.0012	.1136	-.0036	-.0288	.0975	.7131	263.4
#2	.0016	.1112	-.0011	-.0205	.1019	.7069	260.8
#3	-.0015	.1123	.0008	-.0138	.0699	.7136	263.2

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
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Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0071	.0002	-.0000	.0013	.0569
SDev	.0003	.0007	.5811	.0029	.0011
%RSD	3.464	421.5	177e6	229.7	1.968
#1	.0073	.0007	-.2976	.0006	.0556
#2	.0069	-.0007	-.3720	.0044	.0578
#3	.0073	.0005	.6696	-.0013	.0571

Method: ICAP3 Sample Name: AS, CLJDS11 POSTSPK Operator: DK  
 Run Time: 03/17/94 14:22:37  
 Comment: JMA368MP,N7M3946,L,A5,50,50,1  
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.740	9.313	.9613	4.867	6.313	.9688	.0821
SDev	.031	.047	.0067	.019	.005	.0193	.0040
%RSD	.6636	.5084	.6962	.3814	.0788	1.990	4.814
#1	4.722	9.362	.9557	4.882	6.317	.9584	.0791
#2	4.722	9.268	.9594	4.846	6.308	.9569	.0866
#3	4.776	9.309	.9687	4.873	6.315	.9910	.0806

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	6.490	39.00	4.717	4.628	.1765	.8286	.9305
SDev	.023	.16	.031	.006	.0280	.0503	.0041
%RSD	.3505	.4067	.6557	.1326	15.85	6.064	.4373
#1	6.513	39.18	4.752	4.623	.1493	.7974	.9351
#2	6.467	38.87	4.704	4.635	.1750	.8866	.9275
#3	6.489	38.96	4.695	4.627	.2052	.8019	.9288

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0037	1.398	.9413	.8356	.1976	2.884	S4000.
SDev	.0014	.007	.0009	.0198	.0265	.008	.
%RSD	36.66	.5303	.1007	2.366	13.41	.2776	.0077
#1	.0025	1.390	.9423	.8318	.1715	2.891	S4000.
#2	.0052	1.400	.9404	.8570	.2245	2.885	S4000.
#3	.0034	1.405	.9413	.8180	.1969	2.875	S4000.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0277	.9463	.5043	.9379	.2122
SDev	.0005	.0022	.6592	.0037	.0010
%RSD	1.786	.2328	130.7	.3945	.4878
#1	.0274	.9473	.0992	.9411	.2133
#2	.0274	.9437	.1488	.9388	.2117
#3	.0283	.9477	1.265	.9339	.2114

Method: ICAP3 Sample Name: CCV, 0809

Operator: DK

Run Time: 03/17/94 14:26:28

Comment: IB,N7M3946

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	2.277	4.680	1.291	.5061	2.423	2.384	.5933
SDev	.034	.027	.003	.0119	.019	.022	.0112
%RSD	1.497	.5842	.1953	2.355	.7968	.9048	1.896

#1	2.238	4.664	1.288	.5194	2.404	2.370	.5840
#2	2.302	4.712	1.292	.5022	2.442	2.409	.6058
#3	2.290	4.664	1.293	.4966	2.423	2.373	.5900

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.234	4.740	1.261	.4841	2.301	2.284	.5789
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.6338	1.359	1.306	2.283	2.344	4.785	.1237
SDev	.0193	.154	.010	.025	.027	.031	.0015
%RSD	3.043	11.35	.7622	1.092	1.171	.6557	1.196

#1	.6552	Q1.537	1.297	2.282	2.314	4.751	.1251
#2	.6285	1.283	1.302	2.309	2.369	4.812	.1236
#3	.6178	1.258	1.317	2.259	2.348	4.792	.1222

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6256	1.237	1.275	2.171	2.334	4.749	.1200
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	2.309	1.272	.1164	2.309	12.19	12.32	Q13.79
SDev	.026	.014	.0047	.007	.18	.15	2.54
%RSD	1.125	1.107	4.003	.3129	1.438	1.197	18.42

#1	2.283	1.260	.1189	2.301	12.00	12.16	Q16.73
#2	2.335	1.288	.1193	2.312	12.34	12.46	12.42
#3	2.309	1.269	.1110	2.314	12.22	12.34	12.23

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.320	1.226	.1112	2.281	11.73	11.93	11.97
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avgc	1.263	1.278	11.47	2.403	1.145
SDev	.013	.013	.33	.027	.016
%RSD	1.001	1.056	2.919	1.119	1.440

#1	1.251	1.264	11.48	2.375	1.127
#2	1.276	1.291	11.81	2.428	1.158
#3	1.263	1.278	11.14	2.405	1.151

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
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Avge	.2149	.3843	.0093	.0233	.1662	.2172	Q.0142
SDev	.0132	.0015	.0004	.0015	.0132	.0125	.0016
%RSD	6.150	.3962	3.894	6.576	7.973	5.744	10.96
#1	.2302	.3860	.0095	.0233	.1813	.2316	Q.0130
#2	.2082	.3830	.0088	.0248	.1604	.2111	Q.0160
#3	.2065	.3839	.0094	.0217	.1568	.2090	Q.0137
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.2208	.4021	.0108	.0210	.1600	.2014	.0220
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0978	.0396	.0788	.2010	.2001	.4137	.0098
SDev	.0027	.0011	.0005	.0082	.0029	.0078	.0000
%RSD	2.786	2.710	.6292	4.094	1.429	1.880	.0050
#1	.0955	.0388	.0783	.1972	.2022	.4047	.0098
#2	.0972	.0392	.0790	.1955	.1968	.4174	.0098
#3	.1008	.0408	.0792	.2105	.2013	.4189	.0098
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1043	.0412	.0882	.2086	.2101	.4069	.0101
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0009	.0246	.0190	.1115	1.994	9.994	9.913
SDev	.0007	.0003	.0027	.0096	.005	.015	.020
%RSD	76.38	1.170	14.17	8.575	.2537	.1456	.1988
#1	-.0015	.0243	.0208	.1060	1.990	10.01	9.920
#2	-.0001	.0246	.0204	.1060	1.993	9.978	9.890
#3	-.0010	.0248	.0159	.1225	1.999	9.997	9.928
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0004	.0519	9.507	.1024	Q.0096		
SDev	.0000	.0013	.485	.0004	.0012		
%RSD	.0000	2.421	5.101	.4302	12.09		
#1	.0004	.0525	9.970	.1019	Q.0092		
#2	.0004	.0505	9.549	.1026	Q.0109		
#3	.0004	.0528	9.003	.1026	Q.0087		
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail		
Value		.0526		.1044	.0191		
Range		25.00		25.00	25.00		

Run Time: 03/17/94 14:36:34  
 Comment: IF,N7M3946  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0012	.0017	-.0084	-.0068	.0005	.0072	-.0072
SDev	.0108	.0005	.0009	.0021	.0082	.0224	.0011
%RSD	868.1	30.14	10.29	30.43	1776.	310.7	15.78

#1	.0067	.0018	-.0076	-.0045	.0099	.0288	-.0082
#2	.0031	.0023	-.0083	-.0085	-.0036	-.0160	-.0075
#3	-.0135	.0012	-.0093	-.0072	-.0049	.0088	-.0060

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0027	.0173	-.0038	.0121	176.2	481.6	-.0001
SDev	.0027	.0010	.0055	.0134	1.2	3.7	.0000
%RSD	99.99	5.700	144.0	110.7	.6655	.7703	1.506

#1	.0053	.0184	-.0037	.0186	175.5	479.8	-.0000
#2	.0027	.0165	.0016	.0212	177.5	485.9	-.0001
#3	.0000	.0169	-.0093	-.0033	175.4	479.2	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0028	-.0024	.0025	.0193	245.8	188.0	.0071
SDev	.0004	.0003	.0047	.0105	1.8	1.3	.0214
%RSD	15.79	14.62	187.7	54.27	.7195	.6964	302.8

#1	-.0033	-.0027	.0069	.0139	244.8	187.2	.0265
#2	-.0024	-.0021	.0031	.0314	247.8	189.5	-.0158
#3	-.0028	-.0023	-.0025	.0127	244.7	187.3	.0104

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avgc	.0069	-.0030	.0165	.0017	.1542
SDev	.0000	.0011	.5024	.0006	.0017
%RSD	.0000	36.53	3039.	36.85	1.089

#1	.0069	-.0018	.4216	.0010	.1548
#2	.0069	-.0037	.1736	.0019	.1554
#3	.0069	-.0037	-.5456	.0021	.1522

Method: ICAP3 Sample Name: ICSAB,0786 Operator: DK  
 Run Time: 03/17/94 14:39:38  
 Comment: IG,N7M3946  
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.9330	.4620	.8985	.4638	.9191	.9022	.9209
SDev	.0173	.0018	.0033	.0032	.0092	.0159	.0088
%RSD	1.856	.3898	.3673	.6935	1.003	1.767	.9522

#1	.9297	.4633	.8997	.4655	.9192	.8986	.9244
#2	.9176	.4599	.8947	.4601	.9098	.8884	.9109



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 Element File: RAS.GEL                    Element: As                    Wavelength: 193.7  
 Date: 03/17/94                            Time: 09:51                    Slit: 0.70 L  
 Data File: A031794.DAT                   ID/Wt File: A031694.IDW           Lamp Current: 0  
 Technique: HGA                            Calib. Type: Linear            Energy: 48  
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As    ID: CAL BLK                            Seq. No.: 00001            A/S Pos.: 0            Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 1 (Peak Stored)                    Time: 09:54  
 Peak Area (A-s): 0.001                    Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.025            Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): 0.001

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 2 (Peak Stored)                    Time: 09:57  
 Peak Area (A-s): -0.001                    Peak Height (A): 0.022  
 Background Pk Area (A-s): 0.024            Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): -0.001

Mean Pk Area (A-s):            -0.000                    SD: 0.0014                    RSD(%): 1367.07

Auto-zero performed.

-----  
 As    ID: STD 1 IN0781                    Seq. No.: 00002            A/S Pos.: 40            Date: 03/17/94

uL dispensed: 33 from 0, 5 from 39, 2 from 40  
 Replicate 1 (Peak Stored)                    Time: 10:01  
 Peak Area (A-s): 0.037                    Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.029            Background Pk Height (A): 0.021  
 Blank Corrected Pk Area (A-s): 0.037

uL dispensed: 33 from 0, 5 from 39, 2 from 40  
 Replicate 2 (Peak Stored)                    Time: 10:05  
 Peak Area (A-s): 0.043                    Peak Height (A): 0.111  
 Background Pk Area (A-s): 0.027            Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): 0.043

Mean Pk Area (A-s):            0.040                    SD: 0.0045                    RSD(%): 11.29

Standard number 1 applied. [4.00]  
 Correlation coefficient: 1.00000            Slope: 0.0100                    Int: 0.000

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 As    ID: STD 2                            Seq. No.: 00003            A/S Pos.: 40            Date: 03/17/94

uL dispensed: 30 from 0, 5 from 39, 5 from 40  
 Replicate 1 (Peak Stored)                    Time: 10:08  
 Peak Area (A-s): 0.077                    Peak Height (A): 0.236  
 Background Pk Area (A-s): 0.032            Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.077  
 Concentration (ug/L ): 7.70

uL dispensed: 30 from 0, 5 from 39, 5 from 40  
 Replicate 2 (Peak Stored)                    Time: 10:12  
 Peak Area (A-s): 0.081                    Peak Height (A): 0.234  
 Background Pk Area (A-s): 0.030            Background Pk Height (A): 0.021



Blank Corrected Pk Area (A-s): 0.081  
Concentration (ug/L ): 8.09

Mean Conc (ug/L ): 7.90 SD: 0.274 RSD(%): 3.47

Standard number 2 applied. [10.00]  
Correlation coefficient: 0.99250 Slope: 0.0078 Int: 0.003

As ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 03/17/94

uL dispensed: 25 from 0, 5 from 39, 10 from 40  
Replicate 1 (Peak Stored) Time: 10:16  
Peak Area (A-s): 0.160 Peak Height (A): 0.446  
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.160  
Concentration (ug/L ): 20.08

uL dispensed: 25 from 0, 5 from 39, 10 from 40  
Replicate 2 (Peak Stored) Time: 10:20  
Peak Area (A-s): 0.156 Peak Height (A): 0.440  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.156  
Concentration (ug/L ): 19.62

Mean Conc (ug/L ): 19.85 SD: 0.326 RSD(%): 1.64

Standard number 3 applied. [20.00]  
Correlation coefficient: 0.99828 Slope: 0.0077 Int: 0.004

As ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 03/17/94

uL dispensed: 20 from 0, 5 from 39, 15 from 40  
Replicate 1 (Peak Stored) Time: 10:23  
Peak Area (A-s): 0.239 Peak Height (A): 0.671  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.047  
Blank Corrected Pk Area (A-s): 0.239  
Concentration (ug/L ): 30.37

uL dispensed: 20 from 0, 5 from 39, 15 from 40  
Replicate 2 (Peak Stored) Time: 10:27  
Peak Area (A-s): 0.229 Peak Height (A): 0.685  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.229  
Concentration (ug/L ): 29.17

Mean Conc (ug/L ): 29.77 SD: 0.845 RSD(%): 2.84

Standard number 4 applied. [30.00]  
Correlation coefficient: 0.99932 Slope: 0.0077 Int: 0.004

As ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 03/17/94

uL dispensed: 15 from 0, 5 from 39, 20 from 40  
Replicate 1 (Peak Stored) Time: 10:31  
Peak Area (A-s): 0.301 Peak Height (A): 0.846  
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.057

Blank Corrected Pk Area (A-s): 0.301  
Concentration (ug/L ): 38.68

uL dispensed: 15 from 0, 5 from 39, 20 from 40  
Replicate 2 (Peak Stored) Time: 10:34  
Peak Area (A-s): 0.308 Peak Height (A): 0.981  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.059  
Blank Corrected Pk Area (A-s): 0.308  
Concentration (ug/L ): 39.55

Mean Conc (ug/L ): 39.12 SD: 0.617 RSD(%): 1.38

Standard number 5 applied. [40.00]  
Correlation coefficient: 0.99952 Slope: 0.0076 Int: 0.005

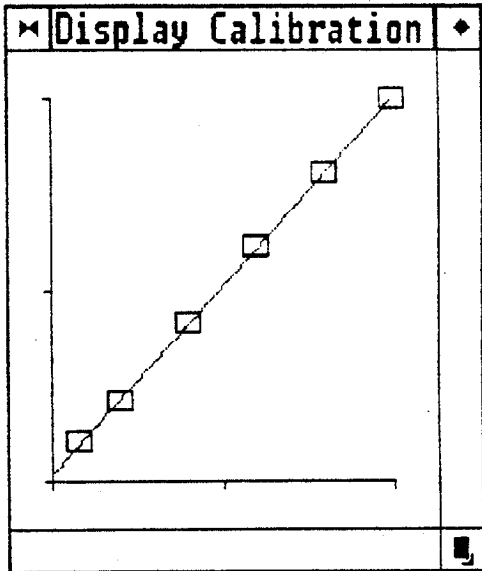
As ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 40  
Replicate 1 (Peak Stored) Time: 10:38  
Peak Area (A-s): 0.375 Peak Height (A): 1.004  
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.065  
Blank Corrected Pk Area (A-s): 0.376  
Concentration (ug/L ): 49.00

uL dispensed: 10 from 0, 5 from 39, 25 from 40  
Replicate 2 (Peak Stored) Time: 10:42  
Peak Area (A-s): 0.381 Peak Height (A): 1.018  
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.067  
Blank Corrected Pk Area (A-s): 0.381  
Concentration (ug/L ): 49.77

Mean Conc (ug/L ): 49.38 SD: 0.540 RSD(%): 1.09

Standard number 6 applied. [50.00]  
Correlation coefficient: 0.99968 Slope: 0.0075 Int: 0.006



As ID: ICV-0788 Seq. No.: 00008 A/S Pos.: 37 Date: 03/17/94

0156

uL dispensed: 10 from 0, 5 from 39, 25 from 37  
Replicate 1 (Peak Stored) Time: 10:46  
Peak Area (A-s): 0.266 Peak Height (A): 0.819  
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.266  
Concentration (ug/L ): 34.71

uL dispensed: 10 from 0, 5 from 39, 25 from 37  
Replicate 2 (Peak Stored) Time: 10:50  
Peak Area (A-s): 0.201 Peak Height (A): 0.563  
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.201  
Concentration (ug/L ): 26.11

Mean Conc (ug/L ): 30.41 SD: 6.086 RSD(%): 20.01

SB  
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Automatic  
Review

As ID: ICV-0788 Seq. No.: 00009 A/S Pos.: 37 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 37  
Replicate 1 (Peak Stored) Time: 10:54  
Peak Area (A-s): 0.264 Peak Height (A): 0.825  
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.264  
Concentration (ug/L ): 34.41

uL dispensed: 10 from 0, 5 from 39, 25 from 37  
Replicate 2 (Peak Stored) Time: 10:57  
Peak Area (A-s): 0.267 Peak Height (A): 0.878  
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.064  
Blank Corrected Pk Area (A-s): 0.267  
Concentration (ug/L ): 34.90

Mean Conc (ug/L ): 34.66 SD: 0.346 RSD(%): 1.00

QC sample is within range 29.5 - 36.1

As ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 1 (Peak Stored) Time: 11:01  
Peak Area (A-s): -0.006 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -1.47

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 2 (Peak Stored) Time: 11:05  
Peak Area (A-s): -0.003 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.09

Mean Conc (ug/L ): -1.28 SD: 0.264 RSD(%): 20.58

QC sample is within range

0157

As ID: CRA-0789 Seq. No.: 00011 A/S Pos.: 36 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 36  
Replicate 1 (Peak Stored) Time: 11:08  
Peak Area (A-s): 0.090 Peak Height (A): 0.263  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): 0.090  
Concentration (ug/L ): 11.29

uL dispensed: 10 from 0, 5 from 39, 25 from 36  
Replicate 2 (Peak Stored) Time: 11:12  
Peak Area (A-s): 0.066 Peak Height (A): 0.182  
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.099  
Blank Corrected Pk Area (A-s): 0.066  
Concentration (ug/L ): 8.11

Mean Conc (ug/L ): 9.70 SD: 2.253 RSD(%): 23.22

SD  
3-17-94  
Automak  
Raven

As ID: RA-0789 Seq. No.: 00012 A/S Pos.: 36 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 36  
Replicate 1 (Peak Stored) Time: 11:18  
Peak Area (A-s): 0.087 Peak Height (A): 0.275  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.087  
Concentration (ug/L ): 10.82

uL dispensed: 10 from 0, 5 from 39, 25 from 36  
Replicate 2 (Peak Stored) Time: 11:22  
Peak Area (A-s): 0.097 Peak Height (A): 0.281  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.098  
Concentration (ug/L ): 12.26

Mean Conc (ug/L ): 11.54 SD: 1.024 RSD(%): 8.87

QC sample is within range 7.50 - 12.5

As ID: PBL-N7R3945 Seq. No.: 00013 A/S Pos.: 1 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 1  
Replicate 1 (Peak Stored) Time: 11:26  
Peak Area (A-s): 0.006 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.088  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.00

uL dispensed: 10 from 0, 5 from 39, 25 from 1  
Replicate 2 (Peak Stored) Time: 11:30  
Peak Area (A-s): 0.008 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 0.35

Mean Conc (ug/L ): 0.18 Q SD: 0.246 RSD(%): 139.96

0158

As ID: FBL-N7R3945 Seq. No.: 00014 A/S Pos.: 1 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
Replicate 1 (Peak Stored) Time: 11:33  
Peak Area (A-s): 0.147 Peak Height (A): 0.410  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.147  
Concentration (ug/L ): 18.85

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
Replicate 2 (Peak Stored) Time: 11:37  
Peak Area (A-s): 0.134 Peak Height (A): 0.405  
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.134  
Concentration (ug/L ): 17.07

Mean Conc (ug/L ): 17.96 SD: 1.260 RSD(%): 7.02

Recovery is 88.9%

As ID: LC SL-N7R3945 Seq. No.: 00015 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 1 (Peak Stored) Time: 11:55  
Peak Area (A-s): 0.112 Peak Height (A): 0.357  
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.065  
Blank Corrected Pk Area (A-s): 0.112  
Concentration (ug/L ): 14.23

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 2 (Peak Stored) Time: 11:59  
Peak Area (A-s): 0.153 Peak Height (A): 0.466  
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.153  
Concentration (ug/L ): 19.67

Mean Conc (ug/L ): 16.95 SD: 3.850 RSD(%): 22.72

As ID: LC SL-N7R3945 Seq. No.: 00016 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 1 (Peak Stored) Time: 12:03  
Peak Area (A-s): 0.094 Peak Height (A): 0.239  
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.113  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 11.75

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 2 (Peak Stored) Time: 12:07  
Peak Area (A-s): 0.155 Peak Height (A): 0.464  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.156  
Concentration (ug/L ): 19.99

*Set new  
check  
auto sampler  
2/17/1*

Mean Conc (ug/L ): 15.87 SD: 5.826 RSD(%): 36.72

0159

As ID: LCSL-N7R3945 Seq. No.: 00017 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 1 (Peak Stored) Time: 12:13  
Peak Area (A-s): 0.157 Peak Height (A): 0.486  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.157  
Concentration (ug/L ): 20.18

uL dispensed: 10 from 0, 5 from 39, 25 from 2  
Replicate 2 (Peak Stored) Time: 12:17  
Peak Area (A-s): 0.157 Peak Height (A): 0.495  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.157  
Concentration (ug/L ): 20.19

Mean Conc (ug/L ): 20.19 ~~20.19~~ SD: 0.006 RSD(%): 0.03  
3-17-94

As ID: LCSL-N7R3945 Seq. No.: 00018 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 1 (Peak Stored) Time: 12:20  
Peak Area (A-s): 0.175 Peak Height (A): 0.454  
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.124  
Blank Corrected Pk Area (A-s): 0.175  
Concentration (ug/L ): 22.36

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 2 (Peak Stored) Time: 12:24  
Peak Area (A-s): 0.290 Peak Height (A): 0.774  
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.290  
Concentration (ug/L ): 37.87

Mean Conc (ug/L ): 30.22 SD: 10.831 RSD(%): 35.84

Recovery is 50.1% (outside of specified limits)

As ID: LCSL-N7R3945 Seq. No.: 00019 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 1 (Peak Stored) Time: 12:28  
Peak Area (A-s): 0.291 Peak Height (A): 0.807  
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): 0.291  
Concentration (ug/L ): 38.06

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 2 (Peak Stored) Time: 12:32  
Peak Area (A-s): 0.179 Peak Height (A): 0.446  
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.125  
Blank Corrected Pk Area (A-s): 0.179  
Concentration (ug/L ): 23.14

*Get  
return  
Del  
Suspect  
PK interference*

Mean Conc (ug/L ): 30.60 SD: 10.545 RSD(%): 34.46

Recovery is 52.1% (outside of specified limits)

As ID: CCV-0787 Seq. No.: 00020 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38
Replicate 1 (Peak Stored) Time: 12:41
Peak Area (A-s): 0.168 Peak Height (A): 0.440
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L ): 21.73

uL dispensed: 10 from 0, 5 from 39, 25 from 38
Replicate 2 (Peak Stored) Time: 12:44
Peak Area (A-s): 0.174 Peak Height (A): 0.505
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.174
Concentration (ug/L ): 22.47

Mean Conc (ug/L ): 22.10 SD: 0.528 RSD(%): 2.39

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00021 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0
Replicate 1 (Peak Stored) Time: 12:48
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L ): 0.23

uL dispensed: 10 from 0, 5 from 39, 25 from 0
Replicate 2 (Peak Stored) Time: 12:52
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): -0.35

Mean Conc (ug/L ): -0.16 SD: 0.550 RSD(%): 340.45

QC sample is within range

As ID: LCSL-N7R3945 Seq. No.: 00022 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 2
Replicate 1 (Peak Stored) Time: 12:56
Peak Area (A-s): 0.160 Peak Height (A): 0.485
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L ): 20.58

uL dispensed: 10 from 0, 5 from 39, 25 from 2
Replicate 2 (Peak Stored) Time: 12:59
Peak Area (A-s): 0.151 Peak Height (A): 0.472

Background Fk Area (A-s): 0.030  
Blank Corrected Fk Area (A-s): 0.152  
Concentration (ug/L ): 19.46

Background Pk Height (A): 0.033

0161

Mean Conc (ug/L ): 20.02<sub>Q</sub> SD: 0.792 RSD(%): 3.96

As ID: LCSL-N7R3945 Seq. No.: 00023 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 1 (Peak Stored) Time: 13:03  
Peak Area (A-s): 0.182 Peak Height (A): 0.450  
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.120  
Blank Corrected Pk Area (A-s): 0.182  
Concentration (ug/L ): 23.51

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 2 (Peak Stored) Time: 13:07  
Peak Area (A-s): 0.293 Peak Height (A): 0.801  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.293  
Concentration (ug/L ): 38.34

Mean Conc (ug/L ): 30.93 SD: 10.488 RSD(%): 33.91

Recovery is 54.5% (outside of specified limits)

As ID: LCSL-N7R3945 Seq. No.: 00024 A/S Pos.: 2 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 1 (Peak Stored) Time: 13:11  
Peak Area (A-s): 0.288 Peak Height (A): 0.825  
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.288  
Concentration (ug/L ): 37.62

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
Replicate 2 (Peak Stored) Time: 13:15  
Peak Area (A-s): 0.296 Peak Height (A): 0.822  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.052  
Blank Corrected Fk Area (A-s): 0.296  
Concentration (ug/L ): 38.77

Mean Conc (ug/L ): 38.20 SD: 0.816 RSD(%): 2.14

Recovery is 90.9%

As ID: 7SM-JM4362 MTXS Seq. No.: 00025 A/S Pos.: 3 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 3  
Replicate 1 (Peak Stored) Time: 13:18  
Peak Area (A-s): 0.166 Peak Height (A): 0.372  
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): 0.166  
Concentration (ug/L ): 21.44

uL dispensed: 10 from 0, 5 from 39, 25 from 3

*See  
return  
etc.*



0162

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.157  
Background Pk Area (A-s): 0.098  
Blank Corrected Pk Area (A-s): 0.157  
Concentration (ug/L ): 20.15

Time: 13:22  
Peak Height (A): 0.395  
Background Pk Height (A): 0.050

Mean Conc (ug/L ): 20.80 *Q* SD: 0.912 RSD(%): 4.38

As ID: 7SD-JM4362 MTRR Seq. No.: 00026 A/S Pos.: 4 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 4  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.111  
Background Pk Area (A-s): 0.252  
Blank Corrected Pk Area (A-s): 0.111  
Concentration (ug/L ): 14.11

Time: 13:26  
Peak Height (A): 0.266  
Background Pk Height (A): 0.111

uL dispensed: 10 from 0, 5 from 39, 25 from 4  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.156  
Background Pk Area (A-s): 0.095  
Blank Corrected Pk Area (A-s): 0.156  
Concentration (ug/L ): 20.04

Time: 13:30  
Peak Height (A): 0.377  
Background Pk Height (A): 0.052

Mean Conc (ug/L ): 17.08 *Q* SD: 4.197 RSD(%): 24.58

*USEL*

As ID: 7SD-JM4362 MTRR Seq. No.: 00027 A/S Pos.: 4 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 4  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.102  
Background Pk Area (A-s): 0.354  
Blank Corrected Pk Area (A-s): 0.102  
Concentration (ug/L ): 12.83

Time: 13:34  
Peak Height (A): 0.220  
Background Pk Height (A): 0.182

uL dispensed: 10 from 0, 5 from 39, 25 from 4  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.154  
Background Pk Area (A-s): 0.097  
Blank Corrected Pk Area (A-s): 0.154  
Concentration (ug/L ): 19.83

Time: 13:38  
Peak Height (A): 0.370  
Background Pk Height (A): 0.050

Mean Conc (ug/L ): 16.33 SD: 4.950 RSD(%): 30.32

*max int  
near 1st run  
DUE  
3/17/94*

As ID: 7XX-JM4362 SS42 Seq. No.: 00028 A/S Pos.: 5 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 5  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.000  
Background Pk Area (A-s): 0.309  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.70

Time: 13:41  
Peak Height (A): 0.016  
Background Pk Height (A): 0.160

uL dispensed: 10 from 0, 5 from 39, 25 from 5  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.001

Time: 13:45  
Peak Height (A): 0.014

0163

Background Pk Area (A-s): 0.317 Background Pk Height (A): 0.164  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.65

Mean Conc (ug/L ): -0.67<sub>Q</sub> SD: 0.040 RSD(%): 5.89

As ID: 7XX-JM4362 SS42 Seq. No.: 00029 A/S Pos.: 5 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 1 (Peak Stored) Time: 13:49  
Peak Area (A-s): 0.086 Peak Height (A): 0.202  
Background Pk Area (A-s): 0.463 Background Pk Height (A): 0.302  
Blank Corrected Pk Area (A-s): 0.086  
Concentration (ug/L ): 10.78

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 2 (Peak Stored) Time: 13:53  
Peak Area (A-s): 0.100 Peak Height (A): 0.230  
Background Pk Area (A-s): 0.328 Background Pk Height (A): 0.160  
Blank Corrected Pk Area (A-s): 0.100  
Concentration (ug/L ): 12.54

Mean Conc (ug/L ): 11.66 SD: 1.246 RSD(%): 10.68

Recovery is <sup>58.0%</sup>~~61.7%~~ (outside of specified limits)  
<sub>SB 3-17-94</sub>

As ID: 7XX-JM4362 DUP Seq. No.: 00030 A/S Pos.: 6 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 6  
Replicate 1 (Peak Stored) Time: 13:57  
Peak Area (A-s): -0.002 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.93

uL dispensed: 10 from 0, 5 from 39, 25 from 6  
Replicate 2 (Peak Stored) Time: 14:00  
Peak Area (A-s): 0.002 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.45

Mean Conc (ug/L ): -0.69<sub>Q</sub> SD: 0.344 RSD(%): 49.82

As ID: 7XX-JM4362 DUP Seq. No.: 00031 A/S Pos.: 6 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
Replicate 1 (Peak Stored) Time: 14:04  
Peak Area (A-s): 0.143 Peak Height (A): 0.342  
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): 0.143  
Concentration (ug/L ): 18.32

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
Replicate 2 (Peak Stored) Time: 14:08  
Peak Area (A-s): 0.097 Peak Height (A): 0.226

0164

Background Pk Area (A-s): 0.308 Background Pk Height (A): 0.154  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 12.20

Mean Conc (ug/L ): 15.26 SD: 4.324 RSD(%): 28.33

Recovery is ~~79.7%~~ <sup>76.3%</sup> (outside of specified limits)  
~~SD 3-17-94~~

SD  
3-17-94  
Autonnet  
Rerun

As ID: 7XX-JM4362 DUP Seq. No.: 00032 A/S Pos.: 6 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
Replicate 1 (Peak Stored) Time: 14:12  
Peak Area (A-s): 0.091 Peak Height (A): 0.201  
Background Pk Area (A-s): 0.439 Background Pk Height (A): 0.274  
Blank Corrected Pk Area (A-s): 0.091  
Concentration (ug/L ): 11.42

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
Replicate 2 (Peak Stored) Time: 14:16  
Peak Area (A-s): 0.100 Peak Height (A): 0.230  
Background Pk Area (A-s): 0.307 Background Pk Height (A): 0.154  
Blank Corrected Pk Area (A-s): 0.100  
Concentration (ug/L ): 12.82

Mean Conc (ug/L ): 12.02 SD: 0.850 RSD(%): 7.07

Recovery is ~~63.6%~~ <sup>60.1%</sup> (outside of specified limits)  
~~SD 3-17-94~~

As ID: CCV-0787 Seq. No.: 00033 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
Replicate 1 (Peak Stored) Time: 14:19  
Peak Area (A-s): 0.176 Peak Height (A): 0.504  
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): 0.176  
Concentration (ug/L ): 22.74

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
Replicate 2 (Peak Stored) Time: 14:23  
Peak Area (A-s): 0.180 Peak Height (A): 0.537  
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.180  
Concentration (ug/L ): 23.29

Mean Conc (ug/L ): 23.02 SD: 0.393 RSD(%): 1.71

QC sample is out of range 18.4 - 22.6

*Replaced CCV w/ fresh + reran*

As ID: CCV-0787 Seq. No.: 00035 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
Replicate 1 (Peak Stored) Time: 14:29  
Peak Area (A-s): 0.161 Peak Height (A): 0.493  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.040  
Blank Corrected Pk Area (A-s): 0.161  
Concentration (ug/L ): 20.77

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 2 (Peak Stored) Time: 14:33  
 Peak Area (A-s): 0.162 Peak Height (A): 0.493  
 Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.163  
 Concentration (ug/L ): 20.92

Mean Conc (ug/L ): 20.85 SD: 0.106 RSD(%): 0.51

QC sample is within range 18.4 - 22.6

-----  
 As ID: CCB Seq. No.: 00036 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 1 (Peak Stored) Time: 14:36  
 Peak Area (A-s): 0.009 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 0.43

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 2 (Peak Stored) Time: 14:40  
 Peak Area (A-s): 0.002 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.014  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -0.44

Mean Conc (ug/L ): -0.00 SD: 0.613 RSD(%): 13188.03

QC sample is within range

-----  
 As ID: 7XX-JM4353 SS33 Seq. No.: 00037 A/S Pos.: 7 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 7  
 Replicate 1 (Peak Stored) Time: 14:44  
 Peak Area (A-s): 0.002 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.047  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -0.53

uL dispensed: 10 from 0, 5 from 39, 25 from 7  
 Replicate 2 (Peak Stored) Time: 14:47  
 Peak Area (A-s): -0.003 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.052  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.17

Mean Conc (ug/L ): -0.85 Q SD: 0.450 RSD(%): 52.95

-----  
 As ID: 7XX-JM4353 SS33 Seq. No.: 00038 A/S Pos.: 7 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 7  
 Replicate 1 (Peak Stored) Time: 14:51  
 Peak Area (A-s): 0.142 Peak Height (A): 0.308  
 Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.058  
 Blank Corrected Pk Area (A-s): 0.142

Concentration (ug/L ): 18.23

0166

uL dispensed: 5 from 39, 10 from 40, 25 from 7

Replicate 2 (Peak Stored)

Time: 14:55

Peak Area (A-s): 0.132

Peak Height (A): 0.283

Background Pk Area (A-s): 0.096

Background Pk Height (A): 0.056

Blank Corrected Pk Area (A-s): 0.132

Concentration (ug/L ): 16.82

Mean Conc (ug/L ):

17.52

SD: 0.992

RSD(%): 5.66

Recovery is ~~91.0%~~ 87.6%

SD 3-17-94

As ID: 7XX-JM4354 SS34 Seq. No.: 00039 A/S Pos.: 8 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 8

Replicate 1 (Peak Stored)

Time: 14:59

Peak Area (A-s): -0.001

Peak Height (A): 0.016

Background Pk Area (A-s): 0.097

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.91

uL dispensed: 10 from 0, 5 from 39, 25 from 8

Replicate 2 (Peak Stored)

Time: 15:02

Peak Area (A-s): 0.005

Peak Height (A): 0.016

Background Pk Area (A-s): 0.089

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.005

Concentration (ug/L ): -0.01

Mean Conc (ug/L ):

-0.46 *Q*

SD: 0.630

RSD(%): 136.91

As ID: 7XX-JM4354 SS34 Seq. No.: 00040 A/S Pos.: 8 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 1 (Peak Stored)

Time: 15:06

Peak Area (A-s): 0.124

Peak Height (A): 0.283

Background Pk Area (A-s): 0.092

Background Pk Height (A): 0.060

Blank Corrected Pk Area (A-s): 0.124

Concentration (ug/L ): 15.85

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 2 (Peak Stored)

Time: 15:10

Peak Area (A-s): 0.138

Peak Height (A): 0.299

Background Pk Area (A-s): 0.089

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): 0.138

Concentration (ug/L ): 17.67

Mean Conc (ug/L ):

16.76

SD: 1.288

RSD(%): 7.69

Recovery is ~~86.1%~~ 83.8%

SD 3-17-94

As ID: 7XX-JM4355 SS35 Seq. No.: 00041 A/S Pos.: 9 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 9

Replicate 1 (Peak Stored)

Time: 15:14

Peak Area (A-s): 0.003

Peak Height (A): 0.016

Background Pk Area (A-s): 0.123      Background Pk Height (A): 0.083  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -0.35

uL dispensed: 10 from 0, 5 from 39, 25 from 9  
Replicate 2 (Peak Stored)      Time: 15:17  
Peak Area (A-s): 0.007      Peak Height (A): 0.013  
Background Pk Area (A-s): 0.118      Background Pk Height (A): 0.083  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 0.26

Mean Conc (ug/L ):      -0.04<sup>Q</sup>      SD: 0.430      RSD(%): 1020.65

-----  
As    ID: 7XX-JM4355 SS35      Seq. No.: 00042      A/S Pos.: 9      Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 9  
Replicate 1 (Peak Stored)      Time: 15:21  
Peak Area (A-s): 0.132      Peak Height (A): 0.287  
Background Pk Area (A-s): 0.121      Background Pk Height (A): 0.086  
Blank Corrected Pk Area (A-s): 0.132  
Concentration (ug/L ): 16.80

uL dispensed: 5 from 39, 10 from 40, 25 from 9  
Replicate 2 (Peak Stored)      Time: 15:25  
Peak Area (A-s): 0.140      Peak Height (A): 0.287  
Background Pk Area (A-s): 0.113      Background Pk Height (A): 0.091  
Blank Corrected Pk Area (A-s): 0.140  
Concentration (ug/L ): 17.94

Mean Conc (ug/L ):      17.37      SD: 0.856      RSD(%): 4.64

Recovery is ~~87.1%~~ 86.9%  
SB 3-17-94

-----  
As    ID: 7XX-JM4356 SS36      Seq. No.: 00043      A/S Pos.: 10      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 10  
Replicate 1 (Peak Stored)      Time: 15:29  
Peak Area (A-s): 0.006      Peak Height (A): 0.016  
Background Pk Area (A-s): 0.101      Background Pk Height (A): 0.070  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.08

uL dispensed: 10 from 0, 5 from 39, 25 from 10  
Replicate 2 (Peak Stored)      Time: 15:32  
Peak Area (A-s): 0.007      Peak Height (A): 0.014  
Background Pk Area (A-s): 0.100      Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.14

Mean Conc (ug/L ):      0.11<sup>Q</sup>      SD: 0.038      RSD(%): 34.07

-----  
As    ID: 7XX-JM4356 SS36      Seq. No.: 00044      A/S Pos.: 10      Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
Replicate 1 (Peak Stored)      Time: 15:36  
Peak Area (A-s): 0.130      Peak Height (A): 0.300

Background Pk Area (A-s): 0.104      Background Pk Height (A): 0.065  
Blank Corrected Pk Area (A-s): 0.130  
Concentration (ug/L ): 16.63

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
Replicate 2 (Peak Stored)      Time: 15:40  
Peak Area (A-s): 0.070      Peak Height (A): 0.153  
Background Pk Area (A-s): 0.508      Background Pk Height (A): 0.371  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 8.58

Mean Conc (ug/L ):      12.61      SD: 5.696      RSD(%): 45.18

Recovery is 62.5% (outside of specified limits)

*SB 3-17-c  
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Review*

As ID: 7XX-JM4356 SS36      Seq. No.: 00045      A/S Pos.: 10      Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
Replicate 1 (Peak Stored)      Time: 15:43  
Peak Area (A-s): 0.135      Peak Height (A): 0.286  
Background Pk Area (A-s): 0.114      Background Pk Height (A): 0.067  
Blank Corrected Pk Area (A-s): 0.135  
Concentration (ug/L ): 17.28

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
Replicate 2 (Peak Stored)      Time: 15:47  
Peak Area (A-s): 0.135      Peak Height (A): 0.290  
Background Pk Area (A-s): 0.104      Background Pk Height (A): 0.063  
Blank Corrected Pk Area (A-s): 0.135  
Concentration (ug/L ): 17.27

Mean Conc (ug/L ):      17.27      SD: 0.005      RSD(%): 0.03

Recovery is 85.8%

As ID: 7XX-JM4357 SS37      Seq. No.: 00046      A/S Pos.: 11      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 11  
Replicate 1 (Peak Stored)      Time: 15:51  
Peak Area (A-s): 0.007      Peak Height (A): 0.015  
Background Pk Area (A-s): 0.091      Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.25

*W*

uL dispensed: 10 from 0, 5 from 39, 25 from 11  
Replicate 2 (Peak Stored)      Time: 15:55  
Peak Area (A-s): 0.001      Peak Height (A): 0.013  
Background Pk Area (A-s): 0.090      Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.65

Mean Conc (ug/L ):      -0.20 *Q*      SD: 0.636      RSD(%): 317.66

As ID: 7XX-JM4357 SS37      Seq. No.: 00047      A/S Pos.: 11      Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 11

Replicate 1 (Peak Stored) Time: 15:58  
 Peak Area (A-s): 0.088 Peak Height (A): 0.196  
 Background Pk Area (A-s): 0.283 Background Pk Height (A): 0.234  
 Blank Corrected Pk Area (A-s): 0.088  
 Concentration (ug/L ): 10.97

uL dispensed: 5 from 39, 10 from 40, 25 from 11  
 Replicate 2 (Peak Stored) Time: 16:02  
 Peak Area (A-s): 0.075 Peak Height (A): 0.168  
 Background Pk Area (A-s): 0.321 Background Pk Height (A): 0.137  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 9.25

Mean Conc (ug/L ): 10.11 SD: 1.215 RSD(%): 12.02

Recovery is ~~51.5%~~<sup>50.6%</sup> (outside of specified limits)

As ID: CCV-0787 Seq. No.: 00048 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 1 (Peak Stored) Time: 16:06  
 Peak Area (A-s): 0.159 Peak Height (A): 0.496  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): 0.159  
 Concentration (ug/L ): 20.45

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 2 (Peak Stored) Time: 16:09  
 Peak Area (A-s): 0.163 Peak Height (A): 0.502  
 Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.163  
 Concentration (ug/L ): 21.05

Mean Conc (ug/L ): 20.75 SD: 0.426 RSD(%): 2.05

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00049 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 1 (Peak Stored) Time: 16:13  
 Peak Area (A-s): 0.005 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.006  
 Concentration (ug/L ): -0.00

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 2 (Peak Stored) Time: 16:17  
 Peak Area (A-s): -0.001 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.017  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.83

Mean Conc (ug/L ): -0.42 SD: 0.582 RSD(%): 140.22

QC sample is within range



As ID: 7XX-JM4358 SS38 Seq. No.: 00050 A/S Pos.: 12 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 12  
Replicate 1 (Peak Stored) Time: 16:20  
Peak Area (A-s): 0.010 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.117 Background Pk Height (A): 0.070  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 0.65

uL dispensed: 10 from 0, 5 from 39, 25 from 12  
Replicate 2 (Peak Stored) Time: 16:24  
Peak Area (A-s): 0.005 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.119 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): -0.02

Mean Conc (ug/L ): 0.31 Q SD: 0.478 RSD(%): 152.25

As ID: 7XX-JM4358 SS38 Seq. No.: 00051 A/S Pos.: 12 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 12  
Replicate 1 (Peak Stored) Time: 16:28  
Peak Area (A-s): 0.135 Peak Height (A): 0.303  
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.073  
Blank Corrected Pk Area (A-s): 0.135  
Concentration (ug/L ): 17.23

uL dispensed: 5 from 39, 10 from 40, 25 from 12  
Replicate 2 (Peak Stored) Time: 16:31  
Peak Area (A-s): 0.135 Peak Height (A): 0.297  
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.077  
Blank Corrected Pk Area (A-s): 0.135  
Concentration (ug/L ): 17.25

Mean Conc (ug/L ): 17.24 SD: 0.017 RSD(%): 0.10

Recovery is ~~81.6%~~ (outside of specified limits) 86.2 or  $\frac{17.24 - 0}{20} =$  or  $\frac{17.24}{20} =$  3/25/94

As ID: 7XX-JM4359 SS39 Seq. No.: 00052 A/S Pos.: 13 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 13  
Replicate 1 (Peak Stored) Time: 16:35  
Peak Area (A-s): 0.004 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.078  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -0.17

uL dispensed: 10 from 0, 5 from 39, 25 from 13  
Replicate 2 (Peak Stored) Time: 16:39  
Peak Area (A-s): 0.006 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.309 Background Pk Height (A): 0.120  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.07

Mean Conc (ug/L ): -0.05 Q SD: 0.170 RSD(%): 329.37

As ID: 7XX-JM4379 SS39 Seq. No.: 00053 A/S Pos.: 13 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
 Replicate 1 (Peak Stored) Time: 16:42  
 Peak Area (A-s): 0.109 Peak Height (A): 0.217  
 Background Pk Area (A-s): 0.315 Background Pk Height (A): 0.112  
 Blank Corrected Pk Area (A-s): 0.109  
 Concentration (ug/L ): 13.80

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
 Replicate 2 (Peak Stored) Time: 16:46  
 Peak Area (A-s): 0.090 Peak Height (A): 0.216  
 Background Pk Area (A-s): 0.357 Background Pk Height (A): 0.141  
 Blank Corrected Pk Area (A-s): 0.091  
 Concentration (ug/L ): 11.32

Mean Conc (ug/L ): 12.56 SD: 1.753 RSD(%): 13.96

Recovery is ~~63.0%~~ <sup>62.8%</sup> (outside of specified limits)

As ID: 7XX-JM4360 SS40 Seq. No.: 00054 A/S Pos.: 14 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 14  
 Replicate 1 (Peak Stored) Time: 16:50  
 Peak Area (A-s): 0.003 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.074  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -0.32

uL dispensed: 10 from 0, 5 from 39, 25 from 14  
 Replicate 2 (Peak Stored) Time: 16:53  
 Peak Area (A-s): 0.009 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.386 Background Pk Height (A): 0.236  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 0.43

Mean Conc (ug/L ): 0.05<sup>Q</sup> SD: 0.529 RSD(%): 992.91

As ID: 7XX-JM4360 SS40 Seq. No.: 00055 A/S Pos.: 14 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 16:57  
 Peak Area (A-s): 0.085 Peak Height (A): 0.183  
 Background Pk Area (A-s): 0.433 Background Pk Height (A): 0.262  
 Blank Corrected Pk Area (A-s): 0.085  
 Concentration (ug/L ): 10.64

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 17:01  
 Peak Area (A-s): 0.142 Peak Height (A): 0.299  
 Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.082  
 Blank Corrected Pk Area (A-s): 0.142  
 Concentration (ug/L ): 19.16

Mean Conc (ug/L ): 14.40 SD: 5.319 RSD(%): 36.94

Automatic  
 Review

Recovery is 71.7% (outside of specified limits)

As ID: 7XX-JM4360 SS40 Seq. No.: 00056 A/S Pos.: 14 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 17:05  
 Peak Area (A-s): 0.138 Peak Height (A): 0.288  
 Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.081  
 Blank Corrected Pk Area (A-s): 0.138  
 Concentration (ug/L ): 17.63

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 17:08  
 Peak Area (A-s): 0.082 Peak Height (A): 0.172  
 Background Pk Area (A-s): 0.443 Background Pk Height (A): 0.271  
 Blank Corrected Pk Area (A-s): 0.082  
 Concentration (ug/L ): 10.14

Mean Conc (ug/L ): 13.88 SD: 5.297 RSD(%): 38.16

Recovery is 69.1% (outside of specified limits)

As ID: 7XX-JM4361 SS41 Seq. No.: 00057 A/S Pos.: 15 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 15  
 Replicate 1 (Peak Stored) Time: 17:12  
 Peak Area (A-s): 0.010 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 0.61

uL dispensed: 10 from 0, 5 from 39, 25 from 15  
 Replicate 2 (Peak Stored) Time: 17:16  
 Peak Area (A-s): 0.008 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): 0.33

Mean Conc (ug/L ): 0.47 *Q* SD: 0.199 RSD(%): 42.11

As ID: 7XX-JM4361 SS41 Seq. No.: 00058 A/S Pos.: 15 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 15  
 Replicate 1 (Peak Stored) Time: 17:19  
 Peak Area (A-s): 0.091 Peak Height (A): 0.188  
 Background Pk Area (A-s): 0.295 Background Pk Height (A): 0.169  
 Blank Corrected Pk Area (A-s): 0.091  
 Concentration (ug/L ): 11.37

uL dispensed: 5 from 39, 10 from 40, 25 from 15  
 Replicate 2 (Peak Stored) Time: 17:23  
 Peak Area (A-s): 0.084 Peak Height (A): 0.184  
 Background Pk Area (A-s): 0.309 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.084  
 Concentration (ug/L ): 10.46

Mean Conc (ug/L ): 10.92 SD: 0.637 RSD(%): 5.84

Recovery is 52.2% (outside of specified limits)

As ID: TCLP BLK 3945 Seq. No.: 00059 A/S Pos.: 16 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 16  
 Replicate 1 (Peak Stored) Time: 17:27  
 Peak Area (A-s): -0.002 Peak Height (A): 0.019  
 Background Pk Area (A-s): 0.206 Background Pk Height (A): 0.096  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.02

uL dispensed: 10 from 0, 5 from 39, 25 from 16  
 Replicate 2 (Peak Stored) Time: 17:30  
 Peak Area (A-s): -0.008 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.317 Background Pk Height (A): 0.191  
 Blank Corrected Pk Area (A-s): -0.008  
 Concentration (ug/L ): -1.78

Mean Conc (ug/L ): -1.40 *Q* SD: 0.536 RSD(%): 38.39

As ID: TCLP BLK 3945 Seq. No.: 00060 A/S Pos.: 16 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16  
 Replicate 1 (Peak Stored) Time: 17:34  
 Peak Area (A-s): 0.093 Peak Height (A): 0.211  
 Background Pk Area (A-s): 0.265 Background Pk Height (A): 0.143  
 Blank Corrected Pk Area (A-s): 0.093  
 Concentration (ug/L ): 11.71

uL dispensed: 5 from 39, 10 from 40, 25 from 16  
 Replicate 2 (Peak Stored) Time: 17:38  
 Peak Area (A-s): 0.078 Peak Height (A): 0.195  
 Background Pk Area (A-s): 0.342 Background Pk Height (A): 0.208  
 Blank Corrected Pk Area (A-s): 0.078  
 Concentration (ug/L ): 9.65

Mean Conc (ug/L ): 10.68 SD: 1.455 RSD(%): 13.62

Recovery is ~~50.4%~~ <sup>53.4%</sup> (outside of specified limits)

~~3-17-94~~

As ID: CCV-0787 Seq. No.: 00061 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 1 (Peak Stored) Time: 17:41  
 Peak Area (A-s): 0.164 Peak Height (A): 0.484  
 Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.164  
 Concentration (ug/L ): 21.10

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 2 (Peak Stored) Time: 17:45  
 Peak Area (A-s): 0.171 Peak Height (A): 0.518  
 Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.172

Concentration (ug/L ): 22.12

Mean Conc (ug/L ): 21.61 SD: 0.725 RSD(%): 3.35

0174

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00062 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 1 (Peak Stored) Time: 17:49  
Peak Area (A-s): 0.002 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.43

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 2 (Peak Stored) Time: 17:53  
Peak Area (A-s): 0.005 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): -0.08

Mean Conc (ug/L ): -0.23 SD: 0.249 RSD(%): 98.05

QC sample is within range

As ID: PBL-N7R3948 Seq. No.: 00063 A/S Pos.: 17 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 17  
Replicate 1 (Peak Stored) Time: 17:56  
Peak Area (A-s): 0.005 Peak Height (A): 0.018  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.014  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): -0.11

uL dispensed: 10 from 0, 5 from 39, 25 from 17  
Replicate 2 (Peak Stored) Time: 18:00  
Peak Area (A-s): 0.006 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.067  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.04

Mean Conc (ug/L ): -0.03 Q SD: 0.112 RSD(%): 325.39

As ID: PBL-N7R3948 Seq. No.: 00064 A/S Pos.: 17 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 17  
Replicate 1 (Peak Stored) Time: 18:04  
Peak Area (A-s): 0.143 Peak Height (A): 0.422  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.143  
Concentration (ug/L ): 18.37

uL dispensed: 5 from 39, 10 from 40, 25 from 17  
Replicate 2 (Peak Stored) Time: 18:07  
Peak Area (A-s): 0.145 Peak Height (A): 0.422

Background Pk Area (A-s): 0.023      Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.145  
Concentration (ug/L ): 18.60

Mean Conc (ug/L ):      18.48      SD: 0.164      RSD(%): 0.89

Recovery is ~~92.6%~~ 92.4%  
50 3-17-94

As ID: LCSL-N7R3948      Seq. No.: 00065      A/S Pos.: 18      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 18  
Replicate 1 (Peak Stored)      Time: 18:11  
Peak Area (A-s): 0.161      Peak Height (A): 0.498  
Background Pk Area (A-s): 0.032      Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.161  
Concentration (ug/L ): 20.71

uL dispensed: 10 from 0, 5 from 39, 25 from 18  
Replicate 2 (Peak Stored)      Time: 18:15  
Peak Area (A-s): 0.164      Peak Height (A): 0.493  
Background Pk Area (A-s): 0.033      Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): 0.164  
Concentration (ug/L ): 21.15

Mean Conc (ug/L ):      20.93 Q      SD: 0.204      RSD(%): 1.45

As ID: LCSL-N7R3948      Seq. No.: 00066      A/S Pos.: 18      Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 15 from 18  
Replicate 1 (Peak Stored)      Time: 18:19  
Peak Area (A-s): 0.305      Peak Height (A): 0.817  
Background Pk Area (A-s): 0.032      Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.305  
Concentration (ug/L ): 39.96

uL dispensed: 5 from 39, 10 from 40, 25 from 18  
Replicate 2 (Peak Stored)      Time: 18:22  
Peak Area (A-s): 0.299      Peak Height (A): 0.826  
Background Pk Area (A-s): 0.036      Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.299  
Concentration (ug/L ): 39.13

Mean Conc (ug/L ):      39.54      SD: 0.583      RSD(%): 1.47

Recovery is 93.1%

As ID: 7SM-JM4369 MTYS      Seq. No.: 00067      A/S Pos.: 19      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 19  
Replicate 1 (Peak Stored)      Time: 18:26  
Peak Area (A-s): 0.096      Peak Height (A): 0.196  
Background Pk Area (A-s): 0.425      Background Pk Height (A): 0.226  
Blank Corrected Pk Area (A-s): 0.096  
Concentration (ug/L ): 12.11

uL dispensed: 10 from 0, 5 from 39, 25 from 19

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Replicate 2 (Peak Stored) Time: 18:30  
Peak Area (A-s): 0.111 Peak Height (A): 0.206  
Background Pk Area (A-s): 0.406 Background Pk Height (A): 0.203  
Blank Corrected Pk Area (A-s): 0.111  
Concentration (ug/L ): 14.02

Mean Conc (ug/L ): 13.07Q SD: 1.352 RSD(%): 10.35

As ID: 7SD-JM4369 MTRR Seq. No.: 00068 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 20  
Replicate 1 (Peak Stored) Time: 18:34  
Peak Area (A-s): 0.104 Peak Height (A): 0.219  
Background Pk Area (A-s): 0.414 Background Pk Height (A): 0.211  
Blank Corrected Pk Area (A-s): 0.104  
Concentration (ug/L ): 13.17

uL dispensed: 10 from 0, 5 from 39, 25 from 20  
Replicate 2 (Peak Stored) Time: 18:37  
Peak Area (A-s): 0.175 Peak Height (A): 0.389  
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.063  
Blank Corrected Pk Area (A-s): 0.175  
Concentration (ug/L ): 22.54

Mean Conc (ug/L ): 17.35 SD: 6.624 RSD(%): 37.10

SO 3-17-94  
Automatic  
Re-run

As ID: 7SD-JM4369 MTRR Seq. No.: 00069 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 20  
Replicate 1 (Peak Stored) Time: 18:41  
Peak Area (A-s): 0.107 Peak Height (A): 0.230  
Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.201  
Blank Corrected Pk Area (A-s): 0.107  
Concentration (ug/L ): 13.57

uL dispensed: 10 from 0, 5 from 39, 25 from 20  
Replicate 2 (Peak Stored) Time: 18:45  
Peak Area (A-s): 0.096 Peak Height (A): 0.221  
Background Pk Area (A-s): 0.408 Background Pk Height (A): 0.204  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 12.12

Mean Conc (ug/L ): 12.85Q SD: 1.024 RSD(%): 7.97

As ID: 7XX-JM4369 S11D Seq. No.: 00070 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 21  
Replicate 1 (Peak Stored) Time: 18:49  
Peak Area (A-s): 0.008 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 0.34

uL dispensed: 10 from 0, 5 from 39, 25 from 21  
Replicate 2 (Peak Stored) Time: 18:53  
Peak Area (A-s): -0.001 Peak Height (A): 0.015

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Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.93

Mean Conc (ug/L ): -0.29Q SD: 0.899 RSD(%): 306.52

As ID: 7XX-JM4369 S11D Seq. No.: 00071 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 21  
Replicate 1 (Peak Stored) Time: 18:56  
Peak Area (A-s): 0.073 Peak Height (A): 0.171  
Background Pk Area (A-s): 0.438 Background Pk Height (A): 0.232  
Blank Corrected Pk Area (A-s): 0.073  
Concentration (ug/L ): 8.99

uL dispensed: 5 from 39, 10 from 40, 25 from 21  
Replicate 2 (Peak Stored) Time: 19:00  
Peak Area (A-s): 0.087 Peak Height (A): 0.190  
Background Pk Area (A-s): 0.423 Background Pk Height (A): 0.210  
Blank Corrected Pk Area (A-s): 0.087  
Concentration (ug/L ): 10.91

Mean Conc (ug/L ): 9.95 SD: 1.858 RSD(%): 13.65

Recovery is ~~11.2%~~ 49.8% (outside of specified limits)  
SB 3-17-94

As ID: 7XX-JM4369 DUP Seq. No.: 00072 A/S Pos.: 22 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 22  
Replicate 1 (Peak Stored) Time: 19:04  
Peak Area (A-s): 0.007 Peak Height (A): 0.020  
Background Pk Area (A-s): 0.365 Background Pk Height (A): 0.179  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.22

uL dispensed: 10 from 0, 5 from 39, 25 from 22  
Replicate 2 (Peak Stored) Time: 19:08  
Peak Area (A-s): 0.006 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.314 Background Pk Height (A): 0.129  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.02

Mean Conc (ug/L ): 0.12Q SD: 0.148 RSD(%): 122.99

As ID: 7XX-JM4369 S11D Seq. No.: 00073 A/S Pos.: 22 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 22  
Replicate 1 (Peak Stored) Time: 19:12  
Peak Area (A-s): 0.091 Peak Height (A): 0.220  
Background Pk Area (A-s): 0.440 Background Pk Height (A): 0.258  
Blank Corrected Pk Area (A-s): 0.091  
Concentration (ug/L ): 11.34

uL dispensed: 5 from 39, 10 from 40, 25 from 22  
Replicate 2 (Peak Stored) Time: 19:15  
Peak Area (A-s): 0.105 Peak Height (A): 0.231



Background Pk Area (A-s): 0.338 Background Pk Height (A): 0.154  
Blank Corrected Pk Area (A-s): 0.105  
Concentration (ug/L ): 10.30

Mean Conc (ug/L ): 12.32 SD: 1.383 RSD(%): 11.22

Recovery is 61.0% (outside of specified limits)

As ID: CCV-0787 Seq. No.: 00074 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
Replicate 1 (Peak Stored) Time: 19:19  
Peak Area (A-s): 0.166 Peak Height (A): 0.482  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.166  
Concentration (ug/L ): 21.39

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
Replicate 2 (Peak Stored) Time: 19:23  
Peak Area (A-s): 0.163 Peak Height (A): 0.512  
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.163  
Concentration (ug/L ): 20.08

Mean Conc (ug/L ): 21.18 SD: 0.288 RSD(%): 1.36

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00075 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 1 (Peak Stored) Time: 19:27  
Peak Area (A-s): -0.000 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.068  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.76

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 2 (Peak Stored) Time: 19:30  
Peak Area (A-s): 0.000 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.69

Mean Conc (ug/L ): -0.72 SD: 0.048 RSD(%): 6.66

QC sample is within range

As ID: 7XX-JM4363 SS43 Seq. No.: 00076 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 23  
Replicate 1 (Peak Stored) Time: 19:34  
Peak Area (A-s): 0.001 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.334 Background Pk Height (A): 0.171  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.61

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0179

uL dispensed: 10 from 0, 5 from 39, 25 from 23  
Replicate 2 (Peak Stored) Time: 19:38  
Peak Area (A-s): -0.002 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.401 Background Pk Height (A): 0.218  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.00

Mean Conc (ug/L ): -0.81 Q SD: 0.270 RSD(%): 33.58

As ID: 7XX-JM4363 SS43 Seq. No.: 00077 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 23  
Replicate 1 (Peak Stored) Time: 19:42  
Peak Area (A-s): 0.084 Peak Height (A): 0.183  
Background Pk Area (A-s): 0.416 Background Pk Height (A): 0.236  
Blank Corrected Pk Area (A-s): 0.084  
Concentration (ug/L ): 10.40

uL dispensed: 5 from 39, 10 from 40, 25 from 23  
Replicate 2 (Peak Stored) Time: 19:46  
Peak Area (A-s): 0.097 Peak Height (A): 0.234  
Background Pk Area (A-s): 0.275 Background Pk Height (A): 0.100  
Blank Corrected Pk Area (A-s): 0.088  
Concentration (ug/L ): 12.26

Mean Conc (ug/L ): 11.83 SD: 1.317 RSD(%): 11.62

Recovery is  $\frac{56.5\%}{38.7\%}$  (outside of specified limits)  
3.17.94

As ID: 7XX-JM4364 SS44 Seq. No.: 00078 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 24  
Replicate 1 (Peak Stored) Time: 19:49  
Peak Area (A-s): 0.007 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.053  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.16

uL dispensed: 10 from 0, 5 from 39, 25 from 24  
Replicate 2 (Peak Stored) Time: 19:53  
Peak Area (A-s): 0.006 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.01

Mean Conc (ug/L ): 0.08 Q SD: 0.105 RSD(%): 128.31

As ID: 7XX-JM4364 SS44 Seq. No.: 00079 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 24  
Replicate 1 (Peak Stored) Time: 19:57  
Peak Area (A-s): 0.097 Peak Height (A): 0.225  
Background Pk Area (A-s): 0.307 Background Pk Height (A): 0.149  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 12.20

uL dispensed: 5 from 39, 10 from 40, 25 from 24  
 Replicate 2 (Peak Stored) Time: 20:01  
 Peak Area (A-s): 0.136 Peak Height (A): 0.330  
 Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 17.36

Mean Conc (ug/L ): 14.78 SD: 3.647 RSD(%): 24.68

Recovery is 73.5% (outside of specified limits)

As ID: 7XX-JM4364 SS44 Seq. No.: 00080 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 24  
 Replicate 1 (Peak Stored) Time: 20:05  
 Peak Area (A-s): 0.093 Peak Height (A): 0.203  
 Background Pk Area (A-s): 0.345 Background Pk Height (A): 0.189  
 Blank Corrected Pk Area (A-s): 0.093  
 Concentration (ug/L ): 11.71

uL dispensed: 5 from 39, 10 from 40, 25 from 24  
 Replicate 2 (Peak Stored) Time: 20:08  
 Peak Area (A-s): 0.105 Peak Height (A): 0.255  
 Background Pk Area (A-s): 0.277 Background Pk Height (A): 0.118  
 Blank Corrected Pk Area (A-s): 0.105  
 Concentration (ug/L ): 13.22

Mean Conc (ug/L ): 12.46 SD: 1.069 RSD(%): 8.57

Recovery is 61.9% (outside of specified limits)

As ID: 7XX-JM4365 SS45 Seq. No.: 00081 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 25  
 Replicate 1 (Peak Stored) Time: 20:12  
 Peak Area (A-s): -0.000 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.285 Background Pk Height (A): 0.111  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.73

uL dispensed: 10 from 0, 5 from 39, 25 from 25  
 Replicate 2 (Peak Stored) Time: 20:16  
 Peak Area (A-s): 0.003 Peak Height (A): 0.019  
 Background Pk Area (A-s): 0.322 Background Pk Height (A): 0.145  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -0.36

Mean Conc (ug/L ): -0.55 Q SD: 0.264 RSD(%): 48.26

As ID: 7XX-JM4365 SS45 Seq. No.: 00082 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 25  
 Replicate 1 (Peak Stored) Time: 20:20  
 Peak Area (A-s): 0.098 Peak Height (A): 0.225  
 Background Pk Area (A-s): 0.308 Background Pk Height (A): 0.125  
 Blank Corrected Pk Area (A-s): 0.098

5B 3-17-94  
 Automatic  
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Concentration (ug/L ): 12.28

uL dispensed: 5 from 39, 10 from 40, 25 from 25  
Replicate 2 (Peak Stored) Time: 20:24  
Peak Area (A-s): 0.145 Peak Height (A): 0.304  
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.087  
Blank Corrected Pk Area (A-s): 0.146  
Concentration (ug/L ): 13.66

Mean Conc (ug/L ): 13.47 SD: 4.507 RSD(%): 29.14

Recovery is ~~29.1%~~ <sup>77.4%</sup> (outside of specified limits)  
SB 3-17-94

Automatic  
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3-17-94

As ID: 7XX-JM4365 SS45 Seq. No.: 00083 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 25  
Replicate 1 (Peak Stored) Time: 20:27  
Peak Area (A-s): 0.094 Peak Height (A): 0.193  
Background Pk Area (A-s): 0.358 Background Pk Height (A): 0.175  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 11.77

uL dispensed: 5 from 39, 10 from 40, 25 from 25  
Replicate 2 (Peak Stored) Time: 20:31  
Peak Area (A-s): 0.079 Peak Height (A): 0.169  
Background Pk Area (A-s): 0.407 Background Pk Height (A): 0.244  
Blank Corrected Pk Area (A-s): 0.079  
Concentration (ug/L ): 0.75

Mean Conc (ug/L ): 10.76 SD: 1.427 RSD(%): 13.26

Recovery is ~~26.5%~~ <sup>53.8%</sup> (outside of specified limits)  
SB 3-17-94

As ID: 7XX-JM4366 SS46 Seq. No.: 00084 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 26  
Replicate 1 (Peak Stored) Time: 20:35  
Peak Area (A-s): 0.011 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.146 Background Pk Height (A): 0.089  
Blank Corrected Pk Area (A-s): 0.011  
Concentration (ug/L ): 0.67

uL dispensed: 10 from 0, 5 from 39, 25 from 26  
Replicate 2 (Peak Stored) Time: 20:39  
Peak Area (A-s): 0.005 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.088  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): -0.02

Mean Conc (ug/L ): 0.33 α SD: 0.491 RSD(%): 151.10

As ID: 7XX-JM4366 SS46 Seq. No.: 00085 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 26  
Replicate 1 (Peak Stored) Time: 20:42  
Peak Area (A-s): 0.094 Peak Height (A): 0.205

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Background Pk Area (A-s): 0.378      Background Pk Height (A): 0.186  
 Blank Corrected Pk Area (A-s): 0.094  
 Concentration (ug/L ): 11.73

uL dispensed: 5 from 39, 10 from 40, 25 from 26  
 Replicate 2 (Peak Stored)      Time: 20:46  
 Peak Area (A-s): 0.086      Peak Height (A): 0.192  
 Background Pk Area (A-s): 0.454      Background Pk Height (A): 0.314  
 Blank Corrected Pk Area (A-s): 0.086  
 Concentration (ug/L ): 10.67

Mean Conc (ug/L ):      11.23      SD: 0.795      RSD(%): 7.08

Recovery is 54.5% (outside of specified limits)

As ID: CCV-0787      Seq. No.: 00086      A/S Pos.: 38      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 1 (Peak Stored)      Time: 20:50  
 Peak Area (A-s): 0.171      Peak Height (A): 0.462  
 Background Pk Area (A-s): 0.041      Background Pk Height (A): 0.042  
 Blank Corrected Pk Area (A-s): 0.171  
 Concentration (ug/L ): 22.04

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 2 (Peak Stored)      Time: 20:54  
 Peak Area (A-s): 0.174      Peak Height (A): 0.527  
 Background Pk Area (A-s): 0.034      Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.174  
 Concentration (ug/L ): 22.42

Mean Conc (ug/L ):      22.23      SD: 0.268      RSD(%): 1.21

QC sample is within range 18.4 - 22.6

As ID: CCB      Seq. No.: 00087      A/S Pos.: 0      Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 1 (Peak Stored)      Time: 20:57  
 Peak Area (A-s): 0.008      Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): 0.28

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
 Replicate 2 (Peak Stored)      Time: 21:01  
 Peak Area (A-s): 0.005      Peak Height (A): 0.017  
 Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): -0.09

Mean Conc (ug/L ):      0.10      SD: 0.263      RSD(%): 270.13

QC sample is within range

As ID: 7XX-JM4367 DS10 Seq. No.: 00088 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 27  
Replicate 1 (Peak Stored) Time: 21:05  
Peak Area (A-s): 0.001 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.094  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.59

uL dispensed: 10 from 0, 5 from 39, 25 from 27  
Replicate 2 (Peak Stored) Time: 21:08  
Peak Area (A-s): 0.009 Peak Height (A): 0.024  
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.097  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 0.47

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Mean Conc (ug/L ): -0.06<sup>Q</sup> SD: 0.750 RSD(%): 1331.68

As ID: 7XX-JM4367 DS10 Seq. No.: 00089 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 27  
Replicate 1 (Peak Stored) Time: 21:12  
Peak Area (A-s): 0.094 Peak Height (A): 0.215  
Background Pk Area (A-s): 0.364 Background Pk Height (A): 0.149  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 11.73

uL dispensed: 5 from 39, 10 from 40, 25 from 27  
Replicate 2 (Peak Stored) Time: 21:16  
Peak Area (A-s): 0.144 Peak Height (A): 0.341  
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.102  
Blank Corrected Pk Area (A-s): 0.144  
Concentration (ug/L ): 13.52

Mean Conc (ug/L ): 13.12 SD: 4.796 RSD(%): 31.71

Recovery is <sup>75.6%</sup>~~5.9%~~ (outside of specified limits)

SB 3-17-94

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As ID: 7XX-JM4367 DS10 Seq. No.: 00090 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 27  
Replicate 1 (Peak Stored) Time: 21:20  
Peak Area (A-s): 0.144 Peak Height (A): 0.340  
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): 0.144  
Concentration (ug/L ): 18.44

uL dispensed: 5 from 39, 10 from 40, 25 from 27  
Replicate 2 (Peak Stored) Time: 21:23  
Peak Area (A-s): 0.097 Peak Height (A): 0.224  
Background Pk Area (A-s): 0.285 Background Pk Height (A): 0.098  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 12.23

Mean Conc (ug/L ): 15.33 SD: 4.389 RSD(%): 28.62

Recovery is <sup>76.7%</sup>~~50.0%~~ (outside of specified limits)  
~~50~~ 3-17-94

As ID: 7XX-JM4368 DS11 Seq. No.: 00091 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 28  
Replicate 1 (Peak Stored) Time: 21:27  
Peak Area (A-s): 0.001 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.59

uL dispensed: 10 from 0, 5 from 39, 25 from 28  
Replicate 2 (Peak Stored) Time: 21:31  
Peak Area (A-s): -0.000 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.384 Background Pk Height (A): 0.215  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.77

Mean Conc (ug/L ): -0.68 Q SD: 0.122 RSD(%): 17.96

As ID: 7XX-JM4368 DS11 Seq. No.: 00092 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 28  
Replicate 1 (Peak Stored) Time: 21:35  
Peak Area (A-s): 0.094 Peak Height (A): 0.207  
Background Pk Area (A-s): 0.354 Background Pk Height (A): 0.181  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 11.85

uL dispensed: 5 from 39, 10 from 40, 25 from 28  
Replicate 2 (Peak Stored) Time: 21:38  
Peak Area (A-s): 0.082 Peak Height (A): 0.186  
Background Pk Area (A-s): 0.356 Background Pk Height (A): 0.175  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 10.25

Mean Conc (ug/L ): 11.05 SD: 1.129 RSD(%): 10.22

Recovery is <sup>55.3%</sup>~~50.7%~~ (outside of specified limits)

As ID: TCLP BLK 3948 Seq. No.: 00093 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 29  
Replicate 1 (Peak Stored) Time: 21:42  
Peak Area (A-s): 0.007 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.22

uL dispensed: 10 from 0, 5 from 39, 25 from 29  
Replicate 2 (Peak Stored) Time: 21:46  
Peak Area (A-s): 0.004 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -0.23

Mean Conc (ug/L ): -0.01<sup>Q</sup> SD: 0.318 RSD(%): 3313.09

As ID: TCLP BLK 3948 Seq. No.: 00094 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 29  
 Replicate 1 (Peak Stored) Time: 21:49  
 Peak Area (A-s): 0.149 Peak Height (A): 0.361  
 Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.149  
 Concentration (ug/L ): 19.18

uL dispensed: 5 from 39, 10 from 40, 25 from 29  
 Replicate 2 (Peak Stored) Time: 21:53  
 Peak Area (A-s): 0.091 Peak Height (A): 0.198  
 Background Pk Area (A-s): 0.292 Background Pk Height (A): 0.158  
 Blank Corrected Pk Area (A-s): 0.091  
 Concentration (ug/L ): 11.43

Mean Conc (ug/L ): 15.31 SD: 5.477 RSD(%): 35.78

Recovery is ~~76.6%~~ (outside of specified limits)  
<sup>76.6%</sup>  
<sub>SB 3-17-94</sub>

As ID: TCLP BLK 3948 Seq. No.: 00095 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 40, 25 from 29  
 Replicate 1 (Peak Stored) Time: 21:57  
 Peak Area (A-s): 0.139 Peak Height (A): 0.354  
 Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.139  
 Concentration (ug/L ): 17.77

uL dispensed: 5 from 39, 10 from 40, 25 from 29  
 Replicate 2 (Peak Stored) Time: 22:00  
 Peak Area (A-s): 0.075 Peak Height (A): 0.176  
 Background Pk Area (A-s): 0.345 Background Pk Height (A): 0.218  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 9.21

Mean Conc (ug/L ): 13.49 SD: 6.051 RSD(%): 44.86

Recovery is ~~67.5%~~ (outside of specified limits)  
<sup>67.5%</sup>  
<sub>SB 3-17-94</sub>

As ID: CCV-0787 Seq. No.: 00096 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 1 (Peak Stored) Time: 22:04  
 Peak Area (A-s): 0.172 Peak Height (A): 0.480  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.172  
 Concentration (ug/L ): 22.17

uL dispensed: 10 from 0, 5 from 39, 25 from 38  
 Replicate 2 (Peak Stored) Time: 22:08  
 Peak Area (A-s): 0.165 Peak Height (A): 0.523  
 Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.166

Automatic  
 Run  
 SB  
 3-17-94



Concentration (ug/L ): 21.33

Mean Conc (ug/L ): 21.75 SD: 0.600 RSD(%): 2.76

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00097 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 1 (Peak Stored) Time: 22:12  
Peak Area (A-s): 0.004 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -0.22

uL dispensed: 10 from 0, 5 from 39, 25 from 0  
Replicate 2 (Peak Stored) Time: 22:15  
Peak Area (A-s): 0.005 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): -0.06

Mean Conc (ug/L ): -0.14 SD: 0.114 RSD(%): 83.95

QC sample is within range

Element File: PBSBB.GEL

Element: Pb

Print Data: Main+Suppl.

Print: Calib. Curve+Elem. Params.

Analyst: SBB

Peak Storage: 1 Repl./Sample

INSTRUMENT: 4100 ZL

Technique: HGA

Version: 7.20

Wavelength: 283.3 Peak

Slit: 0.70 Low

Signal Type: Zeeman AA

Signal Measurement: Peak Area

Read Time: 5.0

Head Delay: 0.0

BOC Time: 2

Sample Replicates: 2

Standard Replicates: 2

Spike Replicates: Same as Sample

## CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent		Modifier	
					Volume	#1	#2	
Calib. Blank	CAL BLANK		0	20	4	4		
Standard 1	STD 1 IN-0805	3.00	32	20	4	4		
Standard 2	STD 2 IN-0804	10.00	33	20	4	4		
Standard 3	STD 3 IN-0803	25.00	34	20	4	4		
Standard 4	STD 4 IN-0802	50.00	35	20	4	4		
Samples				20	4	4		

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

## Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	125	5	50	250		Norm
2	140	5	20	250		Norm
3	800	10	20	250		Norm
4	1600	0	5	0	*	Norm
5	2400	1	2	250		Norm

Injection Temp: 80

Pipette Speed: 100%

Extraction System: On

## SEQUENCE:

Step Action and Parameters

- 1 Pipet diluent + modifier 1 + spike + sample/std
- 2 Run HGA steps 1 to End

## CHECKS:

Recalibration Type: Autozero Only

Locations: None

Conc. Above Calibration Action: Dilute &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 3.0 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

4 uL of 100 ug/L Standard at Location 40 Gives 20.00 ug/L

Measure Recovery on Samples: 1-2, 5-11, 14-23, 26-35

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

#	A/S	QC Sample	Conc.	Limits	After	Periodic	At	Count
	Loc.	ID	Lower	Upper	Calib	Check	End	Sample
1	37	1CV-0791	31.8	38.8				
2	0	1CB						
3	38	CCV-0790	19.1	23.3	X	X	X	
4	0	CCB			X	X	X	
5	36	CRA-0792	2.25	3.75				X

Run Periodic QC Samples: Every 10  
Out of Limit Action: Print Message Only

Matrix Check Calculations:

% Difference for Dupls: No      Locations:  
% Recovery for Spike: No      Locations:      Conc: 20 ug/L

-----  
 Element File: PBSBB.GEL                    Element: Pb                    Wavelength: 283.3  
 Date: 03/16/94                            Time: 13:00                    Slit: 0.70 L  
 Data File: AL031694.DAT                  ID/Wt File: AL031594.IDW      Lamp Current: 10  
 Technique: HGA                            Calib. Type: Linear            Energy: 66  
 -----

~~~~~  
 Pb    ID: CAL BLANK                    Seq. No.: 00001            A/S Pos.: 0            Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1                            Time: 13:03  
 Peak Area (A-s): 0.004                Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.005      Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): 0.004

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored)            Time: 13:06  
 Peak Area (A-s): 0.001                Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.004      Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): 0.001

Mean Pk Area (A-s):            0.003                    SD: 0.0027                    RSD(%): 104.94

Auto-zero performed.

~~~~~  
 Pb    ID: STD 1 IN-0805                Seq. No.: 00002            A/S Pos.: 32            Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 32  
 Replicate 1                            Time: 13:09  
 Peak Area (A-s): 0.011                Peak Height (A): 0.037  
 Background Pk Area (A-s): 0.009      Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.008

uL dispensed: 4 from 0, 4 from 39, 20 from 32  
 Replicate 2 (Peak Stored)            Time: 13:12  
 Peak Area (A-s): 0.008                Peak Height (A): 0.027  
 Background Pk Area (A-s): 0.008      Background Pk Height (A): 0.008  
 Blank Corrected Pk Area (A-s): 0.006

Mean Pk Area (A-s):            0.007                    SD: 0.0019                    RSD(%): 26.50

Standard number 1 applied. [3.00]  
 Correlation coefficient: 1.00000      Slope: 0.0024                    Int: 0.000

~~~~~  
 Pb    ID: STD 2 IN-0804                Seq. No.: 00003            A/S Pos.: 33            Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 33  
 Replicate 1                            Time: 13:15  
 Peak Area (A-s): 0.024                Peak Height (A): 0.079  
 Background Pk Area (A-s): 0.012      Background Pk Height (A): 0.022  
 Blank Corrected Pk Area (A-s): 0.022  
 Concentration (ug/L ): 9.24

uL dispensed: 4 from 0, 4 from 39, 20 from 33  
 Replicate 2 (Peak Stored)            Time: 13:18  
 Peak Area (A-s): 0.025                Peak Height (A): 0.080  
 Background Pk Area (A-s): 0.012      Background Pk Height (A): 0.022

Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 9.62

Mean Conc (ug/L ): 9.43 SD: 0.271 RSD(%): 2.87

Standard number 2 applied. [10.00]  
 Correlation coefficient: 0.99980 Slope: 0.0022 Int: 0.000

~~~~~  
 Pb ID: STD 3 1N-0803 Seq. No.: 00004 A/S Pos.: 34 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 34  
 Replicate 1 Time: 13:21  
 Peak Area (A-s): 0.060 Peak Height (A): 0.184  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.63

uL dispensed: 4 from 0, 4 from 39, 20 from 34  
 Replicate 2 (Peak Stored) Time: 13:24  
 Peak Area (A-s): 0.060 Peak Height (A): 0.192  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 25.94

Mean Conc (ug/L ): 25.78 SD: 0.220 RSD(%): 0.85

Standard number 3 applied. [25.00]  
 Correlation coefficient: 0.99989 Slope: 0.0023 Int: -0.000

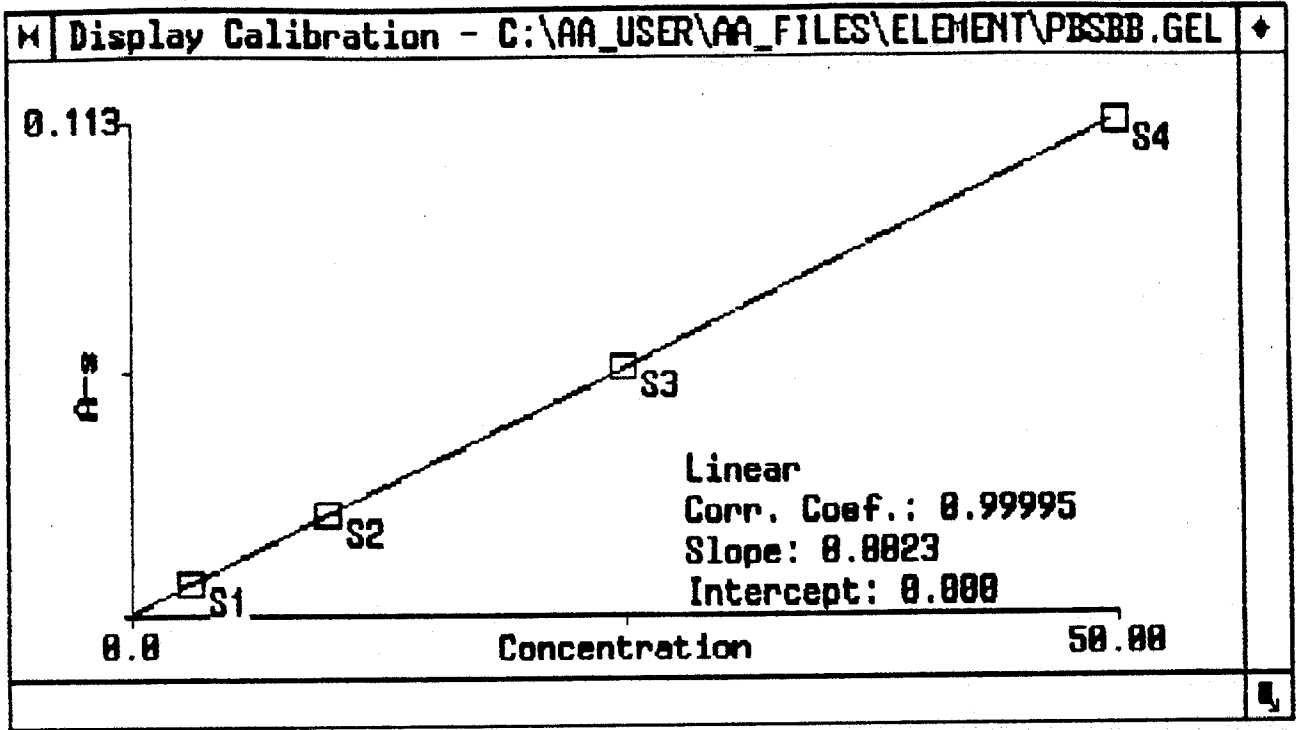
~~~~~  
 Pb ID: STD 4 1N-0802 Seq. No.: 00005 A/S Pos.: 35 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 35  
 Replicate 1 Time: 13:27  
 Peak Area (A-s): 0.115 Peak Height (A): 0.349  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.078  
 Blank Corrected Pk Area (A-s): 0.112  
 Concentration (ug/L ): 48.97

uL dispensed: 4 from 0, 4 from 39, 20 from 35  
 Replicate 2 (Peak Stored) Time: 13:31  
 Peak Area (A-s): 0.116 Peak Height (A): 0.357  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.075  
 Blank Corrected Pk Area (A-s): 0.114  
 Concentration (ug/L ): 49.53

Mean Conc (ug/L ): 49.25 SD: 0.399 RSD(%): 0.81

Standard number 4 applied. [50.00]  
 Correlation coefficient: 0.99995 Slope: 0.0023 Int: 0.000



Pb ID: CCV-0790 Seq. No.: 00006 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38 VOID NO INJECTION SB 3-16-94

Pb ID: ICV-0791 Seq. No.: 00007 A/S Pos.: 37 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 37

Replicate 1 Time: 14:38  
Peak Area (A-s): 0.089 Peak Height (A): 0.261  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.086  
Concentration (ug/L ): 38.07

uL dispensed: 4 from 0, 4 from 39, 20 from 37

Replicate 2 (Peak Stored) Time: 14:41  
Peak Area (A-s): 0.090 Peak Height (A): 0.271  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.072  
Blank Corrected Pk Area (A-s): 0.088  
Concentration (ug/L ): 38.68

Mean Conc (ug/L ): 38.38 SD: 0.426 RSD(%): 1.11

QC sample is within range 31.8 - 38.8

SB 3-16-94  
ICB contaminated

Pb ID: ICB Seq. No.: 00008 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1 Time: 14:44  
Peak Area (A-s): 0.015 Peak Height (A): 0.026  
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 5.55

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Pb ID: ICV-0791 Seq. No.: 00009 A/S Pos.: 37 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 37

Replicate 1 Time: 14:50  
Peak Area (A-s): 0.087 Peak Height (A): 0.240  
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.065  
Blank Corrected Pk Area (A-s): 0.085  
Concentration (ug/L ): 37.34

uL dispensed: 4 from 0, 4 from 39, 20 from 37

Replicate 2 (Peak Stored) Time: 14:53  
Peak Area (A-s): 0.089 Peak Height (A): 0.231  
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.063  
Blank Corrected Pk Area (A-s): 0.086  
Concentration (ug/L ): 37.93

Mean Conc (ug/L ): 37.64 SD: 0.417 RSD(%): 1.11

QC sample is within range 31.8 - 38.8

Re-run check stds  
↓

Pb ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1 Time: 14:56  
 Peak Area (A-s): -0.001 Peak Height (A): 0.003  
 Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.57

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored) Time: 14:59  
 Peak Area (A-s): -0.001 Peak Height (A): 0.003  
 Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.56

Mean Conc (ug/L ): -1.56 SD: 0.010 RSD(%): 0.63

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00011 A/S Pos.: 36 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 36  
 Replicate 1 Time: 15:02  
 Peak Area (A-s): 0.011 Peak Height (A): 0.043  
 Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 3.86

uL dispensed: 4 from 0, 4 from 39, 20 from 36  
 Replicate 2 (Peak Stored) Time: 15:06  
 Peak Area (A-s): 0.010 Peak Height (A): 0.038  
 Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): 3.34

Mean Conc (ug/L ): 3.60 SD: 0.371 RSD(%): 10.31

QC sample is within range 2.25 - 3.75

Pb ID: 7XX-JM4354 SS34 Seq. No.: 00012 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 8

*Autosampler set to wrong position*

Pb ID: PBL-N7R3945 Seq. No.: 00013 A/S Pos.: 1 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 1  
 Replicate 1 Time: 15:12  
 Peak Area (A-s): 0.001 Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -0.78

uL dispensed: 4 from 0, 4 from 39, 20 from 1  
 Replicate 2 (Peak Stored) Time: 15:15  
 Peak Area (A-s): 0.000 Peak Height (A): 0.004



Background Pk Area (A-s): 0.008      Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.09

Mean Conc (ug/L ):      -0.93      SD: 0.222      RSD(%): 23.85

Pb    ID: PBL-N7R3945      Seq. No.: 00014      A/S Pos.: 1      Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 1  
 Replicate 1      Time: 15:18  
 Peak Area (A-s): 0.051      Peak Height (A): 0.163  
 Background Pk Area (A-s): 0.015      Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.32

uL dispensed: 4 from 39, 4 from 40, 20 from 1  
 Replicate 2 (Peak Stored)      Time: 15:22  
 Peak Area (A-s): 0.049      Peak Height (A): 0.168  
 Background Pk Area (A-s): 0.016      Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.047  
 Concentration (ug/L ): 20.60

Mean Conc (ug/L ):      20.96      SD: 0.508      RSD(%): 2.42

Recovery is 109.5%

Pb    ID: LCSSL-N7R3945      Seq. No.: 00015      A/S Pos.: 2      Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 2  
 Replicate 1      Time: 15:25  
 Peak Area (A-s): 0.052      Peak Height (A): 0.176  
 Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 21.72

uL dispensed: 4 from 0, 4 from 39, 20 from 2  
 Replicate 2 (Peak Stored)      Time: 15:28  
 Peak Area (A-s): 0.050      Peak Height (A): 0.177  
 Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 20.98

Mean Conc (ug/L ):      21.35      SD: 0.527      RSD(%): 2.47

Pb    ID: LCSSL-N7R3945      Seq. No.: 00016      A/S Pos.: 2      Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 2  
 Replicate 1      Time: 15:31  
 Peak Area (A-s): 0.096      Peak Height (A): 0.325  
 Background Pk Area (A-s): 0.025      Background Pk Height (A): 0.069  
 Blank Corrected Pk Area (A-s): 0.093  
 Concentration (ug/L ): 41.19

uL dispensed: 4 from 39, 4 from 40, 20 from 2  
 Replicate 2 (Peak Stored)      Time: 15:34  
 Peak Area (A-s): 0.097      Peak Height (A): 0.316

Background Pk Area (A-s): 0.025  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 41.64

Background Pk Height (A): 0.067

Mean Conc (ug/L ): 41.42 SD: 0.317 RSD(%): 0.77

Recovery is 100.3%

Pb ID: 7SM-JM4362 MTXS Seq. No.: 00017 A/S Pos.: 3 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
Replicate 1 Time: 15:37  
Peak Area (A-s): 0.024 Peak Height (A): 0.036  
Background Pk Area (A-s): 0.233 Background Pk Height (A): 0.202  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 9.27

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
Replicate 2 (Peak Stored) Time: 15:41  
Peak Area (A-s): 0.032 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.234 Background Pk Height (A): 0.181  
Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 12.90

Mean Conc (ug/L ): 11.08 SD: 2.570 RSD(%): 23.19

*Automatic  
Renus  
SB  
3-16-94*

Pb ID: 7SM-JM4362 MTXS Seq. No.: 00018 A/S Pos.: 3 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
Replicate 1 Time: 15:44  
Peak Area (A-s): 0.038 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.233 Background Pk Height (A): 0.179  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 15.71

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
Replicate 2 (Peak Stored) Time: 15:47  
Peak Area (A-s): 0.036 Peak Height (A): 0.047  
Background Pk Area (A-s): 0.237 Background Pk Height (A): 0.189  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 14.74

Mean Conc (ug/L ): 15.23 SD: 0.886 RSD(%): 4.51

*Renus 5x  
due to  
sample  
matrix*

Pb ID: 7SD-JM4362 MTXR Seq. No.: 00019 A/S Pos.: 4 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 4  
Replicate 1 Time: 15:50  
Peak Area (A-s): 0.038 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.239 Background Pk Height (A): 0.194  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 15.38

uL dispensed: 4 from 0, 4 from 39, 20 from 4  
Replicate 2 (Peak Stored) Time: 15:53  
Peak Area (A-s): 0.038 Peak Height (A): 0.056

Background Pk Area (A-s): 0.239  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 15.50

Background Pk Height (A): 0.188

Mean Conc (ug/L ): 15.44 SD: 0.081 RSD(%): 0.52

Pb ID: 7XX-JM4362 SS42 Seq. No.: 00020 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 5  
Replicate 1 Time: 15:56  
Peak Area (A-s): 0.013 Peak Height (A): 0.025  
Background Pk Area (A-s): 0.237 Background Pk Height (A): 0.190  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 4.49

uL dispensed: 4 from 0, 4 from 39, 20 from 5  
Replicate 2 (Peak Stored) Time: 16:00  
Peak Area (A-s): 0.013 Peak Height (A): 0.022  
Background Pk Area (A-s): 0.238 Background Pk Height (A): 0.197  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 4.47

Mean Conc (ug/L ): 4.48 SD: 0.013 RSD(%): 0.28

Pb ID: 7XX-JM4362 SS42 Seq. No.: 00021 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 5  
Replicate 1 Time: 16:03  
Peak Area (A-s): 0.028 Peak Height (A): 0.035  
Background Pk Area (A-s): 0.217 Background Pk Height (A): 0.177  
Blank Corrected Pk Area (A-s): 0.026  
Concentration (ug/L ): 11.25

uL dispensed: 4 from 39, 4 from 40, 20 from 5  
Replicate 2 (Peak Stored) Time: 16:06  
Peak Area (A-s): 0.030 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.215 Background Pk Height (A): 0.172  
Blank Corrected Pk Area (A-s): 0.028  
Concentration (ug/L ): 12.27

Mean Conc (ug/L ): 11.76 SD: 0.724 RSD(%): 6.16

Recovery is 36.4% (outside of specified limits)

Pb ID: 7XX-JM4362 DUP Seq. No.: 00022 A/S Pos.: 6 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 6 No Injection SB 3-16-94

Pb ID: CCV-0790 Seq. No.: 00023 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 1 Time: 16:14  
Peak Area (A-s): 0.056 Peak Height (A): 0.191  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): 0.054  
Concentration (ug/L ): 23.58

*SB 3-16-94  
Rerun  
5x  
due to  
sample  
matrix*

Carryover  
due to  
matrix  
Bake Tube  
+ Renew  
↓

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 16:17  
Peak Area (A-s): 0.058 Peak Height (A): 0.200  
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.056  
Concentration (ug/L ): 24.50

Mean Conc (ug/L ): 24.04 SD: 0.649 RSD(%): 2.70

QC sample is out of range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0 NO Injection so 3-16-94

Pb ID: CCV-0790 Seq. No.: 00025 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 1 Time: 16:24  
Peak Area (A-s): 0.048 Peak Height (A): 0.169  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L ): 20.04

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 16:27  
Peak Area (A-s): 0.049 Peak Height (A): 0.136  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.046  
Concentration (ug/L ): 20.27

Mean Conc (ug/L ): 20.16 SD: 0.165 RSD(%): 0.82

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00026 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
Replicate 1 Time: 16:30  
Peak Area (A-s): -0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.005  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.27

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 16:33  
Peak Area (A-s): -0.001 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.45

Mean Conc (ug/L ): -1.36 SD: 0.127 RSD(%): 9.31

QC sample is within range

~~~~~  
 Pb ID: 7SM-JM4362 MTXS Seq. No.: 00027 A/S Pos.: 3 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
 Replicate 1 Time: 16:36  
 Peak Area (A-s): 0.018 Peak Height (A): 0.054  
 Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.222  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 6.84 Corrected Conc (ug/L ): 34.2

uL dispensed: 4 from 0, 4 from 39, 20 from 3  
 Replicate 2 (Peak Stored) Time: 16:39  
 Peak Area (A-s): 0.018 Peak Height (A): 0.036  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.174  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 6.90 Corrected Conc (ug/L ): 34.5

Mean Conc (ug/L ): 6.87<sup>Q</sup> SD: 0.040 RSD(%): 0.58  
 Corrected Conc (ug/L ): 34.3

~~~~~  
 Pb ID: 7SD-JM4362 MTXR Seq. No.: 00028 A/S Pos.: 4 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 4  
 Replicate 1 Time: 16:43  
 Peak Area (A-s): 0.017 Peak Height (A): 0.049  
 Background Pk Area (A-s): 0.204 Background Pk Height (A): 0.215  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 6.51 Corrected Conc (ug/L ): 32.6

uL dispensed: 4 from 0, 4 from 39, 20 from 4  
 Replicate 2 (Peak Stored) Time: 16:46  
 Peak Area (A-s): 0.017 Peak Height (A): 0.045  
 Background Pk Area (A-s): 0.200 Background Pk Height (A): 0.211  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 6.36 Corrected Conc (ug/L ): 31.8

Mean Conc (ug/L ): 6.43<sup>Q</sup> SD: 0.107 RSD(%): 1.66  
 Corrected Conc (ug/L ): 32.2

~~~~~  
 Pb ID: 7XX-JM4362 SS42 Seq. No.: 00029 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 5  
 Replicate 1 Time: 16:49  
 Peak Area (A-s): 0.008 Peak Height (A): 0.019  
 Background Pk Area (A-s): 0.196 Background Pk Height (A): 0.196  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 2.23 Corrected Conc (ug/L ): 11.2

uL dispensed: 4 from 0, 4 from 39, 20 from 5  
 Replicate 2 (Peak Stored) Time: 16:52  
 Peak Area (A-s): 0.008 Peak Height (A): 0.022  
 Background Pk Area (A-s): 0.196 Background Pk Height (A): 0.198  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 2.20 Corrected Conc (ug/L ): 11.0

Mean Conc (ug/L ): 2.22<sup>Q</sup> SD: 0.018 RSD(%): 0.83  
 Corrected Conc (ug/L ): 11.1

~~~~~  
Pb ID: 7XX-JM4362 SS42 Seq. No.: 00030 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 5  
Replicate 1 Time: 16:55  
Peak Area (A-s): 0.057 Peak Height (A): 0.118  
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.188  
Blank Corrected Pk Area (A-s): 0.055  
Concentration (ug/L ): 24.18 Corrected Conc (ug/L ): 120.9

uL dispensed: 4 from 39, 4 from 40, 20 from 5  
Replicate 2 (Peak Stored) Time: 16:58  
Peak Area (A-s): 0.060 Peak Height (A): 0.135  
Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.203  
Blank Corrected Pk Area (A-s): 0.057  
Concentration (ug/L ): 25.28 Corrected Conc (ug/L ): 126.4

Mean Conc (ug/L ): 24.73 SD: 0.775 RSD(%): 3.13  
Corrected Conc (ug/L ): 123.6

Recovery is 112.6%

~~~~~  
Pb ID: 7XX-JM4362 DUP Seq. No.: 00031 A/S Pos.: 6 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 6  
Replicate 1 Time: 17:02  
Peak Area (A-s): 0.011 Peak Height (A): 0.034  
Background Pk Area (A-s): 0.200 Background Pk Height (A): 0.196  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 3.72 Corrected Conc (ug/L ): 18.6

uL dispensed: 4 from 0, 4 from 39, 20 from 6  
Replicate 2 (Peak Stored) Time: 17:05  
Peak Area (A-s): 0.012 Peak Height (A): 0.034  
Background Pk Area (A-s): 0.199 Background Pk Height (A): 0.224  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 3.97 Corrected Conc (ug/L ): 19.8

Mean Conc (ug/L ): 3.84<sup>Q</sup> SD: 0.173 RSD(%): 4.51  
Corrected Conc (ug/L ): 19.2

~~~~~  
Pb ID: 7XX-JM4362 DUP Seq. No.: 00032 A/S Pos.: 6 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 6  
Replicate 1 Time: 17:08  
Peak Area (A-s): 0.061 Peak Height (A): 0.150  
Background Pk Area (A-s): 0.166 Background Pk Height (A): 0.198  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 25.93 Corrected Conc (ug/L ): 129.6

uL dispensed: 4 from 39, 4 from 40, 20 from 6  
Replicate 2 (Peak Stored) Time: 17:11  
Peak Area (A-s): 0.063 Peak Height (A): 0.165  
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.216  
Blank Corrected Pk Area (A-s): 0.060  
Concentration (ug/L ): 26.53 Corrected Conc (ug/L ): 132.6

Mean Conc (ug/L ): 26.23 SD: 0.423 RSD(%): 1.61  
Corrected Conc (ug/L ): 131.1

Recovery is 111.9%

Pb ID: 7XX-JM4353 SS33 Seq. No.: 00033 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 7  
Replicate 1 Time: 17:14  
Peak Area (A-s): 0.002 Peak Height (A): 0.005  
Background Pk Area (A-s): 0.250 Background Pk Height (A): 0.208  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.36

uL dispensed: 4 from 0, 4 from 39, 20 from 7  
Replicate 2 (Peak Stored) Time: 17:17  
Peak Area (A-s): 0.001 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.257 Background Pk Height (A): 0.208  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.73

Mean Conc (ug/L ): -0.55 SD: 0.262 RSD(%): 47.93

Pb ID: 7XX-JM4353 SS33 Seq. No.: 00034 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 7  
Replicate 1 Time: 17:20  
Peak Area (A-s): 0.015 Peak Height (A): 0.020  
Background Pk Area (A-s): 0.229 Background Pk Height (A): 0.189  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 5.37

uL dispensed: 4 from 39, 4 from 40, 20 from 7  
Replicate 2 (Peak Stored) Time: 17:24  
Peak Area (A-s): 0.013 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.230 Background Pk Height (A): 0.190  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 4.44

Mean Conc (ug/L ): 4.91 SD: 0.661 RSD(%): 13.47

Recovery is 27.3% (outside of specified limits)

Pb ID: CCV-0790 Seq. No.: 00035 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 1 Time: 17:28  
Peak Area (A-s): 0.049 Peak Height (A): 0.185  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 20.60

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 17:31  
Peak Area (A-s): 0.050 Peak Height (A): 0.130  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.037

*SP 3-16-94  
Run 5x  
due to  
matrix*



Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 20.70

Mean Conc (ug/L ): 20.65 SD: 0.064 RSD(%): 0.31

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00036 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
Replicate 1 Time: 17:34  
Peak Area (A-s): 0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.11

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 17:37  
Peak Area (A-s): -0.001 Peak Height (A): 0.003  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.005  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.76

Mean Conc (ug/L ): -1.44 SD: 0.462 RSD(%): 32.20

QC sample is within range

Pb ID: 7XX-JM4353 SS33 Seq. No.: 00037 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 7  
Replicate 1 Time: 17:40  
Peak Area (A-s): 0.002 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.197 Background Pk Height (A): 0.204  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.10 Corrected Conc (ug/L ): -0.5

uL dispensed: 4 from 0, 4 from 39, 20 from 7  
Replicate 2 (Peak Stored) Time: 17:43  
Peak Area (A-s): 0.002 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.203 Background Pk Height (A): 0.209  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.45 Corrected Conc (ug/L ): -2.3

Mean Conc (ug/L ): -0.28 SD: 0.247 RSD(%): 89.08  
Corrected Conc (ug/L ): -1.4

Pb ID: 7XX-JM4353 SS33 Seq. No.: 00038 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 7  
Replicate 1 Time: 17:46  
Peak Area (A-s): 0.054 Peak Height (A): 0.156  
Background Pk Area (A-s): 0.182 Background Pk Height (A): 0.244  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 22.59 Corrected Conc (ug/L ): 112.9

uL dispensed: 4 from 39, 4 from 40, 20 from 7



Replicate 2 (Peak Stored) Time: 17:50  
 Peak Area (A-s): 0.052 Peak Height (A): 0.157  
 Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.229  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 22.00 Corrected Conc (ug/L ): 110.0  
 Mean Conc (ug/L ): 22.29 SD: 0.420 RSD(%): 1.88  
 Corrected Conc (ug/L ): 111.5

Recovery is 112.9%

~~~~~  
 Pb ID: 7XX-JM4354 SS34 Seq. No.: 00039 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 8  
 Replicate 1 Time: 17:53  
 Peak Area (A-s): 0.002 Peak Height (A): 0.005  
 Background Pk Area (A-s): 0.238 Background Pk Height (A): 0.239  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.47

uL dispensed: 4 from 0, 4 from 39, 20 from 8  
 Replicate 2 (Peak Stored) Time: 17:56  
 Peak Area (A-s): 0.002 Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.239 Background Pk Height (A): 0.229  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.45

Mean Conc (ug/L ): -0.46 SD: 0.016 RSD(%): 3.49

~~~~~  
 Pb ID: 7XX-JM4354 SS34 Seq. No.: 00040 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 8  
 Replicate 1 Time: 17:59  
 Peak Area (A-s): 0.015 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.196  
 Blank Corrected Pk Area (A-s): 0.012  
 Concentration (ug/L ): 5.37

uL dispensed: 4 from 39, 4 from 40, 20 from 8  
 Replicate 2 (Peak Stored) Time: 18:02  
 Peak Area (A-s): 0.015 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.210 Background Pk Height (A): 0.188  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 5.51

Mean Conc (ug/L ): 5.44 SD: 0.100 RSD(%): 1.84

Recovery is 29.5% (outside of specified limits)

~~~~~  
 Pb ID: 7XX-JM4354 SS34 Seq. No.: 00041 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 8  
 Replicate 1 Time: 18:06  
 Peak Area (A-s): 0.003 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.204

SB 3-16-94  
 lower 5x  
 due to  
 matrix  
 ↓

Concentration (ug/L ): 0.25 Corrected Conc (ug/L ): 1.3

uL dispensed: 4 from 0, 4 from 39, 20 from 8  
Replicate 2 (Peak Stored) Time: 18:09  
Peak Area (A-s): 0.004 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.195 Background Pk Height (A): 0.204  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.52 Corrected Conc (ug/L ): 2.6

Mean Conc (ug/L ): 0.39 SD: 0.187 RSD(%): 48.41  
Corrected Conc (ug/L ): 1.9

Pb ID: 7XX-JM4354 SS34 Seq. No.: 00042 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 8  
Replicate 1 Time: 18:12  
Peak Area (A-s): 0.056 Peak Height (A): 0.146  
Background Pk Area (A-s): 0.163 Background Pk Height (A): 0.226  
Blank Corrected Pk Area (A-s): 0.053  
Concentration (ug/L ): 23.41 Corrected Conc (ug/L ): 117.1

uL dispensed: 4 from 39, 4 from 40, 20 from 8  
Replicate 2 (Peak Stored) Time: 18:15  
Peak Area (A-s): 0.057 Peak Height (A): 0.183  
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.248  
Blank Corrected Pk Area (A-s): 0.055  
Concentration (ug/L ): 24.17 Corrected Conc (ug/L ): 120.8

Mean Conc (ug/L ): 23.79 SD: 0.534 RSD(%): 2.25  
Corrected Conc (ug/L ): 118.9

Recovery is 117.0% (outside of specified limits)

Pb ID: 7XX-JM4355 SS35 Seq. No.: 00043 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 9  
Replicate 1 Time: 18:18  
Peak Area (A-s): 0.034 Peak Height (A): 0.059  
Background Pk Area (A-s): 0.249 Background Pk Height (A): 0.249  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 14.02

uL dispensed: 4 from 0, 4 from 39, 20 from 9  
Replicate 2 (Peak Stored) Time: 18:21  
Peak Area (A-s): 0.036 Peak Height (A): 0.076  
Background Pk Area (A-s): 0.254 Background Pk Height (A): 0.247  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 14.72

Mean Conc (ug/L ): 14.37 SD: 0.490 RSD(%): 3.41

Pb ID: 7XX-JM4355 SS35 Seq. No.: 00044 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 9  
Replicate 1 Time: 18:24  
Peak Area (A-s): 0.034 Peak Height (A): 0.056

*SB 3-16-94*  
*Re-run 10x due to matrix*  
↓

Background Pk Area (A-s): 0.225  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 13.69

Background Pk Height (A): 0.214

uL dispensed: 4 from 39, 4 from 40, 20 from 9

Replicate 2 (Peak Stored)

Time: 18:28

Peak Area (A-s): 0.033

Peak Height (A): 0.044

Background Pk Area (A-s): 0.214

Background Pk Height (A): 0.200

Blank Corrected Pk Area (A-s): 0.030

Concentration (ug/L ): 13.28

Mean Conc (ug/L ): 13.49

SD: 0.289

RSD(%): 2.14

Recovery is -4.4% (outside of specified limits)

Pb ID: 7XX-JM4356 SS36 *DOID* Seq. No.: 00045 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 10

*NO INJECTION*

*SB 3-16-94*

Pb ID: 7XX-JM4355 SS35 Seq. No.: 00046 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 9

Replicate 1

Time: 18:32

Peak Area (A-s): 0.013

Peak Height (A): 0.038

Background Pk Area (A-s): 0.092

Background Pk Height (A): 0.093

Blank Corrected Pk Area (A-s): 0.010

Concentration (ug/L ): 4.42

Corrected Conc (ug/L ): 44.2

uL dispensed: 4 from 0, 4 from 39, 20 from 9

Replicate 2 (Peak Stored)

Time: 18:35

Peak Area (A-s): 0.011

Peak Height (A): 0.028

Background Pk Area (A-s): 0.096

Background Pk Height (A): 0.099

Blank Corrected Pk Area (A-s): 0.009

Concentration (ug/L ): 3.87

Corrected Conc (ug/L ): 38.7

Mean Conc (ug/L ): 4.15 *Q*

SD: 0.388

RSD(%): 9.35

Corrected Conc (ug/L ): 41.5

Pb ID: 7XX-JM4355 SS35 Seq. No.: 00047 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 9

Replicate 1

Time: 18:38

Peak Area (A-s): 0.060

Peak Height (A): 0.211

Background Pk Area (A-s): 0.105

Background Pk Height (A): 0.164

Blank Corrected Pk Area (A-s): 0.058

Concentration (ug/L ): 25.54

Corrected Conc (ug/L ): 255.4

uL dispensed: 4 from 39, 4 from 40, 20 from 9

Replicate 2 (Peak Stored)

Time: 18:41

Peak Area (A-s): 0.061

Peak Height (A): 0.219

Background Pk Area (A-s): 0.106

Background Pk Height (A): 0.170

Blank Corrected Pk Area (A-s): 0.058

Concentration (ug/L ): 25.62

Corrected Conc (ug/L ): 256.2

Mean Conc (ug/L ): 25.58

SD: 0.058

RSD(%): 0.23

Corrected Conc (ug/L ): 255.8

Recovery is 107.1%

Pb ID: CCV-0790 Seq. No.: 00048 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 1

Time: 18:44

Peak Area (A-s): 0.051

Peak Height (A): 0.146

Background Pk Area (A-s): 0.034

Background Pk Height (A): 0.041

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 21.17

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 18:47

Peak Area (A-s): 0.051

Peak Height (A): 0.140

Background Pk Area (A-s): 0.034

Background Pk Height (A): 0.040

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 21.28

Mean Conc (ug/L ): 21.23

21.23

SD: 0.077

RSD(%): 0.36

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00049 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1

Time: 18:50

Peak Area (A-s): 0.001

Peak Height (A): 0.005

Background Pk Area (A-s): 0.006

Background Pk Height (A): 0.006

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -0.88

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 18:53

Peak Area (A-s): -0.001

Peak Height (A): 0.003

Background Pk Area (A-s): 0.006

Background Pk Height (A): 0.008

Blank Corrected Pk Area (A-s): -0.004

Concentration (ug/L ): -1.77

Mean Conc (ug/L ): -1.32

-1.32

SD: 0.628

RSD(%): 47.50

QC sample is within range

Pb ID: 7XX-JM4356 SS36 Seq. No.: 00050 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 10

Replicate 1

Time: 18:56

Peak Area (A-s): 0.004

Peak Height (A): 0.008

Background Pk Area (A-s): 0.240

Background Pk Height (A): 0.276

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.43

uL dispensed: 4 from 0, 4 from 39, 20 from 10

Replicate 2 (Peak Stored)

Time: 18:59

Peak Area (A-s): 0.004

Peak Height (A): 0.009

Background Pk Area (A-s): 0.246

Background Pk Height (A): 0.261

Blank Corrected Pk Area (A-s): 0.002

SB 3-16-94  
Ream 5x  
due to  
matrix

Concentration (ug/L ): 0.72

Mean Conc (ug/L ): 0.58 SD: 0.204 RSD(%): 35.22

Pb ID: 7XX-JM4356 SS36 Seq. No.: 00051 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 10

Replicate 1

Time: 19:02

Peak Area (A-s): 0.015

Peak Height (A): 0.021

Background Pk Area (A-s): 0.224

Background Pk Height (A): 0.220

Blank Corrected Pk Area (A-s): 0.013

Concentration (ug/L ): 5.52

uL dispensed: 4 from 39, 4 from 40, 20 from 10

Replicate 2 (Peak Stored)

Time: 19:06

Peak Area (A-s): 0.017

Peak Height (A): 0.024

Background Pk Area (A-s): 0.220

Background Pk Height (A): 0.221

Blank Corrected Pk Area (A-s): 0.015

Concentration (ug/L ): 6.35

Mean Conc (ug/L ): 5.94 SD: 0.583 RSD(%): 9.83

Recovery is 26.8% (outside of specified limits)

Pb ID: 7XX-JM4356 SS36 Seq. No.: 00052 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 10

Replicate 1

Time: 19:09

Peak Area (A-s): 0.004

Peak Height (A): 0.017

Background Pk Area (A-s): 0.190

Background Pk Height (A): 0.224

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.40

Corrected Conc (ug/L ): 2.0

uL dispensed: 4 from 0, 4 from 39, 20 from 10

Replicate 2 (Peak Stored)

Time: 19:12

Peak Area (A-s): 0.003

Peak Height (A): 0.011

Background Pk Area (A-s): 0.194

Background Pk Height (A): 0.209

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): 0.05

Corrected Conc (ug/L ): 0.2

Mean Conc (ug/L ): 0.22 SD: 0.251 RSD(%): 111.89

Corrected Conc (ug/L ): 1.1

Pb ID: 7XX-JM4356 SS36 Seq. No.: 00053 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 10

Replicate 1

Time: 19:15

Peak Area (A-s): 0.050

Peak Height (A): 0.149

Background Pk Area (A-s): 0.162

Background Pk Height (A): 0.215

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 21.08

Corrected Conc (ug/L ): 105.4

uL dispensed: 4 from 39, 4 from 40, 20 from 10

Replicate 2 (Peak Stored)

Time: 19:18

Peak Area (A-s): 0.054

Peak Height (A): 0.158

Background Pk Area (A-s): 0.170

Background Pk Height (A): 0.236

Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 22.89

Corrected Conc (ug/L ): 114.4

Mean Conc (ug/L ): 21.98  
Corrected Conc (ug/L ): 109.9

SD: 1.280

RSD(%): 5.82

Recovery is 108.8%

Pb ID: 7XX-JM4357 SS37 Seq. No.: 00054 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 11

Replicate 1

Time: 19:21

Peak Area (A-s): 0.002

Peak Height (A): 0.006

Background Pk Area (A-s): 0.245

Background Pk Height (A): 0.311

Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L ): -0.14

uL dispensed: 4 from 0, 4 from 39, 20 from 11

Replicate 2 (Peak Stored)

Time: 19:24

Peak Area (A-s): 0.001

Peak Height (A): 0.005

Background Pk Area (A-s): 0.248

Background Pk Height (A): 0.291

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.67

Mean Conc (ug/L ): -0.41

SD: 0.379

RSD(%): 93.19

Pb ID: 7XX-JM4357 SS37 Seq. No.: 00055 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 11

Replicate 1

Time: 19:27

Peak Area (A-s): 0.013

Peak Height (A): 0.025

Background Pk Area (A-s): 0.220

Background Pk Height (A): 0.228

Blank Corrected Pk Area (A-s): 0.010

Concentration (ug/L ): 4.47

uL dispensed: 4 from 39, 4 from 40, 20 from 11

Replicate 2 (Peak Stored)

Time: 19:30

Peak Area (A-s): 0.013

Peak Height (A): 0.024

Background Pk Area (A-s): 0.221

Background Pk Height (A): 0.225

Blank Corrected Pk Area (A-s): 0.010

Concentration (ug/L ): 4.55

Mean Conc (ug/L ): 4.51

SD: 0.063

RSD(%): 1.40

Recovery is 24.6% (outside of specified limits)

Pb ID: 7XX-JM4357 SS37 Seq. No.: 00056 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 11

Replicate 1

Time: 19:34

Peak Area (A-s): 0.001

Peak Height (A): 0.008

Background Pk Area (A-s): 0.177

Background Pk Height (A): 0.164

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.58

Corrected Conc (ug/L ): -2.9

uL dispensed: 4 from 0, 4 from 39, 20 from 11

*SB 3-16-94  
Clean 5x  
due to  
matrix*  
↓

Replicate 2 (Peak Stored) Time: 19:37  
 Peak Area (A-s): 0.002 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.171  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.45 Corrected Conc (ug/L ): -2.2  
 Mean Conc (ug/L ): -0.52 SD: 0.095 RSD(%): 18.36  
 Corrected Conc (ug/L ): -2.6

Pb ID: 7XX-JM4357 SS37 Seq. No.: 00057 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 11  
 Replicate 1 Time: 19:40  
 Peak Area (A-s): 0.051 Peak Height (A): 0.137  
 Background Pk Area (A-s): 0.163 Background Pk Height (A): 0.207  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 21.54 Corrected Conc (ug/L ): 107.7

uL dispensed: 4 from 39, 4 from 40, 20 from 11  
 Replicate 2 (Peak Stored) Time: 19:43  
 Peak Area (A-s): 0.057 Peak Height (A): 0.181  
 Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.320  
 Blank Corrected Pk Area (A-s): 0.055  
 Concentration (ug/L ): 24.06 Corrected Conc (ug/L ): 120.3

Mean Conc (ug/L ): 22.80 SD: 1.778 RSD(%): 7.80  
 Corrected Conc (ug/L ): 114.0

Recovery is 116.6% (outside of specified limits)

Pb ID: 7XX-JM4358 SS38 Seq. No.: 00058 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 12  
 Replicate 1 Time: 19:46  
 Peak Area (A-s): 0.059 Peak Height (A): 0.125  
 Background Pk Area (A-s): 0.268 Background Pk Height (A): 0.286  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 24.80

uL dispensed: 4 from 0, 4 from 39, 20 from 12  
 Replicate 2 (Peak Stored) Time: 19:49  
 Peak Area (A-s): 0.067 Peak Height (A): 0.133  
 Background Pk Area (A-s): 0.274 Background Pk Height (A): 0.290  
 Blank Corrected Pk Area (A-s): 0.064  
 Concentration (ug/L ): 28.42

Mean Conc (ug/L ): 26.61 SD: 2.554 RSD(%): 9.60

Pb ID: 7XX-JM4358 SS38 Seq. No.: 00059 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 12  
 Replicate 1 Time: 19:52  
 Peak Area (A-s): 0.060 Peak Height (A): 0.087  
 Background Pk Area (A-s): 0.244 Background Pk Height (A): 0.252  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.15

SB 3-16-94  
 Return 25x  
 due to matrix  
 ↓

uL dispensed: 4 from 39, 4 from 40, 20 from 12  
 Replicate 2 (Peak Stored) Time: 19:55  
 Peak Area (A-s): 0.063 Peak Height (A): 0.113  
 Background Pk Area (A-s): 0.248 Background Pk Height (A): 0.248  
 Blank Corrected Pk Area (A-s): 0.061  
 Concentration (ug/L ): 26.76

Mean Conc (ug/L ): 25.95 SD: 1.134 RSD(%): 4.37

Recovery is -3.3% (outside of specified limits)

~~~~~  
 Pb ID: CCV-0790 Seq. No.: 00060 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 20:00  
 Peak Area (A-s): 0.052 Peak Height (A): 0.147  
 Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 21.98

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 20:03  
 Peak Area (A-s): 0.053 Peak Height (A): 0.184  
 Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 22.40

Mean Conc (ug/L ): 22.19 SD: 0.300 RSD(%): 1.35

QC sample is within range 19.1 - 23.3

~~~~~  
 Pb ID: CCB Seq. No.: 00061 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1 Time: 20:06  
 Peak Area (A-s): 0.001 Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.71

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored) Time: 20:09  
 Peak Area (A-s): 0.000 Peak Height (A): 0.003  
 Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.15

Mean Conc (ug/L ): -0.93 SD: 0.313 RSD(%): 33.72

QC sample is within range

~~~~~  
 Pb ID: 7XX-JM4358 SS38 Seq. No.: 00062 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 12  
 Replicate 1 Time: 20:12



0210

~~SB~~  
3-16-94

Background Pk Area (A-s): 0.037  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 3.73

Background Pk Height (A): 0.046  
Corrected Conc (ug/L ): 93.3

uL dispensed: 4 from 0, 4 from 39, 20 from 12

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.011  
Background Pk Area (A-s): 0.042  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 3.77

Time: 20:15  
Peak Height (A): 0.025  
Background Pk Height (A): 0.056  
Corrected Conc (ug/L ): 94.2

Mean Conc (ug/L ): 3.75 Q  
Corrected Conc (ug/L ): 93.7

SD: 0.027 RSD(%): 0.71

Pb 1D: 7XX-JM4358 SS38 Seq. No.: 00063 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 12

Replicate 1  
Peak Area (A-s): 0.063  
Background Pk Area (A-s): 0.045  
Blank Corrected Pk Area (A-s): 0.060  
Concentration (ug/L ): 26.59

Time: 20:18  
Peak Height (A): 0.184  
Background Pk Height (A): 0.086  
Corrected Conc (ug/L ): 664.7

uL dispensed: 4 from 39, 4 from 40, 20 from 12

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.063  
Background Pk Area (A-s): 0.047  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 26.74

Time: 20:22  
Peak Height (A): 0.191  
Background Pk Height (A): 0.088  
Corrected Conc (ug/L ): 668.6

Mean Conc (ug/L ): 26.67  
Corrected Conc (ug/L ): 666.7

SD: 0.111 RSD(%): 0.42

Recovery is 114.6%

Pb 1D: 7XX-JM4359 SS39 Seq. No.: 00064 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 13

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.265  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.39

Time: 20:25  
Peak Height (A): 0.009  
Background Pk Height (A): 0.294

uL dispensed: 4 from 0, 4 from 39, 20 from 13

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.007  
Background Pk Area (A-s): 0.278  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.77

Time: 20:28  
Peak Height (A): 0.013  
Background Pk Height (A): 0.322

Mean Conc (ug/L ): 1.08

SD: 0.979 RSD(%): 90.66

Pb 1D: 7XX-JM4359 SS39 Seq. No.: 00065 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 13

SB 3-16-94  
Re-run 5x  
due to  
matrix



Replicate 1 Time: 20:31  
 Peak Area (A-s): 0.018 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.240 Background Pk Height (A): 0.253  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 6.79

uL dispensed: 4 from 39, 4 from 40, 20 from 13  
 Replicate 2 (Peak Stored) Time: 20:34  
 Peak Area (A-s): 0.015 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.236 Background Pk Height (A): 0.249  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 5.48

Mean Conc (ug/L ): 6.13 SD: 0.925 RSD(%): 15.09

Recovery is 25.3% (outside of specified limits)

~~~~~  
 Pb ID: 7XX-JM4359 SS39 Seq. No.: 00066 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 13  
 Replicate 1 Time: 20:37  
 Peak Area (A-s): 0.010 Peak Height (A): 0.037  
 Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.331  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): 3.44 Corrected Conc (ug/L ): 17.2

uL dispensed: 4 from 0, 4 from 39, 20 from 13  
 Replicate 2 (Peak Stored) Time: 20:40  
 Peak Area (A-s): 0.009 Peak Height (A): 0.022  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.222  
 Blank Corrected Pk Area (A-s): 0.006  
 Concentration (ug/L ): 2.74 Corrected Conc (ug/L ): 13.7

Mean Conc (ug/L ): 3.09 SD: 0.494 RSD(%): 16.02

Corrected Conc (ug/L ): 15.4

~~~~~  
 Pb ID: 7XX-JM4359 SS39 Seq. No.: 00067 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 13  
 Replicate 1 Time: 20:43  
 Peak Area (A-s): 0.007 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.224  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 2.08 Corrected Conc (ug/L ): 10.4

uL dispensed: 4 from 0, 4 from 39, 20 from 13  
 Replicate 2 (Peak Stored) Time: 20:46  
 Peak Area (A-s): 0.008 Peak Height (A): 0.022  
 Background Pk Area (A-s): 0.185 Background Pk Height (A): 0.214  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 2.22 Corrected Conc (ug/L ): 11.1

Mean Conc (ug/L ): 2.15<sup>Q</sup> SD: 0.101 RSD(%): 4.70  
 Corrected Conc (ug/L ): 10.7

SB 3-16-96  
 Automatic  
 Recm

Pb ID: 7XX-JM4359 SS39 Seq. No.: 00068 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 13  
Replicate 1 Time: 20:49  
Peak Area (A-s): 0.057 Peak Height (A): 0.193  
Background Pk Area (A-s): 0.170 Background Pk Height (A): 0.289  
Blank Corrected Pk Area (A-s): 0.055  
Concentration (ug/L ): 24.20 Corrected Conc (ug/L ): 121.0

uL dispensed: 4 from 39, 4 from 40, 20 from 13  
Replicate 2 (Peak Stored) Time: 20:52  
Peak Area (A-s): 0.060 Peak Height (A): 0.159  
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.240  
Blank Corrected Pk Area (A-s): 0.057  
Concentration (ug/L ): 25.22 Corrected Conc (ug/L ): 126.1

Mean Conc (ug/L ): 24.71 SD: 0.721 RSD(%): 2.92  
Corrected Conc (ug/L ): 123.6

Recovery is 112.8%

Pb ID: 7XX-JM4360 SS40 Seq. No.: 00069 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 14  
Replicate 1 Time: 20:55  
Peak Area (A-s): 0.002 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.238 Background Pk Height (A): 0.279  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.19

uL dispensed: 4 from 0, 4 from 39, 20 from 14  
Replicate 2 (Peak Stored) Time: 20:58  
Peak Area (A-s): 0.002 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.246 Background Pk Height (A): 0.271  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.39

Mean Conc (ug/L ): -0.29 SD: 0.143 RSD(%): 49.16

Pb ID: 7XX-JM4360 SS40 Seq. No.: 00070 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 14  
Replicate 1 Time: 21:01  
Peak Area (A-s): 0.014 Peak Height (A): 0.026  
Background Pk Area (A-s): 0.216 Background Pk Height (A): 0.246  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 5.14

uL dispensed: 4 from 39, 4 from 40, 20 from 14  
Replicate 2 (Peak Stored) Time: 21:04  
Peak Area (A-s): 0.015 Peak Height (A): 0.029  
Background Pk Area (A-s): 0.215 Background Pk Height (A): 0.242  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 5.25

*SB 3-16-94  
Re-run 5x  
due to  
matrix  
↓*

Recovery is 27.4% (outside of specified limits)

Pb ID: 7XX-JM4360 SS40 Seq. No.: 00071 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 14

*No Injection SD 3-16-94*

Pb ID: CCV-0790 Seq. No.: 00072 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 1 Time: 21:09  
Peak Area (A-s): 0.055 Peak Height (A): 0.180  
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 22.99

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 2 (Peak Stored) Time: 21:12  
Peak Area (A-s): 0.053 Peak Height (A): 0.145  
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.040  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 22.22

Mean Conc (ug/L ): 22.61 SD: 0.545 RSD(%): 2.41

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00073 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1 Time: 21:15  
Peak Area (A-s): -0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.28

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 21:18  
Peak Area (A-s): -0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.36

Mean Conc (ug/L ): -1.32 SD: 0.054 RSD(%): 4.12

QC sample is within range

Pb ID: 7XX-JM4360 SS40 Seq. No.: 00074 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 14

Replicate 1 Time: 21:21  
Peak Area (A-s): 0.004 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.216  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.37 Corrected Conc (ug/L ): 1.8

uL dispensed: 4 from 0, 4 from 39, 20 from 14

*W*

Replicate 2 (Peak Stored) Time: 21:24  
 Peak Area (A-s): 0.003 Peak Height (A): 0.019  
 Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.342  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.25 Corrected Conc (ug/L ): 1.3

Mean Conc (ug/L ): 0.31 *Q* SD: 0.081 RSD(%): 26.25  
 Corrected Conc (ug/L ): 1.6

~~~~~  
 Pb ID: 7XX-JM4360 SS40 Seq. No.: 00075 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 14  
 Replicate 1 Time: 21:27  
 Peak Area (A-s): 0.059 Peak Height (A): 0.182  
 Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.326  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.06 Corrected Conc (ug/L ): 125.3

uL dispensed: 4 from 39, 4 from 40, 20 from 14  
 Replicate 2 (Peak Stored) Time: 21:30  
 Peak Area (A-s): 0.052 Peak Height (A): 0.189  
 Background Pk Area (A-s): 0.162 Background Pk Height (A): 0.336  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 21.63 Corrected Conc (ug/L ): 108.1

Mean Conc (ug/L ): 23.35 SD: 2.431 RSD(%): 10.41  
 Corrected Conc (ug/L ): 116.7

Recovery is 115.2% (outside of specified limits)

~~~~~  
 Pb ID: 7XX-JM4361 SS41 Seq. No.: 00076 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 1 Time: 21:33  
 Peak Area (A-s): 0.091 Peak Height (A): 0.272  
 Background Pk Area (A-s): 0.223 Background Pk Height (A): 0.230  
 Blank Corrected Pk Area (A-s): 0.088  
 Concentration (ug/L ): 38.81

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 2 (Peak Stored) Time: 21:36  
 Peak Area (A-s): 0.091 Peak Height (A): 0.215  
 Background Pk Area (A-s): 0.213 Background Pk Height (A): 0.231  
 Blank Corrected Pk Area (A-s): 0.088  
 Concentration (ug/L ): 38.95

Mean Conc (ug/L ): 38.88 SD: 0.096 RSD(%): 0.25

~~~~~  
 Pb ID: 7XX-JM4361 SS41 Seq. No.: 00077 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 15  
 Replicate 1 Time: 21:39  
 Peak Area (A-s): 0.087 Peak Height (A): 0.202  
 Background Pk Area (A-s): 0.186 Background Pk Height (A): 0.219  
 Blank Corrected Pk Area (A-s): 0.084  
 Concentration (ug/L ): 37.19

*SR 3-16-94  
 Run 25x10  
 due to  
 matrix*

uL dispensed: 4 from 39, 4 from 40, 20 from 15  
 Replicate 2 (Peak Stored) Time: 21:42  
 Peak Area (A-s): 0.100 Peak Height (A): 0.255  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.218  
 Blank Corrected Pk Area (A-s): 0.097  
 Concentration (ug/L ): 42.92

Mean Conc (ug/L ): 40.05 SD: 4.051 RSD(%): 10.12

Recovery is 5.9% (outside of specified limits)

~~~~~  
 Pb ID: 7XX-JM4361 SS41 Seq. No.: 00078 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 1 Time: 21:45  
 Peak Area (A-s): 0.006 Peak Height (A): 0.033  
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.059  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.34 Corrected Conc (ug/L ): 33.5

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 2 (Peak Stored) Time: 21:49  
 Peak Area (A-s): 0.006 Peak Height (A): 0.029  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.054  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.32 Corrected Conc (ug/L ): 33.1

Mean Conc (ug/L ): 1.33 SD: 0.012 RSD(%): 0.91  
 Corrected Conc (ug/L ): 33.3

~~~~~  
 Pb ID: 7XX-JM4361 SS41 Seq. No.: 00079 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 1 Time: 21:52  
 Peak Area (A-s): 0.011 Peak Height (A): 0.048  
 Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.107  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 3.79 Corrected Conc (ug/L ): 37.9

uL dispensed: 4 from 0, 4 from 39, 20 from 15  
 Replicate 2 (Peak Stored) Time: 21:55  
 Peak Area (A-s): 0.011 Peak Height (A): 0.023  
 Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 3.69 Corrected Conc (ug/L ): 36.9

Mean Conc (ug/L ): 3.74 SD: 0.072 RSD(%): 1.91  
 Corrected Conc (ug/L ): 37.4

~~~~~  
 Pb ID: 7XX-JM4361 SS41 Seq. No.: 00080 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 15  
 Replicate 1 Time: 21:58  
 Peak Area (A-s): 0.060 Peak Height (A): 0.229  
 Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.137

*SB 3-16-94*  
*WRONG*  
*DIRECTION (EX)*  
*10x*  
 ↓

0216

Concentration (ug/L ): 25.37                      Corrected Conc (ug/L ): 253.7

uL dispensed: 4 from 39, 4 from 40, 20 from 15

Replicate 2 (Peak Stored)                      Time: 22:01

Peak Area (A-s): 0.061                      Peak Height (A): 0.238

Background Pk Area (A-s): 0.055              Background Pk Height (A): 0.138

Blank Corrected Pk Area (A-s): 0.058

Concentration (ug/L ): 25.58                      Corrected Conc (ug/L ): 255.8

Mean Conc (ug/L ):                      25.47                      SD: 0.14/                      RSD(%): 0.58

Corrected Conc (ug/L ): 254.7

Recovery is 108.7%

~~~~~

Pb    ID: TCLP BLK 3945                      Seq. No.: 00081                      A/S Pos.: 16                      Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 16

Replicate 1                      Time: 22:04

Peak Area (A-s): 0.005                      Peak Height (A): 0.012

Background Pk Area (A-s): 0.212              Background Pk Height (A): 0.257

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): 0.83

uL dispensed: 4 from 0, 4 from 39, 20 from 16

Replicate 2 (Peak Stored)                      Time: 22:07


Peak Area (A-s): 0.003                      Peak Height (A): 0.011

Background Pk Area (A-s): 0.213              Background Pk Height (A): 0.252

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): 0.14

Mean Conc (ug/L ):                      0.49                      SD: 0.491                      RSD(%): 101.14

*SO 3-16-94*  
*Re-run 5x*  
*for matrix*  


~~~~~

Pb    ID: TCLP BLK 3945                      Seq. No.: 00082                      A/S Pos.: 16                      Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 16

Replicate 1                      Time: 22:10

Peak Area (A-s): 0.015                      Peak Height (A): 0.036

Background Pk Area (A-s): 0.192              Background Pk Height (A): 0.242

Blank Corrected Pk Area (A-s): 0.013

Concentration (ug/L ): 5.61

uL dispensed: 4 from 39, 4 from 40, 20 from 16

Replicate 2 (Peak Stored)                      Time: 22:13

Peak Area (A-s): 0.015                      Peak Height (A): 0.032

Background Pk Area (A-s): 0.191              Background Pk Height (A): 0.249

Blank Corrected Pk Area (A-s): 0.012

Concentration (ug/L ): 5.35

Mean Conc (ug/L ):                      5.48                      SD: 0.185                      RSD(%): 3.38

Recovery is 25.0% (outside of specified limits)

*to SO 3-16-94*  
*4/12/94*  
*max 140000*

~~~~~

Pb    ID: CCV-0790                      Seq. No.: 00083                      A/S Pos.: 38                      Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 1                      Time: 22:20

Peak Area (A-s): 0.055                      Peak Height (A): 0.162  
 Background Pk Area (A-s): 0.032            Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.052  
 Concentration (ug/L ): 22.94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 2 (Peak Stored)                      Time: 22:23  
 Peak Area (A-s): 0.054                      Peak Height (A): 0.146  
 Background Pk Area (A-s): 0.032            Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 22.56

Mean Conc (ug/L ):            22.75                      SD: 0.271                      RSD(%): 1.19

QC sample is within range 19.1 - 23.3

~~~~~  
 Pb    ID: CCB                      Seq. No.: 00084            A/S Pos.: 0            Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1                      Time: 22:26  
 Peak Area (A-s): -0.000                      Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.006            Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.34

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored)                      Time: 22:29  
 Peak Area (A-s): -0.000                      Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.006            Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.32

Mean Conc (ug/L ):            -1.33                      SD: 0.014                      RSD(%): 1.09

QC sample is within range

~~~~~  
 Pb    ID: TCLP BLK 3945            Seq. No.: 00085            A/S Pos.: 16            Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 16  
 Replicate 1                      Time: 22:33  
 Peak Area (A-s): 0.002                      Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.151            Background Pk Height (A): 0.176  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.34                      Corrected Conc (ug/L ): -1.7

uL dispensed: 4 from 0, 4 from 39, 20 from 16  
 Replicate 2 (Peak Stored)                      Time: 22:36  
 Peak Area (A-s): 0.002                      Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.150            Background Pk Height (A): 0.170  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.13                      Corrected Conc (ug/L ): -0.6

Mean Conc (ug/L ):            -0.23                      SD: 0.149                      RSD(%): 63.62  
 Corrected Conc (ug/L ): -1.2



Pb ID: TCLP BLK 3945 Seq. No.: 00086 A/S Pos.: 16 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 16  
 Replicate 1 Time: 22:39  
 Peak Area (A-s): 0.046 Peak Height (A): 0.148  
 Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.219  
 Blank Corrected Pk Area (A-s): 0.043  
 Concentration (ug/L ): 19.06 Corrected Conc (ug/L ): 95.3

uL dispensed: 4 from 39, 4 from 40, 20 from 16  
 Replicate 2 (Peak Stored) Time: 22:42  
 Peak Area (A-s): 0.046 Peak Height (A): 0.138  
 Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.195  
 Blank Corrected Pk Area (A-s): 0.044  
 Concentration (ug/L ): 19.35 Corrected Conc (ug/L ): 96.8

Mean Conc (ug/L ): 19.21 SD: 0.205 RSD(%): 1.07  
 Corrected Conc (ug/L ): 96.0

Recovery is  $\frac{96.1\%}{97.2\%} = 98.9\%$   
 $\frac{96.1}{97.2} = 0.989$

Pb ID: PBL-N7R3948 Seq. No.: 00087 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 17  
 Replicate 1 Time: 22:45  
 Peak Area (A-s): 0.002 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.37

uL dispensed: 4 from 0, 4 from 39, 20 from 17  
 Replicate 2 (Peak Stored) Time: 22:48  
 Peak Area (A-s): 0.000 Peak Height (A): 0.005  
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.06

Mean Conc (ug/L ): -0.72 Q SD: 0.489 RSD(%): 68.27

Pb ID: PBL-N7R3948 Seq. No.: 00088 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 17  
 Replicate 1 Time: 22:51  
 Peak Area (A-s): 0.043 Peak Height (A): 0.133  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): 0.041  
 Concentration (ug/L ): 17.87

uL dispensed: 4 from 39, 4 from 40, 20 from 17  
 Replicate 2 (Peak Stored) Time: 22:54  
 Peak Area (A-s): 0.045 Peak Height (A): 0.139  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.043  
 Concentration (ug/L ): 18.80

Recovery is 95.3% <sup>41.7%</sup> <sub>3-16-94</sub>

Pb ID: LC SL-N7R3948 Seq. No.: 00089 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 18  
Replicate 1 Time: 22:57  
Peak Area (A-s): 0.055 Peak Height (A): 0.170  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.053  
Concentration (ug/L ): 23.27

uL dispensed: 4 from 0, 4 from 39, 20 from 18  
Replicate 2 (Peak Stored) Time: 23:00  
Peak Area (A-s): 0.054 Peak Height (A): 0.164  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 22.56

Mean Conc (ug/L ): 22.92 SD: 0.499 RSD(%): 2.18

Pb ID: LC SL-N7R3948 Seq. No.: 00091 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 18  
Replicate 1 Time: 23:04  
Peak Area (A-s): 0.048 Peak Height (A): 0.145  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L ): 20.01

uL dispensed: 4 from 0, 4 from 39, 20 from 18  
Replicate 2 (Peak Stored) Time: 23:07  
Peak Area (A-s): 0.047 Peak Height (A): 0.146  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L ): 19.67

Mean Conc (ug/L ): 19.84 Q SD: 0.235 RSD(%): 1.19

Pb ID: LC SL-N7R3948 Seq. No.: 00092 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 18  
Replicate 1 Time: 23:10  
Peak Area (A-s): 0.094 Peak Height (A): 0.285  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.092  
Concentration (ug/L ): 40.38

uL dispensed: 4 from 39, 4 from 40, 20 from 18  
Replicate 2 (Peak Stored) Time: 23:13  
Peak Area (A-s): 0.094 Peak Height (A): 0.290  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.063  
Blank Corrected Pk Area (A-s): 0.091  
Concentration (ug/L ): 40.28

Mean Conc (ug/L ): 40.33 SD: 0.075 RSD(%): 0.18

*SB 3-16-94  
Refill with  
fresh LCSS  
+  
2 runs  
↓*

Recovery is 102.5%

Pb ID: 7SM-JM4369 MTXS Seq. No.: 00093 A/S Pos.: 19 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 19

Replicate 1 Time: 23:16  
Peak Area (A-s): 0.012 Peak Height (A): 0.030  
Background Pk Area (A-s): 0.243 Background Pk Height (A): 0.341  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 4.07

uL dispensed: 4 from 0, 4 from 39, 20 from 19

Replicate 2 (Peak Stored) Time: 23:19  
Peak Area (A-s): 0.052 Peak Height (A): 0.109  
Background Pk Area (A-s): 0.252 Background Pk Height (A): 0.299  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 21.71

Mean Conc (ug/L ): 12.89 SD: 12.478 RSD(%): 96.80

*SB 3-16-94  
Automatic  
Rerun*

Pb ID: 7SM-JM4369 MTXS Seq. No.: 00094 A/S Pos.: 19 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 19

Replicate 1 Time: 23:22  
Peak Area (A-s): 0.041 Peak Height (A): 0.099  
Background Pk Area (A-s): 0.254 Background Pk Height (A): 0.312  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 16.91

uL dispensed: 4 from 0, 4 from 39, 20 from 19

Replicate 2 (Peak Stored) Time: 23:26  
Peak Area (A-s): 0.051 Peak Height (A): 0.129  
Background Pk Area (A-s): 0.251 Background Pk Height (A): 0.302  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 21.48

Mean Conc (ug/L ): 19.19 SD: 3.235 RSD(%): 16.85

*Rerun 5x  
due to  
matrix*

Pb ID: 7SD-JM4369 MTXR Seq. No.: 00095 A/S Pos.: 20 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 20

Replicate 1 Time: 23:29  
Peak Area (A-s): 0.042 Peak Height (A): 0.105  
Background Pk Area (A-s): 0.245 Background Pk Height (A): 0.301  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 17.55

uL dispensed: 4 from 0, 4 from 39, 20 from 20

Replicate 2 (Peak Stored) Time: 23:32  
Peak Area (A-s): 0.043 Peak Height (A): 0.100  
Background Pk Area (A-s): 0.253 Background Pk Height (A): 0.301  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 18.02

Mean Conc (ug/L ): 17.79 SD: 0.334 RSD(%): 1.88

0221

Pb ID: CCV-0790 Seq. No.: 00096 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 1 Time: 23:35  
Peak Area (A-s): 0.051 Peak Height (A): 0.154  
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.044  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 21.36

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 2 (Peak Stored) Time: 23:38  
Peak Area (A-s): 0.049 Peak Height (A): 0.134  
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 20.67

Mean Conc (ug/L ): 21.02 SD: 0.485 RSD(%): 2.31

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00097 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1 Time: 23:41  
Peak Area (A-s): 0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.16

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 23:44  
Peak Area (A-s): -0.001 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.54

Mean Conc (ug/L ): -1.35 SD: 0.274 RSD(%): 20.29

QC sample is within range

Pb ID: 7XX-JM4369 S11D Seq. No.: 00098 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 21

Replicate 1 Time: 23:47  
Peak Area (A-s): 0.022 Peak Height (A): 0.042  
Background Pk Area (A-s): 0.295 Background Pk Height (A): 0.352  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 8.30

uL dispensed: 4 from 0, 4 from 39, 20 from 21

Replicate 2 (Peak Stored) Time: 23:50  
Peak Area (A-s): 0.033 Peak Height (A): 0.077  
Background Pk Area (A-s): 0.248 Background Pk Height (A): 0.307  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 13.53

SB 3-16-94  
Per run 5x  
due to tri

0222

SB 3-10-94  
Automatic  
Retrun

Mean Conc (ug/L ): 10.92 SD: 3.695 RSD(%) 33.84

Pb ID: 7XX-JM4369 S11D Seq. No.: 00099 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 4 from 0, 4 from 39, 20 from 21  
Replicate 1 Time: 23:54  
Peak Area (A-s): 0.038 Peak Height (A): 0.085  
Background Pk Area (A-s): 0.240 Background Pk Height (A): 0.332  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 15.54

uL dispensed: 4 from 0, 4 from 39, 20 from 21  
Replicate 2 (Peak Stored) Time: 23:57  
Peak Area (A-s): 0.044 Peak Height (A): 0.106  
Background Pk Area (A-s): 0.238 Background Pk Height (A): 0.319  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 18.06

Mean Conc (ug/L ): 16.80 SD: 1.782 RSD(%) 10.61

Pb ID: 7XX-JM4369 S11D Seq. No.: 00100 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 4 from 39, 4 from 40, 20 from 21  
Replicate 1 Time: 00:00  
Peak Area (A-s): 0.052 Peak Height (A): 0.121  
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.283  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 21.78

uL dispensed: 4 from 39, 4 from 40, 20 from 21  
Replicate 2 (Peak Stored) Time: 00:03  
Peak Area (A-s): 0.039 Peak Height (A): 0.095  
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.282  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 16.10

Mean Conc (ug/L ): 18.94 SD: 4.017 RSD(%) 21.21

Recovery is 10.7% (outside of specified limits)

Pb ID: CCV-0790 Seq. No.: 00101 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Pb ID: 7SM-JM4369 MTXS Seq. No.: 00102 A/S Pos.: 19 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 19

Pb ID: 7SM-JM4369 MTXS Seq. No.: 00103 A/S Pos.: 19 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 19  
Replicate 1 Time: 00:10  
Peak Area (A-s): 0.042 Peak Height (A): 0.087  
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.193  
Blank Corrected Pk Area (A-s): 0.028

SB 3-10-94  
Autosampler  
Failed

0223

SB 3-16-94  
LTCU 5x  
do

uL dispensed: 4 from 0, 4 from 39, 20 from 19  
 Replicate 2 (Peak Stored) Time: 00:13  
 Peak Area (A-s): 0.041 Peak Height (A): 0.085  
 Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.179  
 Blank Corrected Pk Area (A-s): 0.038  
 Concentration (ug/L ): 16.78 Corrected Conc (ug/L ): 83.9  
 Mean Conc (ug/L ): 17.03<sub>Q</sub> SD: 0.352 RSD(%): 2.07  
 Corrected Conc (ug/L ): 85.2

Pb ID: 7SD-JM4369 MTRX Seq. No.: 00104 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 20  
 Replicate 1 Time: 00:17  
 Peak Area (A-s): 0.042 Peak Height (A): 0.086  
 Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.202  
 Blank Corrected Pk Area (A-s): 0.039  
 Concentration (ug/L ): 17.28 Corrected Conc (ug/L ): 86.4

uL dispensed: 4 from 0, 4 from 39, 20 from 20  
 Replicate 2 (Peak Stored) Time: 00:20  
 Peak Area (A-s): 0.041 Peak Height (A): 0.090  
 Background Pk Area (A-s): 0.179 Background Pk Height (A): 0.215  
 Blank Corrected Pk Area (A-s): 0.038  
 Concentration (ug/L ): 16.79 Corrected Conc (ug/L ): 84.0  
 Mean Conc (ug/L ): 17.03<sub>Q</sub> SD: 0.344 RSD(%): 2.02  
 Corrected Conc (ug/L ): 85.2

Pb ID: 7XX-JM4369 S11D Seq. No.: 00105 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 21  
 Replicate 1 Time: 00:23  
 Peak Area (A-s): 0.033 Peak Height (A): 0.121  
 Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.357  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 13.20 Corrected Conc (ug/L ): 66.0

uL dispensed: 4 from 0, 4 from 39, 20 from 21  
 Replicate 2 (Peak Stored) Time: 00:26  
 Peak Area (A-s): 0.031 Peak Height (A): 0.124  
 Background Pk Area (A-s): 0.179 Background Pk Height (A): 0.370  
 Blank Corrected Pk Area (A-s): 0.029  
 Concentration (ug/L ): 12.72 Corrected Conc (ug/L ): 63.6  
 Mean Conc (ug/L ): 12.96<sub>Q</sub> SD: 0.344 RSD(%): 2.66  
 Corrected Conc (ug/L ): 64.8

Pb ID: 7XX-JM4369 S11D Seq. No.: 00106 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 21  
 Replicate 1 Time: 00:29  
 Peak Area (A-s): 0.083 Peak Height (A): 0.306  
 Background Pk Area (A-s): 0.158 Background Pk Height (A): 0.380  
 Blank Corrected Pk Area (A-s): 0.081  
 Concentration (ug/L ): 35.69 Corrected Conc (ug/L ): 178.4

uL dispensed: 4 from 39, 4 from 40, 20 from 21  
 Replicate 2 (Peak Stored) Time: 00:32  
 Peak Area (A-s): 0.078 Peak Height (A): 0.234  
 Background Pk Area (A-s): 0.161 Background Pk Height (A): 0.300  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 33.13 Corrected Conc (ug/L ): 165.6

Mean Conc (ug/L ): 34.41 SD: 1.811 RSD(%): 5.26  
 Corrected Conc (ug/L ): 172.0

Recovery is 107.2%

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 Pb ID: 7XX-JM4369 DUP Seq. No.: 00107 A/S Pos.: 22 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 22  
 Replicate 1 Time: 00:36  
 Peak Area (A-s): 0.033 Peak Height (A): 0.136  
 Background Pk Area (A-s): 0.188 Background Pk Height (A): 0.377  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 13.40 Corrected Conc (ug/L ): 67.0

uL dispensed: 4 from 0, 4 from 39, 20 from 22  
 Replicate 2 (Peak Stored) Time: 00:39  
 Peak Area (A-s): 0.029 Peak Height (A): 0.070  
 Background Pk Area (A-s): 0.181 Background Pk Height (A): 0.223  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 11.83 Corrected Conc (ug/L ): 59.2

Mean Conc (ug/L ): 12.62 Q SD: 1.107 RSD(%): 8.77  
 Corrected Conc (ug/L ): 63.1

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 Pb ID: 7XX-JM4369 DUP Seq. No.: 00108 A/S Pos.: 22 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 22  
 Replicate 1 Time: 00:42  
 Peak Area (A-s): 0.078 Peak Height (A): 0.216  
 Background Pk Area (A-s): 0.154 Background Pk Height (A): 0.257  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 33.29 Corrected Conc (ug/L ): 166.4

uL dispensed: 4 from 39, 4 from 40, 20 from 22  
 Replicate 2 (Peak Stored) Time: 00:45  
 Peak Area (A-s): 0.078 Peak Height (A): 0.227  
 Background Pk Area (A-s): 0.152 Background Pk Height (A): 0.270  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 33.26 Corrected Conc (ug/L ): 166.3

Mean Conc (ug/L ): 33.27 SD: 0.022 RSD(%): 0.07  
 Corrected Conc (ug/L ): 166.4

Recovery is 103.3%

~~~~~  
 Pb ID: CCV-0790 Seq. No.: 00109 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Peak Area (A-s): 0.050  
Background Pk Area (A-s): 0.032  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 21.03

Peak Height (A): 0.135  
Background Pk Height (A): 0.037

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 00:51

Peak Area (A-s): 0.053

Peak Height (A): 0.143

Background Pk Area (A-s): 0.030

Background Pk Height (A): 0.038

Blank Corrected Pk Area (A-s): 0.050

Concentration (ug/L ): 22.23

Mean Conc (ug/L ): 21.63 SD: 0.846 RSD(%): 3.91

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00110 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1

Time: 00:54

Peak Area (A-s): 0.000

Peak Height (A): 0.007

Background Pk Area (A-s): 0.007

Background Pk Height (A): 0.006

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -1.10

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 00:57

Peak Area (A-s): 0.001

Peak Height (A): 0.006

Background Pk Area (A-s): 0.005

Background Pk Height (A): 0.006

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -0.94

Mean Conc (ug/L ): -1.02 SD: 0.109 RSD(%): 10.72

QC sample is within range

Pb ID: 7XX-JM4363 SS43 Seq. No.: 00111 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 23

Replicate 1

Time: 01:01

Peak Area (A-s): 0.004

Peak Height (A): 0.010

Background Pk Area (A-s): 0.217

Background Pk Height (A): 0.297

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.39

uL dispensed: 4 from 0, 4 from 39, 20 from 23

Replicate 2 (Peak Stored)

Time: 01:04

Peak Area (A-s): 0.006

Peak Height (A): 0.016

Background Pk Area (A-s): 0.217

Background Pk Height (A): 0.283

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 1.26

Mean Conc (ug/L ): 0.83 SD: 0.616 RSD(%): 74.65

Pb ID: 7XX-JM4363 SS43 Seq. No.: 00112 A/S Pos.: 23 Date: 03/17/94

SB 3-16-94  
Karen 5x  
due to  
matrix  
↓



uL dispensed: 4 from 39, 4 from 40, 20 from 23  
 Replicate 1 Time: 01:07  
 Peak Area (A-s): 0.013 Peak Height (A): 0.038  
 Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.257  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 4.38

uL dispensed: 4 from 39, 4 from 40, 20 from 23  
 Replicate 2 (Peak Stored) Time: 01:10  
 Peak Area (A-s): 0.012 Peak Height (A): 0.034  
 Background Pk Area (A-s): 0.189 Background Pk Height (A): 0.262  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 4.03

Mean Conc (ug/L ): 4.20 SD: 0.247 RSD(%): 5.87

Recovery is 16.9% (outside of specified limits)

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 Pb ID: 7XX-JM4363 SS43 Seq. No.: 00113 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 23  
 Replicate 1 Time: 01:14  
 Peak Area (A-s): 0.006 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.162 Background Pk Height (A): 0.165  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.46 Corrected Conc (ug/L ): 7.3

uL dispensed: 4 from 0, 4 from 39, 20 from 23  
 Replicate 2 (Peak Stored) Time: 01:17  
 Peak Area (A-s): 0.006 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.156 Background Pk Height (A): 0.174  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.61 Corrected Conc (ug/L ): 8.0

Mean Conc (ug/L ): 1.54 SD: 0.103 RSD(%): 6.73  
 Corrected Conc (ug/L ): 7.7

-----  
 Pb ID: 7XX-JM4363 SS43 Seq. No.: 00114 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 23  
 Replicate 1 Time: 01:20  
 Peak Area (A-s): 0.055 Peak Height (A): 0.164  
 Background Pk Area (A-s): 0.143 Background Pk Height (A): 0.212  
 Blank Corrected Pk Area (A-s): 0.052  
 Concentration (ug/L ): 22.94 Corrected Conc (ug/L ): 114.7

uL dispensed: 4 from 39, 4 from 40, 20 from 23  
 Replicate 2 (Peak Stored) Time: 01:23  
 Peak Area (A-s): 0.056 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.143 Background Pk Height (A): 0.193  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 23.45 Corrected Conc (ug/L ): 117.3

Mean Conc (ug/L ): 23.20 SD: 0.358 RSD(%): 1.54  
 Corrected Conc (ug/L ): 116.0

Recovery is 108.3%

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00115 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 1 Time: 01:26  
Peak Area (A-s): 0.008 Peak Height (A): 0.028  
Background Pk Area (A-s): 0.224 Background Pk Height (A): 0.313  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 2.44

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 2 (Peak Stored) Time: 01:30  
Peak Area (A-s): 0.023 Peak Height (A): 0.049  
Background Pk Area (A-s): 0.214 Background Pk Height (A): 0.274  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 8.82

Mean Conc (ug/L ): 5.63 SD: 4.510 RSD(%) 80.12

*SB 3-16-94  
Automatic  
Re-run*

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00116 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 1 Time: 01:33  
Peak Area (A-s): 0.018 Peak Height (A): 0.045  
Background Pk Area (A-s): 0.219 Background Pk Height (A): 0.282  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 6.97

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 2 (Peak Stored) Time: 01:36  
Peak Area (A-s): 0.022 Peak Height (A): 0.049  
Background Pk Area (A-s): 0.219 Background Pk Height (A): 0.275  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 8.57

Mean Conc (ug/L ): 7.77 SD: 1.134 RSD(%) 14.60

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00117 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 24

*NO INJECTION SB 3-16-94*

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00118 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 1 Time: 01:40  
Peak Area (A-s): -0.000 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.28

*NO SAMPLE in position  
SB 3-16-94*

uL dispensed: 4 from 0, 4 from 39, 20 from 24

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00119 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 1 Time: 01:46

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SB 3-16-94  
Re-run 5x  
due to matrix  
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Background Pk Area (A-s): 0.200      Background Pk Height (A): 0.223  
Blank Corrected Pk Area (A-s): 0.046  
Concentration (ug/L ): 20.30

uL dispensed: 4 from 0, 4 from 39, 20 from 24  
Replicate 2 (Peak Stored)      Time: 01:49  
Peak Area (A-s): 0.055      Peak Height (A): 0.190  
Background Pk Area (A-s): 0.204      Background Pk Height (A): 0.244  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 23.01

Mean Conc (ug/L ):      21.66      SD: 1.913      RSD(%): 8.83

contaminated - reload sample  
↓

Pb ID: 7XX-JM4364 SS44      Seq. No.: 00120      A/S Pos.: 24      Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 24  
Replicate 1      Time: 01:53  
Peak Area (A-s): 0.011      Peak Height (A): 0.041  
Background Pk Area (A-s): 0.173      Background Pk Height (A): 0.251  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 3.48

uL dispensed: 4 from 39, 4 from 40, 20 from 24  
Replicate 2 (Peak Stored)      Time: 01:56  
Peak Area (A-s): 0.010      Peak Height (A): 0.045  
Background Pk Area (A-s): 0.171      Background Pk Height (A): 0.254  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 3.04

Mean Conc (ug/L ):      3.26      SD: 0.312      RSD(%): 9.59

Recovery is -92.0% (outside of specified limits)

Pb ID: 7XX-JM4365 SS45      Seq. No.: 00121      A/S Pos.: 25      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 25

Pb ID: CCV-0790      Seq. No.: 00122      A/S Pos.: 38      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 1      Time: 01:59  
Peak Area (A-s): 0.053      Peak Height (A): 0.140  
Background Pk Area (A-s): 0.031      Background Pk Height (A): 0.040  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 22.08

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored)      Time: 02:03  
Peak Area (A-s): 0.051      Peak Height (A): 0.128  
Background Pk Area (A-s): 0.028      Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 21.18

Mean Conc (ug/L ):      21.63      SD: 0.640      RSD(%): 2.96

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00123 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0
Replicate 1 Time: 02:06
Peak Area (A-s): -0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L ): -1.41

uL dispensed: 4 from 0, 4 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 02:09
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L ): -0.80

Mean Conc (ug/L ): -1.11 SD: 0.429 RSD(%): 38.79

QC sample is within range

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00124 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24
Replicate 1 Time: 02:12
Peak Area (A-s): 0.101 Peak Height (A): 0.192
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L ): 43.50 Corrected Conc (ug/L ): 217.5

SB 3-16-94

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00125 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 24
Replicate 1 Time: 02:17
Peak Area (A-s): 0.011 Peak Height (A): 0.039
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L ): 3.66 Corrected Conc (ug/L ): 36.6

W

uL dispensed: 4 from 0, 4 from 39, 20 from 24
Replicate 2 (Peak Stored) Time: 02:20
Peak Area (A-s): 0.009 Peak Height (A): 0.046
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L ): 2.99 Corrected Conc (ug/L ): 29.9

Mean Conc (ug/L ): 3.32 SD: 0.481 RSD(%): 14.45
Corrected Conc (ug/L ): 33.2

Pb ID: 7XX-JM4364 SS44 Seq. No.: 00126 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 24
Replicate 1 Time: 02:24
Peak Area (A-s): 0.063 Peak Height (A): 0.244
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.061

Concentration (ug/L ): 26.82                      Corrected Conc (ug/L ): 268.2

uL dispensed: 4 from 39, 4 from 40, 20 from 24

Replicate 2 (Peak Stored)                      Time: 02:27

Peak Area (A-s): 0.065                      Peak Height (A): 0.272

Background Pk Area (A-s): 0.073                      Background Pk Height (A): 0.196

Blank Corrected Pk Area (A-s): 0.063

Concentration (ug/L ): 27.72                      Corrected Conc (ug/L ): 277.2

Mean Conc (ug/L ):                      27.27                      SD: 0.639                      RSD(%): 2.34

Corrected Conc (ug/L ): 272.7

Recovery is 119.7% (outside of specified limits)

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Pb ID: 7XX-JM4365 SS45      Seq. No.: 00127      A/S Pos.: 25      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 25

Replicate 1                      Time: 02:30

Peak Area (A-s): 0.002                      Peak Height (A): 0.008

Background Pk Area (A-s): 0.227                      Background Pk Height (A): 0.351

Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L ): -0.24

uL dispensed: 4 from 0, 4 from 39, 20 from 25

Replicate 2 (Peak Stored)                      Time: 02:33

Peak Area (A-s): 0.001                      Peak Height (A): 0.007

Background Pk Area (A-s): 0.234                      Background Pk Height (A): 0.350

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.58

Mean Conc (ug/L ):                      -0.41                      SD: 0.240                      RSD(%): 58.74

*SB 3-1694  
Rerun 5x  
for matrix  
↓*

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Pb ID: 7XX-JM4365 SS45      Seq. No.: 00128      A/S Pos.: 25      Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 25

Replicate 1                      Time: 02:36

Peak Area (A-s): 0.014                      Peak Height (A): 0.036

Background Pk Area (A-s): 0.192                      Background Pk Height (A): 0.255

Blank Corrected Pk Area (A-s): 0.012

Concentration (ug/L ): 5.08

uL dispensed: 4 from 39, 4 from 40, 20 from 25

Replicate 2 (Peak Stored)                      Time: 02:39

Peak Area (A-s): 0.009                      Peak Height (A): 0.021

Background Pk Area (A-s): 0.201                      Background Pk Height (A): 0.291

Blank Corrected Pk Area (A-s): 0.006

Concentration (ug/L ): 2.58

Mean Conc (ug/L ):                      3.83                      SD: 1.770                      RSD(%): 46.23

Recovery is 21.2% (outside of specified limits)

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Pb ID: 7XX-JM4365 SS45      Seq. No.: 00129      A/S Pos.: 25      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 25

Peak Area (A-s): 0.006 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.121  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.32 Corrected Conc (ug/L ): 6.6

uL dispensed: 4 from 0, 4 from 39, 20 from 25  
 Replicate 2 (Peak Stored) Time: 02:47  
 Peak Area (A-s): 0.005 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.150 Background Pk Height (A): 0.146  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.80 Corrected Conc (ug/L ): 4.0

Mean Conc (ug/L ): 1.06<sup>Q</sup> SD: 0.367 RSD(%): 34.75  
 Corrected Conc (ug/L ): 5.3

~~~~~  
 Pb ID: 7XX-JM4365 SS45 Seq. No.: 00130 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 25  
 Replicate 1 Time: 02:50  
 Peak Area (A-s): 0.056 Peak Height (A): 0.151  
 Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.184  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 23.38 Corrected Conc (ug/L ): 116.9

uL dispensed: 4 from 39, 4 from 40, 20 from 25  
 Replicate 2 (Peak Stored) Time: 02:53  
 Peak Area (A-s): 0.053 Peak Height (A): 0.173  
 Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.215  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 22.09 Corrected Conc (ug/L ): 110.4

Mean Conc (ug/L ): 22.73 SD: 0.910 RSD(%): 4.00  
 Corrected Conc (ug/L ): 113.7

Recovery is 108.4%

~~~~~  
 Pb ID: 7XX-JM4366 SS46 Seq. No.: 00131 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 26  
 Replicate 1 Time: 02:56  
 Peak Area (A-s): 0.001 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.226 Background Pk Height (A): 0.357  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.60

uL dispensed: 4 from 0, 4 from 39, 20 from 26  
 Replicate 2 (Peak Stored) Time: 02:59  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.221 Background Pk Height (A): 0.308  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.55

Mean Conc (ug/L ): -0.03 SD: 0.812 RSD(%): 3132.41

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 Pb ID: 7XX-JM4366 SS46 Seq. No.: 00132 A/S Pos.: 26 Date: 03/17/94

*SB 3-16-94  
 Re-run 5x  
 due to  
 matrix  
 ↓*

uL dispensed: 4 from 39, 4 from 40, 20 from 26  
 Replicate 1 Time: 03:02  
 Peak Area (A-s): 0.007 Peak Height (A): 0.021  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.292  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.71

uL dispensed: 4 from 39, 4 from 40, 20 from 26  
 Replicate 2 (Peak Stored) Time: 03:05  
 Peak Area (A-s): 0.007 Peak Height (A): 0.021  
 Background Pk Area (A-s): 0.202 Background Pk Height (A): 0.308  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.71

Mean Conc (ug/L ): 1.71 SD: 0.001 RSD(%): 0.03

Recovery is 8.7% (outside of specified limits)

~~~~~  
 Pb ID: CCV-0790 Seq. No.: 00133 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 03:09  
 Peak Area (A-s): 0.053 Peak Height (A): 0.128  
 Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 22.08

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 03:12  
 Peak Area (A-s): 0.052 Peak Height (A): 0.126  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 21.64

Mean Conc (ug/L ): 21.86 SD: 0.311 RSD(%): 1.42

QC sample is within range 19.1 - 23.3

~~~~~  
 Pb ID: CCB Seq. No.: 00134 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1 Time: 03:15  
 Peak Area (A-s): 0.000 Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.09

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored) Time: 03:18  
 Peak Area (A-s): -0.001 Peak Height (A): 0.004  
 Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.50

Mean Conc (ug/L ): -1.30 SD: 0.294 RSD(%): 22.68

QC sample is within range

Pb ID: 7XX-JM4366 SS46 Seq. No.: 00135 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 26  
 Replicate 1 Time: 03:21  
 Peak Area (A-s): 0.003 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.231 Background Pk Height (A): 0.352  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): 0.05 Corrected Conc (ug/L ): 0.2

uL dispensed: 4 from 0, 4 from 39, 20 from 26  
 Replicate 2 (Peak Stored) Time: 03:24  
 Peak Area (A-s): 0.003 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.225 Background Pk Height (A): 0.353  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.02 Corrected Conc (ug/L ): -0.1

Mean Conc (ug/L ): 0.01<sup>Q</sup> SD: 0.049 RSD(%): 470.99  
 Corrected Conc (ug/L ): 0.1

Pb ID: 7XX-JM4366 SS46 Seq. No.: 00136 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 26  
 Replicate 1 Time: 03:27  
 Peak Area (A-s): 0.006 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.306  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.58 Corrected Conc (ug/L ): 7.9

uL dispensed: 4 from 39, 4 from 40, 20 from 26  
 Replicate 2 (Peak Stored) Time: 03:30  
 Peak Area (A-s): 0.006 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.196 Background Pk Height (A): 0.317  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.51 Corrected Conc (ug/L ): 7.6

Mean Conc (ug/L ): 1.54 SD: 0.049 RSD(%): 3.14  
 Corrected Conc (ug/L ): 7.7

Recovery is 7.7% (outside of specified limits)

Pb ID: 7XX-JM4367 DS10 Seq. No.: 00137 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 27

NO INSPECTION 58 3-11-94

Pb ID: 7XX-JM4367 DS10 Seq. No.: 00138 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
 Replicate 1 Time: 03:36  
 Peak Area (A-s): 0.019 Peak Height (A): 0.031  
 Background Pk Area (A-s): 0.801 Background Pk Height (A): 0.896  
 Blank Corrected Pk Area (A-s): 0.017  
 Concentration (ug/L ): 7.32

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
 Replicate 2 (Peak Stored) Time: 03:39  
 Peak Area (A-s): 0.003 Peak Height (A): 0.014



Background Pk Area (A-s): 0.243 Background Pk Height (A): 0.380  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.23

Mean Conc (ug/L ): 3.78 SD: 5.013 RSD(%): 132.67

*Automate  
Recon  
SB  
3-16-94*

Pb ID: 7XX-JM4367 DS10 Seq. No.: 00139 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
Replicate 1 Time: 03:42  
Peak Area (A-s): 0.007 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.232 Background Pk Height (A): 0.327  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.87

*SB 3-16-94  
Recon 5x  
due to  
matrix  
↓*

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
Replicate 2 (Peak Stored) Time: 03:45  
Peak Area (A-s): 0.004 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.236 Background Pk Height (A): 0.369  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.47

Mean Conc (ug/L ): 1.17 SD: 0.989 RSD(%): 84.42

Pb ID: 7XX-JM4367 DS10 Seq. No.: 00140 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 27  
Replicate 1 Time: 03:48  
Peak Area (A-s): 0.015 Peak Height (A): 0.045  
Background Pk Area (A-s): 0.210 Background Pk Height (A): 0.277  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 5.61

uL dispensed: 4 from 39, 4 from 40, 20 from 27  
Replicate 2 (Peak Stored) Time: 03:51  
Peak Area (A-s): 0.008 Peak Height (A): 0.023  
Background Pk Area (A-s): 0.205 Background Pk Height (A): 0.308  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 2.41

Mean Conc (ug/L ): 4.01 SD: 2.264 RSD(%): 56.45

Recovery is 14.2% (outside of specified limits)

Pb ID: 7XX-JM4367 DS10 Seq. No.: 00141 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
Replicate 1 Time: 03:54  
Peak Area (A-s): 0.021 Peak Height (A): 0.040  
Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.148  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 8.08 Corrected Conc (ug/L ): 40.4

uL dispensed: 4 from 0, 4 from 39, 20 from 27  
Replicate 2 (Peak Stored) Time: 03:57  
Peak Area (A-s): 0.019 Peak Height (A): 0.036

Background Pk Area (A-s): 0.167      Background Pk Height (A): 0.143  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 7.30      Corrected Conc (ug/L ): 36.5  
Mean Conc (ug/L ): 7.69 Q      SD: 0.554      RSD(%): 7.20  
Corrected Conc (ug/L ): 38.5

~~~~~  
Pb ID: 7XX-JM4367 DS10      Seq. No.: 00142      A/S Pos.: 27      Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 27  
Replicate 1      Time: 04:00  
Peak Area (A-s): 0.068      Peak Height (A): 0.174  
Background Pk Area (A-s): 0.145      Background Pk Height (A): 0.182  
Blank Corrected Pk Area (A-s): 0.066  
Concentration (ug/L ): 28.99      Corrected Conc (ug/L ): 144.96

uL dispensed: 4 from 39, 4 from 40, 20 from 27  
Replicate 2 (Peak Stored)      Time: 04:04  
Peak Area (A-s): 0.078      Peak Height (A): 0.264  
Background Pk Area (A-s): 0.157      Background Pk Height (A): 0.382  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 33.07      Corrected Conc (ug/L ): 165.4

Mean Conc (ug/L ): 31.03      SD: 2.886      RSD(%): 9.30  
Corrected Conc (ug/L ): 155.2

Recovery is 116.7% (outside of specified limits)

~~~~~  
Pb ID: 7XX-JM4368 DS11      Seq. No.: 00143      A/S Pos.: 28      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28  
Replicate 1      Time: 04:07  
Peak Area (A-s): 0.043      Peak Height (A): 0.199  
Background Pk Area (A-s): 0.237      Background Pk Height (A): 0.387  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 17.68

uL dispensed: 4 from 0, 4 from 39, 20 from 28  
Replicate 2 (Peak Stored)      Time: 04:10  
Peak Area (A-s): -0.032      Peak Height (A): 0.179  
Background Pk Area (A-s): 0.218      Background Pk Height (A): 0.388  
Blank Corrected Pk Area (A-s): -0.035  
Concentration (ug/L ): -15.54

Mean Conc (ug/L ): 1.07      SD: 23.490      RSD(%): 2197.19

~~~~~  
Pb ID: 7XX-JM4368 DS11      Seq. No.: 00144      A/S Pos.: 28      Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 28  
Replicate 1      Time: 04:13  
Peak Area (A-s): 0.022      Peak Height (A): 0.212  
Background Pk Area (A-s): 0.195      Background Pk Height (A): 0.346  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 8.71

uL dispensed: 4 from 39, 4 from 40, 20 from 28

Replicate 2 (Peak Stored) Time: 04:16  
 Peak Area (A-s): 0.034 Peak Height (A): 0.223  
 Background Pk Area (A-s): 0.197 Background Pk Height (A): 0.330  
 Blank Corrected Pk Area (A-s): 0.032  
 Concentration (ug/L ): 13.90

Mean Conc (ug/L ): 11.30 SD: 3.672 RSD(%): 32.49

Recovery is 51.2% (outside of specified limits)

*Automatic  
 Re-run  
 SB 3-16-94*

Pb ID: CCV-0790 Seq. No.: 00145 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 04:19  
 Peak Area (A-s): 0.059 Peak Height (A): 0.144  
 Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 24.79

uL dispensed: 4 from 0, 4 from 39, 20 from 38 *BAKED TUBE SB 3-16-94*

Pb ID: CCV-0790 Seq. No.: 00146 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 04:25  
 Peak Area (A-s): 0.041 Peak Height (A): 0.123  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.039  
 Concentration (ug/L ): 17.03

uL dispensed: 4 from 0, 4 from 39, 20 from 38 *Replaced CCV w/ fresh SB 3-16-94*

Pb ID: CCV-0790 Seq. No.: 00147 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 04:28  
 Peak Area (A-s): -0.001 Peak Height (A): 0.003  
 Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.003  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.58 *Sample out of position SB 3-16-94*

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 04:31  
 Peak Area (A-s): 0.052 Peak Height (A): 0.152  
 Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.042  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 21.75

Mean Conc (ug/L ): 10.09 SD: 16.497 RSD(%): 163.53

Pb ID: CCV-0790 Seq. No.: 00148 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 1 Time: 04:34  
 Peak Area (A-s): 0.052 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): 0.050

Concentration (ug/L ): 21.88

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 04:37

Peak Area (A-s): 0.054

Peak Height (A): 0.150

Background Pk Area (A-s): 0.030

Background Pk Height (A): 0.041

Blank Corrected Pk Area (A-s): 0.051

Concentration (ug/L ): 22.49

Mean Conc (ug/L ): 22.18

SD: 0.431

RSD(%): 1.94

QC sample is within range 19.1 - 23.3

Pb ID: CCB

Seq. No.: 00149

A/S Pos.: 0

Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1

Time: 04:40

Peak Area (A-s): 0.000

Peak Height (A): 0.003

Background Pk Area (A-s): 0.006

Background Pk Height (A): 0.006

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -1.08

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 04:43

Peak Area (A-s): -0.000

Peak Height (A): 0.003

Background Pk Area (A-s): 0.004

Background Pk Height (A): 0.005

Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -1.41

Mean Conc (ug/L ): -1.25

SD: 0.234

RSD(%): 18.73

QC sample is within range

Pb ID: 7XX-JM4368 DS11

Seq. No.: 00150

A/S Pos.: 28

Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 1

Time: 04:46

Peak Area (A-s): 0.046

Peak Height (A): 0.247

Background Pk Area (A-s): 0.205

Background Pk Height (A): 0.378

Blank Corrected Pk Area (A-s): 0.043

Concentration (ug/L ): 19.07

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 2 (Peak Stored)

Time: 04:49

Peak Area (A-s): 0.023

Peak Height (A): 0.238

Background Pk Area (A-s): 0.201

Background Pk Height (A): 0.375

Blank Corrected Pk Area (A-s): 0.020

Concentration (ug/L ): 8.85

Mean Conc (ug/L ): 13.96

SD: 7.227

RSD(%): 51.77

Pb ID: 7XX-JM4368 DS11

Seq. No.: 00151

A/S Pos.: 28

Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 1

Time: 04:52

Peak Area (A-s): 0.005

Peak Height (A): 0.263

0238

Background Pk Area (A-s): 0.201      Background Pk Height (A): 0.384  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 1.08

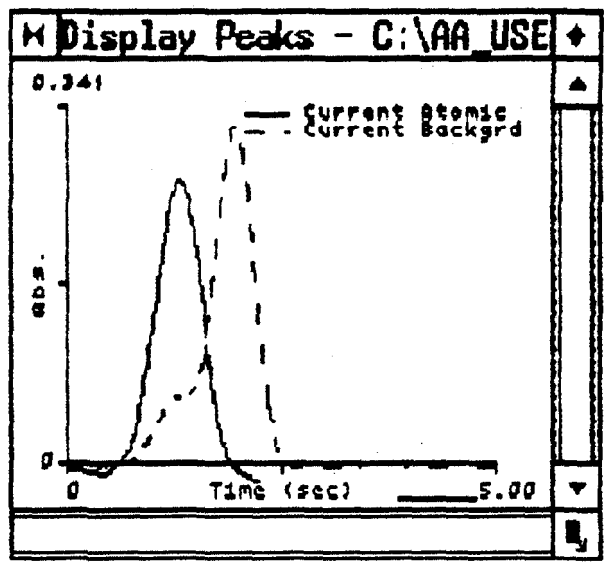
uL dispensed: 4 from 0, 4 from 39, 20 from 28  
Replicate 2 (Peak Stored)      Time: 04:55  
Peak Area (A-s): 0.022      Peak Height (A): 0.231  
Background Pk Area (A-s): 0.210      Background Pk Height (A): 0.378  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 8.64

Mean Conc (ug/L ):      4.86      SD: 5.345      RSD(%): 109.95

Pb ID: 7XX-JM4368 DS11      Seq. No.: 00152      A/S Pos.: 28      Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 28  
Replicate 1      Time: 04:58  
Peak Area (A-s): 0.069      Peak Height (A): 0.274  
Background Pk Area (A-s): 0.195      Background Pk Height (A): 0.341  
Blank Corrected Pk Area (A-s): 0.067  
Concentration (ug/L ): 29.34

uL dispensed: 4 from 39, 4 from 40, 20 from 28



*SB 3-16-94  
line dropping  
below 0 indicates  
high level of Pb  
Rerun 50x*

Replicate 2 (Peak Stored)      Time: 05:01  
Peak Area (A-s): 0.066      Peak Height (A): 0.291  
Background Pk Area (A-s): 0.195      Background Pk Height (A): 0.346  
Blank Corrected Pk Area (A-s): 0.063  
Concentration (ug/L ): 27.78

Mean Conc (ug/L ):      28.56      SD: 1.108      RSD(%): 3.88

Recovery is 118.5% (outside of specified limits)

Pb ID: CCV-0790      Seq. No.: 00153      A/S Pos.: 38      Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Time: 05:05

Peak Area (A-s): 0.061 Peak Height (A): 0.127  
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 25.95 *Carryover from high sample 3-16-94*

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 05:08  
Peak Area (A-s): 0.053 Peak Height (A): 0.118  
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 22.25

Mean Conc (ug/L ): 24.10 SD: 2.616 RSD(%): 10.86

QC sample is out of range 19.1 - 23.3

~~~~~  
Pb ID: CCV-0790 Seq. No.: 00155 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 1 Time: 05:11  
Peak Area (A-s): 0.054 Peak Height (A): 0.133  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 22.71

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 05:15  
Peak Area (A-s): 0.056 Peak Height (A): 0.122  
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): 0.054  
Concentration (ug/L ): 23.60

Mean Conc (ug/L ): 23.15 SD: 0.628 RSD(%): 2.71

QC sample is within range 19.1 - 23.3

~~~~~  
Pb ID: CCB Seq. No.: 00156 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
Replicate 1 Time: 05:18  
Peak Area (A-s): 0.001 Peak Height (A): 0.003  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -0.81

~~~~~  
Pb ID: 7XX-JM4368 DS11 Seq. No.: 00157 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28  
Sample abs. is greater than that of the largest standard.  
Replicate 1 Time: 05:22  
Peak Area (A-s): 0.323 Peak Height (A): 0.946  
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.377  
Blank Corrected Pk Area (A-s): 0.321  
Concentration (ug/L ): 141.83 Corrected Conc (ug/L ): 1418.3

*3-16-94*  
*Review*  
*CCB*  
*↓*

*NO INTERFERENCE  
5/8 3/16/94*

Pb ID: 7XX-JM4368 DS11 Seq. No.: 00158 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 19 from 0, 4 from 39, 5 from 28

Pb ID: CCB Seq. No.: 00159 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Pb ID: CCB Seq. No.: 00160 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 1 Time: 05:28  
Peak Area (A-s): 0.000 Peak Height (A): 0.005  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.13

uL dispensed: 4 from 0, 4 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 05:31  
Peak Area (A-s): 0.001 Peak Height (A): 0.004  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.69

Mean Conc (ug/L ): -0.91 SD: 0.310 RSD(%): 34.03

QC sample is within range

Pb ID: 7XX-JM4368 DS11 Seq. No.: 00161 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 1 Time: 05:34  
Peak Area (A-s): 0.051 Peak Height (A): 0.142  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 21.38 Corrected Conc (ug/L ): 2138.

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 2 (Peak Stored) Time: 05:37  
Peak Area (A-s): 0.041 Peak Height (A): 0.123  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.034  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 16.81 Corrected Conc (ug/L ): 1681.

Mean Conc (ug/L ): 19.10 SD: 3.230 RSD(%): 16.91  
Corrected Conc (ug/L ): 1910.

*Automatic  
Carry*

Pb ID: 7XX-JM4368 DS11 Seq. No.: 00162 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 28

Replicate 1 Time: 05:41  
Peak Area (A-s): 0.041 Peak Height (A): 0.120  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): 0.039  
Concentration (ug/L ): 17.07 Corrected Conc (ug/L ): 1707.

uL dispensed: 4 from 0, 4 from 39, 20 from 28  
 Replicate 2 (Peak Stored) Time: 05:44  
 Peak Area (A-s): 0.040 Peak Height (A): 0.115  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.038  
 Concentration (ug/L ): 16.52 Corrected Conc (ug/L ): 1652.  
 Mean Conc (ug/L ): 16.80 Q SD: 0.385 RSD(%): 2.29  
 Corrected Conc (ug/L ): 1680.

~~~~~  
 Pb ID: 7XX-JM4368 DS11 Seq. No.: 00163 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 28  
 Replicate 1 Time: 05:47  
 Peak Area (A-s): 0.089 Peak Height (A): 0.256  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.061  
 Blank Corrected Pk Area (A-s): 0.087  
 Concentration (ug/L ): 38.30 Corrected Conc (ug/L ): 3830.

uL dispensed: 4 from 39, 4 from 40, 20 from 28  
 Replicate 2 (Peak Stored) Time: 05:50  
 Peak Area (A-s): 0.090 Peak Height (A): 0.253  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.062  
 Blank Corrected Pk Area (A-s): 0.087  
 Concentration (ug/L ): 38.52 Corrected Conc (ug/L ): 3852.

Mean Conc (ug/L ): 38.41 SD: 0.160 RSD(%): 0.42  
 Corrected Conc (ug/L ): 3841.

Recovery is 108.1%

~~~~~  
 Pb ID: TCLP BLK 3948 Seq. No.: 00164 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 29  
 Replicate 1 Time: 05:53  
 Peak Area (A-s): 0.003 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.190 Background Pk Height (A): 0.337  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.03

uL dispensed: 4 from 0, 4 from 39, 20 from 29  
 Replicate 2 (Peak Stored) Time: 05:56  
 Peak Area (A-s): 0.003 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.198 Background Pk Height (A): 0.344  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.18

Mean Conc (ug/L ): 0.07 SD: 0.149 RSD(%): 209.07

~~~~~  
 Pb ID: TCLP BLK 3948 Seq. No.: 00165 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 29  
 Replicate 1 Time: 05:59  
 Peak Area (A-s): 0.010 Peak Height (A): 0.017  
 Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.297  
 Blank Corrected Pk Area (A-s): 0.007

SB 3-16-94  
 Rerun 5x  
 due to  
 matrix  
 ↓



Concentration (ug/L ): 3.15

uL dispensed: 4 from 39, 4 from 40, 20 from 29

Replicate 2 (Peak Stored)

Time: 06:02

Peak Area (A-s): 0.011

Peak Height (A): 0.020

Background Pk Area (A-s): 0.177

Background Pk Height (A): 0.301

Blank Corrected Pk Area (A-s): 0.009

Concentration (ug/L ): 3.80

Mean Conc (ug/L ): 3.47

3.47

SD: 0.459

RSD(%): 13.23

Recovery is 17.0% (outside of specified limits)

Pb ID: TCLP BLK 3948 Seq. No.: 00166 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 29

Replicate 1

Time: 06:05

Peak Area (A-s): 0.005

Peak Height (A): 0.012

Background Pk Area (A-s): 0.118

Background Pk Height (A): 0.113

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 1.04

Corrected Conc (ug/L ): 5.2

uL dispensed: 4 from 0, 4 from 39, 20 from 29

Replicate 2 (Peak Stored)

Time: 06:08

Peak Area (A-s): 0.005

Peak Height (A): 0.018

Background Pk Area (A-s): 0.124

Background Pk Height (A): 0.262

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): 0.87

Corrected Conc (ug/L ): 4.4

Mean Conc (ug/L ): 0.96

0.96

SD: 0.120

RSD(%): 12.56

Corrected Conc (ug/L ): 4.8

Pb ID: TCLP BLK 3948 Seq. No.: 00167 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 4 from 39, 4 from 40, 20 from 29

Replicate 1

Time: 06:12

Peak Area (A-s): 0.054

Peak Height (A): 0.117

Background Pk Area (A-s): 0.110

Background Pk Height (A): 0.133

Blank Corrected Pk Area (A-s): 0.052

Concentration (ug/L ): 22.85

Corrected Conc (ug/L ): 114.3

uL dispensed: 4 from 39, 4 from 40, 20 from 29

Replicate 2 (Peak Stored)

Time: 06:15

Peak Area (A-s): 0.055

Peak Height (A): 0.123

Background Pk Area (A-s): 0.110

Background Pk Height (A): 0.138

Blank Corrected Pk Area (A-s): 0.052

Concentration (ug/L ): 22.96

Corrected Conc (ug/L ): 114.8

Mean Conc (ug/L ): 22.91

22.91

SD: 0.075

RSD(%): 0.33

Corrected Conc (ug/L ): 114.5

Recovery is 109.7%

Pb ID: CCV-0790 Seq. No.: 00168 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 38

Replicate 1  
 Peak Area (A-s): 0.051  
 Background Pk Area (A-s): 0.029  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.33

Time: 06:18  
 Peak Height (A): 0.127  
 Background Pk Height (A): 0.035

uL dispensed: 4 from 0, 4 from 39, 20 from 38  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.050  
 Background Pk Area (A-s): 0.029  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.12

Time: 06:21  
 Peak Height (A): 0.122  
 Background Pk Height (A): 0.032

Mean Conc (ug/L ): 21.22 SD: 0.143 RSD(%): 0.67

QC sample is within range 19.1 - 23.3

~~~~~  
 Pb ID: CCB Seq. No.: 00169 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 1  
 Peak Area (A-s): -0.000  
 Background Pk Area (A-s): 0.004  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.28

Time: 06:24  
 Peak Height (A): 0.004  
 Background Pk Height (A): 0.006

uL dispensed: 4 from 0, 4 from 39, 20 from 0  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.001  
 Background Pk Area (A-s): 0.004  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -0.79

Time: 06:27  
 Peak Height (A): 0.004  
 Background Pk Height (A): 0.005

Mean Conc (ug/L ): -1.04 SD: 0.346 RSD(%): 33.42

QC sample is within range

~~~~~  
 Pb ID: CRA-0792 Seq. No.: 00170 A/S Pos.: 36 Date: 03/17/94

uL dispensed: 4 from 0, 4 from 39, 20 from 36  
 Replicate 1  
 Peak Area (A-s): 0.010  
 Background Pk Area (A-s): 0.008  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): 3.29

Time: 06:30  
 Peak Height (A): 0.028  
 Background Pk Height (A): 0.009

uL dispensed: 4 from 0, 4 from 39, 20 from 36  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.010  
 Background Pk Area (A-s): 0.008  
 Blank Corrected Pk Area (A-s): 0.007  
 Concentration (ug/L ): 3.14

Time: 06:33  
 Peak Height (A): 0.025  
 Background Pk Height (A): 0.008

Mean Conc (ug/L ): 3.21 SD: 0.105 RSD(%): 3.27

QC sample is within range 2.25 - 3.75

Element File: SERLS.GEL

Element: Se

Analyst: RLS

Print Data: Main+Suppl.

Peak Storage: All

Print: Calib. Curve+Elem. Params.

-----

INSTRUMENT: 5100	Technique: HGA	Version: 7.10
Wavelength: 196.0 Peak	Slit: 0.70 Low	
Signal Type: Zeeman AA	Signal Measurement: Peak Area	
Read Time: 6.0	Read Delay: 0.0	BOC Time: 2
Sample Replicates: 2		
Standard Replicates: 2	Spike Replicates: Same as Sample	

-----

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier	
						#1	#2
Calib. Blank	CAL BLANK		0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples				25	15	5	

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	150	10	10	300		Norm
3	800	10	30	300		Norm
4	20	1	15	300		Norm
5	2300	0	5	0	*	Norm
6	2600	2	.5	300		Norm

Injection Temp: 20

Pipette Speed: 100%

SEQUENCE:

Step Action and Parameters

1 Pipet modifier 1 + diluent + spike + sample/std

2 Run HGA steps 1 to End

CHECKS:

Recalibration Type: Autozero Only

Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 10

Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:

5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L

Measure Recovery on Samples: 1-2,5-10,13-21

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

	A/S	QC Sample	Conc. Limits		After	Periodic	At	Count As
	Loc.	ID	Lower	Upper	Calib	Check	End	Sample
1	37	ICV-0794	35.2	43.0	X			
2	0	ICB			X			
3	38	CCV-0793	21.1	25.8		X	X	
4	0	CCB				X	X	
5	36	CRA-0795	3.81	6.35	X		X	

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

Matrix Check Calculations:

% Difference for Dupls: No

Locations: 1,2

% Recovery for Spike: No

Locations: 3,4

Conc: 20 ug/L

-----  
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0  
Date: 03/16/94      Time: 12:56      Slit: 0.70 L  
Data File: A031694.DAT      ID/Wt File: A031594.IDW      Lamp Current: 0  
Technique: HGA      Calib. Type: Linear      Energy: 56  
-----

Se    ID: CAL BLANK      Seq. No.: 00001      A/S Pos.: 0      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 35 from 0  
Replicate 1 (Peak Stored)      Time: 12:59  
Peak Area (A-s): 0.002      Peak Height (A): 0.014  
Background Pk Area (A-s): 0.111      Background Pk Height (A): 0.183  
Blank Corrected Pk Area (A-s): 0.002

uL dispensed: 5 from 39, 15 from 0, 35 from 0  
Replicate 2 (Peak Stored)      Time: 13:02  
Peak Area (A-s): 0.005      Peak Height (A): 0.013  
Background Pk Area (A-s): 0.047      Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.005

Mean Pk Area (A-s):      0.003      SD: 0.0023      RSD(%): 69.33

Auto-zero performed.

-----  
Se    ID: STD 1 IX-0782      Seq. No.: 00002      A/S Pos.: 40      Date: 03/16/94

uL dispensed: 5 from 39, 38 from 0, 2 from 40  
Replicate 1 (Peak Stored)      Time: 13:05  
Peak Area (A-s): 0.013      Peak Height (A): 0.041  
Background Pk Area (A-s): 0.056      Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.009

uL dispensed: 5 from 39, 38 from 0, 2 from 40  
Replicate 2 (Peak Stored)      Time: 13:09  
Peak Area (A-s): 0.017      Peak Height (A): 0.044  
Background Pk Area (A-s): 0.054      Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.014

Mean Pk Area (A-s):      0.012      SD: 0.0032      RSD(%): 27.40

Standard number 1 applied. [4.0]  
Correlation coefficient: 1.00000      Slope: 0.0029      Int: 0.000

-----  
Se    ID: STD 2      Seq. No.: 00003      A/S Pos.: 40      Date: 03/16/94

uL dispensed: 5 from 39, 35 from 0, 5 from 40  
Replicate 1 (Peak Stored)      Time: 13:12  
Peak Area (A-s): 0.037      Peak Height (A): 0.093  
Background Pk Area (A-s): 0.056      Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 11.7

uL dispensed: 5 from 39, 35 from 0, 5 from 40  
Replicate 2 (Peak Stored)      Time: 13:16  
Peak Area (A-s): 0.037      Peak Height (A): 0.098  
Background Pk Area (A-s): 0.059      Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): 0.034  
 Concentration (ug/L ): 11.6

Mean Conc (ug/L ): 11.6 SD: 0.07 RSD(%): 0.59

Standard number 2 applied. [10.0]  
 Correlation coefficient: 0.99798 Slope: 0.0034 Int: -0.001

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 03/16/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 1 (Peak Stored) Time: 13:19  
 Peak Area (A-s): 0.063 Peak Height (A): 0.162  
 Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.047  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 17.7

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 2 (Peak Stored) Time: 13:22  
 Peak Area (A-s): 0.068 Peak Height (A): 0.165  
 Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.064  
 Concentration (ug/L ): 19.0

Mean Conc (ug/L ): 18.3 SD: 0.94 RSD(%): 5.12

Standard number 3 applied. [20.0]  
 Correlation coefficient: 0.99826 Slope: 0.0031 Int: 0.000

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 03/16/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
 Replicate 1 (Peak Stored) Time: 13:26  
 Peak Area (A-s): 0.096 Peak Height (A): 0.234  
 Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.061  
 Blank Corrected Pk Area (A-s): 0.093  
 Concentration (ug/L ): 29.5

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
 Replicate 2 (Peak Stored) Time: 13:29  
 Peak Area (A-s): 0.097 Peak Height (A): 0.241  
 Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.061  
 Blank Corrected Pk Area (A-s): 0.093  
 Concentration (ug/L ): 29.7

Mean Conc (ug/L ): 29.6 SD: 0.16 RSD(%): 0.55

Standard number 4 applied. [30.0]  
 Correlation coefficient: 0.99928 Slope: 0.0031 Int: 0.000

Se ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 03/16/94

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
 Replicate 1 (Peak Stored) Time: 13:33  
 Peak Area (A-s): 0.125 Peak Height (A): 0.300  
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.076

Blank Corrected Pk Area (A-s): 0.121  
Concentration (ug/L ): 39.0

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
Replicate 2 (Peak Stored) Time: 13:36  
Peak Area (A-s): 0.132 Peak Height (A): 0.303  
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 41.5

Mean Conc (ug/L ): 40.3 SD: 1.75 RSD(%): 4.34

Standard number 5 applied. [40.0]  
Correlation coefficient: 0.99964 Slope: 0.0031 Int: 0.000

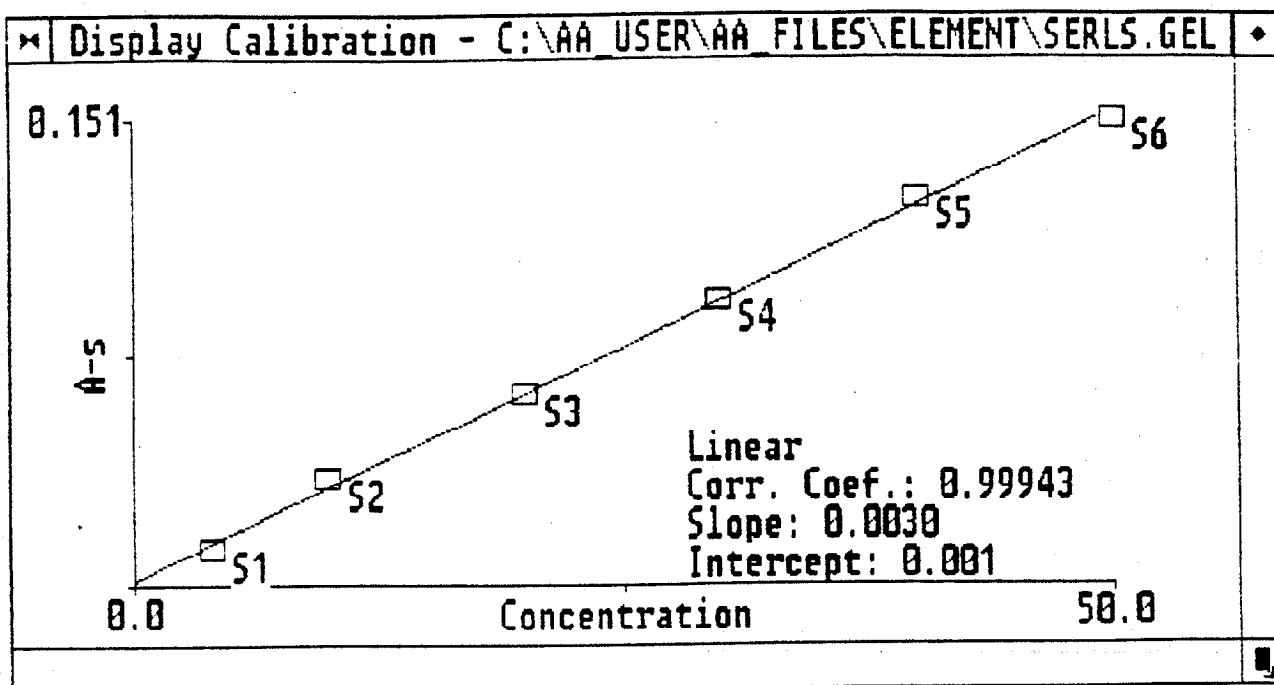
-----  
Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 40  
Replicate 1 (Peak Stored) Time: 13:39  
Peak Area (A-s): 0.155 Peak Height (A): 0.368  
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.088  
Blank Corrected Pk Area (A-s): 0.152  
Concentration (ug/L ): 48.7

uL dispensed: 5 from 39, 15 from 0, 25 from 40  
Replicate 2 (Peak Stored) Time: 13:43  
Peak Area (A-s): 0.153 Peak Height (A): 0.361  
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.085  
Blank Corrected Pk Area (A-s): 0.149  
Concentration (ug/L ): 47.9

Mean Conc (ug/L ): 48.3 SD: 0.54 RSD(%): 1.12

Standard number 6 applied. [50.0]  
Correlation coefficient: 0.99943 Slope: 0.0030 Int: 0.001



Se ID: ICV-0794 Seq. No.: 00008 A/S Pos.: 37 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 1 (Peak Stored) Time: 14:44  
 Peak Area (A-s): 0.125 Peak Height (A): 0.281  
 Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 39.6

uL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 2 (Peak Stored) Time: 14:48  
 Peak Area (A-s): 0.118 Peak Height (A): 0.285  
 Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.072  
 Blank Corrected Pk Area (A-s): 0.115  
 Concentration (ug/L ): 37.4

Mean Conc (ug/L ): 38.5 SD: 1.61 RSD(%): 4.19

QC sample is within range 35.2 - 43.0

Se ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 14:51  
 Peak Area (A-s): 0.001 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 14:54  
 Peak Area (A-s): -0.000 Peak Height (A): 0.013



Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.6

Mean Conc (ug/L ): -1.4 SD: 0.32 RSD(%): 23.49

QC sample is within range

Se ID: CRA-0795 Seq. No.: 00010 A/S Pos.: 36 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
 Replicate 1 (Peak Stored) Time: 14:58  
 Peak Area (A-s): 0.023 Peak Height (A): 0.050  
 Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 6.0

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 15:01  
 Peak Area (A-s): 0.016 Peak Height (A): 0.049  
 Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 3.9

Mean Conc (ug/L ): 5.0 SD: 1.49 RSD(%) 29.95

SB 3-16-94  
 Automatic  
 Return

Se ID: CRA-0795 Seq. No.: 00011 A/S Pos.: 36 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
 Replicate 1 (Peak Stored) Time: 15:05  
 Peak Area (A-s): 0.016 Peak Height (A): 0.044  
 Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 3.9

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 15:08  
 Peak Area (A-s): 0.017 Peak Height (A): 0.044  
 Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.014  
 Concentration (ug/L ): 4.1

Mean Conc (ug/L ): 4.0 SD: 0.13 RSD(%): 3.28

QC sample is within range 3.81 - 6.35

Se ID: PBL-N7R3945 Seq. No.: 00012 A/S Pos.: 1 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 1  
 Replicate 1 (Peak Stored) Time: 15:12  
 Peak Area (A-s): 0.003 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.022  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.4

uL dispensed: 5 from 39, 15 from 0, 25 from 1  
 Replicate 2 (Peak Stored) Time: 15:15

Peak Area (A-s): -0.001  
 Background Pk Area (A-s): 0.052  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.8

Peak Height (A): 0.011  
 Background Pk Height (A): 0.024

Mean Conc (ug/L ): -1.1<sup>Q</sup> SD: 0.95 RSD(%): 86.94

Se ID: PBL-N7R3945 Seq. No.: 00013 A/S Pos.: 1 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1

Replicate 1 (Peak Stored)

Time: 15:19

Peak Area (A-s): 0.035

Peak Height (A): 0.086

Background Pk Area (A-s): 0.058

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.032

Concentration (ug/L ): 10.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1

Replicate 2 (Peak Stored)

Time: 15:22

Peak Area (A-s): 0.022

Peak Height (A): 0.061

Background Pk Area (A-s): 0.167

Background Pk Height (A): 0.173

Blank Corrected Pk Area (A-s): 0.019

Concentration (ug/L ): 5.8

Mean Conc (ug/L ): 7.9 SD: 3.07 RSD(%): 38.68

Recovery is 90.1%

Se ID: PBL-N7R3945 Seq. No.: 00014 A/S Pos.: 1 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1

Replicate 1 (Peak Stored)

Time: 15:26

Peak Area (A-s): 0.034

Peak Height (A): 0.085

Background Pk Area (A-s): 0.062

Background Pk Height (A): 0.036

Blank Corrected Pk Area (A-s): 0.031

Concentration (ug/L ): 9.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1

Replicate 2 (Peak Stored)

Time: 15:29

Peak Area (A-s): 0.027

Peak Height (A): 0.073

Background Pk Area (A-s): 0.064

Background Pk Height (A): 0.033

Blank Corrected Pk Area (A-s): 0.024

Concentration (ug/L ): 7.5

Mean Conc (ug/L ): 8.7 SD: 1.68 RSD(%): 19.38

Recovery is ~~97.1%~~ <sup>58</sup> 87.0%

3-16-94

Se ID: LC SL-N7R3945 Seq. No.: 00015 A/S Pos.: 2 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 2

Replicate 1 (Peak Stored)

Time: 15:33

Peak Area (A-s): 0.063

Peak Height (A): 0.146

Background Pk Area (A-s): 0.068

Background Pk Height (A): 0.052

Blank Corrected Pk Area (A-s): 0.060

Concentration (ug/L ): 19.4

uL dispensed: 5 from 39, 15 from 0, 25 from 2

Replicate 2 (Peak Stored)

Time: 15:36

Peak Area (A-s): 0.063

Peak Height (A): 0.154

Background Pk Area (A-s): 0.068

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.060

Concentration (ug/L ): 19.3

Mean Conc (ug/L ): 19.3

SD: 0.05

RSD(%): 0.25

Se ID: LC SL-N7R3945

Seq. No.: 00016

A/S Pos.: 2

Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2

Replicate 1 (Peak Stored)

Time: 15:40

Peak Area (A-s): 0.095

Peak Height (A): 0.232

Background Pk Area (A-s): 0.074

Background Pk Height (A): 0.062

Blank Corrected Pk Area (A-s): 0.091

Concentration (ug/L ): 29.7

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2

Replicate 2 (Peak Stored)

Time: 15:43

Peak Area (A-s): 0.096

Peak Height (A): 0.235

Background Pk Area (A-s): 0.071

Background Pk Height (A): 0.065

Blank Corrected Pk Area (A-s): 0.093

Concentration (ug/L ): 30.1

Mean Conc (ug/L ): 29.9

SD: 0.28

RSD(%): 0.95

Recovery is 105.8%

Se ID: 7SM-JM4362 MTXS

Seq. No.: 00017

A/S Pos.: 3

Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 1 (Peak Stored)

Time: 15:47

Peak Area (A-s): 0.046

Peak Height (A): 0.106

Background Pk Area (A-s): 0.384

Background Pk Height (A): 0.116

Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L ): 13.5

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 2 (Peak Stored)

Time: 15:50

Peak Area (A-s): 0.049

Peak Height (A): 0.102

Background Pk Area (A-s): 0.374

Background Pk Height (A): 0.113

Blank Corrected Pk Area (A-s): 0.045

Concentration (ug/L ): 14.6

Mean Conc (ug/L ): 14.0

SD: 0.73

RSD(%): 5.20

Recovery is 105.8%

Se ID: 7SD-JM4362 MTXR

Seq. No.: 00018

A/S Pos.: 4

Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 4

Replicate 1 (Peak Stored)

Time: 15:54

Peak Area (A-s): 0.046

Peak Height (A): 0.105

Background Pk Area (A-s): 0.375

Background Pk Height (A): 0.119

Blank Corrected Pk Area (A-s): 0.043

Concentration (ug/L ): 13.7

uL dispensed: 5 from 39, 15 from 0, 25 from 4  
 Replicate 2 (Peak Stored) Time: 15:57  
 Peak Area (A-s): 0.048 Peak Height (A): 0.103  
 Background Pk Area (A-s): 0.370 Background Pk Height (A): 0.112  
 Blank Corrected Pk Area (A-s): 0.045  
 Concentration (ug/L ): 14.3

Mean Conc (ug/L ): 14.0 Q SD: 0.40 RSD(%): 2.89

Se ID: 7XX-JM4362 SS42 Seq. No.: 00019 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 5  
 Replicate 1 (Peak Stored) Time: 16:01  
 Peak Area (A-s): 0.001 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.362 Background Pk Height (A): 0.113  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 5  
 Replicate 2 (Peak Stored) Time: 16:04  
 Peak Area (A-s): 0.003 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.361 Background Pk Height (A): 0.111  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.3

Mean Conc (ug/L ): -0.7 Q SD: 0.56 RSD(%): 77.33

Se ID: 7XX-JM4362 SS42 Seq. No.: 00020 A/S Pos.: 5 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5  
 Replicate 1 (Peak Stored) Time: 16:08  
 Peak Area (A-s): 0.021 Peak Height (A): 0.052  
 Background Pk Area (A-s): 0.360 Background Pk Height (A): 0.113  
 Blank Corrected Pk Area (A-s): 0.018  
 Concentration (ug/L ): 3.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5  
 Replicate 2 (Peak Stored) Time: 16:11  
 Peak Area (A-s): 0.021 Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.358 Background Pk Height (A): 0.113  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 3.5

Mean Conc (ug/L ): 3.5 SD: 0.75 RSD(%): 12.40

Recovery is 61.0% (outside of specified limits)

583-16-94

Se ID: 7XX-JM4362 DUP Seq. No.: 00021 A/S Pos.: 6 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 1 (Peak Stored) Time: 16:15  
 Peak Area (A-s): 0.002 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.363 Background Pk Height (A): 0.114  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.7

W

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 2 (Peak Stored) Time: 16:18  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.355 Background Pk Height (A): 0.112  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.3

Mean Conc (ug/L ): -0.5<sub>Q</sub> SD: 0.32 RSD(%): 65.37

Se ID: 7XX-JM4362 DUP Seq. No.: 00022 A/S Pos.: 6 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6  
 Replicate 1 (Peak Stored) Time: 16:22  
 Peak Area (A-s): 0.020 Peak Height (A): 0.057  
 Background Pk Area (A-s): 0.366 Background Pk Height (A): 0.113  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 4.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6  
 Replicate 2 (Peak Stored) Time: 16:25  
 Peak Area (A-s): 0.019 Peak Height (A): 0.051  
 Background Pk Area (A-s): 0.362 Background Pk Height (A): 0.115  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 4.9

Mean Conc (ug/L ): 4.9 SD: 0.03 RSD(%): 0.54

Recovery is <sup>49.0%</sup>~~51.2%~~ (outside of specified limits)  
<sub>56</sub>  
<sub>3.16.44</sub>

Se ID: CCV-0793 Seq. No.: 00023 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 16:30  
 Peak Area (A-s): 0.086 Peak Height (A): 0.180  
 Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.048  
 Blank Corrected Pk Area (A-s): 0.083  
 Concentration (ug/L ): 26.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 16:34  
 Peak Area (A-s): 0.078 Peak Height (A): 0.158  
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 24.2

Mean Conc (ug/L ): 25.5 SD: 1.88 RSD(%): 7.37

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 16:37  
 Peak Area (A-s): 0.004 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 16:40  
Peak Area (A-s): 0.001 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.3

Mean Conc (ug/L ): -0.8 SD: 0.73 RSD(%): 96.56

QC sample is within range

Se ID: 7XX-JM4353 SS33 Seq. No.: 00025 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7  
Replicate 1 (Peak Stored) Time: 16:43  
Peak Area (A-s): 0.001 Peak Height (A): 0.062  
Background Pk Area (A-s): 1.389 Background Pk Height (A): 1.777  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 7  
Replicate 2 (Peak Stored) Time: 16:47  
Peak Area (A-s): 0.004 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.402 Background Pk Height (A): 0.124  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.1

Mean Conc (ug/L ): -0.6 R SD: 0.68 RSD(%): 109.50

Se ID: 7XX-JM4353 SS33 Seq. No.: 00026 A/S Pos.: 7 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7  
Replicate 1 (Peak Stored) Time: 16:50  
Peak Area (A-s): 0.022 Peak Height (A): 0.059  
Background Pk Area (A-s): 0.390 Background Pk Height (A): 0.119  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.7

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7  
Replicate 2 (Peak Stored) Time: 16:54  
Peak Area (A-s): 0.024 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.396 Background Pk Height (A): 0.124  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.4

Mean Conc (ug/L ): 6.0 SD: 0.50 RSD(%): 8.29

Recovery is <sup>60.0%</sup>~~66.4%~~ (outside of specified limits)

Se ID: 7XX-JM4354 SS34 Seq. No.: 00027 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8  
Replicate 1 (Peak Stored) Time: 16:57  
Peak Area (A-s): -0.000 Peak Height (A): 0.013

Background Pk Area (A-s): 0.356 Background Pk Height (A): 0.111  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.5

W

uL dispensed: 5 from 39, 15 from 0, 25 from 8  
Replicate 2 (Peak Stored) Time: 17:01  
Peak Area (A-s): 0.002 Peak Height (A): 0.029  
Background Pk Area (A-s): 0.939 Background Pk Height (A): 0.878  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.9

Mean Conc (ug/L ): -1.2<sub>Q</sub> SD: 0.44 RSD(%): 37.68

Se ID: 7XX-JM4354 SS34 Seq. No.: 00028 A/S Pos.: 8 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8  
Replicate 1 (Peak Stored) Time: 17:04  
Peak Area (A-s): 0.019 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.366 Background Pk Height (A): 0.113  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 4.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8  
Replicate 2 (Peak Stored) Time: 17:08  
Peak Area (A-s): 0.018 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.365 Background Pk Height (A): 0.112  
Blank Corrected Pk Area (A-s): 0.015  
Concentration (ug/L ): 4.5

Mean Conc (ug/L ): 4.7 SD: 0.31 RSD(%): 6.53

Recovery is <sup>47.0%</sup>~~50.5%~~ (outside of specified limits)

<sup>50.3%</sup><sub>44</sub>

Se ID: 7XX-JM4355 SS35 Seq. No.: 00029 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
Replicate 1 (Peak Stored) Time: 17:11  
Peak Area (A-s): 0.002 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.369 Background Pk Height (A): 0.109  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.8

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
Replicate 2 (Peak Stored) Time: 17:15  
Peak Area (A-s): -0.001 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.375 Background Pk Height (A): 0.112  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -1.4 SD: 0.77 RSD(%): 55.81

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Se ID: 7XX-JM4355 SS35 Seq. No.: 00030 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 1 (Peak Stored) Time: 17:18  
Peak Area (A-s): 0.015 Peak Height (A): 0.055

Background Pk Area (A-s): 0.377      Background Pk Height (A): 0.113  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 3.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 2 (Peak Stored)      Time: 17:22  
Peak Area (A-s): 0.017      Peak Height (A): 0.051  
Background Pk Area (A-s): 0.381      Background Pk Height (A): 0.111  
Blank Corrected Pk Area (A-s): 0.014  
Concentration (ug/L ): 4.2

Mean Conc (ug/L ):      3.9      SD: 0.40      RSD(%): 10.40

Recovery is 52.6% (outside of specified limits)

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Se ID: CCV-0793      Seq. No.: 00032      A/S Pos.: 38      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored)      Time: 17:28  
Peak Area (A-s): 0.081      Peak Height (A): 0.152  
Background Pk Area (A-s): 0.077      Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): 0.073  
Concentration (ug/L ): 25.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)      Time: 17:31  
Peak Area (A-s): 0.085      Peak Height (A): 0.158  
Background Pk Area (A-s): 0.073      Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 26.4

Mean Conc (ug/L ):      25.9      SD: 0.80      RSD(%): 3.09

QC sample is out of range 21.1 - 25.8

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Se ID: CCB      Seq. No.: 00033      A/S Pos.: 0      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0

*BAKED TUBE x Replaced CCV w/ Fresh  
SB  
3-16-94*

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Se ID: CCV-0793      Seq. No.: 00034      A/S Pos.: 38      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored)      Time: 17:36  
Peak Area (A-s): 0.076      Peak Height (A): 0.155  
Background Pk Area (A-s): 0.074      Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.072  
Concentration (ug/L ): 23.4

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)      Time: 17:40  
Peak Area (A-s): 0.080      Peak Height (A): 0.152  
Background Pk Area (A-s): 0.071      Background Pk Height (A): 0.044  
Blank Corrected Pk Area (A-s): 0.077  
Concentration (ug/L ): 25.0

Mean Conc (ug/L ):      24.2      SD: 1.11      RSD(%): 4.60



QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00035 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 17:44  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.152  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 17:47  
 Peak Area (A-s): -0.002 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.005  
 Concentration (ug/L ): -2.2

Mean Conc (ug/L ): -1.2 SD: 1.38 RSD(%): 115.13

QC sample is within range

Se ID: 7XX-JM4355 SS35 Seq. No.: 00036 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 1 (Peak Stored) Time: 17:50  
 Peak Area (A-s): 0.001 Peak Height (A): 0.032  
 Background Pk Area (A-s): 1.148 Background Pk Height (A): 1.244  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 2 (Peak Stored) Time: 17:54  
 Peak Area (A-s): -0.005 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.385 Background Pk Height (A): 0.118  
 Blank Corrected Pk Area (A-s): -0.009  
 Concentration (ug/L ): -3.2

Mean Conc (ug/L ): -2.2<sub>Q</sub> SD: 1.44 RSD(%): 65.68

Se ID: 7XX-JM4355 SS35 Seq. No.: 00037 A/S Pos.: 9 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 1 (Peak Stored) Time: 17:57  
 Peak Area (A-s): 0.022 Peak Height (A): 0.060  
 Background Pk Area (A-s): 0.365 Background Pk Height (A): 0.108  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 5.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 2 (Peak Stored) Time: 18:01  
 Peak Area (A-s): 0.019 Peak Height (A): 0.060  
 Background Pk Area (A-s): 1.045 Background Pk Height (A): 1.107  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 4.9

Mean Conc (ug/L ): 5.4 SD: 0.67 RSD(%): 12.57

Recovery is ~~5.5%~~<sup>5.4 C%  
56 2-16-94</sup> (outside of specified limits)

Se ID: 7XX-JM4356 SS36 Seq. No.: 00038 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 10

Replicate 1 (Peak Stored)

Time: 18:04

Peak Area (A-s): -0.000

Peak Height (A): 0.015

Background Pk Area (A-s): 0.390

Background Pk Height (A): 0.120

Blank Corrected Pk Area (A-s): -0.004

Concentration (ug/L ): -1.6

uL dispensed: 5 from 39, 15 from 0, 25 from 10

Replicate 2 (Peak Stored)

Time: 18:07

Peak Area (A-s): 0.002

Peak Height (A): 0.012

Background Pk Area (A-s): 0.376

Background Pk Height (A): 0.114

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.7

Mean Conc (ug/L ): -1.2<sup>Q</sup> SD: 0.63 RSD(%): 53.22

Se ID: 7XX-JM4356 SS36 Seq. No.: 00039 A/S Pos.: 10 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10

Replicate 1 (Peak Stored)

Time: 18:11

Peak Area (A-s): 0.020

Peak Height (A): 0.055

Background Pk Area (A-s): 0.375

Background Pk Height (A): 0.109

Blank Corrected Pk Area (A-s): 0.017

Concentration (ug/L ): 5.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10

Replicate 2 (Peak Stored)

Time: 18:15

Peak Area (A-s): 0.025

Peak Height (A): 0.059

Background Pk Area (A-s): 0.376

Background Pk Height (A): 0.113

Blank Corrected Pk Area (A-s): 0.021

Concentration (ug/L ): 6.6

Mean Conc (ug/L ): 5.8 SD: 1.06 RSD(%): 18.06

Recovery is ~~70.2%~~<sup>55.0%  
76 3-16-94</sup> (outside of specified limits)

Se ID: 7XX-JM4357 SS37 Seq. No.: 00040 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11

Replicate 1 (Peak Stored)

Time: 18:19

Peak Area (A-s): 0.006

Peak Height (A): 0.014

Background Pk Area (A-s): 0.376

Background Pk Height (A): 0.120

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 0.6

uL dispensed: 5 from 39, 15 from 0, 25 from 11

Replicate 2 (Peak Stored)

Time: 18:23

Peak Area (A-s): 0.000

Peak Height (A): 0.014

Background Pk Area (A-s): 0.359

Background Pk Height (A): 0.110

Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -1.4

Mean Conc (ug/L ): -0.4 Q SD: 1.47 RSD(%): 359.56

Se ID: 7XX-JM4357 SS37 Seq. No.: 00041 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11

Replicate 1 (Peak Stored) Time: 18:26  
Peak Area (A-s): 0.017 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.367 Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 4.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11

Replicate 2 (Peak Stored) Time: 18:30  
Peak Area (A-s): 0.020 Peak Height (A): 0.061  
Background Pk Area (A-s): 0.362 Background Pk Height (A): 0.111  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 5.1

Mean Conc (ug/L ): 4.5 SD: 0.80 RSD(%): 17.72

*SB 3-16-94  
Rerun*

Recovery is 49.5% (outside of specified limits)

Se ID: 7XX-JM4357 SS37 Seq. No.: 00042 A/S Pos.: 11 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11

Replicate 1 (Peak Stored) Time: 18:33  
Peak Area (A-s): 0.017 Peak Height (A): 0.057  
Background Pk Area (A-s): 0.355 Background Pk Height (A): 0.118  
Blank Corrected Pk Area (A-s): 0.014  
Concentration (ug/L ): 4.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11

Replicate 2 (Peak Stored) Time: 18:37  
Peak Area (A-s): 0.022 Peak Height (A): 0.056  
Background Pk Area (A-s): 1.037 Background Pk Height (A): 1.062  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 5.8

Mean Conc (ug/L ): 5.0 SD: 1.11 RSD(%): 22.12

Recovery is ~~54.1%~~ <sup>50.0%</sup> (outside of specified limits)  
*49.16-94*

Se ID: 7XX-JM4358 SS38 Seq. No.: 00043 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12

Replicate 1 (Peak Stored) Time: 18:40  
Peak Area (A-s): 0.004 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.407 Background Pk Height (A): 0.123  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 12

Replicate 2 (Peak Stored) Time: 18:43  
Peak Area (A-s): 0.002 Peak Height (A): 0.012

Background Pk Area (A-s): 0.408      Background Pk Height (A): 0.119  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.8

Mean Conc (ug/L ):            -0.5            SD: 0.40            RSD(%): 79.75

Se ID: 7XX-JM4358 SS38      Seq. No.: 00044      A/S Pos.: 12      Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 1 (Peak Stored)            Time: 18:47  
Peak Area (A-s): 0.011            Peak Height (A): 0.043  
Background Pk Area (A-s): 0.402      Background Pk Height (A): 0.117  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 2.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 2 (Peak Stored)            Time: 18:50  
Peak Area (A-s): 0.019            Peak Height (A): 0.048  
Background Pk Area (A-s): 0.402      Background Pk Height (A): 0.117  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 4.8

Mean Conc (ug/L ):            3.5            SD: 1.92            RSD(%): 55.42

Recovery is 39.6% (outside of specified limits)

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Se ID: CCV-0793            Seq. No.: 00045      A/S Pos.: 38      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored)            Time: 18:55  
Peak Area (A-s): 0.074            Peak Height (A): 0.157  
Background Pk Area (A-s): 0.071      Background Pk Height (A): 0.044  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 22.7

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)            Time: 18:58  
Peak Area (A-s): 0.075            Peak Height (A): 0.146  
Background Pk Area (A-s): 0.067      Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.072  
Concentration (ug/L ): 23.2

Mean Conc (ug/L ):            22.9            SD: 0.33            RSD(%): 1.42

QC sample is within range 21.1 - 25.8

Se ID: CCB            Seq. No.: 00046      A/S Pos.: 0      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored)            Time: 19:01  
Peak Area (A-s): 0.004            Peak Height (A): 0.015  
Background Pk Area (A-s): 0.051      Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.051  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.8

Time: 19:05  
Peak Height (A): 0.015  
Background Pk Height (A): 0.022

Mean Conc (ug/L ): -0.4 SD: 0.44 RSD(%): 100.26

QC sample is within range

Se ID: 7XX-JM4358 SS38 Seq. No.: 00047 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12  
Replicate 1 (Peak Stored)  
Peak Area (A-s): -0.003  
Background Pk Area (A-s): 0.401  
Blank Corrected Pk Area (A-s): -0.007  
Concentration (ug/L ): -2.5

Time: 19:08  
Peak Height (A): 0.011  
Background Pk Height (A): 0.119

uL dispensed: 5 from 39, 15 from 0, 25 from 12  
Replicate 2 (Peak Stored)  
Peak Area (A-s): -0.003  
Background Pk Area (A-s): 0.397  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -2.4

Time: 19:11  
Peak Height (A): 0.011  
Background Pk Height (A): 0.117

Mean Conc (ug/L ): -2.5 SD: 0.11 RSD(%): 4.45

Se ID: 7XX-JM4358 SS38 Seq. No.: 00048 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.021  
Background Pk Area (A-s): 0.915  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.6

Time: 19:15  
Peak Height (A): 0.054  
Background Pk Height (A): 0.891

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.016  
Background Pk Area (A-s): 0.418  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 3.8

Time: 19:18  
Peak Height (A): 0.052  
Background Pk Height (A): 0.124

Mean Conc (ug/L ): 4.7 SD: 1.21 RSD(%): 25.75

Recovery is 71.7% (outside of specified limits)

Se ID: 7XX-JM4358 SS38 Seq. No.: 00049 A/S Pos.: 12 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.019  
Background Pk Area (A-s): 0.413  
Blank Corrected Pk Area (A-s): 0.015  
Concentration (ug/L ): 4.7

Time: 19:22  
Peak Height (A): 0.055  
Background Pk Height (A): 0.124

*Automatic  
Clear*

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 2 (Peak Stored) Time: 19:25  
Peak Area (A-s): 0.021 Peak Height (A): 0.054  
Background Pk Area (A-s): 0.415 Background Pk Height (A): 0.120  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.5

Mean Conc (ug/L ): 5.1 SD: 0.59 RSD(%): 11.60

Recovery is ~~75.9%~~ <sup>51.0%</sup> (outside of specified limits)  
<sub>45% 3-16-94</sub>

Se ID: 7XX-JM4359 SS39 Seq. No.: 00050 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
Replicate 1 (Peak Stored) Time: 19:28  
Peak Area (A-s): 0.003 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.426 Background Pk Height (A): 0.131  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.4

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
Replicate 2 (Peak Stored) Time: 19:32  
Peak Area (A-s): 0.002 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.423 Background Pk Height (A): 0.135  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.8

Mean Conc (ug/L ): -0.6<sup>Q</sup> SD: 0.31 RSD(%): 52.62

Se ID: 7XX-JM4359 SS39 Seq. No.: 00051 A/S Pos.: 13 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 13  
Replicate 1 (Peak Stored) Time: 19:35  
Peak Area (A-s): 0.020 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.422 Background Pk Height (A): 0.127  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 5.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 13  
Replicate 2 (Peak Stored) Time: 19:39  
Peak Area (A-s): 0.013 Peak Height (A): 0.061  
Background Pk Area (A-s): 1.018 Background Pk Height (A): 1.019  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 2.9

Mean Conc (ug/L ): 4.0 SD: 1.49 RSD(%): 37.73

Recovery is ~~45.5%~~ <sup>40.0%</sup> (outside of specified limits)  
<sub>3-16-94</sub>

Se ID: 7XX-JM4360 SS40 Seq. No.: 00052 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
Replicate 1 (Peak Stored) Time: 19:42  
Peak Area (A-s): 0.007 Peak Height (A): 0.021  
Background Pk Area (A-s): 1.028 Background Pk Height (A): 1.015  
Blank Corrected Pk Area (A-s): 0.003

*Handwritten notes:*  
OK @ 4.0  
SB 3-16-94  
Automatic  
Return

0264 SB 3-16-94  
Reran ↓

Concentration (ug/L ): 0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 14

Replicate 2 (Peak Stored) Time: 19:45  
Peak Area (A-s): -0.006 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.404 Background Pk Height (A): 0.126  
Blank Corrected Pk Area (A-s): -0.009  
Concentration (ug/L ): -3.3

Mean Conc (ug/L ): -1.3 SD: 2.81 RSD(%): 214.72

Se ID: 7XX-JM4360 SS40 Seq. No.: 00053 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14

*Autosampler  
Sealed/purged off line  
SB 3-16-94*

Se ID: CCV-0793 Seq. No.: 00054 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored) Time: 19:58  
Peak Area (A-s): 0.069 Peak Height (A): 0.157  
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.066  
Concentration (ug/L ): 21.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 20:02  
Peak Area (A-s): 0.077 Peak Height (A): 0.169  
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.048  
Blank Corrected Pk Area (A-s): 0.074  
Concentration (ug/L ): 24.0

Mean Conc (ug/L ): 22.7 SD: 1.89 RSD(%): 8.33

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00055 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored) Time: 20:05  
Peak Area (A-s): 0.001 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 20:08  
Peak Area (A-s): -0.000 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.6

Mean Conc (ug/L ): -1.3 SD: 0.40 RSD(%): 30.82

QC sample is within range

Se ID: 7XX-JM4360 SS40 Seq. No.: 00056 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 1 (Peak Stored) Time: 20:12  
 Peak Area (A-s): 0.005 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.825 Background Pk Height (A): 0.743  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.0

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 2 (Peak Stored) Time: 20:15  
 Peak Area (A-s): 0.004 Peak Height (A): 0.022  
 Background Pk Area (A-s): 1.001 Background Pk Height (A): 0.990  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.3

Mean Conc (ug/L ): -0.1<sub>2</sub> SD: 0.22 RSD(%): 171.02

Se ID: 7XX-JM4360 SS40 Seq. No.: 00057 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 20:18  
 Peak Area (A-s): 0.021 Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.959 Background Pk Height (A): 0.917  
 Blank Corrected Pk Area (A-s): 0.018  
 Concentration (ug/L ): 5.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 20:22  
 Peak Area (A-s): 0.017 Peak Height (A): 0.053  
 Background Pk Area (A-s): 1.027 Background Pk Height (A): 1.049  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 4.1

Mean Conc (ug/L ): 4.8 SD: 1.07 RSD(%): 22.28

Recovery is 49.5% (outside of specified limits)

SB 3-16-94  
 Automatic  
 ReRun

Se ID: 7XX-JM4360 SS40 Seq. No.: 00058 A/S Pos.: 14 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 20:25  
 Peak Area (A-s): 0.022 Peak Height (A): 0.056  
 Background Pk Area (A-s): 1.043 Background Pk Height (A): 1.064  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 5.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 20:29  
 Peak Area (A-s): 0.021 Peak Height (A): 0.060  
 Background Pk Area (A-s): 0.942 Background Pk Height (A): 0.966  
 Blank Corrected Pk Area (A-s): 0.018  
 Concentration (ug/L ): 5.4

Mean Conc (ug/L ): 5.6 SD: 0.35 RSD(%): 6.15



Recovery is <sup>56 C<sub>10</sub></sup>~~57.5%~~ (outside of specified limits)  
<sub>57 3-16-94</sub>

Se ID: 7XX-JM4361 SS41 Seq. No.: 00059 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
Replicate 1 (Peak Stored) Time: 20:32  
Peak Area (A-s): 0.004 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.774 Background Pk Height (A): 0.774  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
Replicate 2 (Peak Stored) Time: 20:35  
Peak Area (A-s): 0.001 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.325 Background Pk Height (A): 0.108  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.1

Mean Conc (ug/L ): -0.6<sup>Q</sup> SD: 0.70 RSD(%): 125.82

Se ID: 7XX-JM4361 SS41 Seq. No.: 00060 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
Replicate 1 (Peak Stored) Time: 20:39  
Peak Area (A-s): 0.020 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.774 Background Pk Height (A): 0.780  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 5.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
Replicate 2 (Peak Stored) Time: 20:42  
Peak Area (A-s): 0.027 Peak Height (A): 0.052  
Background Pk Area (A-s): 0.778 Background Pk Height (A): 0.811  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 7.3

Mean Conc (ug/L ): 6.2 SD: 1.57 RSD(%): 25.34

*SB 3-16-94  
Automatic  
Recan*

Recovery is 67.5% (outside of specified limits)

Se ID: 7XX-JM4361 SS41 Seq. No.: 00061 A/S Pos.: 15 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
Replicate 1 (Peak Stored) Time: 20:46  
Peak Area (A-s): 0.023 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.327 Background Pk Height (A): 0.105  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 6.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
Replicate 2 (Peak Stored) Time: 20:49  
Peak Area (A-s): 0.025 Peak Height (A): 0.063  
Background Pk Area (A-s): 0.691 Background Pk Height (A): 0.715  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 6.7

Mean Conc (ug/L ): 6.3 SD: 0.52 RSD(%): 8.19

Recovery is ~~69.0%~~ (outside of specified limits)  
*43.0%*  
*3-16-94*

Se ID: TCLP BLK 3945 Seq. No.: 00062 A/S Pos.: 16 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 16

Replicate 1 (Peak Stored) Time: 20:53  
 Peak Area (A-s): 0.007 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.554 Background Pk Height (A): 0.631  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 16

Replicate 2 (Peak Stored) Time: 20:56  
 Peak Area (A-s): 0.003 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.341 Background Pk Height (A): 0.110  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.6

Mean Conc (ug/L ): 0.2 SD: 1.13 RSD(%): 653.19

Se ID: TCLP BLK 3945 Seq. No.: 00063 A/S Pos.: 16 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16

Replicate 1 (Peak Stored) Time: 21:00  
 Peak Area (A-s): 0.020 Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.339 Background Pk Height (A): 0.105  
 Blank Corrected Pk Area (A-s): 0.017  
 Concentration (ug/L ): 5.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16

Replicate 2 (Peak Stored) Time: 21:03  
 Peak Area (A-s): 0.022 Peak Height (A): 0.056  
 Background Pk Area (A-s): 0.330 Background Pk Height (A): 0.105  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 5.8

Mean Conc (ug/L ): 5.5 SD: 0.42 RSD(%): 7.58

Recovery is 53.0% (outside of specified limits)

Se ID: CCV-0793 Seq. No.: 00064 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 1 (Peak Stored) Time: 21:08  
 Peak Area (A-s): 0.075 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.072  
 Concentration (ug/L ): 23.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 2 (Peak Stored) Time: 21:11  
 Peak Area (A-s): 0.075 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): 0.071

Concentration (ug/L ): 23.1

Mean Conc (ug/L ): 23.2 SD: 0.15 RSD(%): 0.66

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00065 A/S Pos.: 0 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored) Time: 21:15  
Peak Area (A-s): -0.001 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -1.9

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 21:18  
Peak Area (A-s): -0.001 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.8

Mean Conc (ug/L ): -1.8 SD: 0.12 RSD(%): 6.64

QC sample is within range

Se ID: PBL-N7R3948 Seq. No.: 00066 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 1 (Peak Stored) Time: 21:21  
Peak Area (A-s): 0.002 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -0.9

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 2 (Peak Stored) Time: 21:25  
Peak Area (A-s): 0.005 Peak Height (A): 0.018  
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.134  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.0

Mean Conc (ug/L ): -0.4 SD: 0.66 RSD(%): 157.74

Se ID: PBL-N7R3948 Seq. No.: 00067 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored) Time: 21:28  
Peak Area (A-s): 0.024 Peak Height (A): 0.064  
Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.148  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 2 (Peak Stored) Time: 21:32  
Peak Area (A-s): 0.025 Peak Height (A): 0.054

Background Pk Area (A-s): 0.156      Background Pk Height (A): 0.164  
 Blank Corrected Pk Area (A-s): 0.022  
 Concentration (ug/L ): 6.8

Mean Conc (ug/L ):            6.6            SD: 0.29            RSD(%): 4.45

Recovery is 70.0% (outside of specified limits)

Se ID: CCV-0793            Seq. No.: 00068      A/S Pos.: 38      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored)      Time: 21:36  
 Peak Area (A-s): 0.080      Peak Height (A): 0.172  
 Background Pk Area (A-s): 0.069      Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.077  
 Concentration (ug/L ): 24.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored)      Time: 21:40  
 Peak Area (A-s): 0.075      Peak Height (A): 0.167  
 Background Pk Area (A-s): 0.077      Background Pk Height (A): 0.053  
 Blank Corrected Pk Area (A-s): 0.072  
 Concentration (ug/L ): 23.3

Mean Conc (ug/L ):            24.1            SD: 1.17            RSD(%): 4.84

QC sample is within range 21.1 - 25.8

Se ID: CCB            Seq. No.: 00069      A/S Pos.: 0      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored)      Time: 21:43  
 Peak Area (A-s): -0.001      Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.058      Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.005  
 Concentration (ug/L ): -1.9

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored)      Time: 21:46  
 Peak Area (A-s): -0.001      Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.059      Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.7

Mean Conc (ug/L ):            -1.8            SD: 0.16            RSD(%): 8.87

QC sample is within range

Se ID: PBL-N7R3948      Seq. No.: 00070      A/S Pos.: 17      Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
 Replicate 1 (Peak Stored)      Time: 21:50  
 Peak Area (A-s): -0.003      Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.057      Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): -0.006  
 Concentration (ug/L ): -2.3

*Autosampler failed* 59 3-16-94

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
-----  
Se ID: PBL-N7R3948 Seq. No.: 00071 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 1 (Peak Stored) Time: 21:57  
Peak Area (A-s): 0.005 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 2 (Peak Stored) Time: 22:01  
Peak Area (A-s): -0.001 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -0.9 SD: 1.40 RSD(%): 156.22

-----  
Se ID: PBL-N7R3948 Seq. No.: 00072 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored) Time: 22:04  
Peak Area (A-s): 0.025 Peak Height (A): 0.078  
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 6.7

*PEAKED* uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
-----  
Se ID: PBL-N7R3948 Seq. No.: 00073 A/S Pos.: 17 Date: 03/16/94

*SB 3-16-94*

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 1 (Peak Stored) Time: 22:14  
Peak Area (A-s): 0.008 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.3

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 2 (Peak Stored) Time: 22:18  
Peak Area (A-s): 0.002 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.7

Mean Conc (ug/L ): 0.3 Q SD: 1.37 RSD(%): 478.74

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Se ID: PBL-N7R3948 Seq. No.: 00074 A/S Pos.: 17 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored) Time: 22:21  
Peak Area (A-s): 0.036 Peak Height (A): 0.085  
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 10.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
 Replicate 2 (Peak Stored) Time: 22:25  
 Peak Area (A-s): 0.041 Peak Height (A): 0.094  
 Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.037  
 Concentration (ug/L ): 11.9

Mean Conc (ug/L ): 11.2 SD: 1.00 RSD(%): 8.89

Recovery is 109.2%

Se ID: LCSL-N7R3948 Seq. No.: 00075 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
 Replicate 1 (Peak Stored) Time: 22:28  
 Peak Area (A-s): 0.074 Peak Height (A): 0.180  
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.070  
 Concentration (ug/L ): 22.8

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
 Replicate 2 (Peak Stored) Time: 22:31  
 Peak Area (A-s): 0.076 Peak Height (A): 0.175  
 Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 23.6

Mean Conc (ug/L ): 23.2 SD: 0.57 RSD(%): 2.48

Se ID: LCSL-N7R3948 Seq. No.: 00076 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
 Replicate 1 (Peak Stored) Time: 22:35  
 Peak Area (A-s): 0.065 Peak Height (A): 0.154  
 Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.062  
 Concentration (ug/L ): 20.0

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
 Replicate 2 (Peak Stored) Time: 22:39  
 Peak Area (A-s): 0.070 Peak Height (A): 0.162  
 Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.067  
 Concentration (ug/L ): 21.7

Mean Conc (ug/L ): 20.9 SD: 1.17 RSD(%): 5.61

Se ID: LCSL-N7R3948 Seq. No.: 00077 A/S Pos.: 18 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18  
 Replicate 1 (Peak Stored) Time: 22:42  
 Peak Area (A-s): 0.093 Peak Height (A): 0.225  
 Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.062  
 Blank Corrected Pk Area (A-s): 0.090  
 Concentration (ug/L ): 29.1

*SB 3-16-94  
 Call with  
 fresh LC25  
 and return*

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18  
 Replicate 2 (Peak Stored) Time: 22:46  
 Peak Area (A-s): 0.102 Peak Height (A): 0.234  
 Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.059  
 Blank Corrected Pk Area (A-s): 0.099  
 Concentration (ug/L ): 32.1

Mean Conc (ug/L ): 30.6 SD: 2.09 RSD(%): 6.82

Recovery is 97.4%

~~~~~  
 Se ID: 7SM-JM4369 MTXS Seq. No.: 00078 A/S Pos.: 19 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 19  
 Replicate 1 (Peak Stored) Time: 22:49  
 Peak Area (A-s): 0.050 Peak Height (A): 0.115  
 Background Pk Area (A-s): 0.429 Background Pk Height (A): 0.133  
 Blank Corrected Pk Area (A-s): 0.047  
 Concentration (ug/L ): 15.1

uL dispensed: 5 from 39, 15 from 0, 25 from 19  
 Replicate 2 (Peak Stored) Time: 22:53  
 Peak Area (A-s): 0.060 Peak Height (A): 0.128  
 Background Pk Area (A-s): 0.427 Background Pk Height (A): 0.132  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 18.4

Mean Conc (ug/L ): 16.7 SD: 2.32 RSD(%): 13.88

~~~~~  
 Se ID: 7SD-JM4369 MTRR Seq. No.: 00079 A/S Pos.: 20 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 1 (Peak Stored) Time: 22:56  
 Peak Area (A-s): 0.052 Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.436 Background Pk Height (A): 0.135  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 15.6

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 2 (Peak Stored) Time: 22:59  
 Peak Area (A-s): 0.057 Peak Height (A): 0.118  
 Background Pk Area (A-s): 0.432 Background Pk Height (A): 0.136  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 17.2

Mean Conc (ug/L ): 16.4 SD: 1.15 RSD(%): 7.04

~~~~~  
 Se ID: 7XY-JM4369 S11D Seq. No.: 00080 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 21

~~~~~  
 Se ID: CCV-0793 Seq. No.: 00081 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 23:05  
 Peak Area (A-s): 0.092 Peak Height (A): 0.191

Background Pk Area (A-s): 0.072  
Blank Corrected Pk Area (A-s): 0.088  
Concentration (ug/L ): 28.7

Background Pk Height (A): 0.047

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.060  
Background Pk Area (A-s): 0.071  
Blank Corrected Pk Area (A-s): 0.057  
Concentration (ug/L ): 18.3

Time: 23:08  
Peak Height (A): 0.131  
Background Pk Height (A): 0.038

Mean Conc (ug/L ): 23.5

SD: 7.33

RSD(%): 31.17

*SB 3-16-94  
Automatic  
run*

Se ID: CCV-0793 Seq. No.: 00082 A/S Pos.: 38 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.093  
Background Pk Area (A-s): 0.074  
Blank Corrected Pk Area (A-s): 0.089  
Concentration (ug/L ): 29.0

Time: 23:12  
Peak Height (A): 0.188  
Background Pk Height (A): 0.053

uL dispensed: 5 from 39, 15 from 0, 25 from 38

*Adjusted autosampler tip and baked tube. SB 3-16-94*

Se ID: CCV-0793

Seq. No.: 00083

A/S Pos.: 38

Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.067  
Background Pk Area (A-s): 0.076  
Blank Corrected Pk Area (A-s): 0.064  
Concentration (ug/L ): 20.6

Time: 23:17  
Peak Height (A): 0.159  
Background Pk Height (A): 0.048

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.072  
Background Pk Area (A-s): 0.071  
Blank Corrected Pk Area (A-s): 0.069  
Concentration (ug/L ): 22.4

Time: 23:20  
Peak Height (A): 0.157  
Background Pk Height (A): 0.042

Mean Conc (ug/L ): 21.5

SD: 1.25

RSD(%): 5.82

QC sample is within range 21.1 - 25.8

Se ID: CCB

Seq. No.: 00084

A/S Pos.: 0

Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.058  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.7

Time: 23:23  
Peak Height (A): 0.014  
Background Pk Height (A): 0.023

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.053

Time: 23:26  
Peak Height (A): 0.013  
Background Pk Height (A): 0.023



Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.0

Mean Conc (ug/L ): -0.8 SD: 0.10 RSD(%): 12.51

QC sample is within range

Se ID: 7XX-JM4369 S11D Seq. No.: 00085 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
 Replicate 1 (Peak Stored) Time: 23:30  
 Peak Area (A-s): 0.008 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.131  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 1.2

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
 Replicate 2 (Peak Stored) Time: 23:33  
 Peak Area (A-s): 0.001 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.132  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.1

Mean Conc (ug/L ): 0.1 SD: 1.74 RSD(%): 1390.25

Se ID: 7XX-JM4369 S11D Seq. No.: 00086 A/S Pos.: 21 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 21  
 Replicate 1 (Peak Stored) Time: 23:37  
 Peak Area (A-s): 0.028 Peak Height (A): 0.059  
 Background Pk Area (A-s): 0.413 Background Pk Height (A): 0.134  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 7.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 21  
 Replicate 2 (Peak Stored) Time: 23:41  
 Peak Area (A-s): 0.028 Peak Height (A): 0.063  
 Background Pk Area (A-s): 0.413 Background Pk Height (A): 0.131  
 Blank Corrected Pk Area (A-s): 0.025  
 Concentration (ug/L ): 7.7

Mean Conc (ug/L ): 7.7 SD: 0.06 RSD(%): 0.73

Recovery is 75.8% (outside of specified limits)

Se ID: 7XX-JM4369 DUP Seq. No.: 00087 A/S Pos.: 22 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 1 (Peak Stored) Time: 23:44  
 Peak Area (A-s): 0.003 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.424 Background Pk Height (A): 0.136  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.6

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 2 (Peak Stored) Time: 23:48

Peak Area (A-s): 0.008  
 Background Pk Area (A-s): 0.422  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.0

Peak Height (A): 0.013  
 Background Pk Height (A): 0.142

Mean Conc (ug/L ): 0.2 Q SD: 1.18 RSD(%): 591.43

Se ID: 7XX-JM4369 DUP Seq. No.: 00088 A/S Pos.: 22 Date: 03/16/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 1 (Peak Stored) Time: 23:51  
 Peak Area (A-s): 0.020 Peak Height (A): 0.070  
 Background Pk Area (A-s): 0.433 Background Pk Height (A): 0.140  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 5.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 2 (Peak Stored) Time: 23:55  
 Peak Area (A-s): 0.019 Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.436 Background Pk Height (A): 0.138  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 4.7

Mean Conc (ug/L ): 4.9 SD: 0.22 RSD(%): 4.49

Recovery is 47.0% (outside of specified limits)

Se ID: 7XX-JM4363 SS43 Seq. No.: 00089 A/S Pos.: 23 Date: 03/16/94

uL dispensed: 5 from 39, 15 from 0, 25 from 23  
 Replicate 1 (Peak Stored) Time: 23:58  
 Peak Area (A-s): 0.005 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.399 Background Pk Height (A): 0.129  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 23  
 Replicate 2 (Peak Stored) Time: 00:02  
 Peak Area (A-s): 0.006 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.131  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.4

Mean Conc (ug/L ): 0.3 Q SD: 0.21 RSD(%): 67.77

Se ID: 7XX-JM4363 SS43 Seq. No.: 00090 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 23  
 Replicate 1 (Peak Stored) Time: 00:05  
 Peak Area (A-s): 0.030 Peak Height (A): 0.068  
 Background Pk Area (A-s): 0.407 Background Pk Height (A): 0.135  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 23  
 Replicate 2 (Peak Stored) Time: 00:09

Peak Area (A-s): 0.024 Peak Height (A): 0.075  
Background Pk Area (A-s): 0.402 Background Pk Height (A): 0.130  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.5

Mean Conc (ug/L ): 7.4 SD: 1.35 RSD(%): 18.09

Recovery is 71.4% (outside of specified limits)

S/S  
3-16-94  
Return

Se ID: 7XX-JM4363 SS43 Seq. No.: 00091 A/S Pos.: 23 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 23

Replicate 1 (Peak Stored) Time: 00:12  
Peak Area (A-s): 0.027 Peak Height (A): 0.076  
Background Pk Area (A-s): 0.411 Background Pk Height (A): 0.130  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 7.3

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 23

Replicate 2 (Peak Stored) Time: 00:16  
Peak Area (A-s): 0.029 Peak Height (A): 0.075  
Background Pk Area (A-s): 0.414 Background Pk Height (A): 0.136  
Blank Corrected Pk Area (A-s): 0.026  
Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 7.7 SD: 0.53 RSD(%): 6.84

Recovery is 73.9% (outside of specified limits)

Se ID: 7XX-JM4364 SS44 Seq. No.: 00092 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 24

Replicate 1 (Peak Stored) Time: 00:20  
Peak Area (A-s): -0.003 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.385 Background Pk Height (A): 0.126  
Blank Corrected Pk Area (A-s): -0.007  
Concentration (ug/L ): -2.6

uL dispensed: 5 from 39, 15 from 0, 25 from 24

Replicate 2 (Peak Stored) Time: 00:23  
Peak Area (A-s): 0.005 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.378 Background Pk Height (A): 0.123  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.1

Mean Conc (ug/L ): -1.2 Q SD: 1.92 RSD(%): 157.92

Se ID: 7XX-JM4364 SS44 Seq. No.: 00093 A/S Pos.: 24 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 24

Replicate 1 (Peak Stored) Time: 00:27  
Peak Area (A-s): 0.020 Peak Height (A): 0.067  
Background Pk Area (A-s): 0.776 Background Pk Height (A): 0.709  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 5.1

W

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 24  
 Replicate 2 (Peak Stored) Time: 00:31  
 Peak Area (A-s): 0.022 Peak Height (A): 0.069  
 Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.133  
 Blank Corrected Pk Area (A-s): 0.018  
 Concentration (ug/L ): 5.7

Mean Conc (ug/L ): 5.4 SD: 0.42 RSD(%): 7.73

Recovery is <sup>54.0%</sup>~~66.3%~~ (outside of specified limits)  
<sub>50.3, 16.44</sub>

Se ID: CCV-0793 Seq. No.: 00094 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 00:34  
 Peak Area (A-s): 0.075 Peak Height (A): 0.150  
 Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.042  
 Blank Corrected Pk Area (A-s): 0.072  
 Concentration (ug/L ): 23.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 00:38  
 Peak Area (A-s): 0.078 Peak Height (A): 0.156  
 Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.043  
 Blank Corrected Pk Area (A-s): 0.074  
 Concentration (ug/L ): 24.1

Mean Conc (ug/L ): 23.7 SD: 0.58 RSD(%): 2.46

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00095 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 00:41  
 Peak Area (A-s): 0.003 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 00:44  
 Peak Area (A-s): 0.001 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.1

Mean Conc (ug/L ): -0.8 SD: 0.38 RSD(%): 48.46

QC sample is within range

Se ID: 7XX-JM4365 SS45 Seq. No.: 00096 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 25  
 Replicate 1 (Peak Stored) Time: 00:48  
 Peak Area (A-s): 0.004 Peak Height (A): 0.013

W

Background Pk Area (A-s): 0.427 Background Pk Height (A): 0.138  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.0

uL dispensed: 5 from 39, 15 from 0, 25 from 25  
Replicate 2 (Peak Stored) Time: 00:51  
Peak Area (A-s): -0.002 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.438 Background Pk Height (A): 0.140  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -2.2

Mean Conc (ug/L ): -1.1Q SD: 1.54 RSD(%): 138.62

Se ID: 7XX-JM4365 SS45 Seq. No.: 00097 A/S Pos.: 25 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 25  
Replicate 1 (Peak Stored) Time: 00:55  
Peak Area (A-s): 0.021 Peak Height (A): 0.070  
Background Pk Area (A-s): 0.870 Background Pk Height (A): 0.752  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 25  
Replicate 2 (Peak Stored) Time: 00:58  
Peak Area (A-s): 0.024 Peak Height (A): 0.074  
Background Pk Area (A-s): 0.470 Background Pk Height (A): 0.152  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.4

Mean Conc (ug/L ): 5.9 SD: 0.75 RSD(%): 12.67

Recovery is <sup>59.0%</sup>~~70.3%~~ (outside of specified limits)  
<sub>3.16.94</sub>

Se ID: 7XX-JM4366 SS46 Seq. No.: 00098 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 26  
Replicate 1 (Peak Stored) Time: 01:02  
Peak Area (A-s): -0.002 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.475 Background Pk Height (A): 0.157  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.1

W

uL dispensed: 5 from 39, 15 from 0, 25 from 26  
Replicate 2 (Peak Stored) Time: 01:05  
Peak Area (A-s): -0.002 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.477 Background Pk Height (A): 0.156  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.1

Mean Conc (ug/L ): -2.1Q SD: 0.01 RSD(%): 0.62

Se ID: 7XX-JM4366 SS46 Seq. No.: 00099 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 26  
Replicate 1 (Peak Stored) Time: 01:09  
Peak Area (A-s): 0.022 Peak Height (A): 0.056

Background Pk Area (A-s): 0.477 Background Pk Height (A): 0.154  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 5.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 26  
Replicate 2 (Peak Stored) Time: 01:12  
Peak Area (A-s): 0.030 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.478 Background Pk Height (A): 0.155  
Blank Corrected Pk Area (A-s): 0.026  
Concentration (ug/L ): 8.3

Mean Conc (ug/L ): 7.1 SD: 1.80 RSD(%): 25.45

Recovery is 91.9%

SFB 3-16-94  
Automatic  
Error

Se ID: 7XX-JM4366 SS46 Seq. No.: 00100 A/S Pos.: 26 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 26  
Replicate 1 (Peak Stored) Time: 01:16  
Peak Area (A-s): 0.027 Peak Height (A): 0.059  
Background Pk Area (A-s): 0.992 Background Pk Height (A): 0.865  
Blank Corrected Pk Area (A-s): 0.024  
Concentration (ug/L ): 7.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 26  
Replicate 2 (Peak Stored) Time: 01:19  
Peak Area (A-s): 0.031 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.478 Background Pk Height (A): 0.159  
Blank Corrected Pk Area (A-s): 0.028  
Concentration (ug/L ): 8.8

Mean Conc (ug/L ): 8.1 SD: 1.00 RSD(%): 12.25

Recovery is ~~102.5%~~ 81.0%  
3-16-94

Se ID: 7XX-JM4367 DS10 Seq. No.: 00101 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 27  
Replicate 1 (Peak Stored) Time: 01:23  
Peak Area (A-s): 0.002 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.479 Background Pk Height (A): 0.160  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 27  
Replicate 2 (Peak Stored) Time: 01:26  
Peak Area (A-s): 0.007 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.470 Background Pk Height (A): 0.153  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.0

Mean Conc (ug/L ): 0.2 SD: 1.14 RSD(%): 736.13

Se ID: 7XX-JM4367 DS10 Seq. No.: 00102 A/S Pos.: 27 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 27

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.028  
Background Pk Area (A-s): 0.480  
Blank Corrected Pk Area (A-s): 0.024  
Concentration (ug/L ): 7.6

Time: 01:30  
Peak Height (A): 0.064  
Background Pk Height (A): 0.156

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 27

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.026  
Background Pk Area (A-s): 0.490  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 7.2

Time: 01:33  
Peak Height (A): 0.068  
Background Pk Height (A): 0.156

Mean Conc (ug/L ): 7.4 SD: 0.26 RSD(%): 3.55

Recovery is 72.6% (outside of specified limits)

-----  
Se ID: 7XX-JM4368 DS11 Seq. No.: 00103 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 28

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.470  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.1

Time: 01:36  
Peak Height (A): 0.012  
Background Pk Height (A): 0.147

uL dispensed: 5 from 39, 15 from 0, 25 from 28

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.451  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.2

Time: 01:40  
Peak Height (A): 0.017  
Background Pk Height (A): 0.150

Mean Conc (ug/L ): -0.6<sup>2</sup> SD: 0.65 RSD(%): 102.81

-----  
Se ID: 7XX-JM4368 DS11 Seq. No.: 00104 A/S Pos.: 28 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 28

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.023  
Background Pk Area (A-s): 0.458  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 6.1

Time: 01:43  
Peak Height (A): 0.071  
Background Pk Height (A): 0.150

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 28

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.025  
Background Pk Area (A-s): 0.465  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.7

Time: 01:47  
Peak Height (A): 0.070  
Background Pk Height (A): 0.153

Mean Conc (ug/L ): 6.4 SD: 0.37 RSD(%): 5.86

Recovery is ~~70.2%~~ <sup>64.07%</sup> (outside of specified limits)

64.07%

Se ID: CCV-0793 Seq. No.: 00106 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 01:51  
 Peak Area (A-s): 0.070 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.066  
 Concentration (ug/L ): 21.5

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 01:54  
 Peak Area (A-s): 0.090 Peak Height (A): 0.186  
 Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.050  
 Blank Corrected Pk Area (A-s): 0.087  
 Concentration (ug/L ): 28.1

Mean Conc (ug/L ): 24.8 SD: 4.69 RSD(%): 18.94

*Automatic  
 Return  
 50  
 3-16-94*

Se ID: CCV-0793 Seq. No.: 00107 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 01:58  
 Peak Area (A-s): 0.072 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.069  
 Concentration (ug/L ): 22.2

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 02:01  
 Peak Area (A-s): 0.070 Peak Height (A): 0.150  
 Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.047  
 Blank Corrected Pk Area (A-s): 0.067  
 Concentration (ug/L ): 21.7

Mean Conc (ug/L ): 21.9 SD: 0.36 RSD(%): 1.63

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00108 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 02:04  
 Peak Area (A-s): 0.005 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.3

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 02:08  
 Peak Area (A-s): 0.002 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.8

Mean Conc (ug/L ): -0.2 SD: 0.75 RSD(%): 336.50



QC sample is within range

Se ID: TCLP BLK 3948 Seq. No.: 00109 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 29  
 Replicate 1 (Peak Stored) Time: 02:11  
 Peak Area (A-s): -0.002 Peak Height (A): 0.032  
 Background Pk Area (A-s): 0.820 Background Pk Height (A): 0.684  
 Blank Corrected Pk Area (A-s): -0.006  
 Concentration (ug/L ): -2.3

uL dispensed: 5 from 39, 15 from 0, 25 from 29  
 Replicate 2 (Peak Stored) Time: 02:14  
 Peak Area (A-s): -0.003 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.419 Background Pk Height (A): 0.137  
 Blank Corrected Pk Area (A-s): -0.006  
 Concentration (ug/L ): -2.4

Mean Conc (ug/L ): -2.3 SD: 0.07 RSD(%): 2.96

Se ID: TCLP BLK 3948 Seq. No.: 00110 A/S Pos.: 29 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 29  
 Replicate 1 (Peak Stored) Time: 02:18  
 Peak Area (A-s): 0.026 Peak Height (A): 0.069  
 Background Pk Area (A-s): 0.875 Background Pk Height (A): 0.731  
 Blank Corrected Pk Area (A-s): 0.022  
 Concentration (ug/L ): 7.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 29  
 Replicate 2 (Peak Stored) Time: 02:21  
 Peak Area (A-s): 0.029 Peak Height (A): 0.066  
 Background Pk Area (A-s): 0.898 Background Pk Height (A): 0.784  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 7.5 SD: 0.75 RSD(%): 9.98

Recovery is 98.4%

Se ID: CCV-0793 Seq. No.: 00111 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 02:25  
 Peak Area (A-s): 0.071 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.068  
 Concentration (ug/L ): 21.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 02:28  
 Peak Area (A-s): 0.075 Peak Height (A): 0.162  
 Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.072  
 Concentration (ug/L ): 23.3

Mean Conc (ug/L ): 22.6 SD: 1.05 RSD(%): 4.63

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00112 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 02:31  
 Peak Area (A-s): 0.005 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 02:35  
 Peak Area (A-s): -0.003 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.006  
 Concentration (ug/L ): -2.4

Mean Conc (ug/L ): -1.2 SD: 1.74 RSD(%): 148.32

QC sample is within range

Se ID: PBW-Q1R3939 Seq. No.: 00113 A/S Pos.: 9 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 1 (Peak Stored) Time: 02:39  
 Peak Area (A-s): -0.002 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): -0.005  
 Concentration (ug/L ): -2.1

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 2 (Peak Stored) Time: 02:43  
 Peak Area (A-s): 0.004 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.164 Background Pk Height (A): 0.167  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.2

Mean Conc (ug/L ): -1.2 SD: 1.34 RSD(%): 113.44

Se ID: PBW-Q1R3939 Seq. No.: 00114 A/S Pos.: 9 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 1 (Peak Stored) Time: 02:46  
 Peak Area (A-s): 0.030 Peak Height (A): 0.064  
 Background Pk Area (A-s): 0.213 Background Pk Height (A): 0.247  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 2 (Peak Stored) Time: 02:50  
 Peak Area (A-s): 0.036 Peak Height (A): 0.082  
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.033

Concentration (ug/L ): 10.3

Mean Conc (ug/L ): 9.3 SD: 1.41

RSD(%): 15.06

Recovery is 105.3%

*Perin SB 2/16-94*

Se ID: PBW-Q1R3939 Seq. No.: 00115 A/S Pos.: 9 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 1 (Peak Stored) Time: 02:53  
Peak Area (A-s): 0.039 Peak Height (A): 0.085  
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 11.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 2 (Peak Stored) Time: 02:57  
Peak Area (A-s): 0.036 Peak Height (A): 0.086  
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 10.4

Mean Conc (ug/L ): 10.9 SD: 0.69 RSD(%): 6.30

*109.0% on 5/17/94*

Recovery is ~~120.9%~~ (outside of specified limits)

Se ID: 1XX-JM4645 OJ-7 Seq. No.: 00116 A/S Pos.: 16 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
Replicate 1 (Peak Stored) Time: 03:00  
Peak Area (A-s): 0.003 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.5 Corrected Conc (ug/L ): -2.

*W*

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
Replicate 2 (Peak Stored) Time: 03:03  
Peak Area (A-s): 0.004 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.2 Corrected Conc (ug/L ): -1.

Mean Conc (ug/L ): -0.4 SD: 0.20 RSD(%): 55.27  
Corrected Conc (ug/L ): -2.

Se ID: 1XX-JM4645 OJ-7 Seq. No.: 00117 A/S Pos.: 16 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
Replicate 1 (Peak Stored) Time: 03:07  
Peak Area (A-s): 0.026 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.056  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 6.9 Corrected Conc (ug/L ): 35.

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
Replicate 2 (Peak Stored) Time: 03:10

Peak Area (A-s): 0.026  
Background Pk Area (A-s): 0.103  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 7.2

Peak Height (A): 0.058  
Background Pk Height (A): 0.059  
Corrected Conc (ug/L ): 36.

Mean Conc (ug/L ): 7.0  
Corrected Conc (ug/L ): 35.

SD: 0.16 RSD(%): 2.24

Recovery is 74.0% (outside of specified limits)

Se ID: 1XX-JM4649 MW-1 Seq. No.: 00118 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.008  
Background Pk Area (A-s): 0.116  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.2

Time: 03:14  
Peak Height (A): 0.016  
Background Pk Height (A): 0.108  
Corrected Conc (ug/L ): 6.

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.082  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.7

Time: 03:17  
Peak Height (A): 0.013  
Background Pk Height (A): 0.043  
Corrected Conc (ug/L ): -3.

Mean Conc (ug/L ): 0.3  
Corrected Conc (ug/L ): 1.

SD: 1.34 RSD(%): 518.92

*SD 3-16-94  
NO POSTSPIKE  
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Se ID: 1XX-JM4651 MW-2 Seq. No.: 00119 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.117  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.8

Time: 03:21  
Peak Height (A): 0.017  
Background Pk Height (A): 0.056  
Corrected Conc (ug/L ): -4.

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.009  
Background Pk Area (A-s): 0.120  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 1.5

Time: 03:24  
Peak Height (A): 0.021  
Background Pk Height (A): 0.052  
Corrected Conc (ug/L ): 7.

Mean Conc (ug/L ): 0.4  
Corrected Conc (ug/L ): 2.

SD: 1.59 RSD(%): 448.92

*W*

Se ID: 1XX-JM4651 MW-2 Seq. No.: 00120 A/S Pos.: 21 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 21  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.022  
Background Pk Area (A-s): 0.134  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.6

Time: 03:28  
Peak Height (A): 0.069  
Background Pk Height (A): 0.062  
Corrected Conc (ug/L ): 28.

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 21  
 Replicate 2 (Peak Stored) Time: 03:31  
 Peak Area (A-s): 0.025 Peak Height (A): 0.064  
 Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.064  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 6.6 Corrected Conc (ug/L ): 33.

Mean Conc (ug/L ): 6.1 SD: 0.69 RSD(%): 11.19  
 Corrected Conc (ug/L ): 31.

Recovery is 57.8% (outside of specified limits)

Se ID: CCV-0793 Seq. No.: 00121 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Se ID: 1XX-JM4649 MW-1 Seq. No.: 00122 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 1 (Peak Stored) Time: 03:39  
 Peak Area (A-s): 0.001 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.043  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.1 Corrected Conc (ug/L ): -5.

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 2 (Peak Stored) Time: 03:43  
 Peak Area (A-s): 0.004 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -0.1 Corrected Conc (ug/L ): -1.

Mean Conc (ug/L ): -0.6 SD: 0.68 RSD(%): 111.12  
 Corrected Conc (ug/L ): -3.

Se ID: 1XX-JM4649 MW-1 Seq. No.: 00123 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 20  
 Replicate 1 (Peak Stored) Time: 03:46  
 Peak Area (A-s): 0.034 Peak Height (A): 0.077  
 Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.046  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 9.6 Corrected Conc (ug/L ): 48.

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 20  
 Replicate 2 (Peak Stored) Time: 03:50  
 Peak Area (A-s): 0.027 Peak Height (A): 0.081  
 Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 7.5 Corrected Conc (ug/L ): 38.

Mean Conc (ug/L ): 8.6 SD: 1.46 RSD(%): 16.98  
 Corrected Conc (ug/L ): 43.

Recovery is ~~92.0%~~ 56.0%  
 50  
 3-16-94

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 automatic  
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Se ID: 1XX-JM4649 MW-1 Seq. No.: 00124 A/S Pos.: 20 Date: 03/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 20  
Replicate 1 (Peak Stored) Time: 03:53  
Peak Area (A-s): 0.028 Peak Height (A): 0.077  
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.047  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 7.9 Corrected Conc (ug/L ): 39.

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 20  
Replicate 2 (Peak Stored) Time: 03:57  
Peak Area (A-s): 0.025 Peak Height (A): 0.068  
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 6.8 Corrected Conc (ug/L ): 34.

Mean Conc (ug/L ): 7.4 SD: 0.74 RSD(%): 10.02  
Corrected Conc (ug/L ): 37.

Recovery is 79.9% (outside of specified limits)

Se ID: CCV-0793 Seq. No.: 00125 A/S Pos.: 38 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored) Time: 04:00  
Peak Area (A-s): 0.073 Peak Height (A): 0.161  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 22.7

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 04:04  
Peak Area (A-s): 0.069 Peak Height (A): 0.153  
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.066  
Concentration (ug/L ): 21.4

Mean Conc (ug/L ): 22.0 SD: 0.92 RSD(%): 4.16

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00126 A/S Pos.: 0 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored) Time: 04:07  
Peak Area (A-s): 0.004 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 04:10  
Peak Area (A-s): 0.007 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.0

Mean Conc (ug/L ): 0.4 SD: 0.82 RSD(%): 209.44

QC sample is within range

Se ID: CRA-0795 Seq. No.: 00127 A/S Pos.: 36 Date: 03/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
Replicate 1 (Peak Stored) Time: 04:14  
Peak Area (A-s): 0.021 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.219  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 5.4

uL dispensed: 5 from 39, 15 from 0, 25 from 36  
Replicate 2 (Peak Stored) Time: 04:17  
Peak Area (A-s): 0.024 Peak Height (A): 0.043  
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 6.4

Mean Conc (ug/L ): 5.9 SD: 0.66 RSD(%): 11.15

QC sample is within range 3.81 - 6.35

08:55:10 17 Mar 1994

Folder: hg031794  
Protocol: aschg

Page 1

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Standard: 1 Rep: 1				Seq: 1		08:55:10 17 Mar 1994	HG	
Hg	.000	ppb	534					
			Ave. Int. =	534	S. D. =	0		
*** Standard: 1 Rep: 2				Seq: 2		08:58:33 17 Mar 1994	HG	
Hg	.000	ppb	766					
			Ave. Int. =	766	S. D. =	0		
*** Standard: 1 Rep: 3				Seq: 3		09:01:56 17 Mar 1994	HG	
Hg	.000	ppb	124					
			Ave. Int. =	124	S. D. =	0		
*** Standard: 2 Rep: 1				Seq: 4		09:05:22 17 Mar 1994	HG	
Hg	.200	ppb	4672					
			Ave. Int. =	4672	S. D. =	0		
*** Standard: 2 Rep: 2				Seq: 5		09:08:45 17 Mar 1994	HG	
Hg	.200	ppb	4891					
			Ave. Int. =	4891	S. D. =	0		
*** Standard: 2 Rep: 3				Seq: 6		09:12:08 17 Mar 1994	HG	
Hg	.200	ppb	4643					
			Ave. Int. =	4643	S. D. =	0		
*** Standard: 3 Rep: 1				Seq: 7		09:15:31 17 Mar 1994	HG	
Hg	.500	ppb	10353					
			Ave. Int. =	10353	S. D. =	0		
*** Standard: 3 Rep: 2				Seq: 8		09:18:55 17 Mar 1994	HG	
Hg	.500	ppb	10979					
			Ave. Int. =	10979	S. D. =	0		
*** Standard: 3 Rep: 3				Seq: 9		09:22:19 17 Mar 1994	HG	
Hg	.500	ppb	10484					
			Ave. Int. =	10484	S. D. =	0		



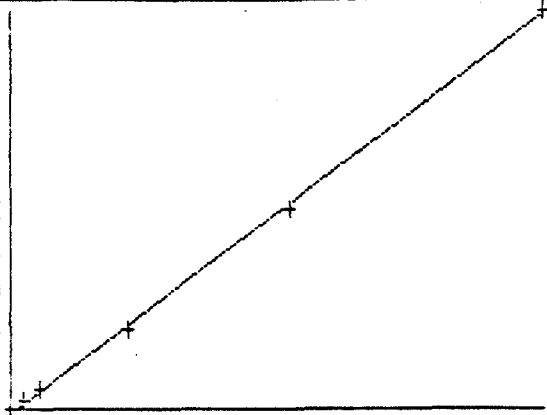
09:25:42 17 Mar 1994

Folder: hg031794  
Protocol: aschg

Page 2

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Standard: 4 Rep: 1				Seq: 10			09:25:42 17 Mar 1994	HG
Hg	2.00	ppb	40358					
			Ave. Int. =	40358	S. D. =		0	
*** Standard: 4 Rep: 2				Seq: 11			09:29:06 17 Mar 1994	HG
Hg	2.00	ppb	41127					
			Ave. Int. =	41127	S. D. =		0	
*** Standard: 4 Rep: 3				Seq: 12			09:32:29 17 Mar 1994	HG
Hg	2.00	ppb	41286					
			Ave. Int. =	41286	S. D. =		0	
*** Standard: 5 Rep: 1				Seq: 13			09:35:52 17 Mar 1994	HG
Hg	5.00	ppb	98049					
			Ave. Int. =	98049	S. D. =		0	
*** Standard: 5 Rep: 2				Seq: 14			09:39:15 17 Mar 1994	HG
Hg	5.00	ppb	96902					
			Ave. Int. =	96902	S. D. =		0	
*** Standard: 5 Rep: 3				Seq: 15			09:42:37 17 Mar 1994	HG
Hg	5.00	ppb	96599					
			Ave. Int. =	96599	S. D. =		0	
*** Standard: 6 Rep: 1				Seq: 16			09:46:00 17 Mar 1994	HG
Hg	10.0	ppb	194300					
			Ave. Int. =	194300	S. D. =		0	
*** Standard: 6 Rep: 2				Seq: 17			09:49:26 17 Mar 1994	HG
Hg	10.0	ppb	184360					
			Ave. Int. =	184360	S. D. =		0	
*** Standard: 6 Rep: 3				Seq: 18			09:52:51 17 Mar 1994	HG
Hg	10.0	ppb	178545					
			Ave. Int. =	178545	S. D. =		0	

Protocol: aschg		Rev: 2.000	Time: 09:53:01	17 Mar 1994	
Folder: hg031794	Seq: 19	Print: On			
User:	Batch:	Id: Std6Rep3	Cup:	Gas: 0.30 LPM	
State: Idle	Macro ASCCLP	109 : F3 Print	Xmit: Off	Autosampler: On	
CALIBRATION: Line Calibration					
Line: Hg				Accepted	
	Conc.	Calc.	Dev.	LiNear	
S1	.000	-.075	-.075	Quadratic	
S2	.200	.155	-.046	WtdLinear	
S3	.500	.471	-.029		C
S4	2.00	2.10	.105	Accept	o
S5	5.00	5.14	.136		n
S6	10.0	9.91	-.091	StdAdd	c
A	.0000000	r	.999638		
B	5.36696e-5	C	-1.00660e-1		
	Mean	%RSD		Relative Absorbance	
S1	474	68.49	534	766	124
S2	4735	2.86	4672	4891	4643
S3	10605	3.11	10353	10979	10484
S4	48923	1.21	40358	41127	41286
S5	97183	0.79	90049	96902	96599
S6	185735	4.29	194300	184360	178545
New cal coefficients stored					



09:56:16 17 Mar 1994

Folder: hg031794  
Protocol: aschg

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
***	Check Standard:	1	Ck1		Seq: 19		09:56:16 17 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD		
Hg	L	-.555	.200	ppb		.000		
***	Check Standard:	1	Ck1		Seq: 20		10:01:18 17 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD		
Hg	L	-.222	.200	ppb		.000		
***	Check Standard:	2	Ck2		Seq: 21		10:04:40 17 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units		SD/RSD	
Hg		107.	5.36	5.00	ppb		.000	
***	Check Standard:	3	Ck3		Seq: 22		10:08:02 17 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units		SD/RSD	
Hg		1.59	.003	.200	ppb		.000	
***	Check Standard:	3	Ck3		Seq: 23		10:11:32 17 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units		SD/RSD	
Hg		48.9	.098	.200	ppb		.000	
***	Check Standard:	3	Ck3		Seq: 24		10:16:28 17 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units		SD/RSD	
Hg		76.4	.153	.200	ppb		.000	
***	Sample ID:	Q1G3961G			Seq: 25		10:19:48 17 Mar 1994	HG
				MET BLANK				
Hg		-.162	ppb	.000		-.162		
***	Sample ID:	Q1G3961GS			Seq: 26		10:23:06 17 Mar 1994	HG
				MET SPIKE				
Hg		1.95	ppb	.000		1.95		
***	Sample ID:	JM4781GS			Seq: 27		10:26:25 17 Mar 1994	HG
				MTX SPIKE				
Hg		2.50	ppb	.000		2.50		
***	Sample ID:	JM4781GR			Seq: 28		10:29:44 17 Mar 1994	HG
				MTX SPIKE DUP				
Hg		2.40	ppb	.000		2.40		
***	Sample ID:	JM4781			Seq: 29		10:33:02 17 Mar 1994	HG
				15226N-CLJDWW03				
Hg		.500	ppb	.000		.500		
***	Sample ID:	JM4781			Seq: 30		10:36:24 17 Mar 1994	HG
				15226N-CLJDWW03				
Hg		.667	ppb	.000		.667		

10:39:44 17 Mar 1994

Folder: hg031794  
Protocol: aschy

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Check Standard: 1	Ck1			Seq: 31			10:39:44 17 Mar 1994	HG
Line Flag	Found	Range(+/-)	Units	SD/RSD				
Hg	-.146	.200	ppb	.000				
*** Check Standard: 2	Ck2			Seq: 32			10:43:05 17 Mar 1994	HG
Line Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg	111.	5.56	5.00	ppb	.000			
*** Sample ID: N7G3944R				Seq: 33			10:46:26 17 Mar 1994	HG
			MET BLANK					
Hg	-.176	ppb	.000	-.176				
*** Sample ID: N7G3944R				Seq: 34			10:49:45 17 Mar 1994	HG
			MET SPIKE					
Hg	2.03	ppb	.000	2.03				
*** Sample ID: JM4362GS				Seq: 35			10:53:04 17 Mar 1994	HG
			MTX SPIKE					
Hg	1.86	ppb	.000	1.86				
*** Sample ID: JM4362GR				Seq: 36			10:56:22 17 Mar 1994	HG
			MTX SPIKE DUP					
Hg	1.97	ppb	.000	1.97				
*** Sample ID: JM4362G				Seq: 37			10:59:43 17 Mar 1994	HG
			Q5226N-CLJCSS42					
Hg	-.120	ppb	.000	-.120				
*** Sample ID: JM4362				Seq: 38			11:03:02 17 Mar 1994	HG
			REPLICATE					
Hg	-.063	ppb	.000	-.063				
*** Sample ID: JM4353				Seq: 39			11:06:19 17 Mar 1994	HG
			CLJCSS33					
Hg	-.102	ppb	.000	-.102				
*** Sample ID: JM4354				Seq: 40			11:09:36 17 Mar 1994	HG
			CLJCSS34					
Hg	-.139	ppb	.000	-.139				
*** Sample ID: JM4355				Seq: 41			11:12:56 17 Mar 1994	HG
			CLJCSS35					
Hg	-.098	ppb	.000	-.098				
*** Check Standard: 1	Ck1			Seq: 42			11:18:24 17 Mar 1994	HG
Line Flag	Found	Range(+/-)	Units	SD/RSD				
Hg	-.119	.200	ppb	.000				

11:21:53 17 Mar 1994

Folder: hg031794  
Protocol: aschg

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
***	Check Standard: 2	Ck2		Seq: 43			11:21:53 17 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		112.	5.60	5.00	ppb	.000		
***	Sample ID: JM4356			Seq: 44			11:25:29 17 Mar 1994	HG
Hg	-.090	ppb	.000	-.090				
***	Sample ID: JM4357			Seq: 45			11:28:45 17 Mar 1994	HG
Hg	-.075	ppb	.000	-.075				
***	Sample ID: JM4358			Seq: 46			11:32:01 17 Mar 1994	HG
Hg	-.093	ppb	.000	-.093				
***	Sample ID: JM4359			Seq: 47			11:35:18 17 Mar 1994	HG
Hg	-.080	ppb	.000	-.080				
***	Sample ID: JM4360			Seq: 48			11:38:36 17 Mar 1994	HG
Hg	.050	ppb	.000	.050				
***	Sample ID: JM4361			Seq: 49			11:41:55 17 Mar 1994	HG
Hg	-.094	ppb	.000	-.094				
***	Sample ID: TCLP BLANK			Seq: 50			11:45:11 17 Mar 1994	HG
Hg	-.089	ppb	.000	-.089				
***	Sample ID: Q7G3952G			Seq: 51			11:48:27 17 Mar 1994	HG
Hg	-.146	ppb	.000	-.146				
***	Sample ID: Q7G3952GS			Seq: 52			11:51:42 17 Mar 1994	HG
Hg	1.94	ppb	.000	1.94				
***	Sample ID: JM4643GS			Seq: 53			11:54:57 17 Mar 1994	HG
Hg	1.94	ppb	.000	1.94				
***	Check Standard: 1	Ck1		Seq: 54			11:58:15 17 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.149	.200	ppb	.000			

12:01:37 17 Mar 1994

Folder: hg031794  
Protocol: aschq

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Check Standard: 2	Ck2			Seq: 55				12:01:37 17 Mar 1994 HG
Line Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg	109.	5.43	5.00	ppb	.000			
*** Sample ID: JM4643GR				Seq: 56				12:04:55 17 Mar 1994 HG
			MTX SPIKE DUP					
Hg	1.95	ppb	.000	1.95				
*** Sample ID: JM4643				Seq: 57				12:08:10 17 Mar 1994 HG
			15314-TRENCH40					
Hg	-.162	ppb	.000	-.162				
*** Sample ID: JM4643				Seq: 58				12:11:25 17 Mar 1994 HG
			REPLICATE					
Hg	-.118	ppb	.000	-.118				
*** Sample ID: JM4455				Seq: 59				12:14:40 17 Mar 1994 HG
			15171C-0711SB1					
Hg	-.099	ppb	.000	-.099				
*** Sample ID: JM4456				Seq: 60				12:17:55 17 Mar 1994 HG
			0711SB2					
Hg	-.087	ppb	.000	-.087				
*** Sample ID: JM4457				Seq: 61				12:21:11 17 Mar 1994 HG
			0711SB3					
Hg	-.108	ppb	.000	-.108				
*** Sample ID: JM4459				Seq: 62				12:24:26 17 Mar 1994 HG
			0750SB-A					
Hg	-.073	ppb	.000	-.073				
*** Sample ID: JM4460				Seq: 63				12:27:43 17 Mar 1994 HG
			0750SB-B					
Hg	-.087	ppb	.000	-.087				
*** Sample ID: JM4639				Seq: 64				12:31:00 17 Mar 1994 HG
			15314-TRENCH 5					
Hg	-.094	ppb	.000	-.094				
*** Sample ID: JM4640				Seq: 65				12:34:15 17 Mar 1994 HG
			TRENCH 9					
Hg	-.104	ppb	.000	-.104				
*** Check Standard: 1	Ck1			Seq: 66				12:37:33 17 Mar 1994 HG
Line Flag	Found	Range(+/-)	Units	SD/RSD				
Hg	-.107	.200	ppb	.000				

12:40:53 17 Mar 1994

Folder: hg031794

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Protocol: aschg

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck2								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		109.	5.46	5.00	ppb	.000		
Seq: 67 12:40:53 17 Mar 1994 HG								
*** Sample ID: JM4641								
TRENCH 14								
Hg		-.157	ppb	.000	-.157			
Seq: 68 12:44:12 17 Mar 1994 HG								
*** Sample ID: JM4642								
TRENCH 26								
Hg		-.136	ppb	.000	-.136			
Seq: 69 12:47:27 17 Mar 1994 HG								
*** Sample ID: TCLP BLANK								
Hg		-.048	ppb	.000	-.048			
Seq: 70 12:50:43 17 Mar 1994 HG								
*** Check Standard: 1 Ck1								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.108	.200	ppb	.000			
Seq: 71 12:54:02 17 Mar 1994 HG								
*** Check Standard: 2 Ck2								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		108.	5.38	5.00	ppb	.000		
Seq: 72 12:57:24 17 Mar 1994 HG								
*** Check Standard: 3 Ck3								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		56.6	.113	.200	ppb	.000		
Seq: 73 13:08:40 17 Mar 1994 HG								
*** Check Standard: 3 Ck3								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		119.	.237	.200	ppb	.000		
Seq: 74 13:12:02 17 Mar 1994 HG								

NOT in This SDG  
 AWS  
 3/29/94

*** Standard: 1 Rep: 1	Seq: 1	13:27:51 15 Mar 1994 HG
Hg .000 ppb	-284	
Ave. Int. =	-284 S. D. =	0
*** Standard: 1 Rep: 2	Seq: 2	13:31:14 15 Mar 1994 HG
Hg .000 ppb	-324	
Ave. Int. =	-324 S. D. =	0
*** Standard: 1 Rep: 3	Seq: 3	13:34:36 15 Mar 1994 HG
Hg .000 ppb	-436	
Ave. Int. =	-436 S. D. =	0
*** Standard: 2 Rep: 1	Seq: 4	13:37:58 15 Mar 1994 HG
Hg .200 ppb	2042	
Ave. Int. =	2042 S. D. =	0
*** Standard: 2 Rep: 2	Seq: 5	13:41:21 15 Mar 1994 HG
Hg .200 ppb	1755	
Ave. Int. =	1755 S. D. =	0



13:44:43 15 Mar 1994

Folder: HG031594

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Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Standard: 2 Rep: 3				Seq: 6			13:44:43 15 Mar 1994	HG
Hg	.200	ppb	2264					
			Ave. Int. =	2264	S. D. =	0		
*** Standard: 3 Rep: 1				Seq: 7			13:48:05 15 Mar 1994	HG
Hg	.500	ppb	4215					
			Ave. Int. =	4215	S. D. =	0		
*** Standard: 3 Rep: 2				Seq: 8			13:51:28 15 Mar 1994	HG
Hg	.500	ppb	4140					
			Ave. Int. =	4140	S. D. =	0		
*** Standard: 3 Rep: 3				Seq: 9			13:54:50 15 Mar 1994	HG
Hg	.500	ppb	3933					
			Ave. Int. =	3933	S. D. =	0		
*** Standard: 4 Rep: 1				Seq: 10			13:58:13 15 Mar 1994	HG
Hg	2.00	ppb	22720					
			Ave. Int. =	22720	S. D. =	0		
*** Standard: 4 Rep: 2				Seq: 11			14:01:35 15 Mar 1994	HG
Hg	2.00	ppb	21688					
			Ave. Int. =	21688	S. D. =	0		
*** Standard: 4 Rep: 3				Seq: 12			14:04:58 15 Mar 1994	HG
Hg	2.00	ppb	21779					
			Ave. Int. =	21779	S. D. =	0		
*** Standard: 5 Rep: 1				Seq: 13			14:08:20 15 Mar 1994	HG
Hg	5.00	ppb	57067					
			Ave. Int. =	57067	S. D. =	0		
*** Standard: 5 Rep: 2				Seq: 14			14:11:42 15 Mar 1994	HG
Hg	5.00	ppb	56597					
			Ave. Int. =	56597	S. D. =	0		

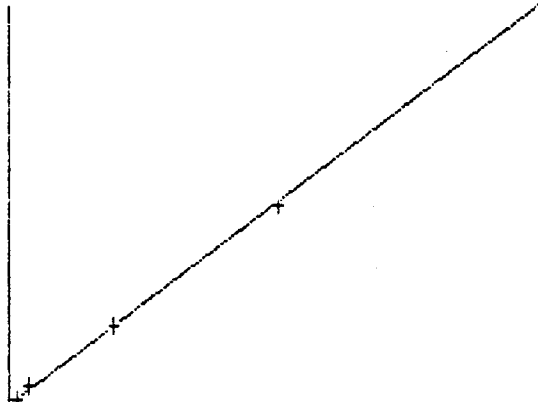
14:15:08 15 Mar 1994

Folder: HG031594  
Protocol: ASCHG

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Standard: 5 Rep: 3				Seq: 15			14:15:08 15 Mar 1994	HG
Hg	5.00	ppb	56108					
			Ave. Int. =	56108	S. D. =	0		
*** Standard: 6 Rep: 1				Seq: 16			14:18:30 15 Mar 1994	HG
Hg	10.0	ppb	112170					
			Ave. Int. =	112170	S. D. =	0		
*** Standard: 6 Rep: 2				Seq: 17			14:21:58 15 Mar 1994	HG
Hg	10.0	ppb	111267					
			Ave. Int. =	111267	S. D. =	0		
*** Standard: 6 Rep: 3				Seq: 18			14:25:25 15 Mar 1994	HG
Hg	10.0	ppb	111348					
			Ave. Int. =	111348	S. D. =	0		

Protocol: ASCHG		Rev: 2.008	Time: 14:25:35	15 Mar 1994
Folder: HC831594	Seq: 19	Print: On		
User:	Batch:	Id: Std6Rep3	Cup: 1 13 Gas:	0.30 LPM
State: Idle	Macro ASCCLP	109 : F3 Print	Xmit: Off	Autosampler: On
CALIBRATION: Line Calibration				
Line: Hg				Accepted
	Conc.	Calc.	Dev.	LiNear
S1	.000	.016	.016	Quadratic
S2	.200	.227	.027	WtdLinear
S3	.500	.411	-.089	C
S4	2.00	2.81	.807	Accept
S5	5.00	5.00	.076	n
S6	10.0	9.96	-.037	StdAdd
A	.0000000	r	.999896	c
B	8.88563e-5	C	4.71200e-2	
	Mean	%RSD		
S1	-348	-22.64	-284	-324 -436
S2	2828	12.63	2842	1755 2264
S3	4096	3.57	4215	4148 3933
S4	22862	2.59	22720	21688 21779
S5	56598	0.85	57067	56597 56100
S6	111595	0.45	112170	111267 111348
New cal coefficients stored				



14:28:47 15 Mar 1994

Folder: HG031594  
Protocol: ASCHG

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

---

\*\*\* Check Standard: 1 Ck1 Seq: 19 14:28:47 15 Mar 1994 HG  
Line Flag Found Range(+/-) Units SD/RSD  
Hg -.140 .200 ppb .000

\*\*\* Check Standard: 2 Ck2 Seq: 20 14:32:07 15 Mar 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
~~Hg L .328 .016 5.00 ppb .000~~ *No Sample in position SB 3-15-94*

\*\*\* Check Standard: 2 Ck2 Seq: 21 14:35:27 15 Mar 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
~~Hg H 134. 6.69 5.00 ppb .000~~ *Rerun ↓ SB 3-15-94*

\*\*\* Check Standard: 2 Ck2 Seq: 22 14:39:21 15 Mar 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
Hg 99.0 4.95 5.00 ppb .000

\*\*\* Check Standard: 3 Ck3 Seq: 23 14:42:43 15 Mar 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
Hg 77.3 .155 .200 ppb .000

14:58:53 15 Mar 1994

Folder: HG031594  
Protocol: ASCHG

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
***	Sample ID: N7G3944G			Seq: 24			14:58:53 15 Mar 1994	HG
			MET BLK					
Hg	.009	ppb	.000	.009				
***	Sample ID: N7G3944GS			Seq: 25			15:02:11 15 Mar 1994	HG
			MET SPK					
Hg	<del>2.52</del>	ppb	<del>.000</del>	<del>2.52</del>				
***	Sample ID: N7G3944GS			Seq: 26			15:05:29 15 Mar 1994	HG
			MET SPK					
Hg	2.53	ppb	.000	2.53				
***	Sample ID: N7G3944GS			Seq: 27			15:08:47 15 Mar 1994	HG
			MET SPK					
Hg	1.65	ppb	.000	1.65				
***	Sample ID: N7G3944GS			Seq: 28			15:12:05 15 Mar 1994	HG
			MET SPK					
Hg	<del>2.58</del>	ppb	<del>.000</del>	<del>2.58</del>				
***	Sample ID: N7G3944GS			Seq: 29			15:16:19 15 Mar 1994	HG
			MET SPK					
Hg	1.77	ppb	.000	1.77				
***	Sample ID: JM4362GS			Seq: 30			15:19:37 15 Mar 1994	HG
			MTX SPK					
Hg	2.29	ppb	.000	2.29				
***	Sample ID: JM4362GR			Seq: 31			15:22:55 15 Mar 1994	HG
			MTX SPK REP					
Hg	2.40	ppb	.000	2.40				
***	Sample ID: JM4362G			Seq: 32			15:26:13 15 Mar 1994	HG
			CLJ-CSS-42					
Hg	-.004	ppb	.000	-.004				
***	Sample ID: JM4362GG			Seq: 33			15:29:31 15 Mar 1994	HG
			DUPLICATE					
Hg	.011	ppb	.000	.011				
***	Sample ID: JM4353G			Seq: 34			15:32:49 15 Mar 1994	HG
			CLJ-CSS-33					
Hg	.040	ppb	.000	.040				
***	Sample ID: JM4354G			Seq: 35			15:36:07 15 Mar 1994	HG
			CLJ-CSS-34					
Hg	.010	ppb	.000	.010				

SB  
3-15-94

Re Ran Sample on 3/17/94  
NW  
3/29/94

15:39:25 15 Mar 1994

Folder: HG031594

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Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Sample ID: JM4355G					Seq: 36		15:39:25 15 Mar 1994	HG
								CLJ-CSS-35
Hg	.033	ppb	.000	.033				
*** Sample ID: JM4356G					Seq: 37		15:42:43 15 Mar 1994	HG
								CLJ-CSS-36
Hg	.031	ppb	.000	.031				
*** Sample ID: JM4357G					Seq: 38		15:46:01 15 Mar 1994	HG
								CLJ-CSS-37
Hg	.060	ppb	.000	.060				
*** Check Standard: 1 Ck1					Seq: 39		15:49:20 15 Mar 1994	HG
Line Flag	Found	Range(+/-)	Units		SD/RSD			
Hg	.007	.200	ppb	.000				
*** Check Standard: 2 Ck2					Seq: 40		15:52:42 15 Mar 1994	HG
Line Flag	%Rcv.	Found	True	Units		SD/RSD		
Hg	91.6	4.58	5.00	ppb		.000		
*** Sample ID: JM4358G					Seq: 41		15:56:00 15 Mar 1994	HG
								CLJ-CSS-38
Hg	-.029	ppb	.000	-.029				
*** Sample ID: JM4359G					Seq: 42		15:59:16 15 Mar 1994	HG
								CLJ-CSS-39
Hg	.034	ppb	.000	.034				
*** Sample ID: JM4360G					Seq: 43		16:02:33 15 Mar 1994	HG
								CLJ-CSS-40
Hg	.038	ppb	.000	.038				
*** Sample ID: JM4361G					Seq: 44		16:05:49 15 Mar 1994	HG
								CLJ-CSS-41
Hg	.050	ppb	.000	.050				
*** Sample ID: TCLP BLK					Seq: 45		16:09:05 15 Mar 1994	HG
								N7G3944
Hg	.049	ppb	.000	.049				
*** Sample ID: N7G3947G					Seq: 46		16:12:21 15 Mar 1994	HG
								MET BLK
Hg	.022	ppb	.000	.022				
*** Sample ID: N7G3947GS					Seq: 47		16:15:37 15 Mar 1994	HG
								MET SPK
Hg	1.46	ppb	.000	1.46				

*Retran samples on 3/17/94  
NIS  
3/29/94*

*Retran samples on 3/17/94  
NIS  
3/29/94*

*Retran ↓ 3-15-94*



17:11:27 15 Mar 1994

Folder: HG031594

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Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
***	Sample ID: JM4367G				Seq: 60		17:11:27 15 Mar 1994	HG
				CLJ-DS-10				
Hg	.108	ppb	.000	.108				
***	Check Standard: 1 Ck1				Seq: 61		17:14:44 15 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.021	.200	ppb	.000			
***	Check Standard: 2 Ck2				Seq: 62		17:18:04 15 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	5.16	5.00	ppb	.000		
***	Sample ID: JM4368G				Seq: 63		17:21:22 15 Mar 1994	HG
				CLJ-DS-11				
Hg	.024	ppb	.000	.024				
***	Sample ID: TCLP BLK				Seq: 64		17:24:37 15 Mar 1994	HG
				N7G3947				
Hg	.062	ppb	.000	.062				
***	Sample ID: Q7G3935G				Seq: 65		17:27:52 15 Mar 1994	HG
				MET BLK				
Hg	.013	ppb	.000	.013				
***	Sample ID: Q7G3935GS				Seq: 66		17:31:07 15 Mar 1994	HG
				MET SPK				
Hg	1.75	ppb	.000	1.75				
***	Sample ID: JM4391GS				Seq: 67		17:34:23 15 Mar 1994	HG
				MTX SPK				
Hg	2.43	ppb	.000	2.43				
***	Sample ID: JM4391GR				Seq: 68		17:37:39 15 Mar 1994	HG
				MTX SPK REP				
Hg	2.31	ppb	.000	2.31				
***	Sample ID: JM4391G				Seq: 69		17:40:55 15 Mar 1994	HG
				Q766SB4				
Hg	.042	ppb	.000	.042				
***	Sample ID: JM4391GG				Seq: 70		17:44:10 15 Mar 1994	HG
				DUPLICATE				
Hg	.067	ppb	.000	.067				
***	Sample ID: JM4296G				Seq: 71		17:47:26 15 Mar 1994	HG
				DA-826				
Hg	.074	ppb	.000	.074				



17:50:42 15 Mar 1994

Folder: HG031594

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Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
***	Sample ID:	JM4297G		Seq:	72	17:50:42	15 Mar 1994	HG
			DA-827					
Hg	.074	ppb	.000	.074				
***	Check Standard:	1 Ck1		Seq:	73	17:54:00	15 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.011	.200	ppb	.000			
***	Check Standard:	2 Ck2		Seq:	74	17:57:20	15 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	5.17	5.00	ppb	.000		
***	Sample ID:	JM4298G		Seq:	75	18:00:38	15 Mar 1994	HG
			DA-828					
Hg	.231	ppb	.000	.231				
***	Sample ID:	JM4510G		Seq:	76	18:03:54	15 Mar 1994	HG
			11135					
Hg	-.093	ppb	.000	-.093				
***	Sample ID:	JM4388G		Seq:	77	18:07:10	15 Mar 1994	HG
			0766SB1					
Hg	.053	ppb	.000	.053				
***	Sample ID:	JM4389G		Seq:	78	18:10:26	15 Mar 1994	HG
			0766SB2					
Hg	.074	ppb	.000	.074				
***	Sample ID:	JM4390G		Seq:	79	18:13:42	15 Mar 1994	HG
			0766SB3					
Hg	.122	ppb	.000	.122				
***	Sample ID:	TCLP BLK		Seq:	80	18:16:58	15 Mar 1994	HG
			Q7G3935					
Hg	.050	ppb	.000	.050				
***	Check Standard:	1 Ck1		Seq:	81	18:20:16	15 Mar 1994	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.001	.200	ppb	.000			
***	Check Standard:	2 Ck2		Seq:	82	18:23:36	15 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		104.	5.19	5.00	ppb	.000		
***	Check Standard:	3 Ck3		Seq:	83	18:26:56	15 Mar 1994	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		122.	.243	.200	ppb	.000		

# COVER PAGE CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA SDG #: CLF-<sup>NA</sup>333

DW No.: \_\_\_\_\_

**EPA Sample No.**

**Lab Sample ID.**

CLJ-CSS-33

JM4353

CLJ-CSS-34

JM4354

CLJ-CSS-35

JM4355

CLJ-CSS-36

JM4356

CLJ-CSS-37

JM4357

CLJ-CSS-38

JM4358

CLJ-CSS-39

JM4359

CLJ-CSS-40

JM4360

CLJ-CSS-41

JM4361

CLJ-CSS-42

JM4362

CLJ-CSS-43

JM4363

CLJ-CSS-44

JM4364

CLJ-CSS-45

JM4365

CLJ-CSS-46

JM4366

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COMMENTS: See SDG Narrative

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

Signature: [Signature]

Name: Joseph Anatow

Date: 5/16/94

Title: Operations Manager









0318

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CW-155-37  
Lab Code: NA Case #: NA SAS #: NA SDG #: <sup>NA</sup> ~~CW-155-33~~  
Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: M4357  
% Solids: \_\_\_\_\_ Date Received: 3 / 7 / 94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	<u>4.55</u>			<u>PH</u>

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLJ-655-38  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: ~~CLJ-655-38~~  
 Matrix: (soil/water) SOIL    Level: (low/med) LOW    Lab Sample ID: JM4358  
 % Solids: \_\_\_\_\_    Date Received: 3 / 7 / 94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.06			pH

Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_















# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NERISA EPA SAMPLE #: CLJ-CSS-45  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-13-113  
 Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: JM4365  
 % Solids: \_\_\_\_\_ Date Received: 3/7/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.77			PH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_









HACH pH

---

QC 7-BUFFER CV-0050 TW 11:15 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.03

Slope: 97.8 mV Temperature: 22.4 °C Ph Meter: BECKMAN

Comments: \_\_\_\_\_

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HACH pH

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QC 7-BUFFER CV-0050 TW 11:22 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.03

Slope: 101.0 mV Temperature: 22.7 °C Ph Meter: BECKMAN

Comments: \_\_\_\_\_

---

JM4353 15226N CLJ-CSS-33 TW 11:25 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.59

Slope: 101.0 mV Temperature: 20.9 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

---

JM4354 15226N CLJ-CSS-34 TW 11:28 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.68

Slope: 101.0 mV Temperature: 21.7 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 3-22-94  
 (C:\WP50\FORMS\PH.201)

pH

JM4355    15226N    CLJ-CSS-35    TW    11:33    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.22

Slope: 101.0 mV    Temperature: 20.5 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4356    15226N    CLJ-CSS-36    TW    11:35    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 3.87

Slope: 107.0 mV    Temperature: 20.5 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4357    15226N    CLJ-CSS-37    TW    11:36    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.55

Slope: 101.0 mV    Temperature: 20.2 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4358    15226N    CLJ-CSS-38    TW    11:38    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.06

Slope: 101.0 mV    Temperature: 20.7 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. Delany    Date: 3-22-94  
 (C:\WP50\FORMS\pH.201)

pH

JM4359    K5226N    CLJ-CSS-39    TW    11:41    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.45

Slope: 101.0 mV    Temperature: 20.4 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4360    15226N    CLJ-CSS-40    TW    11:43    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.96

Slope: 101.0 mV    Temperature: 20.6 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4361    15226N    CLJ-CSS-41    TW    11:44    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 3.94

Slope: 10.0 mV    Temperature: 20.5 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4362    15226N    CLJ-CSS-42    TW    11:46    3/21/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 3.99

Slope: 101.0 mV    Temperature: 20.3 °C    Ph Meter: BECKMAN

Comments: 25g to 25ml

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong    Date: 3-22-94  
 (C:\WP50\FORMS\PH.201)

pH

JM4363 15226N CLJ-CSS-43 TW 11:48 3/21/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.58

Slope: 101.0 mV Temperature: 20.7 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4364 15226N CLJ-CSS-44 TW 11:50 3/21/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 3.93

Slope: 101.0 mV Temperature: 20.5 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4365 15226N CLJ-CSS-45 TW 11:52 3/21/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.77

Slope: 101.0 mV Temperature: 20.7 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

JM4366 15226N CLJ-CSS-46 TW 11:53 3/21/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.23

Slope: 101.0 mV Temperature: 20.7 °C Ph Meter: BECKMAN

Comments: 25g to 25ml

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. Dolony Date: 3-22-94  
(C:\WP50\FORMS\PH.201)

pH

JM4367 15226N TW TW 11:55 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date  
CLJ-DS-10

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.80

Slope: 101.0 mV Temperature: 22.1 °C Ph Meter: BELLMAN

Comments: 25g to 25ml (previously done on 3-9-94) previous DATA Reporter

JM4368 15226N CLJ-DS-11 TW 11:57 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.83

Slope: 101.0 mV Temperature: 21.3 °C Ph Meter: BELLMAN

Comments: 25g to 25ml (previously done on 3-9-94) previous DATA Reporter

JM4369 15226N CLJ-DS-11D TW 11:59 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.79

Slope: 101.0 mV Temperature: 22.4 °C Ph Meter: BELLMAN

Comments: 25g to 25ml (previously done on 3-9-94) previous DATA Reporter

QC 4-BUFFER CV-0049 TW 12:03 3/21/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.04

Slope: 101.0 mV Temperature: 22.5 °C Ph Meter: BELLMAN

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 3-22-94  
 (C:\WP50\FORMS\pH.201)