

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

Volume III 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



02.08-03/01/97-02289

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):** C6527 through C6529, CLJ-DS-06 through CLJ-DS-09 and CLJ-DS-07D

**Sample Type(s):** Solid

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

**Date Sample Received:** February 18, 1994

**Date Order Received:** February 18, 1994

**Joblink(s):** 615198

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Reviewed and  
Approved by:

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

Date:

5/31/94



## SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
<b>Conventionals</b>		
Acids by IC (Cl, NO <sub>3</sub> , PO <sub>4</sub> and SO <sub>4</sub> )	CAWW	300.0
Test Bulking	ASTM	D5058
BTU/lb	ASTM	D240-76
Bulk Density	ASTM	D5057
<b><u>RCRA Characteristics</u></b>		
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>Metals</b>		
Total Metals	SW-846	6010
<b>Organics</b>		
Volatile Compounds by GC/MS	SW-846	8240
Semi-volatile Compounds by GC/MS	SW-846	8270
Pesticides and PCBs by GC	SW-846	8080
<b>Total Petroleum Hydrocarbons (TPHC) by GC</b>		
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	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

## 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", for Reactive Sulfide it is "RS" for BTU it is "BTU" and for Density it is "DE". The CLP manual does not address these results or this method for reporting.

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

### Metals

Spike sample recoveries were outside criteria for Antimony and Selenium. Spike sample recoveries were not obtainable due to high analyte concentration for Iron, Lead and Zinc.

Iron, Lead, Manganese, Nickel and Zinc demonstrated poor replication indicating sample non-homogeneity with respect to these analytes.

### 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

Due to the high amount of analyte detected in the unspiked sample, matrix spike samples do not provide valid recovery data. Batch acceptance is based on method spike recoveries which were within acceptability limits.

All initial and continuing calibration criteria were met.

### Pesticides

Tetrachloro-m-xylene (TCX) was outside advisory limits in the Method Blank and Method Spike samples. Sample C6527 was diluted due to high amount of target compounds present in the sample. As a result, all surrogates were diluted below detectable levels and therefore, no recovery values can be reported. Sample C6527 was also utilized for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) and resulted in surrogate and spiking compounds diluted below detectable levels. As a result, no surrogate or spike recovery values can be reported.

Decachlorobiphenyl (DCB) was outside advisory limits in the Method Spike confirmation analysis. No further action has been taken.

All initial and continuing calibration criteria were met.

**SDG NARRATIVE (continued)**

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**PCBs**

Sample #C6527 was diluted due to high sample matrix interferences from the Pesticides present, this sample was also utilized for the matrix spike and matrix spike duplicate. As a result, all surrogate and spiking compounds were diluted below detectable levels. No surrogate or spike recovery values could therefore be reported.

The dilution factor also elevated the reported detection limit.

The initial and continuing calibration criteria were met.

**Semi-volatile Organics**

Due to high amount of non-target compounds present in Sample #C6527, spike and surrogate recoveries are outside QC limits for numerous parameters. This sample matrix effect was confirmed by the MS/MSD analysis resulting in the same surrogate recoveries as the unspiked Sample #C6527. Batch acceptance is based on method spike recoveries which were within QC limits.

The sample matrix effect discussed above also caused the last three internal standards to fail response criteria. Again, sample matrix effect was confirmed by the analysis of the MS/MSD which resulted in the last three internal standards failing response criteria.

All initial and continuing calibration criteria were met.

**Volatile Organics**

Due to high levels of non-target compounds present in Sample #C6527, the medium level methanol extraction was performed.

Due to sample matrix interferences, Toluene-d8 was outside recovery limits for Sample #6527. Sample matrix effect was confirmed by the analysis of the Sample #C6527 MS/MSD, where Toluene-d8 was also outside QC limits in the same direction.

All MS recoveries were within QC limits.

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.

**SDG NARRATIVE (continued)**

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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.

**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 67 to 122%.

**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.

Poor surrogate recovery for the acid extractable fraction of the MSD sample was reported for this analytical batch. No further action was taken. Other acid extractable fraction spike compounds were recovered within QC limits.

Terphenyl-d14 was outside established recovery criteria for the method blank. No results were reported for any of the samples in this analytical batch, therefore, this anomaly does not impact the validity of the data as reported.

2,4,5-Trichlorophenol and 2,4,6-Trichlorophenol were not recovered in the MSD analysis. No further action was taken. These compounds were recovered within QC limits in both the MS and blank spike samples. Other acid extractable fraction compounds were recovered within QC limits for the MSD.

All initial and continuing calibration criteria were met.

**TCLP Volatile Organics**

The initial and continuing calibration criteria were met.

**SDG NARRATIVE (continued)**

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Toluene-d8 and Bromofluorobenzene were outside the surrogate QC limits for Sample #CLJ-DS-07. No further action was taken. No results were reported for this sample or the field duplicate #CLJ-DS-07D, therefore, this anomaly should not impact the validity of the data as reported.

Bromofluorobenzene was outside surrogate QC limits for Sample #CLJ-DS-0. No further action was taken. The recovery was 1% below the lower control limit.

Benzene, Trichloroethene and Chlorobenzene were outside spike recovery limits for the MS and MSD. (Trichloroethane was just within lower control limit in the MSD.) These constituents exhibited the same recovery pattern in the blank spike which leads to a low bias for this sample batch.

**Test Bulking Results**

Facility: 15226N  
Sample Identifier: C6528  
ASC Sample Number: JM3557

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Test Bulking Parameters	Result
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Date of Test Bulk:	February 22, 1994
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Samples Bulked:	CLJ-DS-02 and CLJ-DS-03
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Temperature Rise:	< 2.0°C
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Gas Evolved:	None observed
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Precipitate:	None observed
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Gelling or Solidification:	None observed
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**Test Bulking Results**

Facility: 15226N  
Sample Identifier: C6529  
ASC Sample Number: JM3558

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Test Bulking Parameters	Result
Date of Test Bulk:	February 22, 1994
Samples Bulked:	CLJ-DS-04 and CSLJ-DS-05
Temperature Rise:	< 2.0°C
Gas Evolved:	None observed
Precipitate:	None observed
Gelling or Solidification:	None observed























# BLANKS (3)

0017

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CL58*

Prep Blank Matrix: (soil/water) *SOIL*

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								<i>0.000</i>	<i>U</i>	<i>RL</i>	
Reactive Sulfide								<i>0.000</i>	<i>U</i>	<i>RS</i>	

# SPIKE SAMPLE RECOVERY (5A)

0018

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: KT-05-06  
Lab Code: LA Case #: LF SAS #: LF SDG #: LF  
Matrix: (soil/water) SOIL Level (low/med): MED % Solids for Sample: 88.8

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	<u>50-100</u>	<u>299</u>		<u>1000</u>		<u>300</u>	<u>83</u>		<u>RS</u>

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

# SPIKE SAMPLE RECOVERY (5A)

0019

Lab Name: *Analytical Services Corp* Contract: *NEESH* EPA Sample #: *06520*  
Lab Code: *NT* Case #: *NT* SAS #: *NT* SDG #: *NT*  
Matrix: (soil/water) *SOIL* Level (low/med): *MED* % Solids for Sample: *745*

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		<i>114</i>		<i>1000</i>	<i>u</i>	<i>188</i>	<i>77</i>		<i>RC</i>
Reactive Sulfide									

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

**DUPLICATES (6)**

0020

Lab Name: *Analytical Services Corp* Contract: *NEEA* EPA Sample #: *012528*

Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *NA*

Matrix: (soil/water) *SOIL* % Solids for Sample: *74.5*

Level (low/med): *MED* % Solids for Duplicate: *74.5*

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide		<i>144</i>		<i>122.7</i>	<i>11</i>	<i>16</i>		<i>RC</i>
Reactive Sulfide								

# DUPLICATES (6)

0021

**Lab Name:** Analytical Services Corp      **Contract:** NEEA      **EPA Sample #:** NA-DS-10  
**Lab Code:** NA      **Case #:** NA      **SAS #:** NA      **SDG #:** NA  
**Matrix:** (soil/water) SOIL      **% Solids for Sample:** 58%  
**Level (low/med):** MED      **% Solids for Duplicate:** 58%

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide								
Reactive Sulfide		200		290	11	0		RS

# LABORATORY CONTROL SAMPLE (7)

0022

Lab Name: *Analytical Services Corp*

Contract: *1-BESF*

Lab Code: *1-F*

Case #: *1-F*

SAS #: *1-F*

SDG #: *1-F*

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

Aqueous LCS Source: *CV-1005*

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Reactive Cyanide	<i>158</i>	<i>116</i>	<i>617</i>					
Reactive Sulfide								

# LABORATORY CONTROL SAMPLE (7)

Lab Name: Analytical Services Corp

Contract: DEESA

Lab Code: LA

Case #: LA

SAS #: LA

SDG #: LA

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	310	299	93.0					

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: STD 4 AIC-122

Continuing Calibration Source: STD 4 AIC-122

Concentration Units: ug/L

Analyte	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chloride	5.0	5.07	101	5.0	5.13	103			10
Nitrate as N	2.26	2.16	95.6	2.26	2.31	102			10
Phosphate as P	3.26	3.05	93.4	3.26	3.12	95.7			10
Sulfate	10.0	9.46	94.6	10.0	9.86	98.6			10

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



# BLANKS (3)

0025

Lab Name: *Analytical Services Corp*

Contract: *1-555A*

Lab Code: *NA*  
*171512*

Case #: *NA*

SAS #: *KB*

SDG #: *NA*

Prep Blank Matrix: (soil/water) *Soil*

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			
Chloride									<i>B</i>	<i>1C</i>	
Nitrate as N								<i>0</i>	<i>1C</i>	<i>1C</i>	
Phosphate as P								<i>0</i>	<i>1C</i>	<i>1C</i>	
Sulfate								<i>270</i>	<i>B</i>	<i>1C</i>	

# SPIKE SAMPLE RECOVERY (5A)

0026

Lab Name: Analytical Services Corp      Contract: 11552      EPA Sample #: 11552  
 Lab Code: 11      Case #: 11      SAS #: 11      SDG #: 11  
 Matrix: (soil/water) soil      Level (low/med): med      % Solids for Sample: 4.8

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
Chloride		9.77		3.15	B	5.00	132		10
Nitrate as N		1.30		1.00	B	1.13	169		10
Phosphate as P		1.70		1.13	B	1.63	95.0		10
Sulfate		12.9		11.70		5.00	115		10

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

# DUPLICATES (6)

0027

Lab Name: Analytical Services Corp Contract: 1155A EPA Sample #: 26584

Lab Code: NA Case #: NA SAS #: NA SDG #: NA

Matrix: (soil/water) Soil % Solids for Sample: 79.8

Level (low/med): Med % Solids for Duplicate: 79.8

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Chloride		9.77		9.72		.513		K
Nitrate as N		1.30		1.31		1.53		K
Phosphate as P		1.70		1.70		0		K
Sulfate		16.09		16.10		.001		K

LABORATORY CONTROL SAMPLE (7)

0028

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *66538*

Liquid LCS Source: *MT SPIKE INVT.*

Aqueous LCS Source: \_\_\_\_\_

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Chloride	<i>5.00</i>	<i>5.46</i>	<i>113</i>					
Nitrate as N	<i>1.13</i>	<i>1.20</i>	<i>106</i>					
Phosphate as P	<i>1.63</i>	<i>1.66</i>	<i>102</i>					
Sulfate	<i>5.00</i>	<i>5.36</i>	<i>107</i>					

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

DW No.: \_\_\_\_\_

**EPA Sample No.**

**Lab Sample ID.**

C6527

JM3564

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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:

Joseph Anetow

Name:

Joseph Anetow

Date:

5/26/94

Title:

Operations Manager

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICE CORP. contract: NEESA

C6527

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

Matrix (soil/water): SOIL Lab Sample ID: JM3564

Level (low/med): LOW Date Received: 2/18/94

% Solids: 20.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3440			P
7440-36-0	Antimony	2.50	U		P
7440-38-2	Arsenic	6.79			F
7440-39-3	Barium	358			P
7440-41-7	Beryllium	1.25	U		P
7440-43-9	Cadmium	1.25	U		P
7440-70-2	Calcium	569			P
7440-47-3	Chromium	4.76			P
7440-48-4	Cobalt	6.25	U		P
7440-50-8	Copper	13.1			P
7439-89-6	Iron	3.70			P
7439-92-1	Lead	19.4			F
7439-95-4	Magnesium	168			P
7439-96-5	Manganese	17.6			P
7439-97-6	Mercury	0.080			Cv
7440-02-0	Nickel	3.47			P
7440-09-7	Potassium	<del>755-10-94</del>			
7782-49-2	Selenium	2.36	U		F
7440-22-4	Silver	1.25	U		P
7440-23-5	Sodium	87.0			P
7440-28-0	Thallium	6.25	U		P
7440-62-2	Vanadium	9.40			P
7440-66-6	Zinc	87.9			P
	Cyanide				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:  
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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP. Contract: NECSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 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	9630	9797	102	4800	4861	101			
Antimony	4620	4510	97.6	2300	2409	105			
Arsenic	32.8	34.9	106	20.5	20.9	102	19.3	94.1	F
Barium	9240	9324	101	4790	4774	99.7			
Beryllium	248	249	100	125	125	100			
Cadmium	2530	2568	102	1290	1319	102			
Calcium	23,00	23740	104	11950	12360	103			
Chromium	973	986	101	487	504	103			
Cobalt	2510	2532	101	1280	1311	102			
Copper	1260	1300	103	606	657	108			
Iron	4670	4770	102	2390	2433	102			
Lead	35.3	36.04	102	21.2	21.44	101	21.99	104	F
Magnesium	23300	23460	101	12300	12600	102			
Manganese	2500	2528	101	1280	1258	98.3			
Mercury									
Nickel	2500	2571	103	1310	1320	101			
Potassium	23800	24160	102	11920	12040	101			
Selenium									
Silver	1260	1276	101	588	619	105			
Sodium	23800	24620	101	12140	12340	102			
Thallium	4510	4557	101	2350	2398	102			
Vanadium	4730	4748	100	2410	2448	102			
Zinc	2480	2500	101	1240	1271	103			
Cyanide									

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

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

Initial Calibration Source: VENTURES

Continuing Calibration Source: VENTURES

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									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	5.00	5.31	106	5.00	5.28	106			CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

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



2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP Contract: NGESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 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									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	39.1	37.5	95.9	23.5	23.9	102			F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

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

3  
BLANKS

Lab Name: ANALYTICAL SERVICES CORP.

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Preparation Blank Matrix (soil/water): Soil

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum	26.2	u	6.9	u				19.3	u	P	
Antimony	26.5	u	11.2	u				0.4	u	P	
Arsenic	-1.4	u	-0.1	u	0.6	u		-1.2	u	F	
Barium	2.2	u	<del>2.7</del> 7	u				2.0	u	P	
Beryllium	0.2	u	0.1	u				0	u	P	
Cadmium	0.5	u	0.6	u				1.2	B	P	
Calcium	11.0	B	6.9	B				55.8	u	P	
Chromium	-1.0	u	-0.5	u				1.4	u	P	
Cobalt	2.2	u	0.7	u				1.7	u	P	
Copper	5.1	u	0.8	u				32.3	u	P	
Iron	10.6	B	8.3	B				13.9	B	P	
Lead	-0.5	u	-0.9	u	-0.8	u		-0.2	u	F	
Magnesium	22.2	u	3.6	u				22.2	u	P	
Manganese	0.9	u	0.6	u				0.9	u	P	
Mercury	-0.08	u	-0.05	u				-0.05	u	F	
Nickel	0.4	u	1.1	u				1.2	u	P	
Potassium	-86.4	u	-144.1	u				7.2	u	P	
Selenium	-0.6	u	-0.9	u				0.1	u	F	
Silver	3.3	u	0.9	u				1.3	u	P	
Sodium	85.1	u	111	u				40.6	u	P	
Thallium	3.3	u	-0.8	u				-1.4	u	P	
Vanadium	2.9	u	2.3	u				2.0	u	P	
Zinc	0.9	u	0.7	u				18.2	B	P	
Cyanide											

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

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

ICP ID Number: 61 ICS Source: VENTURES

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	487000	481000	490000	484000	101	497000	482000	100
Antimony		895	342	952	106	48.5	911	102
Arsenic								
Barium		471	19	467	99.2	1.8	464	98.5
Beryllium		465	0	464	99.8	-0.1	466	100
Cadmium		874	-9.5	906	107	-10.4	905	107
Calcium	184000	227000	187000	223000	100	191000	228000	100
Cromium		462	-5.8	471	102	-7.4	473	102
Cobalt		432	-2.9	442	102	-4.7	441	102
Copper		472	22.9	502	106	10.8	489	107
Iron	177000	172000	178000	174000	98.3	180000	173000	101
Lead								
Magnesium	243000	490000	244000	497000	101	249000	499000	102
Manganese		406	-2.3	445	110	-1.6	438	108
Mercury								
Nickel		872	-5.5	880	101	0.1	878	101
Potassium								
Selenium								
Silver		923	-6.9	930	101	-5.9	921	99.8
Sodium		963	158	1168	121	166	1213	126
Thallium		864	1.9	888	103	10.1	883	102
Vanadium		446	0.5	446	100	1.4	478	100
Zinc		923	24.8	937	102	27.0	934	101

5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP

Contract: Neesa

C6527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): SOIL

Level (low/med): LOW

Solids for Sample: \_\_\_\_\_

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	4140	3440	317	220		P
Antimony	75-125	7.51	1.23	14.7	42.7	N	P
Arsenic	75-125	92.05	72.06	20.0	100		F
Barium	75-125	412	358	62.1	87.0		P
Beryllium	75-125	2.04	.609	1.57	91.1		P
Cadmium	75-125	1.35	-.025	1.63	82.8		P
Calcium	75-125	816	569	320	77.2		P
Chromium	75-125	10.6	4.76	6.66	87.7		P
Cobalt	75-125	15.4	1.46	16.3	85.5		P
Copper	75-125	19.6	13.1	8.64	75.2		P
Iron	75-125	2710	3170	315	φ	L	P
Lead	75-125	151	205	2.0	φ		F
Magnesium	75-125	315	168	162	90.2		P
Manganese	75-125	30.5	17.6	15.8	81.6		P
Mercury	75-125	5.62	1.58	5.00	80.8		CV
Nickel	75-125	17.4	3.47	16.5	84.4		P
Potassium	75-125	686	383	325	93.2		P
Selenium	75-125	29	15	20	70	N	F
Silver	75-125	1.15	.0656	1.5	76.7		P
Sodium	75-125	376	87.0	316	91.5		P
Thallium	75-125	53.9	-0.728	64.0	85.4		P
Vanadium	75-125	23.8	9.40	15.7	91.7		P
Zinc	75-125	82.7	87.9	15.9	φ		P
Cyanide							

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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5B  
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL Services Corp

Contract: Neesa

C6527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): Soil

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							
Antimony	<u>75-125</u>	<u>870.7</u>	<u>39.4</u>	<u>892</u>	<u>97.6</u>		<u>P</u>
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Thallium							
Vanadium							
Zinc							
Cyanide							

Comments:

No other parameters required Post-spiking

Lab Name: ANALYTICAL SERVICES CORP

Contract: Neesa

C6527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): SOIL

Level (low/med): LOW

‡ Solids for Sample: \_\_\_\_\_

‡ Solids for Duplicate: \_\_\_\_\_

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	3440	-	3279	-	4.9	-	0
Antimony	15	1.23	-	0.16	u	-	-	0
Arsenic	20	72.06	-	71.94	-	0.2	-	0
Barium	20	358	-	350	-	2.3	-	0
Beryllium	20	0.609	-	0.602	-	1.2	-	0
Cadmium	0.5	-0.025	u	-0.018	u	-	-	0
Calcium	20	569	-	608	-	6.6	-	0
Chromium	20	4.76	-	4.24	-	11.6	-	0
Cobalt	20	1.46	-	1.25	-	15.5	-	0
Copper	20	13.1	-	11.8	-	10.4	-	0
Iron	20	3170	-	1762	-	57.1	*	0
Lead	20	205	-	165	-	21.6	*	0
Magnesium	20	168	-	171	-	1.8	-	0
Manganese	20	17.8	-	14.0	-	23.9	*	0
Mercury	20	1.58	-	1.45	-	8.6	-	0
Nickel	20	3.47	-	2.64	-	27.2	*	0
Potassium	20	383	-	373	-	2.6	-	0
Selenium	20	15.0	-	17.0	-	12.5	-	0
Silver	1.0	0.066	u	-0.095	u	-	-	0
Sodium	20	87.0	-	88.1	-	1.3	-	0
Thallium	20	-0.728	u	-0.020	u	-	-	0
Vanadium	20	9.4	-	8.62	-	8.7	-	0
Zinc	20	87.9	-	56.5	-	43.5	*	0
Cyanide			-		-		-	0

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVBLK81

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

Matrix: (soil/water) soil Lab Sample ID: N&W3324W

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 199

Level: (low/med) low Date Received: 03 01 1994

% Moisture: not dec. 0 Date Analyzed: 03 01 1994

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>4.0</u>	<u>u</u>

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

0040

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: N2WJ324WS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 200

Level: (low/med) low Date Received: 03 10/1/94

% Moisture: not dec. 0 Date Analyzed: 03 10/1/94

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>2090</u>	<u>Q</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-DS-86MS

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

Matrix: (soil/water) soil Lab Sample ID: Jm3559WS

Sample wt/vol: 5.15 (g/mL) g Lab File ID: 203

Level: (low/med) low Date Received: 02/17/94

% Moisture: not dec. 11.2 Date Analyzed: 03/10/94

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

Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: 50 NA (uL)

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

---NA---	Light hydrocarbons (C2-C10)	<u>417000</u>	
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\* 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 CLT-05-01051

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

Matrix: (soil/water) soil Lab Sample ID: JM3559WR

Sample wt/vol: 5.15 (g/mL) g Lab File ID: 0202

Level: (low/med) low Date Received: 02/18/94

% Moisture: not dec. 11.2 Date Analyzed: 03/10/94

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

Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: 50 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons (C2-C10)	<u>387000</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 TVBLK01

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

Matrix: (soil/water) soil Lab Sample ID: N2W3322W

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 188

Level: (low/med) low Date Received: 03 18/194

% Moisture: not dec. 0 Date Analyzed: 03 18/194

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>
----NA----	Light hydrocarbons(C2-C10)	<u>4.0</u>	<u>u</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 TVSPK01

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

Matrix: (soil/water) soil Lab Sample ID: N2W332WS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 159

Level: (low/med) low Date Received: 03 10/194

% Moisture: not dec. 0 Date Analyzed: 03 10/194

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

0045

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-27MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM356WS  
 Sample wt/vol: 0.54 (g/mL) g Lab File ID: 193  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 16.7 Date Analyzed: 03/18/94  
 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>
----NA----	Light hydrocarbons (C2-C10)	<u>16700</u>	<u>Q</u>

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

FORM I TVH

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-87msD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3560WR  
 Sample wt/vol: 0.50 (g/mL) g Lab File ID: 192  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 10.8 Date Analyzed: 03/10/94  
 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>16200</u>	<u>Q</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 C6528

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

Matrix: (soil/water) soil Lab Sample ID: JM3557W

Sample wt/vol: 0.50 (g/mL) g Lab File ID: 190

Level: (low/med) low Date Received: 12/18/94

% Moisture: not dec. 25.5 Date Analyzed: 03/18/94

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)	<del>4.73</del>	<u>u</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 CG529

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

Matrix: (soil/water) soil Lab Sample ID: Jm3553W

Sample wt/vol: 0.52 (g/mL) g Lab File ID: 191

Level: (low/med) low Date Received: 02/18/94

% Moisture: not dec. 25.5 Date Analyzed: 03/01/94

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>4.55</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-DS-~~06~~

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

Matrix: (soil/water) soil Lab Sample ID: JM3559W

Sample wt/vol: 5.15 (g/mL) g Lab File ID: 201

Level: (low/med) low Date Received: 02/18/94

% Moisture: not dec. 11.2 Date Analyzed: 03/01/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: ~~100~~ NA

Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: <sup>50</sup> NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons(C2-C10)	<u>276000</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-DS-07  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3560W  
 Sample wt/vol: 0.55 (g/mL) g Lab File ID: 194  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 10.8 Date Analyzed: 03/18/94  
 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)	<del>0</del> 4.30	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-DS-070  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3561  
 Sample wt/vol: 0.51 (g/mL) g Lab File ID: 195  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 16.5 Date Analyzed: 03/18/94  
 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>4.64</u>	<u>u</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-03-08

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

Matrix: (soil/water) soil Lab Sample ID: Jm3562

Sample wt/vol: 0.51 (g/mL) g Lab File ID: 196

Level: (low/med) low Date Received: 02 11/19/94

% Moisture: not dec. 14.7 Date Analyzed: 03 10/1/94

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>0.404</u>	<u>u</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-DS-09  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3563  
 Sample wt/vol: 0.51 (g/mL) g Lab File ID: 198  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 7.2 Date Analyzed: 03/10/94  
 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>0.404</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: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: CLJ-DS-06MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	<u>204000</u> <del>204000</del>	<u>276000</u>	<u>417000</u>	<u>69.0</u>	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Light hydrocarbons(C2-C10)	<u>204000</u>	<u>387550</u>	<u>54.4</u>	<u>7.25</u>	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 limitsSpike Recovery: 0 out of 1 outside limits

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

## TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: CJ-DS-07MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	<u>19400</u>	<u><del>16700</del> 0</u>	<u>16700</u>	<u>85.7</u>	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Light hydrocarbons(C2-C10)	<u>19400</u>	<u>16200</u>	<u>83.5</u>	<u>2.87</u>	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 limitsSpike 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.: TVBLK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Light hydrocarbons (C2-C10)	2100	0	2070	99.5	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: \_\_\_\_\_



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.: ~~TVSPK01~~  
TVSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	2100	0	2170	103	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: \_\_\_\_\_

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: N2W3324WS Lab File ID: 200

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

Sulfur Cleanup: (Y/N) XN Date Extracted: 03-01-94

Date Analyzed (1): 03-01-94 Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 1800 1800 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	<u>CLJ-DS-06</u>	<u>Jm3559W</u>	<u>03-01-94</u>	
02	<u>CLJ-DS-06ms</u>	<u>Jm3559WS</u>	<u>03-01-94</u>	
03	<u>CLJ-DS-06msD</u>	<u>Jm3559WR</u>	<u>03-01-94</u>	
04	<u>FVS TVSFK01</u>	<u>N2W3324WS</u>	<u>03-01-94</u>	
05				
06				
07				
08				
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

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: N2W3322W Lab File ID: 128

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

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

Date Analyzed (1): 03-01-94 Date Analyzed (2): 03/01/94

Time Analyzed (1): 1003 Time Analyzed (2): 1003

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

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	C6528	Jm3557W	03/01/94 ↓	
02	C6529	Jm3558W		
03	CLJ-D3-07	Jm3560W		
04	CLJ-D3-07D	Jm3561W		
05	CLJ-D3-08	Jm3562W		
06	CLJ-D3-09	Jm3563W		
07	CLJ-D3-07MS	Jm3560WS		
08	CLJ-D3-07MSL	Jm3560WR		
09	TVBLK01	N2W3322WS		∇
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: D4 Calibration Date (s): 01-13-94  
 Calibration Time (s): 212.4

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: Δ4 Calibration Date: 03-01-94 Time: 0823  
 Lab File ID: 186 Initial Calib Date(s): 01-16-94  
 Initial Calib Times: 2124

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons (C2-C10)	<u>2050000</u>	<u>1790000</u>	<u>NA</u>	<u>12.7</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: 03-31-94 Time: 1634  
 Lab File ID: 197 Initial Calib Date(s): 01-13-94  
 Initial Calib Times: 2124

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons (C2-C10)	<u>2050000</u>	<u>1740000</u>	<u>NA</u>	<u>5.16</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: 03-01-94 Time: 2135  
 Lab File ID: 204 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)	2057000	1740000	NA	5.49	15

22.447 124713 0Y .348 1.42438  
23.023 30415 VV .246 .34736

0064

TOTAL AREA=8.7561E+06  
MUL FACTOR=1.0000E+00

\* RUN # 190 MAR 1, 1994 11:29:00  
START

IF

1.295  
1.699

CG528  
JM3557W  
N2W3322

ND

C.P.

TIMETABLE STOP

RUN# 190 MAR 1, 1994 11:29:00

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.295	8277	PP	.090	35.51294
1.699	15030	VB	.058	64.48707

TOTAL AREA= 23307  
MUL FACTOR=1.0000E+00

\* RUN # 191 MAR 1, 1994 12:11:57  
START

IF

1.302  
1.710

JM3558W



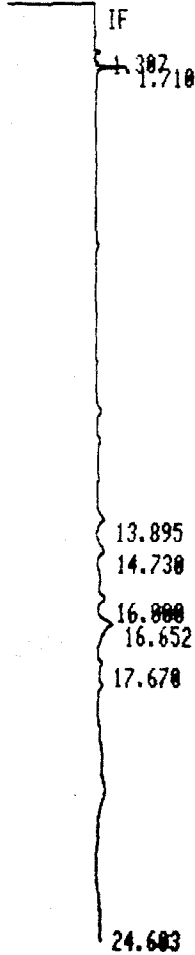
RUN# 190 MAR 1, 1994 11:29:00

0065

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	8277	PP	.090	35.51294
	1.699	15030	VB	.058	64.48707

TOTAL AREA= 23307  
MUL FACTOR=1.0000E+00

\* RUN # 191 MAR 1, 1994 12:11:57  
START



*06529*  
*JM3558W*  
*N2W3322*  
*E<sub>A</sub> = 66522*

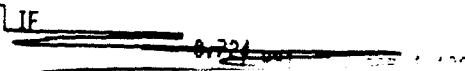
TIMETABLE STOP

RUN# 191 MAR 1, 1994 12:11:57

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.387	7534	PB	.092	3.25817
	1.710	22105	PB	.052	9.55958
	13.895	33355	VV	.351	14.42478
	14.730	33167	VV	.315	14.34348
	16.000	33903	VV	.275	14.66177
	16.652	83125	VP	.398	35.94843
	17.670	9627	PB	.203	4.16332
	24.603	8418	PP	.487	3.64047

TOTAL AREA= 231234  
MUL FACTOR=1.0000E+00

\* RUN # 192 MAR 1, 1994 12:54:44  
START



17.678

0066

24.683

TIMETABLE STOP

RUN# 191 MAR 1, 1994 12:11:57

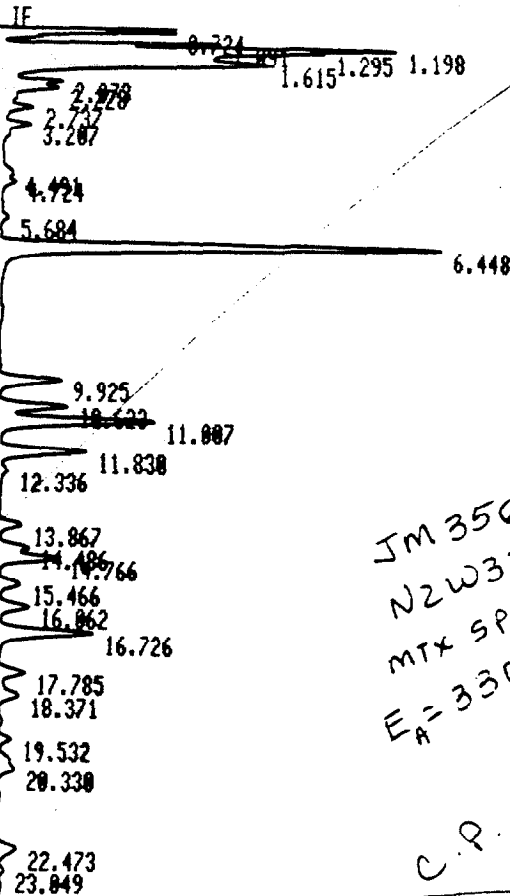
AREAZ

RT	AREA	TYPE	WIDTH	AREAZ
1.387	7534	PB	.092	3.25817
1.710	22105	PB	.052	9.55958
13.895	33355	VV	.351	14.42478
14.730	33167	VV	.315	14.34348
16.000	33903	VV	.275	14.66177
16.652	83125	VP	.398	35.94843
17.670	9627	PB	.203	4.16332
24.683	8418	PP	.487	3.64047

TOTAL AREA= 231234  
MUL FACTOR=1.0000E+00

\* RUN # 192 MAR 1, 1994 12:54:44

START



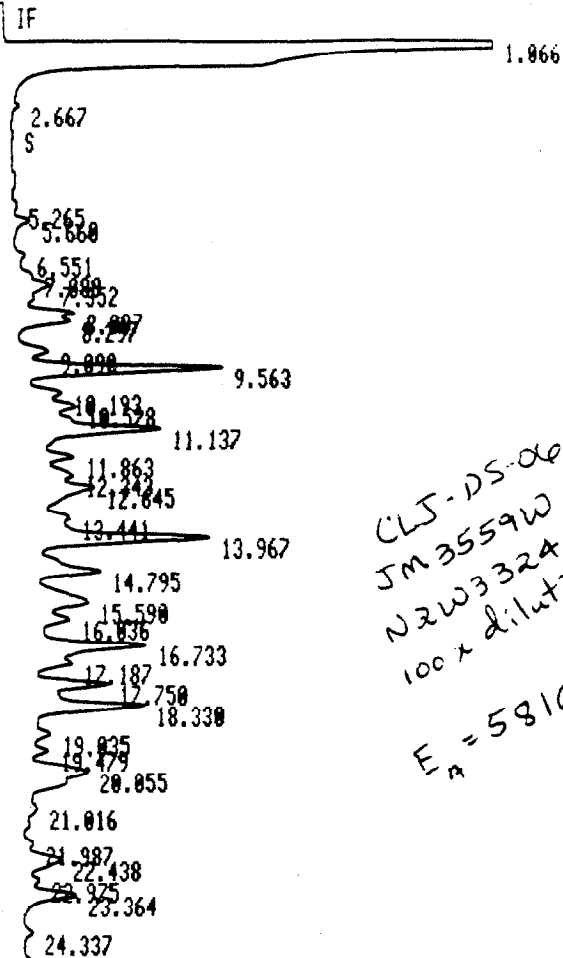
TIMETABLE STOP

RUN# 192

MAR 1, 1994 12:54:44

\* RUN # 201 MAR 1, 1994 19:26:25

START



TIMETABLE STOP

RUN# 201 MAR 1, 1994 19:26:25

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.066	6451162	S88	.181	38.94890
2.667	8241	TBB	.106	.04976
5.265	20614	VV	.254	.12446
5.660	69149	VV	.276	.41749
6.551	59757	VV	.338	.36078
7.089	64402	VV	.227	.38883
7.352	172215	VV	.335	1.03975
8.087	201693	VV	.235	1.21772
8.297	188956	VV	.237	1.14082
9.090	153219	VV	.315	.92506
9.563	758582	VV	.258	4.57994
10.193	202465	VV	.306	1.22238
10.528	261293	VV	.305	1.57756
11.137	892744	VV	.434	5.38995
11.863	259922	VV	.317	1.56928
12.343	283430	VV	.349	1.71121
12.645	552107	VV	.498	3.33335
13.441	245478	VV	.324	1.48207
13.967	927120	VV	.342	5.59749
14.795	495105	VV	.417	2.98920
15.590	519418	VV	.521	3.13599
16.036	278659	VV	.378	1.68240
16.733	646577	VV	.356	3.90371
17.187	225441	VV	.297	1.36110
17.750	363558	VV	.288	2.19498
18.330	617849	VV	.348	3.73026

23.364  
24.337

TIMETABLE STOP

0068

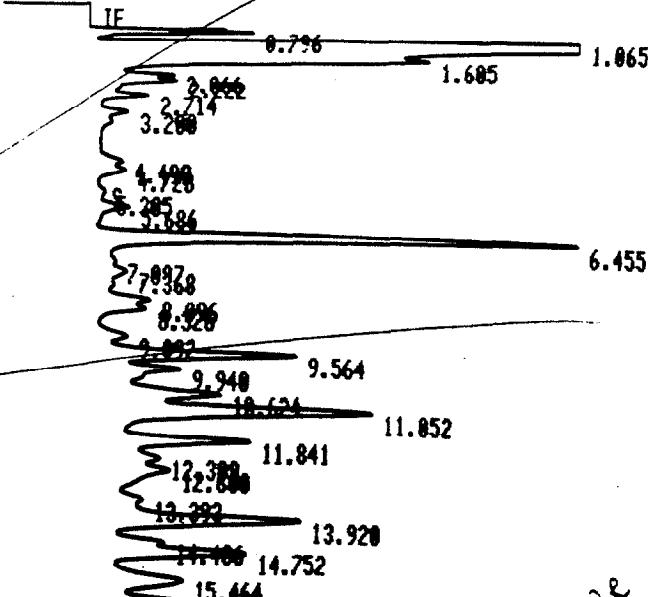
RUN# 201 MAR 1, 1994 19:26:25

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.066	6451162	SBB	.181	38.94890
2.667	8241	TBB	.106	.04976
5.265	20614	VV	.254	.12446
5.660	69149	VV	.276	.41749
6.551	59757	VV	.338	.36078
7.089	64402	VV	.227	.30883
7.352	172215	VV	.335	1.03975
8.087	201693	VV	.235	1.21772
8.297	188956	VV	.237	1.14082
9.090	153219	VV	.315	.92506
9.563	758582	VV	.258	4.57994
10.193	202465	VV	.306	1.22238
10.528	261293	VV	.305	1.57756
11.137	892744	VV	.434	5.38995
11.863	259922	VV	.317	1.56928
12.343	283430	VV	.349	1.71121
12.645	552107	VV	.498	3.33335
13.441	245478	VV	.324	1.48207
13.967	927120	VV	.342	5.59749
14.795	495105	VV	.417	2.98920
15.590	519418	VV	.521	3.13599
16.036	278659	VV	.378	1.68240
16.733	646577	VV	.356	3.90371
17.187	225441	VV	.297	1.36110
17.750	363558	VV	.288	2.19498
18.330	617849	VV	.348	3.73026
19.035	151268	VV	.338	.91328
19.479	115413	VV	.279	.69681
20.055	608773	VV	.637	3.67547
21.016	96151	VV	.392	.58051
21.987	51984	VV	.289	.31385
22.438	231217	VV	.416	1.39597
22.975	63549	VV	.249	.38368
23.364	261046	VV	.333	1.57607
24.337	64596	VV	.395	.39000

TOTAL AREA=1.6563E+07  
MUL FACTOR=1.0000E+00

\* RUN # 202 MAR 1, 1994 20:09:19  
START



14.493	73722	VV	.192	.95881
14.775	206220	VV	.231	2.68206
15.458	73194	VV	.229	.95195
16.043	100724	VP	.226	1.31000
16.690	327565	PB	.232	4.26025
17.734	94873	BY	.250	1.23390
18.315	91767	VB	.290	1.19350
19.459	43002	PV	.220	.55928
20.250	150760	VV	.513	1.96076
20.984	90996	VV	.731	1.18348
22.385	92716	VV	.336	1.20585
22.959	21267	VV	.247	.27659

0069

TOTAL AREA=7688874  
MUL FACTOR=1.0000E+00

\* RUN # 194      MAR 1, 1994 14:20:34  
START

IF  
1.295

CLJ-DS-07  
JM3560W  
N2W3322

ND  
C.P.

19.938  
21.046

TIMETABLE STOP

RUN# 194      MAR 1, 1994 14:20:34

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	7538	PP	.087	4.11241
	19.938	24253	PV	.425	13.23138
	21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
MUL FACTOR=1.0000E+00

\* RUN # 195      MAR 1, 1994 15:03:30  
START

IF

N2W3322

0070

ND

C.P.

19.938  
21.046

TIMETABLE STOP

RUN# 194 MAR 1, 1994 14:20:34

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.295	7538	PP	.087	4.11241
19.938	24253	PV	.425	13.23138
21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
MUL FACTOR=1.0000E+00

\* RUN # 195 MAR 1, 1994 15:03:30  
START

IF  
1.295  
1.700

JM 3561W  
N2W3322

ND

C.P.

20.424  
21.117

24.141

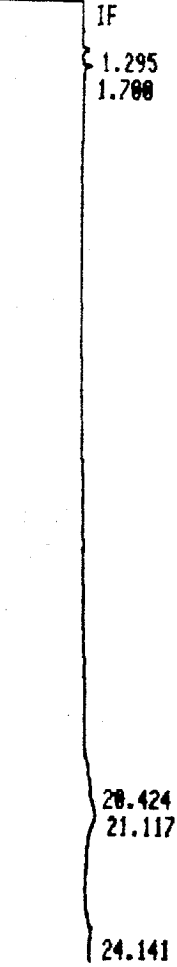
TIMETABLE STOP

RUN# 194 MAR 1, 1994 14:20:34

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	7538	PP	.087	4.11241
	19.938	24253	PV	.425	13.23138
	21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
MUL FACTOR=1.0000E+00

\* RUN # 195 MAR 1, 1994 15:03:30  
START



CLJ-DS-07D  
JM 3561W  
N2W332Z

ND  
C.P.

TIMETABLE STOP

RUN# 195 MAR 1, 1994 15:03:30

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	8308	PP	.091	3.53601
	1.700	9031	VB	.071	3.84373
	20.424	57895	PV	.685	24.64099
	21.117	143622	VV	.989	61.12771
	24.141	16098	PV	.230	6.85156

TOTAL AREA= 234954  
MUL FACTOR=1.0000E+00

\*  
\*  
\*  
\*  
\*

RUN # 196      MAR 1, 1994 15:51:46  
START

IF  
1.313, 1.701

11.115

14.790

19.885

23.801  
24.341

CLJ-DS-08  
JM3562W  
N2W3322  
EA=69402  
C.P.

TIMETABLE STOP

RUN# 196      MAR 1, 1994 15:51:46

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.313	10086	VP	.114	2.48353
1.701	47385	PB	.057	11.66788
11.115	27981	BP	.274	6.88992
14.790	41421	VV	.464	10.19933
19.885	61725	VV	.504	15.19890
23.801	105228	VV	.585	25.91089
24.341	112289	VV	.501	27.64955

TOTAL AREA= 406115  
MUL FACTOR=1.0000E+00



\* RUN # 198

MAR 1, 1994 17:17:35

0073

START

IF

1.290  
1.689

CLJ-15-09  
JM3563W  
N2W3322  
ND

TIMETABLE STOP

RUN# 198

MAR 1, 1994 17:17:35

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.290	10408	BP	.091	29.87714
1.689	24428	PB	.053	70.12285

TOTAL AREA= 34836  
MUL FACTOR=1.0000E+00

## 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: N2F40170F

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 159533/559

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

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>3,300</u>	<u>U</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2,350</u>	<u>J</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TESK 01

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

Matrix: (soil/water) soil Lab Sample ID: ~~AS~~ NQF40170FS

Sample wt/vol: 30. (g/mL) g Lab File ID: 789534/540

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

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>20200</u>	<u>u</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>16,600</u>	<u>u</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA 16528MS

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

Matrix: (soil/water) soil Lab Sample ID: TM3559FS

Sample wt/vol: 30.4 (g/mL) g Lab File ID: ~~NS3559~~ 595361562

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1/100

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
---------	----------	--	---

<u>--NA-----</u>	Medium hydrocarbons (C10-C21)	<u>618000</u>	
<u>--NA-----</u>	Heavy hydrocarbons (C21-C40)	<u>3050000</u>	

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C65280SD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3557FR  
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 159537/523  
 % Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94  
 Injection Volume: 1.0 (uL) Dilution Factor: x 100  
 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>373000</u>
---NA-----	Heavy hydrocarbons (C21-C40)		<u>1670000</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA 06528

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

Matrix: (soil/water) soil Lab Sample ID: Jm3557

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 79535/561

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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>
--NA-----	Medium hydrocarbons (C10-C21)	<u>482000</u>	<u>    </u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2360000</u>	<u>    </u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLSDG

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

Matrix: (soil/water) soil Lab Sample ID: JM3558

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159539/565

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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>9700</u>	<u>    </u>
<u>--NA-----</u>	<u>Heavy hydrocarbons (C21-C40)</u>	<u>90800</u>	<u>    </u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJDS-66

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

Matrix: (soil/water) soil Lab Sample ID: J113559

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 259840/506

% Moisture: 11.2 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: X50

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>344000</u>
--NA-----	Heavy hydrocarbons (C21-C40)		<u>2180000</u>



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07

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

Matrix: (soil/water) soil Lab Sample ID: Ju3500

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 75954/1567

% Moisture: 10.8 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>58100</u>	<u>    </u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>199000</u>	<u>    </u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA (LJ) DS 071

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

Matrix: (soil/water) soil Lab Sample ID: JM35261

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 159542/568

% Moisture: 16.5 decanted: (Y/N)      Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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>27800</u>	
--NA-----	Heavy hydrocarbons (C21-C40)		<u>103000</u>	

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA LJ DS-C8  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JN3562  
 Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159543/569  
 % Moisture: 14.7 decanted: (Y/N) N Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1 50  
 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>137000</u>	<u>J</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2150000</u>	

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09

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

Matrix: (soil/water) soil Lab Sample ID: TU3S23

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 15995 39844/570

% Moisture: 7.2 decanted: (Y/N)      Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>3310</u>	<u>u</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>4570</u>	<u>J</u>

## TEH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Matrix Spike - EPA Sample No.: 06528

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Med hydrocarbons (C10-C21)	<u>27000</u>	<u>482000</u>	<u>618000</u>	<u>495</u>	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Med hydrocarbons (C10-C21)	<u>27000</u>	<u>372000</u>	<u>0</u>	<u>49.8</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: 1 out of 1 outside limitsCOMMENTS: Sample at high concentration, had to  
do run at 100x dilution

## TEH 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.: TEBLK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Med hydrocarbons (C10-C21)	28000	2350 (J)	20250	63.8	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

TEBLK0/

Lab Name: ASC Contract: NEESA

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

Lab Sample ID: N2F4C17C.F Lab File ID: 159533/559

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 03/02/94

Date Analyzed (1): 03/04/94 Date Analyzed (2): NA

Time Analyzed (1): 1000 Time Analyzed (2): NA

Instrument ID (1): B1F Instrument ID (2): NA

GC Column (1): DB-5 ID: .53 (mm) GC Column (2): NA ID: NA (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>C6528</u>	<u>JM3557</u>	<u>3/4/94</u>	<u>NA</u>
02	<u>CLJ-DS-05</u>	<u>JM3557S</u>	↓	↓
03	<u>CLJ-DS-MSD</u>	<u>JM3557FR</u>	↓	↓
04	<u>CLJ-DS-06</u>	<u>JM3558</u>	↓	↓
05	<u>CLJ-DS-06</u>	<u>JM3559</u>	↓	↓
06	<u>CLJ-DS-07</u>	<u>JM3560</u>	↓	↓
07	<u>CLJ-DS-07D</u>	<u>JM3561</u>	↓	↓
08	<u>CLJ-DS-08</u>	<u>JM3562</u>	↓	↓
09	<u>CLJ-DS-09</u>	<u>JM3563</u>	↓	↓
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): 12/16/94  
 Calibration Time (s): 16:23 19:53

LAB FILE ID: CLOW = 159424/1368 CMEDL = 159425/1369  
 CMED = 159426/1370 CMEDH = 159427/1371 CHIGH = 159428/1372

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Medium hydrocarbons (C10-21)	<u>14400</u>	<u>16800</u>	<u>18700</u>	<u>19200</u>	<u>20100</u>	<u>17800</u>	<u>12.8</u>
Heavy hydrocarbons (C21-C40)	<u>29800</u>	<u>26200</u>	<u>37000</u>	<u>35300</u>	<u>31900</u>	<u>33100</u>	<u>14.6</u>



## TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date: 3/4/94 Time: 07.39  
 Lab File ID: 558136 Initial Calib Date(s): 2/16/94  
 Initial Calib Times: 16:23 19:53

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	17800	16100	NA	9.91	
Heavy hydrocarbons (C21-C40)	3300	2800	NA	15.2	

## TEH CONTINUING CALIBRATION CHECK

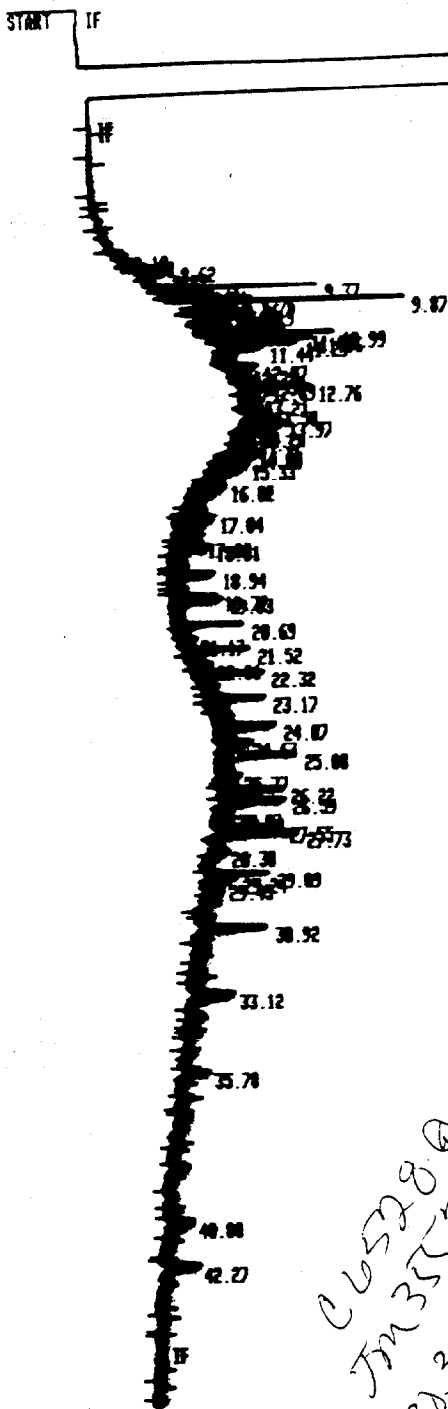
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date: 3-4-94 Time: 14:19  
 Lab File ID: 159538/504 Initial Calib Date(s): 2/16/94  
 Initial Calib Times: 16.23 19.53

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	<u>17800</u>	<u>16800</u>	NA	<u>95.68</u>	
Heavy hydrocarbons (C21-C40)	<u>33100</u>	<u>34400</u>	NA	<u>4.00</u>	

## TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date: 03/04/94 Time: 2025  
 Lab File ID: 91545/571 Initial Calib Date(s): 02/16/94  
 Initial Calib Times: 1623 1953

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	<u>17800</u>	<u>16800</u>	NA	<u>5.65</u>	
Heavy hydrocarbons (C21-C40)	<u>33100</u>	<u>34300</u>	NA	<u>3.80</u>	



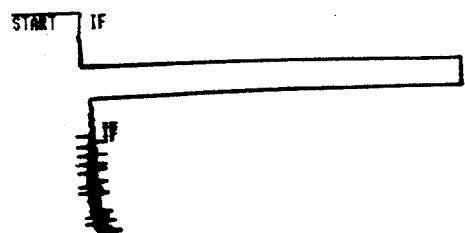
*C6578 @ 10/14  
 JM 355-7  
 Ba.3 → 1.0  
 Mul = 147*

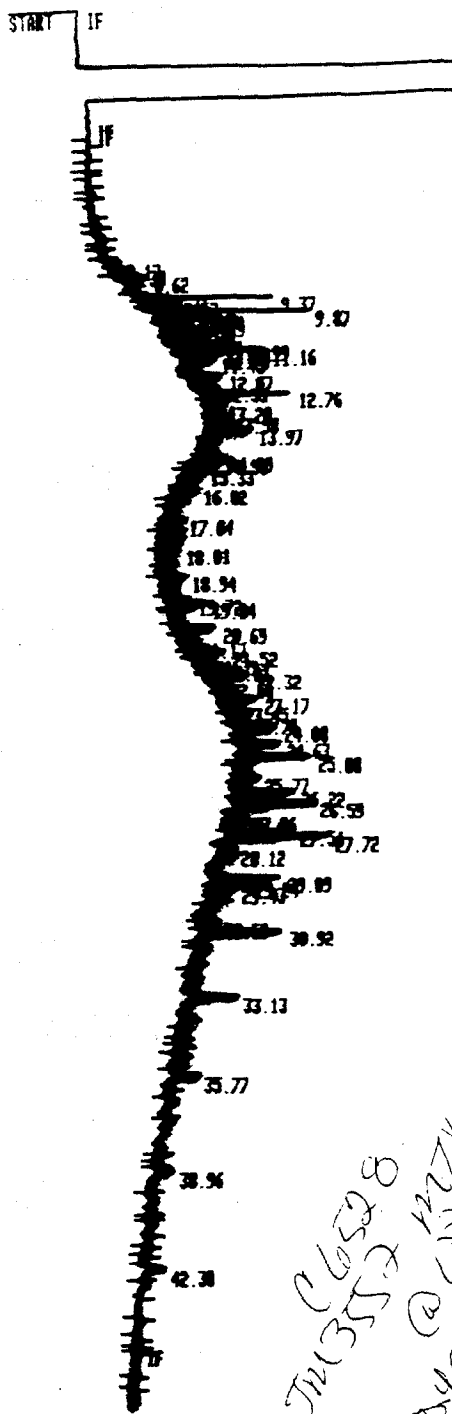
RUN # 561  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 3

MAR/04/94 11:43:58

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.61	2611200 ++	0.045	45.586
	30.87	3116800 ++	0.069	54.414

TOTAL AREA= 5728000  
 MUL FACTOR= 1.0000E+00

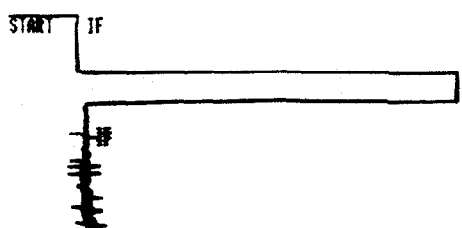


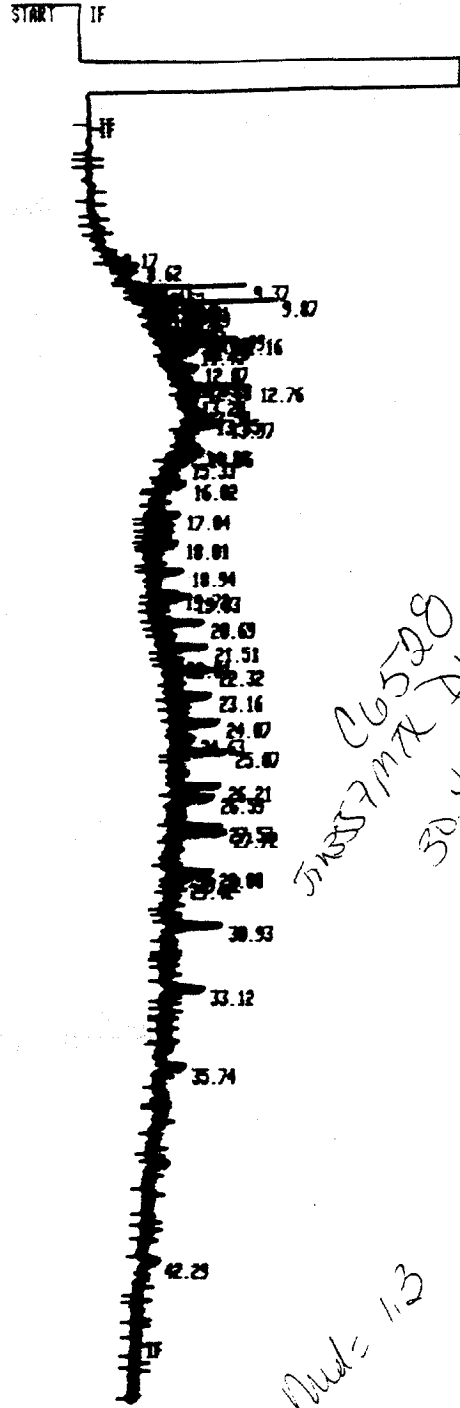


RUN # 562 MAR/04/94 12:35:48  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 4

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.60	1777500 ++	0.045	34.672
	30.15	3349100 ++	0.088	65.328

TOTAL AREA= 512600  
 MUL FACTOR= 1.0000E+00





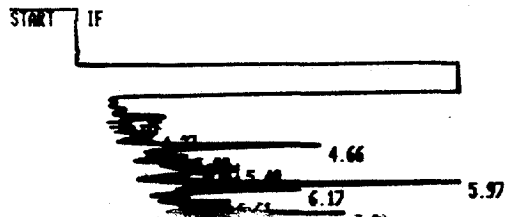
*Handwritten notes:*  
 06528  
 JMS7M7X Dup @100X  
 30.45 -> 1. and

*Handwritten note:*  
 Peak = 1.3

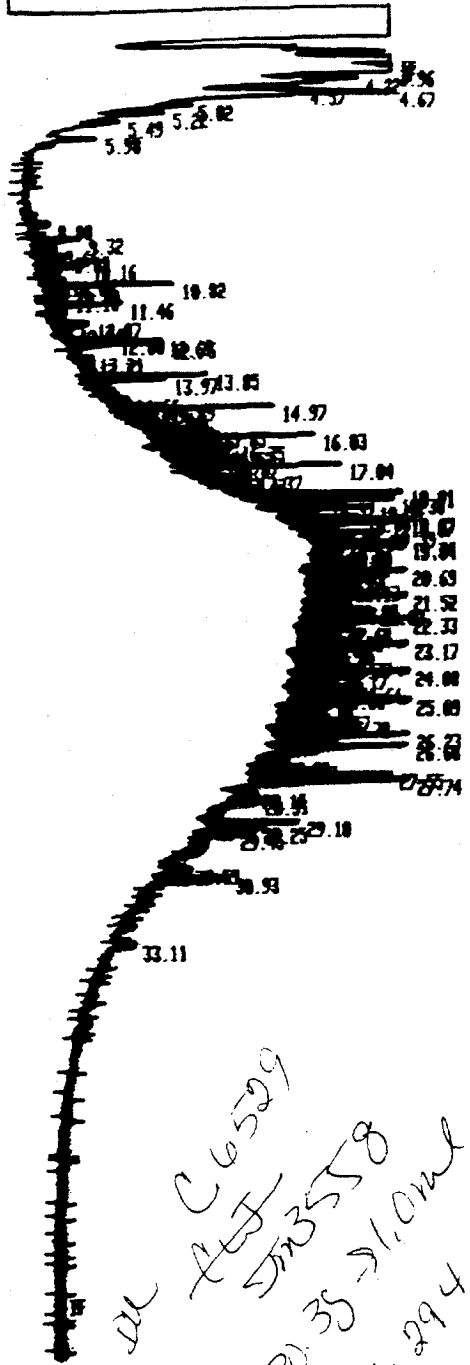
RUN # 563                      MAR/04/94 13:27:30  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 5

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.60	1579000 ++	0.045	43.999
	30.15	2009000 ++	0.068	56.001

TOTAL AREA= 350000  
 MUL FACTOR= 1.0000E+00



START IF



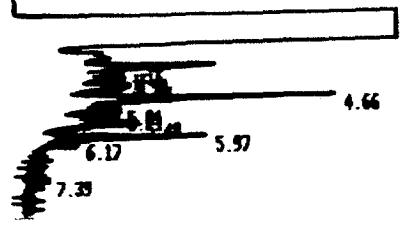
RUN # 565  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 1

MAR/04/94 15:14:37

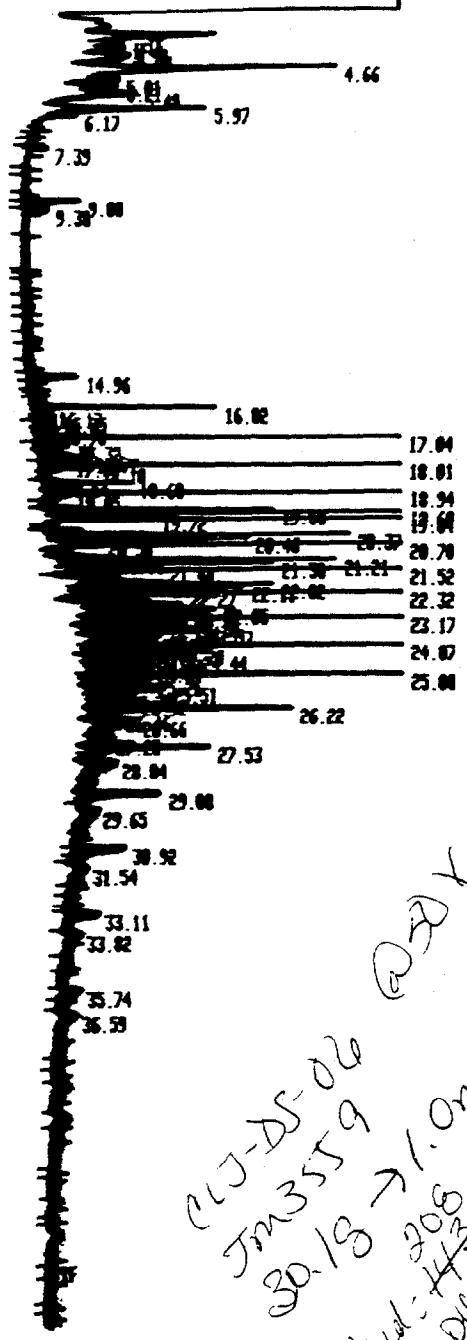
AREA2	RT	AREA TYPE	AR/HT	AREA2
	10.58	5241200 ++	0.058	21.629
	25.24	1.8992E+07 ++	0.058	78.371

TOTAL AREA= 2.4233E+07  
 MUL FACTOR= 1.0000E+00

START IF



START IF



*Handwritten notes:*  
 @RDX  
 CW-DS-06  
 JM3559  
 30-18 → 1.0ml  
 208  
 4432  
 Disc  
 3-11-94

RUN # 566      MAR/04/94 16:06:19  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 2

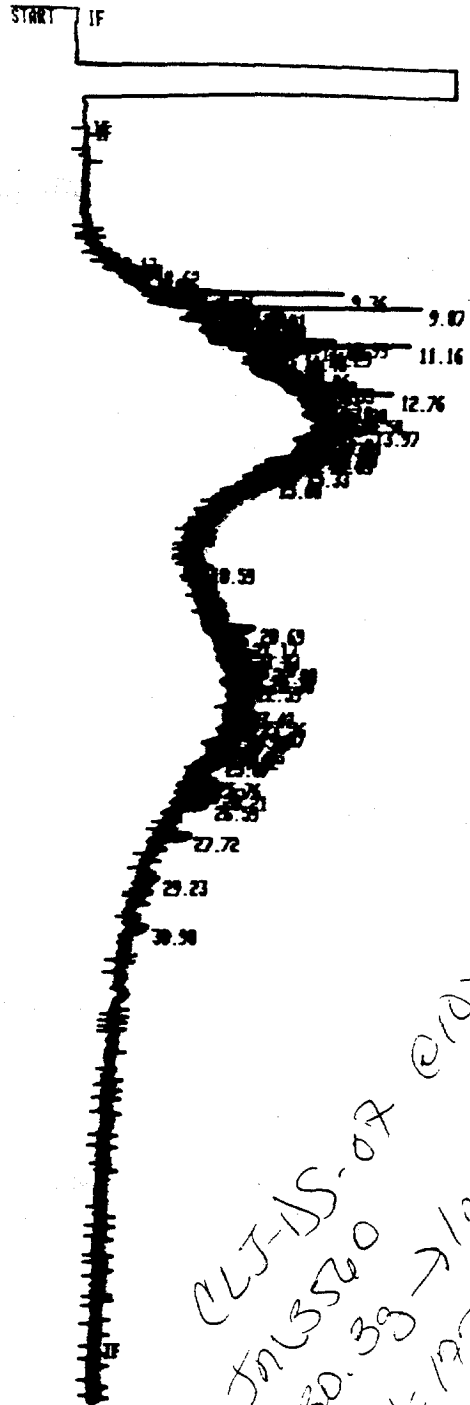
AREA2	RT	AREA TYPE	AR/NT	AREAR
	18.51	3783700 ++	0.063	12.683
	26.95	2.5498E+07 0 ++	0.051	87.317

TOTAL AREA= 2.9201E+07  
 MUL FACTOR= 1.0000E+00

START IF



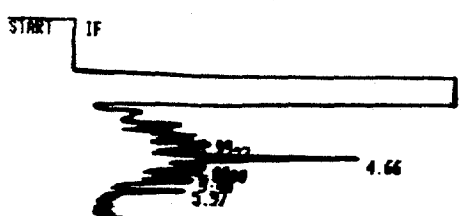




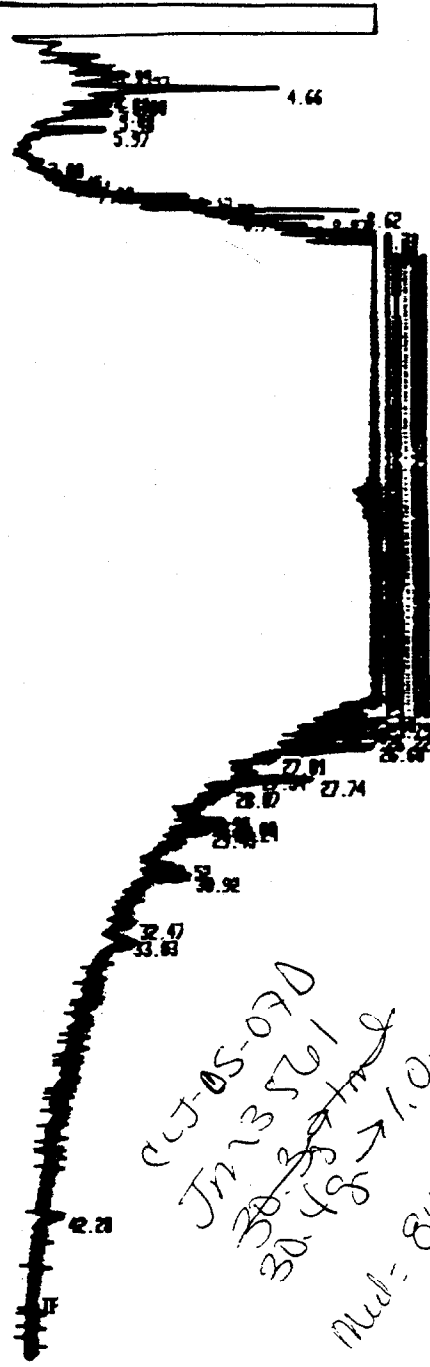
RUN # 567  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 3  
 MAR/04/94 16:58:07

AREA2	RT	AREA TYPE	AR/HT	AREA2
	11.92	3143900 ++	0.044	67.642
	24.74	1583900 ++	0.079	32.358

TOTAL AREA= 4647700  
 MUL FACTOR= 1.0000E+00



START IF

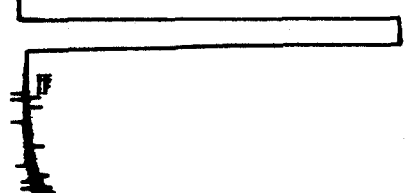


RUN # 569 MAR/04/94 17:49:48  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 4

AREA2	RT	AREA TYPE	AR/HT	AREA2
	10.60	1.5068E+02 D ++	0.047	73.435
	29.82	5458900 D ++	0.059	26.565

TOTAL AREA= 2.0519E+02  
 MUL FACTOR= 1.0000E+00

START IF





*Handwritten notes:*  
 CLJ-DS-08 @ 574  
 30.35 > 1.0ml  
 Mul = 83.5 J

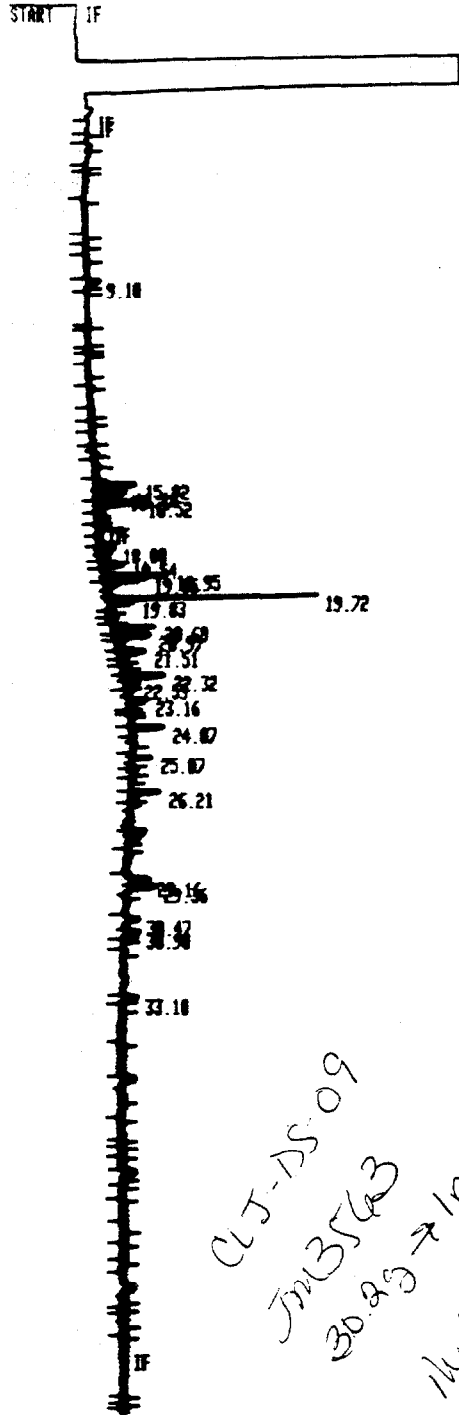
RUN # 569  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 5

MAR/04/94 18:41:33

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.82	1485500 ++	0.843	28.868
	28.41	5633000 ++	0.853	79.132

TOTAL AREA= 7118500  
 MUL FACTOR= 1.0000E+00





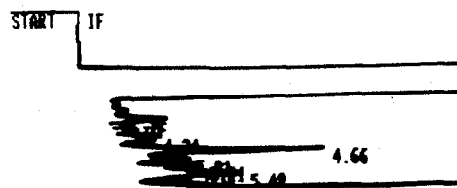
*CLJ-DS-09*  
*Jm3563*  
*30.92 → 1ml*  
*1ml = 134 (u)*  
*AD*

RUN # 570  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 6

MAR/04/94 19:33:16

AREA2	RT	AREA TYPE	AR/MT	AREA2
	12.81	238410 ++	0.046	14.528
	25.55	1403588 ++	0.853	85.488

TOTAL AREA= 1641988  
 MUL FACTOR= 1.0000E+00



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: N2P40135P

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: ^Z4140

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

Date Received: 2-18-94

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 2-27-94

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 3-22-94

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/kg

Q

319-84-6	alpha-BHC	6.67	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
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		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	133	↓
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		



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527MS

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3564PS  
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: 124142  
 % Moisture: 20.2 decanted: (Y/N) N Date Received: 2-18-94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94  
 Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0 <sup>PS</sup> 50.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
319-84-6	alpha-BHC	330	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	10,000	
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6600	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		

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527MSD

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3564PR

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: 1Z4143

% Moisture: 20.2 decanted: (Y/N) N

Date Received: 2-18-94

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 2-27-94

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 3-22-94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0 <sup>PS</sup> 50.0

GPC Cleanup: (Y/N) N

pH: 5

Sulfur Cleanup: (Y/N) N

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

319-84-6	alpha-BHC	330	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	15,700	
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6600	
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		
11096-82-3	Aroclor-1260		



10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) SOIL Lab Sample ID: 1M3564P

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 1Z4144

% Moisture: 20.2 decanted: (Y/N) N Date Received: 2-18-94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0<sup>PL</sup> 50.0

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

CONCENTRATION UNITS:

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

319-84-6	alpha-BHC	331	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE	533	
72-20-8	Endrin	331	U
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	24,500	
72-43-5	Methoxychlor	331	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6620	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		

2F  
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 GC Column(1): DB-603 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	PRINOL	58.0*	69.6	130	149			1
02	P-PRINOL	59.4*	69.6	135	151*			2
03	C6527MS	D	D	D	D			
04	C6527MSD	D	D	D	D			
05	C6527	D	D	D	D			
06								
07								
08								
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 (30-150)  
 DCB = Decachlorobiphenyl (60-150)

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

PESTICIDE BLANK SPIKE RECOVERY

0107

Lab Name: ASC Contract: NEESA

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

Blank Spike - EPA Sample No.: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)					56-120
Heptachlor	6.92	✓	7.76	112	40-131
Heptachlor Epoxide	9.32	✓	8.68	93.1	30-130
Toxaphene	316		360	114	30-130
Endrin	22.5	✓	27.2	119	30-130
Methoxychlor					30-130
gamma-Chlordane	23.4	✓	24.6	105	30-130
alpha-Chlordane	23.7	✓	25.6	108	30-130
					30-130
					30-103
					30-130

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

\* Values outside of QC limits

Spike Recovery: 0 out of 8 outside limits

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

3F  
SOIL 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.: C6527

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	47.4	0	0	0 *	46-127
Heptachlor	37.2	0	0	0 *	35-130
Aldrin	45.0	0	0	0 *	34-132
Dieldrin	23.2	0	0	0 *	31-134
Endrin	88.4	0	0	0 *	42-133
4,4'-DDT	64.0	24,500	15,700 DL 10,000	0 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)	47.4	0	0 *	NA *	50 46-127
Heptachlor	37.2	0	0 *	*	31 35-130
Aldrin	45.0	0	0 *	*	43 34-132
Dieldrin	23.2	0	0 *	*	38 31-134
Endrin	88.4	0	0 *	*	45 42-133
4,4'-DDT	64.0	15,700	0 *	↓ *	50 23-134

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

\* Values outside of QC limits

RPD: 6 out of 6 outside limits  
 Spike Recovery: 12 out of 12 outside limits

COMMENTS: The <sup>MS</sup>MS and MSD are diluted out <sup>due</sup> to a high level of the analyte being in the original sample.

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA PBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: NAP40135P Lab File ID: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC  
 Sulfur Cleanup: (Y/N) N Date Extracted: 2-27-94  
 Date Analyzed (1): 3-22-94 Date Analyzed (2): 3-22-94  
 Time Analyzed (1): 14.31 Time Analyzed (2): 15.16  
 Instrument ID (1): 1 Instrument ID (2): 2  
 GC Column (1): DB-608 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	<u>PBLK01</u>	<u>NAP40135P</u>	<u>3-22-94</u>	<u>3-22-94</u>
02	<u>C6527MS</u>	<u>1M3564P</u>		
03	<u>C6527MSD</u>	<u>1M3564P</u>		
04	<u>C6527</u>	<u>1M3564P</u>		
05				
06				
07				
08				
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

Job Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG 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	17.96	17.96	17.96	17.96	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.

## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

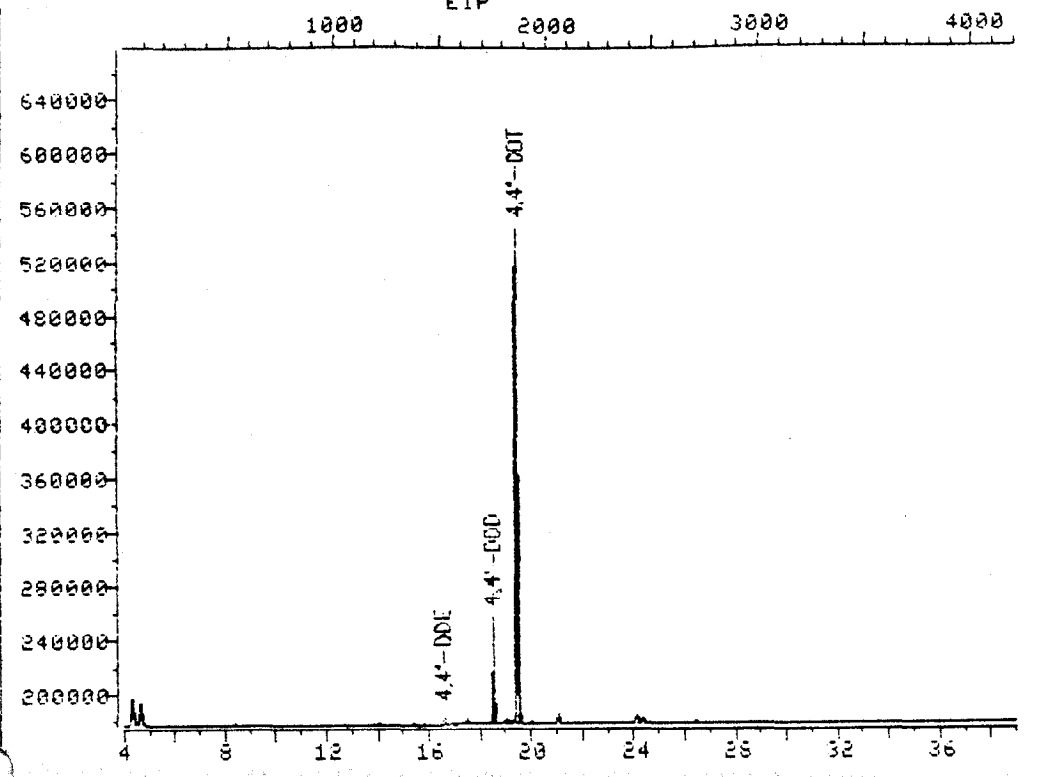
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 2 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
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.

## CHROMATOGRAM

File >Z4144 .7-1.7 amu. 15226N-C6527 JM3564P,N2P40135,S:G  
EIP

Data File: &gt;Z4144::D5

Quant Output File: ^Z4144::D5

Name: 15226N-C6527

Instrument ID: Z

Misc: JM3564P,N2P40135,S:G1,30.2,2:50, 500X

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 : 940322 18:10

Injected at: 940322 17:30



DL 0113  
3-23-94

QUANT REPORT

Page 1

Operator ID: USER1                      Quant Rev: 7                      Quant Time: 940322 18:10  
Output File: ^Z4144::05                      Injected at: 940322 17:30  
Data File: >Z4144::05                      Dilution Factor: 10.00000  
Name: 15226N-C6527                      Instrument ID: Z  
Misc: JM3564P,N2P40135,S:G1,30.2,2:50, 500X

ID File: IZP307::05  
Title: PESTICIDES DB-608 BY GC 82 (FRONT)  
Last Calibration: 940308 07:26                      Last Qcal Time: <none>

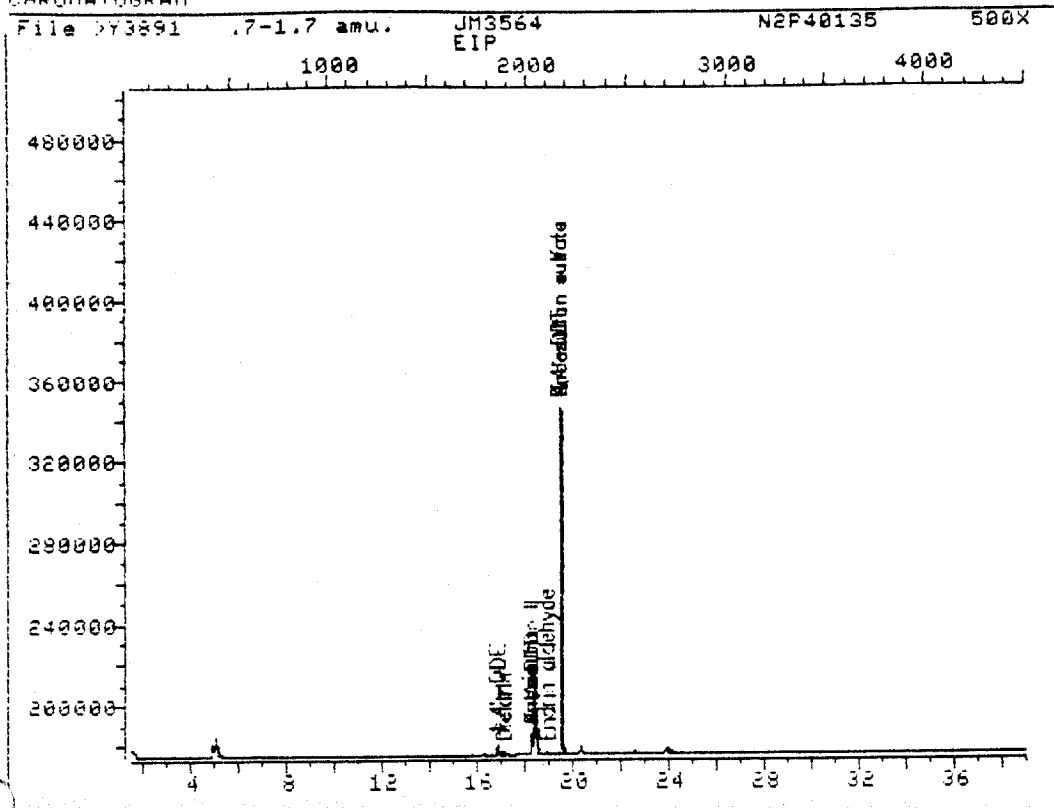
Compound	R.T.	Scan#	Area	Conc	Units	q
+13) #4,4'-DDE	16.54	1506	44928	.161	ug/ml	100
*16) <del>#4,4'-DDD</del>	18.46	1736	408099	<del>1.83</del>	<del>ug/ml</del>	100
+18) #4,4'-DDT	19.42	1851	1563592	7.40	ug/ml	100

# Compound uses ESTD

+ Confirmed present on DB's (Run# Y3891)

\* Confirmed not present

## CHROMATOGRAM



Data File: >Y3891::05  
Name: JM3564  
Misc: N2P40135 500X

Quant Output File: ^Y3891::05  
Instrument ID: Y

Id File: IYP307::05  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940322 18:55  
Injected at: 940322 18:15

## QUANT REPORT

Page 1

Operator ID: USER1  
Output File: ^Y3891::D5  
Data File: >Y3891::D5  
Name: JM3564  
Misc: N2P40135 500X

Quant Rev: 7 Quant Time: 940322 18:55  
Injected at: 940322 18:15  
Dilution Factor: 10.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
13) #4,4'-DDE	16.84	1842	20063	.141	ug/ml	100
14) #Dieldrin	17.09	1872	9247	.0616	ug/ml	100
15) #Endrin	18.24	2010	41504	.310	ug/ml	100
16) #Endosulfan II	18.24	2010	41504	.326	ug/ml	100
17) #4,4'-DDD	18.24	2010	41504	.326	ug/ml	100
18) #Endrin aldehyde	18.89	2088	6335	.0544	ug/ml	100
19) #4,4'-DDT	19.49	2160	792230	7.89	ug/ml	100
20) #Endosulfan sulfate	19.49	2160	792230	7.89	ug/ml	100

Compound uses ESTD

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESABLK01Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix: (soil/water) soilLab Sample ID: N2P40139PSample wt/vol: 30.0 (g/mL) gLab File ID: A41878% Moisture: \_\_\_\_\_ decanted: (Y/N) NDate Received: 2/18/94Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 3/11/94Concentrated Extract Volume: 5000 (uL)Date Analyzed: 3/17/94Injection Volume: 2.0  
1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: 7Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	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		
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin		
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		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	<u>250</u>	<u>U</u>
11104-28-2-	Aroclor-1221	<u>250</u>	<u>U</u>
11141-16-5-	Aroclor-1232	<u>250</u>	<u>U</u>
53469-21-9-	Aroclor-1242	<u>250</u>	<u>U</u>
12672-29-6-	Aroclor-1248	<u>250</u>	<u>U</u>
11097-69-1-	Aroclor-1254	<u>250</u>	<u>U</u>
11096-82-5-	Aroclor-1260	<u>250</u>	<u>U</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA BSK01

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

Matrix: (soil/water) soil Lab Sample ID: N2P40139PS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A41379

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Received: 2/18/94

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 3/11/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/17/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/kg 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		
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin		
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		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	250	U
11104-28-2-	Aroclor-1221	250	U
11141-16-5-	Aroclor-1232	250	U
53469-21-9-	Aroclor-1242	250	U
12672-29-6-	Aroclor-1248	250	U
11097-69-1-	Aroclor-1254	295	U
11096-82-5-	Aroclor-1260	250	U

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6527

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

Matrix: (soil/water) soil Lab Sample ID: JM3564P

Sample wt/vol: 30.1 (g/mL) g Lab File ID: A41924

% Moisture: 81.1 decanted: (Y/N) N Date Received: 2/18/94

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 3/11/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/17/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/kg
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		
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin		
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		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	250	U
11104-28-2-	Aroclor-1221	250	U
11141-16-5-	Aroclor-1232	250	U
53469-21-9-	Aroclor-1242	250	U
12672-29-6-	Aroclor-1248	250	U
11097-69-1-	Aroclor-1254	250	U
11096-82-5-	Aroclor-1260	250	U

PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

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

GC Column(1): <sup>17</sup>~~DB-608~~ ID: .53 (mm) GC Column(2): <sup>NA</sup>~~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	BLK-01	75.7		95.7				0
02	BSPK-01	80.5		92.2				0
03	C6527	D		D				1
04								
05								
06								
07								
08								
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 (60-150)

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

## PCB BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: BSK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Aroclor 1254	335	0	290	90.8	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: \_\_\_\_\_



PCB 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.: C6527,

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor 1254	—	—	—	—	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor 1254	—	—	—	—	30 30	30-130 30-130

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

\* Values outside of QC limits

RPD:        out of   1   outside limits

Spike Recovery:        out of   2   outside limits

COMMENTS: MATRIX SPIKES DILUTED OUT DUE TO MATRIX INTERFERENCES.

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A  
 Lab Sample ID: N2P40139P Lab File ID: A41876  
 Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC  
 Sulfur Cleanup: (Y/N) N Date Extracted: 3/11/94  
 Date Analyzed (1): 3/14/94 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 1351 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): A4F Instrument ID (2): \_\_\_\_\_  
 GC Column (1): DB 17 ID: 53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_

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>BLK 01</u>	<u>N2P40139P</u>	<u>3/14/94</u>	
02	<u>BSK 01</u>	<u>N2P40139PS</u>	<u>✓</u>	
03	<u>C6527</u>	<u>JM 3564P</u>	<u>3/17/94</u>	
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COMMENTS:

PCB INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: A4F Calibration Date (s): 2/8/94 2/9/94  
 Calibration Time (s): 1232 0312

LAB FILE ID: \_\_\_\_\_ CLOW = \_\_\_\_\_ CMEDL = \_\_\_\_\_  
 CMED = \_\_\_\_\_ CMEDH = \_\_\_\_\_ CHIGH = \_\_\_\_\_

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Aroclor-1016	1200000	1190000	1160000	1150000	1110000	1160000	3.17
Aroclor-1221	3590000	3530000	3530000	3400000	3190000	3600000	8.92
Aroclor-1232	—	—	—	—	—	—	—
Aroclor-1242	9460000	9460000	9370000	9200000	8760000	9300000	3.74
Aroclor-1248	10500000	10200000	10300000	10100000	9820000	10200000	2.51
Aroclor-1254	14900000	14500000	12800000	14300000	12400000	13800000	7.88
Aroclor-1260	12600000	12600000	13100000	13600000	13900000	13100000	4.50

## PCB CONTINUING CALIBRATION CHECK

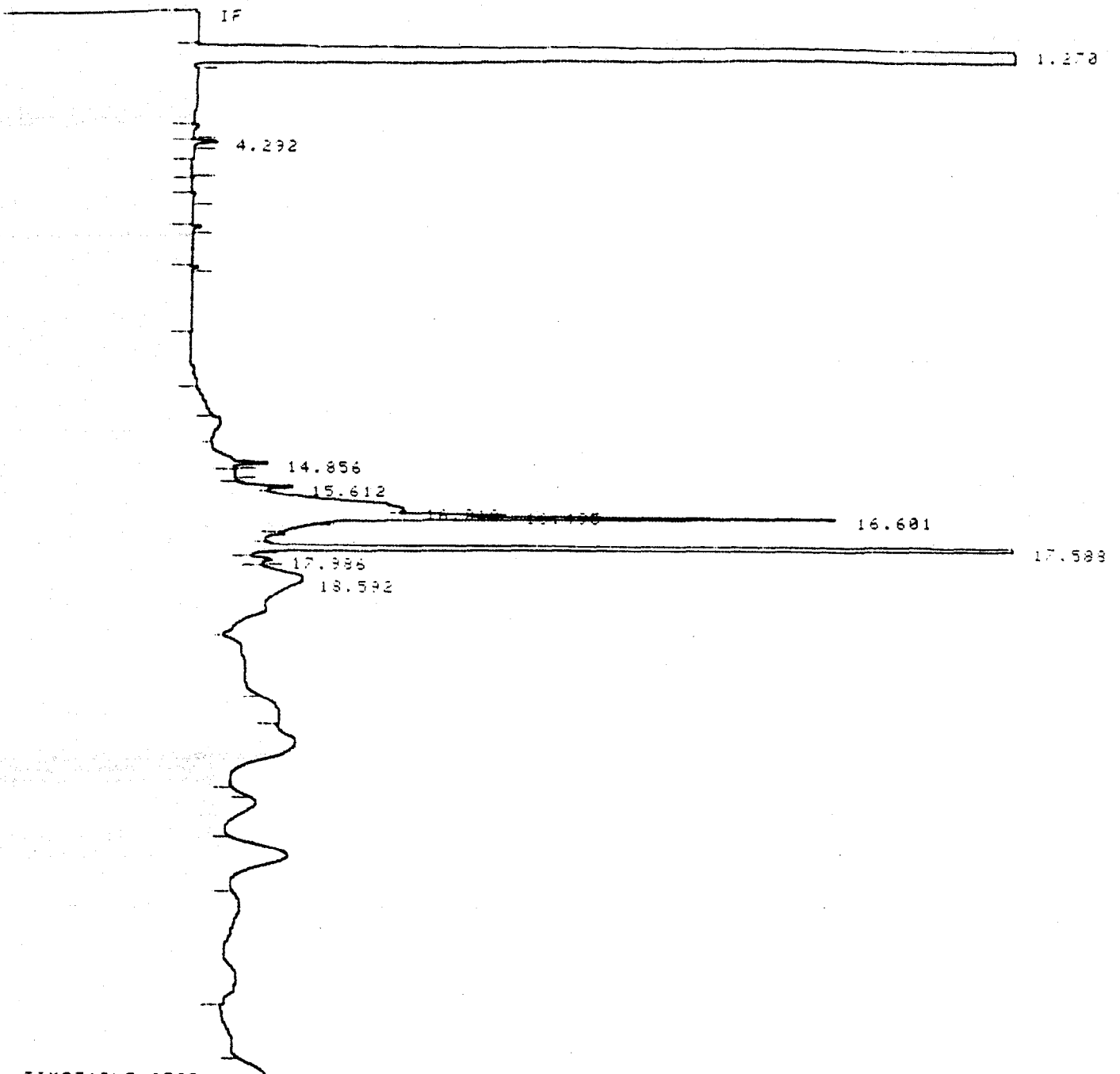
Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAInstrument ID: A4F Calibration Date: 3/14/94 Time: 0722 - 1005Lab File ID: \_\_\_\_\_ Initial Calib Date(s): 2/8/94 2/9/94Initial Calib Times: 1.232 0.312

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Aroclor-1016	1160000	1180000	NA	1.79	15
Aroclor-1221	360000	371000	NA	3.14	15
Aroclor-1232	—	—	NA	—	—
Aroclor-1242	950000	919000	NA	1.16	15
Aroclor-1248	1020000	975000	NA	4.39	15
Aroclor-1254	1250000	1400000	NA	1.47	15
Aroclor-1260	1310000	1300000	NA	1.30	15

## PCB CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: A4F Calibration Date: 3/17/94 Time: 0844-1127  
 Lab File ID: \_\_\_\_\_ Initial Calib Date(s): 2/8/94 2/9/94  
 Initial Calib Times: 1232 0312

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Aroclor-1016	1160000	1200000	NA	3.52	15
Aroclor-1221	360000	371000	NA	3.20	15
Aroclor-1232	—	—	NA	—	—
Aroclor-1242	930000	927000	NA	.303	15
Aroclor-1248	1020000	975000	NA	4.39	15
Aroclor-1254	1380000	1420000	NA	2.78	15
Aroclor-1260	1310000	1370000	NA	4.11	15



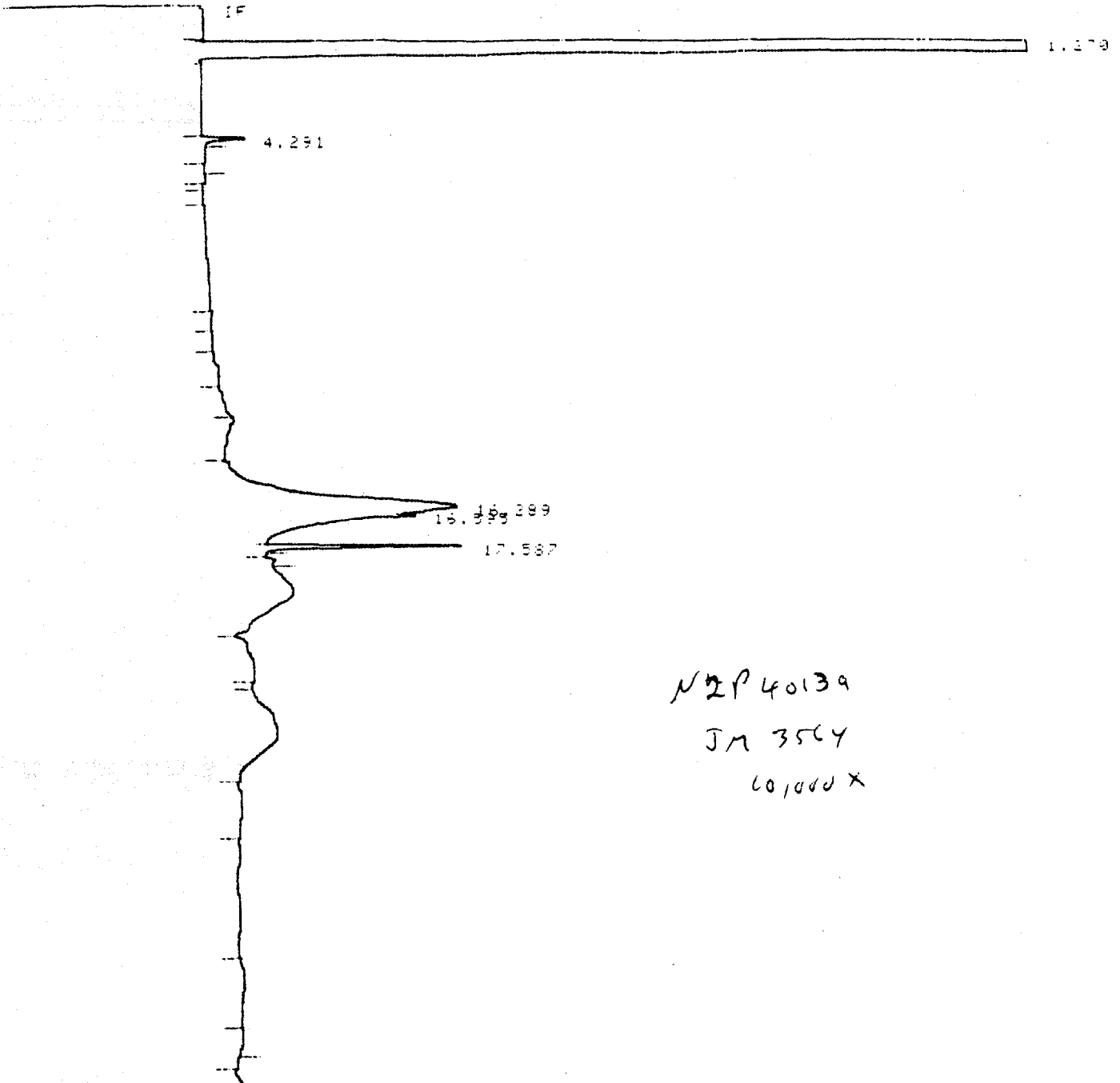
TIMETABLE STOP

RUN# 1924 MAR 17, 1994 13:40:15

AREA#

RT	AREA	TYPE	WIDTH	AREA%
1.270	4810995	BB	.197	82.57555
4.292	5461	BB	.102	.09373
14.856	9696	PB	.117	.16642
15.612	9845	BV	.101	.16898
16.318	111116	VV	.426	1.90719
16.495	41693	VV	.092	.71562
16.601	112734	VB	.099	1.93496
17.588	598717	PB	.089	10.27633
17.986	4057	BB	.116	.06963
18.592	121858	BB	1.104	2.09156

NAP 40139  
JN 3564  
1000 X



N2P40139  
JM 3564  
60,000 X

TIMETABLE STOP

AREA:

RT	AREA	TYPE	WIDTH	AREA%
1.270	4853354	VB	.198	91.79891
4.291	9299	BB	.103	.17589
16.289	275340	PV	.615	5.20793
16.595	109740	VV	.310	2.07568
17.587	39207	VB	.093	.74158

TOTAL AREA=5286938

MUL FACTOR=1.0000E+00

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBLK1  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N2C40133  
 Sample (wt/vol): 30.0 (g/mL) g Lab File ID: A1013  
 Level: (low/med) low Date Received: 02-18-94  
 % Moisture: - decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
108-95-2	Phenol	332	U
111-44-4	bis(2-Chloroethyl) ether	332	U
95-57-8	2-Chlorophenol	332	U
541-73-1	1,3-Dichlorobenzene	332	U
106-46-7	1,4-Dichlorobenzene	332	U
95-50-1	1,2-Dichlorobenzene	332	U
95-48-7	2-Methylphenol	332	U
108-60-1	2,2'-oxybis(1-Chloropropane)	332	U
106-44-5	4-Methylphenol	332	U
621-64-7	N-Nitroso-di-n-propylamine	332	U
67-72-1	Hexachloroethane	332	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	332	U
88-75-5	2-Nitrophenol	332	U
105-67-9	2,4-Dimethylphenol	332	U
111-91-1	bis(2-Chloroethoxy)methane	332	U
120-83-2	2,4-Dichlorophenol	332	U
120-82-1	1,2,4-Trichlorobenzene	332	U
91-20-3	Naphthalene	332	U
106-47-8	4-Chloroaniline	332	U
87-68-3	Hexachlorobutadiene	332	U
59-50-7	4-Chloro-3-methylphenol	332	U
91-57-6	2-Methylnaphthalene	332	U
77-47-4	Hexachlorocyclopentadiene	332	U
88-06-2	2,4,6-Trichlorophenol	332	U
95-95-4	2,4,5-Trichlorophenol	332	U
91-58-7	2-Chloronaphthalene	332	U
88-74-4	2-Nitroaniline	332	U
131-11-3	Dimethylphthalate	332	U
208-96-8	Aceraphthylene	332	U
606-20-2	2,4-Dinitrotoluene	332	U
99-09-2	3-Nitroaniline	332	U
83-32-9	Acenaphthene	332	U



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBLK1

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

Matrix: (soil/water) SOIL Lab Sample ID: 112040133

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A1013

Level: (low/med) low Date Received: 02-18-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
51-28-5-----	2,4-Dinitrophenol	1660	U
100-02-7-----	4-Nitrophenol	1660	U
132-64-9-----	Dibenzofuran	332	U
121-14-2-----	2,4-Dinitrotoluene	332	U
84-66-2-----	Diethylphthalate	332	U
7005-72-3-----	4-Chlorophenyl-phenylether	332	U
86-73-7-----	Fluorene	332	U
100-01-6-----	4-Nitroaniline	332	U
534-52-1-----	4,6-Dinitro-2-methylphenol	332	U
86-30-6-----	N-Nitrosodiphenylamine (1)	332	U
101-55-3-----	4-Bromophenyl-phenylether	332	U
118-74-1-----	Hexachlorobenzene	332	U
87-86-5-----	Pentachlorophenol	332	U
85-01-8-----	Phenanthrene	332	U
120-12-7-----	Anthracene	332	U
86-74-8-----	Carbazole	332	U
84-74-2-----	Di-n-butylphthalate	332	U
206-44-0-----	Fluoranthene	332	U
129-00-0-----	Pyrene	332	U
85-68-7-----	Butylbenzylphthalate	332	U
91-94-1-----	3,3'-Dichlorobenzidine	332	U
56-55-3-----	Benzo(a)anthracene	332	U
218-01-9-----	Chrysene	332	U
117-31-7-----	bis(2-Ethylhexyl)phthalate	332	U
117-34-0-----	Di-n-octylphthalate	332	U
205-99-2-----	Benzo(b)fluoranthene	332	U
207-08-9-----	Benzo(k)fluoranthene	332	U
50-32-8-----	Benzo(a)pyrene	332	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	332	U
53-70-3-----	Dibenz(a,h)anthracene	332	U
191-24-2-----	Benzo(g,h,i)perylene	332	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SRLK1

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: N2040133

Sample (wt/vol): 30.0 (g/mL)

Lab File ID: A1013

Level: (low/med) Low

Date Received: 02-18-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	<u>Unknown</u>	<u>14.045</u>	<u>793</u>	<u>J</u>
2.	<u>Unknown brominated hydrocarbon</u>	<u>17.102</u>	<u>290</u>	<u>J</u>
3.	<u>Unknown</u>	<u>17.574</u>	<u>472</u>	<u>J</u>
4. <u>103-23-1</u>	<u>Bis(2-ethylhexyl) ester Hexanoic acid</u>	<u>24.160</u>	<u>397</u>	<u>J</u>
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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NFESA SSPK 1  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: N2401385  
 Sample wt/vol: 300 (g/mL) g Lab File ID: A1014  
 Level: (low/med) LOW Date Received: 02-28-94  
 % Moisture: - decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	g
108-95-2	Phenol	2290	
111-44-4	bis(2-Chloroethyl) ether	853	
95-57-8	1-Chlorophenol	2060	
541-73-1	1,3-Dichlorobenzene	332	U
106-46-7	1,4-Dichlorobenzene	1460	
95-50-1	1,2-Dichlorobenzene	1470	
95-48-7	2-Methylphenol	1430	
108-60-1	2,2'-oxybis(1-Chloropropane)	332	U
106-44-5	4-Methylphenol	332	U
621-64-7	N-Nitroso-di-n-propylamine	1310	
67-72-1	Hexachloroethane	1600	
98-95-3	Nitrobenzene	332	U
78-59-1	Isophorone	1960	
88-75-5	2-Nitrophenol	123	J
105-67-9	2,4-Dimethylphenol	332	U
111-91-1	bis(2-Chloroethoxy)methane	332	U
120-83-2	2,4-Dichlorophenol	2750	
120-82-1	1,2,4-Trichlorobenzene	1700	
91-20-3	Naphthalene	332	U
106-47-8	4-Chloroaniline	617	
87-68-3	Hexachlorobutadiene	332	U
59-50-7	4-Chloro-3-methylphenol	2510	
91-57-6	2-Methylnaphthalene	2070	
77-47-4	Hexachlorocyclopentadiene	332	U
88-06-2	2,4,6-Trichlorophenol	2450	
95-95-4	2,4,5-Trichlorophenol	2640	
91-58-7	2-Chloronaphthalene	332	U
88-74-4	2-Nitroaniline	332	U
131-11-3	Dimethylphthalate	332	U
208-96-8	Acenaphthylene	2090	
606-20-2	2,6-Dinitrotoluene	367	J
99-09-2	3-Nitroaniline	332	U
83-32-9	Acenaphthene	1950	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SSPL1

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

Matrix: (soil/water) SOIL Lab Sample ID: N2CHL33CS

Sample wt/vol: 300 (g/mL) g Lab File ID: A1014

Level: (low/med) LOW Date Received: 02-18-94

Moisture: - decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 20 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:     

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
51-28-5	2,4-Dinitrophenol	3390	
100-02-7	4-Nitrophenol	3770	
132-64-9	Dibenzofuran	332	U
121-14-2	2,4-Dinitrotoluene	2940	
84-66-2	Diethylphthalate	332	U
7005-72-3	4-Chlorophenyl-phenylether	332	
86-73-7	Fluorene	332	U
100-01-6	4-Nitroaniline	2540	
534-52-1	4,6-Dinitro-2-methylphenol	332	U
86-30-6	N-Nitrosodiphenylamine (1)	332	U
101-55-3	4-Bromophenyl-phenylether	2260	
118-74-1	Hexachlorobenzene	437	U
87-66-5	Pentachlorophenol	4430	
85-01-8	Phenanthrene	1830	
120-12-7	Anthracene	1820	
86-74-8	Carbazole	2470	
84-74-2	Di-n-butylphthalate	1280	
206-44-0	Fluoranthene	332	U
129-00-0	Pyrene	2090	
85-68-7	Butylbenzylphthalate	2390	
91-94-1	3,3'-Dichlorobenzidine	1740	
56-55-3	Benzo(a)anthracene	2570	
218-01-9	Chrysene	2700	
117-31-7	bis(2-Ethylhexyl)phthalate	2050	
117-34-0	Di-n-octylphthalate	332	U
205-99-2	Benzo(b)fluoranthene	332	U
207-08-9	Benzo(k)fluoranthene	332	U
50-32-8	Benzo(a)pyrene	2740	
193-39-5	Indeno(1,2,3-cd)pyrene	332	U
53-70-3	Dibenz(a,h)anthracene	332	U
191-24-2	Benzo(g,h,i)perylene	332	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3564CS  
 Sample wt/vol: 0.5 (g/mL) g Lab File ID: A1016  
 Level: (low/med) LCW Date Received: 02-18-94  
 % Moisture: 30.3 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
108-95-2	Phenol	3770	
111-44-4	bis(2-Chloroethyl) ether	DL 3320 3280	U
95-57-8	1-Chlorophenol	3340	
541-73-1	1,3-Dichlorobenzene	DL 3320 3280	U
106-46-7	1,4-Dichlorobenzene	2620	
95-50-1	1,2-Dichlorobenzene	3000	
95-48-7	2-Methylphenol	1410	
108-60-1	2,2'-oxybis(1-Chloropropane)	3280	U
106-44-5	4-Methylphenol	3280	U
621-64-7	N-Nitroso-di-n-propylamine	3970	
67-72-1	Hexachloroethane	3310	
98-95-3	Nitrobenzene	3280	U
78-59-1	Isophorone	4030	
88-75-5	2-Nitrophenol	3280	U
105-67-9	2,4-Dimethylphenol	3280	U
111-91-1	bis(2-Chloroethoxy) methane	3280	U
120-83-2	2,4-Dichlorophenol	5410	
120-82-1	1,2,4-Trichlorobenzene	3900	
91-20-3	Naphthalene	3280	U
106-47-8	4-Chloroaniline	3280	U
87-68-3	Hexachlorobutadiene	3280	U
59-50-7	4-Chloro-3-methylphenol	4160	
91-57-6	2-Methylnaphthalene	5180	
77-47-4	Hexachlorocyclopentadiene	3280	U
88-06-2	2,4,6-Trichlorophenol	4460	
95-95-4	2,4,5-Trichlorophenol	5150	
91-58-7	2-Chloronaphthalene	3280	U
88-74-4	2-Nitroaniline	3280	U
131-11-3	Dimethylphthalate	3280	U
208-96-8	Acenaphthylene	5210	
606-20-2	2,6-Dinitrotoluene	3280	U
99-09-2	3-Nitroaniline	3280	U
83-32-9	Acenaphthene	4920	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

26527MS

Lab Name: ASC Contract: HEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: JM3564CR  
 Sample wt/vol: 305 (g/mL) g Lab File ID: A1016  
 Level: (low/med) LOW Date Received: 02-13-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH:     

CONCENTRATION UNITS:

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

51-28-5	2,4-Dinitrophenol	715	U
100-02-7	4-Nitrophenol	4300	U
132-64-9	Dibenzofuran	3280	U
121-14-2	2,4-Dinitrotoluene	3770	U
84-66-2	Diethylphthalate	3280	U
7005-72-3	4-Chlorophenyl-phenylether	3280	U
86-73-7	Fluorene	3280	U
100-01-6	4-Nitroaniline	3040	U
534-52-1	4,6-Dinitro-2-methylphenol	3280	U
86-30-6	N-Nitrosodiphenylamine (1)	3280	U
101-55-3	4-Bromophenyl-phenylether	4560	U
118-74-1	Hexachlorobenzene	3280	U
87-66-5	Pentachlorophenol	5480	U
85-01-8	Phenanthrene	3140	U
120-12-7	Anthracene	3120	U
86-74-8	Carbazole	4590	U
84-74-2	Di-n-butylphthalate	5240	U
206-44-0	Fluoranthene	3280	U
129-00-0	Pyrene	4590	U
85-68-7	Butylbenzylphthalate	5180	U
91-94-1	3,3'-Dichlorobenzidine	3280	U
56-55-3	Benzo(a)anthracene	4000 3280 DL	U PL
218-01-9	Chrysene	4130	U
117-31-7	bis(2-Ethylhexyl)phthalate	(500) 3280 DL	U DL
117-34-0	Di-n-octylphthalate	3280	U
205-99-2	Benzo(b)fluoranthene	3280	U
207-08-9	Benzo(k)fluoranthene	3280	U
50-32-8	Benzo(a)pyrene	1120	U
193-39-5	Indeno(1,2,3-cd)pyrene	3280	U
50-70-3	Dibenz(a,h)anthracene	3280	U
191-24-2	Benzo(g,h,i)perylene	3280	U

(1) - Cannot be separated from Diphenylamine

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CG527MSD

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3504R

Sample wt/vol: 30.54 (g/mL) g

Lab File ID: A1017

Level: (low/med) LOW

Date Received: 03-18-94

% Moisture: 20.2 decanted: (Y/N) N

Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03-26-94

Injection Volume: 20 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N pH:     

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 0

108-95-2	Phenol	3340	
111-44-4	bis(2-Chloroethyl) ether	3290	U
95-57-8	2-Chlorophenol	2740	
541-73-1	1,3-Dichlorobenzene	3290	U
106-46-7	1,4-Dichlorobenzene	2460	
95-50-1	1,2-Dichlorobenzene	3420	
95-48-7	2-Methylphenol	493	
108-60-1	2,2'-oxybis(1-Chloropropane)	3290	U
106-44-5	4-Methylphenol	3290	U
621-64-7	N-Nitroso-di-n-propylamine	3680	
67-72-1	Hexachloroethane	2970	
98-95-3	Nitrobenzene	3290	U
78-59-1	Isophorone	3720	
88-75-5	2-Nitrophenol	3290	U
105-67-9	2,4-Dimethylphenol	3290	U
111-91-1	bis(2-Chloroethoxy)methane	3290	U
120-83-2	2,4-Dichlorophenol	5230	
120-82-1	1,2,4-Trichlorobenzene	3780	
91-20-3	Naphthalene	3290	U
106-47-8	4-Chloroaniline	3290	U
87-68-3	Hexachlorobutadiene	3290	U
59-50-7	4-Chloro-3-methylphenol	4210	
91-57-6	2-Methylnaphthalene	5100	
77-47-4	Hexachlorocyclopentadiene	3290	U
88-06-2	2,4,6-Trichlorophenol	4050	
95-95-4	2,4,5-Trichlorophenol	4740	
91-58-7	2-Chloronaphthalene	3290	U
88-74-4	2-Nitroaniline	3290	U
131-11-3	Dimethylphthalate	3290	U
208-96-8	Aceraphthylene	4870	
606-20-2	2,6-Dinitrotoluene	3290	U
99-09-2	3-Nitroaniline	3290	U
83-32-9	Acenaphthene	4510	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

b Name: ASC Contract: C6527MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM35UHR  
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: A1017  
 Level: (low/med) LOW Date Received: 03-18-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	<u>Q</u>
51-28-5	2,4-Dinitrophenol	3290	U
100-02-7	4-Nitrophenol	3090	
132-64-9	Dibenzofuran	3290	U
121-14-2	2,4-Dinitrotoluene	3260	
84-66-2	Diethylphthalate	3290	U
7005-72-3	4-Chlorophenyl-phenylether	3290	U
86-73-7	Fluorene	3290	U
100-01-6	4-Nitroaniline	750	
534-52-1	4,6-Dinitro-2-methylphenol	3290	U
86-30-6	N-Nitrosodiphenylamine (1)	3290	U
101-55-3	4-Bromophenyl-phenylether	4700	
118-74-1	Hexachlorobenzene	3290	U
87-86-5	Pentachlorophenol	5920	
85-01-8	Phenanthrene	2990	
120-12-7	Anthracene	2970	
86-74-8	Carbazole	3680	
84-74-2	Di-n-butylphthalate	5360	
206-44-0	Fluoranthene	3290	U
129-00-0	Pyrene	4670	
85-68-7	Butylbenzylphthalate	5390	
91-94-1	3,3'-Dichlorobenzidine	3290	U
56-55-3	Benzo(a)anthracene	3980	
218-01-9	Chrysene	4240	
117-31-7	bis(2-Ethylhexyl)phthalate	6880	
117-34-0	Di-n-octylphthalate	3290	U
205-99-2	Benzo(b)fluoranthene	3290	U
207-08-9	Benzo(k)fluoranthene	3290	U
50-32-8	Benzo(a)pyrene	1640	
193-39-5	Indeno(1,2,3-cd)pyrene	3290	U
53-70-3	Dibenz(a,h)anthracene	3290	U
191-24-2	Benzo(g,h,i)perylene	3290	U

(1) - Cannot be separated from Diphenylamine



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527

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

Matrix: (soil/water) Soil Lab Sample ID: JM356A

Sample wt/vol: 30.1 (g/mL) g Lab File ID: A1015

Level: (low/med) low Date Received: 02-18-94

% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
108-95-2	Phenol	3320	U
111-44-4	bis(2-Chloroethyl) ether	3320	U
95-57-8	2-Chlorophenol	3320	U
541-73-1	1,3-Dichlorobenzene	3320	U
106-46-7	1,4-Dichlorobenzene	3320	U
95-50-1	1,2-Dichlorobenzene	3320	U
95-48-7	2-Methylphenol	3320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3320	U
106-44-5	4-Methylphenol	3320	U
621-64-7	N-Nitroso-di-n-propylamine	3320	U
67-72-1	Hexachloroethane	3320	U
98-95-3	Nitrobenzene	3320	U
78-59-1	Isophorone	3320	U
88-75-5	2-Nitrophenol	3320	U
105-67-9	2,4-Dimethylphenol	3320	U
111-91-1	bis(2-Chloroethoxy) methane	3320	U
120-83-2	2,4-Dichlorophenol	3320	U
120-82-1	1,2,4-Trichlorobenzene	3320	U
91-20-3	Naphthalene	3320	U
106-47-8	4-Chloroaniline	3320	U
87-68-3	Hexachlorobutadiene	3320	U
59-50-7	4-Chloro-3-methylphenol	3320	U
91-57-6	2-Methylnaphthalene	3320	U
77-47-4	Hexachlorocyclopentadiene	3320	U
88-06-2	2,4,6-Trichlorophenol	3320	U
95-95-4	2,4,5-Trichlorophenol	3320	U
91-58-7	2-Chloronaphthalene	3320	U
88-74-4	2-Nitroaniline	3320	U
131-11-3	Dimethylphthalate	3320	U
208-96-8	Acenaphthylene	3320	U
606-20-2	2,6-Dinitrotoluene	3320	U
99-09-2	3-Nitroaniline	3320	U
83-32-9	Acenaphthene	3320	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527

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

Matrix: (soil/water) SOIL Lab Sample ID: JM3564

Sample wt/vol: 30.1 (g/mL) g Lab File ID: A1015

Level: (low/med) low Date Received: 02-18-94

% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
51-28-5	2,4-Dinitrophenol	16600	U
100-02-7	4-Nitrophenol	16600	U
132-64-9	Dibenzofuran	3320	U
121-14-2	2,4-Dinitrotoluene	3320	U
84-66-2	Diethylphthalate	3320	U
7005-72-3	4-Chlorophenyl-phenylether	3320	U
86-73-7	Fluorene	3320	U
100-01-6	4-Nitroaniline	3320	U
534-52-1	4,6-Dinitro-2-methylphenol	3320	U
86-30-6	N-Nitrosodiphenylamine (1)	3320	U
101-55-3	4-Bromophenyl-phenylether	3320	U
118-74-1	Hexachlorobenzene	3320	U
87-86-5	Pentachlorophenol	3320	U
85-01-8	Phenanthrene	3320	U
120-12-7	Anthracene	3320	U
86-74-8	Carbazole	3320	U
84-74-2	Di-n-butylphthalate	3320	U
206-44-0	Fluoranthene	3320	U
129-00-0	Pyrene	3320	U
85-68-7	Butylbenzylphthalate	3320	U
91-94-1	3,3'-Dichlorobenzidine	3320	U
56-55-3	Benzo(a)anthracene	3320	U
218-01-9	Chrysene	3320	U
117-31-7	bis(2-Ethylhexyl)phthalate	1450 3320	U
117-34-0	Di-n-octylphthalate	3320	U
205-99-2	Benzo(b)fluoranthene	3320	U
207-08-9	Benzo(k)fluoranthene	3320	U
50-32-8	Benzo(a)pyrene	3320	U
193-39-5	Indeno(1,2,3-cd)pyrene	3320	U
53-70-3	Dibenz(a,h)anthracene	3320	U
191-24-2	Benzo(g,h,i)perylene	3320	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C6527

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3564  
 Sample wt/vol: 30.10 (g/mL) g Lab File ID: A1015  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3-26-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. <u>54832-83-6</u>	<u>Octahydro-2,2,4,1H-Indene</u>	<u>16.007</u>	<u>5390</u>	<u>J</u>
2. <u>8017-34-3</u>	<u>Technical Chlorophenanthrene</u>	<u>24.421</u>	<u>3850</u>	<u>J</u>
3. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>12.211</u>	<u>8490</u>	<u>J</u>
4. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>17.948</u>	<u>2720</u>	<u>J</u>
5. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>18.536</u>	<u>6980</u>	<u>J</u>
6. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>21.343</u>	<u>4110</u>	<u>J</u>
7. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>22.225</u>	<u>7450</u>	<u>J</u>
8. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>23.040</u>	<u>15800</u>	<u>J</u>
9. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>23.832</u>	<u>23200</u>	<u>J</u>
10. <u>0</u>	<u>Unknown Hydrocarbon</u>	<u>24.330</u>	<u>3650</u>	<u>J</u>
11. <u>0</u>	<u>Unknown Organic acid</u>	<u>21.003</u>	<u>4310</u>	<u>J</u>
12. <u>0</u>	<u>Unknown</u>	<u>15.916</u>	<u>3380</u>	<u>J</u>
13. <u>0</u>	<u>unknown</u>	<u>16.616</u>	<u>2730</u>	<u>J</u>
14. <u>0</u>	<u>Unknown</u>	<u>17.519</u>	<u>3320</u>	<u>J</u>
15. <u>0</u>	<u>Unknown</u>	<u>17.609</u>	<u>6800</u>	<u>J</u>
16. <u>0</u>	<u>Unknown</u>	<u>17.722</u>	<u>4210</u>	<u>J</u>
17. <u>0</u>	<u>Unknown</u>	<u>22.610</u>	<u>5500</u>	<u>J</u>
18. <u>0</u>	<u>Unknown substituted aromatic</u>	<u>16.11</u>	<u>2140</u>	<u>J</u>
19. <u>0</u>	<u>Unknown substituted aromatic</u>	<u>16.45</u>	<u>7490</u>	<u>J</u>
20. <u>0</u>	<u>Unknown substituted aromatic</u>	<u>17.42</u>	<u>5460</u>	<u>J</u>
21.				
22.				
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30.				

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEEA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Level: (low/med) low

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SR1K1	46.7	56.5	79.7	38.0	36.2	54.3			0
02	SB1K15C	79.2	79.1	44.6	66.0	72.6	100			0
03	C6527	115.D	213.D	73.8	112	97.6	89.3			2
04	C6527MS	162.D	221.D	64.9	126.D	104	92.1			3
05	C6527MSD	150.D	201.D	87.3	107	88.4	93.2			2
06										
07										
08										
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QC LIMITS  
 S1 (NBZ) = Nitrobenzene-d5 (23-120)  
 S2 (FBP) = 2-Fluorobiphenyl (30-115)  
 S3 (TPH) = Terphenyl-d14 (18-137)  
 S4 (PHL) = Phenol-d5 (24-113)  
 S5 (2FP) = 2-Fluorophenol (25-121)  
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)  
 S7 (2CP) = 2-Chlorophenol-d4 (20-130) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (20-130) (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.: NABlank Spike - EPA Sample No.: SSPK1

COMPOUND	SPIKE ADDED (ug/kg)	BLANK CONCENTRATION (ug/L) <small>ug/kg</small>	BS CONCENTRATION (ug/L) <small>ug/kg</small>	BS % REC #	QC LIMITS REC.
Phenol	3330	0	2290	68.8	12-110
2-Chlorophenol	3330	0	3060	61.9	27-123
1,4-Dichlorobenzene	<del>3330</del> 3330	0	1460	43.8	36-97
N-Nitroso-di-n-Prop. (1)	3330	0	1310	54.4	41-116
1,2,4-Trichlorobenzene	3330	0	1700	51.1	39-98
4-Chloro-3-methylphenol	3330	0	2510	75.4	23-97
Benaphthene	3330	0	1950	58.6	46-118
1-Nitrophenol	3330	0	3770	113 *	10-80
2,4-Dinitrotoluene	3330	0	2940	88.3	24-96
Pentachlorophenol	3330	0	4430	133 *	9-103
Pyrene	3330	0	2090	62.8	26-127

(1) N-Nitroso-di-n-propylamine

# Column to be used to flag recoveries with an asterisk

\* Values outside of QC limits

Spike Recovery: 2 out of 11 outside limits

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

3D  
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: 1.2.2.5A  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: C.6527MS Level: (low/med) low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	100 000	0	11500	* 115	26- 90
2-Chlorophenol	100 000	0	10200	102	25-102
1,4-Dichlorobenzene	100 000	0	7980	79.8	28-104
N-Nitroso-di-n-prop. (1)	100 000	0	12100	121	41-126
1,2,4-Trichlorobenzene	100 000	0	11900	* 119	38-107
4-Chloro-3-methylphenol	100 000	0	12700	* 127	26-103
Acenaphthene	100 000	0	15000	* 150	31-137
4-Nitrophenol	100 000	0	13100	* 131	11-114
2,4-Dinitrotoluene	100 000	0	11500	* 115	28- 89
Pentachlorophenol	100 000	0	16700	* 167	17-109
Pyrene	100 000	0	14200	140	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	100 000	10200	* 102	12.0	35 26- 90
2-Chlorophenol	100 000	8460	84.6	18.6	50 25-102
1,4-Dichlorobenzene	100 000	7980	79.8	6.47	27 28-104
N-Nitroso-di-n-prop. (1)	100 000	11200	112	7.73	28 41-126
1,2,4-Trichlorobenzene	100 000	11500	* 115	3.42	23 38-107
4-Chloro-3-methylphenol	100 000	12800	128	8.784	33 26-103
Acenaphthene	100 000	13700	137	4.53	19 31-137
4-Nitrophenol	100 000	24600	* 246	* 61.0	50 11-114
2,4-Dinitrotoluene	100 000	9920	* 99.2	14.8	47 28- 89
Pentachlorophenol	100 000	18000	* 180	3.75	47 17-109
Pyrene	100 000	14200	142	1.42	36 35-142

(1) N-Nitroso-di-n-propylamine

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

RPD: 1 out of 11 outside limits  
 Spike Recovery: 12 out of 22 outside limits

COMMENTS:

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Lab File ID: A1013

Lab Sample ID: N2040133

Instrument ID: MSD-A

Date Extracted: 03-17-94

Matrix: (soil/water) SOIL

Date Analyzed: 03-26-94

Level: (low/med) low

Time Analyzed: 1934

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1BS	N2040133	A1014	3-26-94
02	C6527	JM356A	A1015	3-26-94
03	C6527MS	JM356A	A1016	3-26-94
04	C6527MSD	JM356A	A1017	3-26-94
05				
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COMMENTS:

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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: A0997 DFTPP Injection Date: 3-26-94  
 Instrument ID: MSD-A DFTPP Injection Time: 08:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	70.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	67
70	Less than 2.0% of mass 69	0.3 (0.4) 1
127	25.0 - 75.0% of mass 198	45.1
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	6.1
275	10.0 - 30.0% of mass 198	18.9
265	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	82.3
442	40.0 - 110.0% of mass 198	42.1
443	15.0 - 24.0% of mass 442	8.0 (19.1) 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	Sstd 20	Sstd 20	A0998	3-26-94	8:34
02	Sstd 50	Sstd 50	A0999	3-26-94	9:25
03	Sstd 80	Sstd 80	A1000	3-26-94	10:16
04	Sstd 120	Sstd 120	A1001	3-26-94	11:07
05	Sstd 160	Sstd 160	A1002	3-26-94	11:58
06					
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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: A1003 DFTPP Injection Date: 3-26-94  
 Instrument ID: MSD-A DFTPP Injection Time: 12:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	61.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	63.7
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	25.0 - 75.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	82.3
442	40.0 - 110.0% of mass 198	46.3
443	15.0 - 24.0% of mass 442	9.1 (19.6) 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	Sstd 50	Sstd 50	A1004	3-26-94	1307
02	SBIK1	N2040133	A1013	3-26-94	1934
03	SBIK1BS	N2040133	A1014	3-26-94	2025
04	C6527	JM3564	A1015	3-26-94	2116
05	C6527MS	JM3564	A1016	3-26-94	2207
06	C6527MSD	JM3564	A1017	3-26-94	2258
07					
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68  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SOG No.: 117  
 Instrument ID: MSP-A Calibration Date(s): 03-26-94 03-26-94  
 Calibration Times: 0834 1158

LAB FILE ID:	RRF20 =	RRF50 =	RRF80 =	RRF120 =	RRF160 =	RRF	% RSD
RRF80 = <u>A1000</u>	RRF120 = <u>A1000</u>	RRF50 = <u>A0990</u>	RRF160 = <u>A1000</u>				
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	* 1.52	1.53	1.42	1.85	1.79	1.62	11.6
bis(2-Chloroethyl) ether	* 3.13	3.24	3.03	3.38	3.19	3.19	4.0
2-Chlorophenol	* 1.34	1.24	1.17	1.27	1.32	1.27	5.21
1,3-Dichlorobenzene	* 1.48	1.34	1.23	1.32	1.29	1.33	7.07
1,4-Dichlorobenzene	* 1.79	1.55	1.56	1.62	1.67	1.64	6.07
1,2-Dichlorobenzene	* 1.57	1.36	1.33	1.32	1.31	1.37	8.21
2-Methylphenol	* 2.14	1.65	1.42	1.52	1.45	1.64	18.0
2,2'-oxybis(1-Chloropropane)	* 4.52	3.99	3.79	4.06	3.98	4.07	6.63
4-Methylphenol	* 1.62	1.51	1.45	1.42	1.45	1.49	4.46
N-Nitroso-di-n-propylamine	* 1.47	1.31	1.16	1.24	1.26	1.29	8.91
Hexachloroethane	* 0.755	0.701	0.634	0.699	0.687	0.696	6.19
Nitrobenzene	* 0.373	0.392	0.379	0.347	0.359	0.368	3.96
Isophorone	* 0.812	0.672	0.823	0.771	0.791	0.814	4.67
2-Nitrophenol	* 0.191	0.180	0.190	0.171	0.175	0.181	4.98
2,4-Dimethylphenol	* 0.325	0.329	0.335	0.307	0.311	0.321	3.71
bis(2-Chloroethoxy) methane	* 0.498	0.476	0.487	0.463	0.473	0.479	2.84
2,4-Dichlorophenol	* 0.309	0.293	0.291	0.271	0.269	0.287	5.98
1,2,4-Trichlorobenzene	* 0.331	0.329	0.328	0.318	0.298	0.321	4.3
Naphthalene	* 1.11	0.969	0.981	0.942	0.769	0.954	12.7
4-Chloroaniline	* 0.354	0.404	0.419	0.371	0.384	0.386	6.63
Hexachlorobutadiene	* 0.213	0.197	0.208	0.192	0.177	0.197	7.08
4-Chloro-3-methylphenol	* 0.313	0.334	0.338	0.316	0.333	0.326	3.45
2-Methylnaphthalene	* 0.738	0.714	0.675	0.606	0.612	0.669	8.85
Hexachlorocyclopentadiene	* 0.110	0.167	0.188	0.201	0.183	0.170	20.8
2,4,6-Trichlorophenol	* 0.321	0.332	0.324	0.308	0.282	0.314	6.22
2,4,5-Trichlorophenol	* 0.358	0.363	0.345	0.331	0.282	0.336	9.67
2-Chloronaphthalene	* 0.971	0.926	0.841	0.921	0.788	0.849	7.61
2-Nitroaniline	* 0.323	0.333	0.342	0.333	0.326	0.332	2.20
Dimethylphthalate	* 1.31	1.29	1.27	1.15	0.992	1.20	11.1
Acenaphthylene	* 1.67	1.58	1.56	1.38	1.05	1.45	16.9
2,6-Dinitrotoluene	* 0.287	0.302	0.299	0.281	0.273	0.288	4.2
3-Nitroaniline	* 0.232	0.234	0.266	0.247	0.248	0.245	5.58
Acenaphthene	* 1.22	1.09	1.01	0.946	0.821	1.01	14.9
2,4-Dinitrophenol	* 0.044	0.081	0.094	0.094	0.108	0.085	29.6
4-Nitrophenol	* 0.866	0.886	0.840	0.887	0.889	0.884	12.3
Dibenzofuran	* 1.62	1.59	1.46	1.26	1.03	1.39	17.8
2,4-Dinitrotoluene	* 0.375	0.373	0.366	0.329	0.282	0.345	11.5

\* 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: ME2-A Calibration Date(s): 3-26-94 3-26-94  
 Calibration Times: 0834 1158

LAB FILE ID: RRF20 = A0998 RRF50 = A0999  
 RRF80 = A1000 RRF120 = A1001 RRF160 = A1002

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	RSD
Diethylphthalate	1.57	1.48	1.43	1.26	0.984	1.34	17.6
4-Chlorophenyl-phenylether	* 0.687	0.679	0.612	0.578	0.529	0.617	10.9
Fluorene	* 1.38	1.25	1.21	1.12	0.955	1.18	13.4
4-Nitroaniline	0.235	0.222	0.212	0.233	0.255	0.237	5.18
4,6-Dinitro-2-methylphenol	0.073	0.098	0.097	0.096	0.093	0.092	11.6
N-Nitrosodiphenylamine (1)	0.314	0.310	0.329	0.325	0.364	0.349	7.43
4-Bromophenyl-phenylether	* 0.194	0.185	0.188	0.179	0.171	0.184	5.63
Hexachlorobenzene	* 0.238	0.216	0.213	0.199	0.199	0.213	7.51
Pentachlorophenol	* 0	0.080	0.085	0.088	0.091	0.086	5.72
Phenanthrene	* 1.04	0.908	0.852	0.787	0.627	0.843	18.0
Anthracene	* 1.08	0.970	0.923	0.797	0.610	0.877	20.7
Carbazole	0.223	0.276	0.275	0.259	0.277	0.262	16.1
Di-n-butylphthalate	1.54	1.32	1.04	0.804	0.618	1.07	35.0
Fluoranthene	* 1.12	0.993	0.933	0.815	0.646	0.903	20.3
Pyrene	* 1.52	1.38	1.41	1.33	1.16	1.36	9.63
Butylbenzylphthalate	0.91	0.771	0.727	0.692	0.625	0.745	14.3
3,3'-Dichlorobenzidine	0.507	0.463	0.420	0.408	0.379	0.435	11.5
Benzo(a)anthracene	* 1.38	1.21	1.29	1.26	1.19	1.27	5.79
Chrysene	* 1.32	1.19	1.14	1.13	1.09	1.17	7.43
bis(2-Ethylhexyl)phthalate	1.36	1.24	1.18	1.10	1.00	1.17	11.6
Di-n-octylphthalate	3.15	3.09	2.91	2.86	2.47	2.89	9.27
Benzo(b)fluoranthene	* 1.91	1.51	1.56	2.25	1.60	1.76	17.8
Benzo(k)fluoranthene	* 1.64	1.74	1.90	1.46	1.92	1.73	10.4
Benzo(a)pyrene	* 1.39	1.33	1.36	1.41	1.40	1.38	2.50
Indeno(1,2,3-cd)pyrene	* 1.30	1.24	1.26	1.45	1.61	1.37	11.5
Dibenz(a,h)anthracene	* 1.07	0.998	1.034	1.13	1.34	1.11	12.0
Benzo(g,h,i)perylene	* 1.05	0.939	1.02	1.13	1.34	1.09	13.7
Nitrobenzene-d5	0.372	0.374	0.374	0.334	0.359	0.363	4.69
2-Fluorobiphenyl	* 1.16	1.09	2.949	0.695	0.750	0.969	12.7
Terphenyl-d14	* 1.25	1.01	1.02	1.01	0.897	0.947	5.81
Phenol-d5	* 1.40	1.40	1.31	1.33	1.45	1.38	3.85
2-Fluorophenol	* 1.01	0.924	0.913	1.02	1.04	0.987	5.10
2,4,6-Tribromophenol	0.145	0.172	0.166	0.167	0.162	0.163	6.34
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.

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-A Calibration Date: 03-26-94 Time: 13:07  
 Lab File ID: A1004 Init. Calib. Date(s): 02-08-94 03-26-94  
 Init. Calib. Times: 11.52 11:07

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.62	1.44	0.800	11.1	25.0
bis(2-Chloroethyl) ether	3.20	3.38	0.700	5.80	25.0
2-Chlorophenol	1.27	1.24	0.800	2.50	25.0
1,3-Dichlorobenzene	1.33	1.52	0.600	13.9	25.0
1,4-Dichlorobenzene	1.64	1.52	0.500	7.50	25.0
1,2-Dichlorobenzene	1.37	1.41	0.400	2.80	25.0
2-Methylphenol	1.64	1.65	0.700	0.60	25.0
2,2'-oxybis(1-Chloropropane)	4.07	4.14		1.7	
4-Methylphenol	1.24	1.86	0.600	1.90	25.0
N-Nitroso-di-n-propylamine	1.29	1.42	0.500	10.0	25.0
Hexachloroethane	0.696	0.650	0.300	6.60	25.0
Nitrobenzene	0.368	0.367	0.200	0.30	25.0
Isophorone	0.814	0.870	0.400	6.90	25.0
2-Nitrophenol	0.181	0.193	0.200	6.70	25.0
2,4-Dimethylphenol	0.321	0.326	0.200	1.40	25.0
bis(2-Chloroethoxy) methane	0.479	0.528	0.300	10.1	25.0
2,4-Dichlorophenol	0.287	0.285	0.200	0.50	25.0
1,2,4-Trichlorobenzene	0.321	0.333	0.200	3.70	25.0
Naphthalene	0.954	1.028	0.700	7.80	25.0
4-Chloroaniline	0.386	0.408		5.70	
Hexachlorobutadiene	0.197	0.207		5.20	
4-Chloro-3-methylphenol	0.327	0.318	0.200	2.70	25.0
2-Methylnaphthalene	0.669	0.671	0.400	0.30	25.0
Hexachlorocyclopentadiene	0.170	0.165		3.00	
2,4,6-Trichlorophenol	0.314	0.321	0.200	2.40	25.0
2,4,5-Trichlorophenol	0.336	0.328	0.200	2.30	25.0
2-Chloronaphthalene	0.900	0.922	0.300	2.50	25.0
2-Nitroaniline	0.332	0.320		3.40	
Dimethylphthalate	1.20	1.34		11.7	
Acenaphthylene	1.45	1.52	1.000	5.20	25.0
2,6-Dinitrotoluene	0.288	0.286	0.200	0.90	25.0
3-Nitroaniline	0.246	0.227		7.50	
Acenaphthene	1.02	1.06	0.800	3.70	25.0
2,4-Dinitrophenol	0.085	0.066		22.5	
4-Nitrophenol	0.084	0.067		20.3	
2-Benzofuran	1.40	1.48	0.800	6.20	25.0
2,4-Dinitrotoluene	0.345	0.376	0.200	8.80	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-A Calibration Date: 03-26-94 Time: 13:07  
 Lab File ID: A1004 Init. Calib. Date(s): 02-08-94 03-26-94  
 Init. Calib. Times: 11:52 11:07

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.34	1.46		8.70	
4-Chlorophenyl-phenylether	0.617	0.556	0.400	6.40	25.0
Fluorene	1.18	1.32	0.900	11.4	25.0
4-Nitroaniline	0.237	0.243		2.20	
4,6-Dinitro-2-methylphenol	0.092	0.088		4.10	
N-Nitrosodiphenylamine (1)	0.399	0.291		27.0	
4-Bromophenyl-phenylether	0.185	0.205	0.100	11.0	25.0
Hexachlorobenzene	0.213	0.219	0.100	2.50	25.0
Pentachlorophenol	0.086	0.069	0.050	20.1	25.0
Phenanthrene	0.843	0.938	0.700	11.2	25.0
Anthracene	0.877	0.944	0.700	7.60	25.0
Carbazole	0.762	0.783		2.70	
Di-n-butylphthalate	1.07	1.37		28.6	
Fluoranthene	0.904	1.00	0.600	10.8	25.0
Pyrene	1.36	1.43	0.600	4.70	25.0
Butylbenzylphthalate	0.745	0.801		7.50	
3,3'-Dichlorobenzidine	0.436	0.462		6.20	
Benzo(a)anthracene	1.27	1.23	0.800	3.3	25.0
Chrysene	1.18	1.18	0.700	0.2	25.0
bis(2-Ethylhexyl)phthalate	1.18	1.31		11.2	
Di-n-octylphthalate	2.90	3.47		19.8	
Benzo(b)fluoranthene	1.77	1.41	0.700	20.2	25.0
Benzo(k)fluoranthene	1.73	1.99	0.700	15.1	25.0
Benzo(a)pyrene	1.38	1.37	0.700	0.5	25.0
Indeno(1,2,3-cd)pyrene	1.38	1.24	0.500	9.80	25.0
Dibenz(a,h)anthracene	1.11	0.998	0.400	10.4	25.0
Benzo(g,h,i)perylene	1.10	0.937	0.500	14.5	25.0
Nitrobenzene-d5	0.363	0.339	0.200	6.40	25.0
2-Fluorobiphenyl	0.987	1.064	0.700	7.80	25.0
Terphenyl-d14	0.998	1.03	0.500	2.80	25.0
Phenol-d5	1.38	1.42	0.800	2.80	25.0
2-Fluorophenol	0.987	1.06	0.600	7.80	25.0
2,4,6-Tribromophenol	0.163	0.164		0.5	
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

0150

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): A1004 Date Analyzed: 3-26-94  
 Instrument ID: ~~MSD-D~~ MSD-A Time Analyzed: 1307  
(DA)

	IS1 (DCB) AREA ‡	RT ‡	IS2 (NPT) AREA ‡	RT ‡	IS3 (ANT) AREA ‡	RT	
12 HOUR STD	48946	10.20	224982	12.77	190807	16.68	
UPPER LIMIT	97892	10.70	449964	13.27	381614	17.18	
LOWER LIMIT	24473	9.70	381614	12.27	95403	16.18	
EPA SAMPLE NO.							
01	SBIK1	55411	10.20	224180	12.76	181868	16.70
02	SBIK1B5	52356	10.20	241031	12.77	193801*	16.70
03	C6527	27753	10.20	117097	12.76	* 88196	16.71
04	C6527MS	27853	10.22	129362	12.77	102374	16.71
05	C6527MSD	30190	10.23	129481	12.77	105548	16.72
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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

0151

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): A1004 Date Analyzed: 3-26-94  
 Instrument ID: MSD-A Time Analyzed: 1307

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	402948	20.08	285731	26.41	194161	31.91
UPPER LIMIT	805896	20.58	571462	26.91	388322	32.41
LOWER LIMIT	201474	19.58	142865	25.91	97080	31.41
EPA SAMPLE NO.						
01	SBIK1	339267	320434	26.42	202998	31.91
02	SBIK1AS	408434	270773	26.43	198450	31.95
03	C6527	*170852	*116910	26.41	*75789	31.95
04	C6527MS	*195458	*130243	26.43	*75172	31.97
05	C6527MSD	*190247	*118690	26.44	*71492	31.99
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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/a032694.b/a1015.d  
 Report Date: 31-Mar-1994 12:20

Page 1

## Analytical Services Corp.

## BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/a032694.b/a1015.d

Lab. Id. :

Quant Type: ISTD

Inj Date : 26-MAR-94 21:16

Autotune Date: {

Operator : Tom

Inst ID: a900.i

Smp Info : 15226N C6527

Misc Info : JM3564C,N2C40133,S:M1,30.1,1:10,

BTL#1

Comment :

Method : /chem/a900.i/a032694.b/bnaclpa.m

Meth Date : 31-Mar-1994 10:55

Cal Date : 26-MAR-94 13:07

Cal File: a1004.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/L)
3 2-Fluorophenol	----	112.00	8.129	(0.795)	14386	19.5	9.74(aR) ✓
S 4 Phenol-d5	----	99.00	9.568	(0.936)	22457	22.8	11.4 ✓
* 9 1,4-Dichlorobenzene-d4	----	152.00	10.198	(1.000)	27753	40.0	
S 17 Nitrobenzene-d5	----	82.00	11.301	(0.885)	15412	16.5	8.26(aR) ✓
* 25 Naphthalene-d8	----	136.00	12.764	(1.000)	117097	40.0	
S 35 2-Fluorobiphenyl	----	172.00	15.082	(0.903)	44042	21.4	10.7(R) ✓
36 2-Chloronaphthalene	----	162.00	15.713	(0.941)	2145	1.06	<del>0.528(aR)</del> ✓
37 2-Nitroaniline	----	65.00	15.623	(0.935)	899	1.27	<del>0.637(aQ)</del>
38 Dimethylphthalate	----	163.00	15.984	(0.957)	1022	0.345	<del>0.172(aQ)</del>
40 Acenaphthylene	----	152.00	16.367	(0.980)	3618	1.08	<del>0.539(aQ)</del>
41 3-Nitroaniline	----	138.00	16.548	(0.991)	2800	5.59	2.80(aQ)
* 42 Acenaphthene-d10	----	164.00	16.706	(1.000)	88196	40.0	
45 4-Nitrophenol	----	139.00	17.158	(1.027)	3140	21.3	<del>10.7(aQ)</del>
48 Diethylphthalate	----	149.00	17.542	(1.050)	150	0.0466	<del>0.0233(aQ)</del>
49 4-Chlorophenyl-phenylether	----	204.00	17.768	(1.064)	995	0.687	<del>0.344(aQ)</del>
50 Fluorene	----	166.00	17.881	(1.070)	367	0.126	<del>0.0631(a)</del>
51 4-Nitroaniline	----	138.00	17.722	(1.061)	6510	12.2	<del>6.00(aQ)</del>
S 54 2,4,6-Tribromophenol	----	330.00	18.514	(1.108)	6514	18.0	9.03(a) ✓
* 59 Phenanthrene-d10	----	188.00	20.098	(1.000)	170858	40.0	
60 Phenanthrene	----	178.00	20.120	(1.001)	536	0.134	<del>0.0669(aQ)</del>
61 Anthracene	----	178.00	20.279	(1.009)	446	0.111	<del>0.0553(aQ)</del>
62 Carbazole	----	167.00	20.528	(1.021)	172	0.0514	<del>0.0257(aQ)</del>
63 Di-n-butylphthalate	----	149.00	21.229	(1.056)	4872	0.832	<del>0.416(a)</del>
64 Fluoranthene	----	202.00	22.927	(1.141)	494	0.116	<del>0.0578(aQ)</del>
65 Pyrene	----	202.00	23.447	(0.888)	749	0.180	<del>0.0889(aQ)</del>
7 Terphenyl-d14	----	244.00	23.628	(0.895)	22426	7.48	3.74(aR) ✓
8 Butylbenzylphthalate	----	149.00	25.009	(0.947)	1559	0.666	<del>0.333(aQ)</del>
70 bis(2-Ethylhexyl)phthalate	----	149.00	26.027	(0.985)	33336	8.72	4.36(a) ✓
71 3,3'-Dichlorobenzidine	----	252.00	26.231	(0.993)	767	0.567	<del>0.284(a)</del>

ISC  
3-31-94



Data File: /chem/a900.i/a032694.b/a1015.d  
Report Date: 31-Mar-1994 12:20

Page 2

Compounds	QUANT SIG		CONCENTRATIONS			
	MASS	RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/L)
-----	----	--	-----	-----	-----	-----
* 73 Chrysene-d12	240.00	26.412	(1.000)	116910	40.0	
75 Di-n-octylphthalate	149.00	27.814	(0.871)	1394	0.212	<del>0.106(ug)</del>
* 79 Perylene-di2	264.00	31.950	(1.000)	75789	40.0	

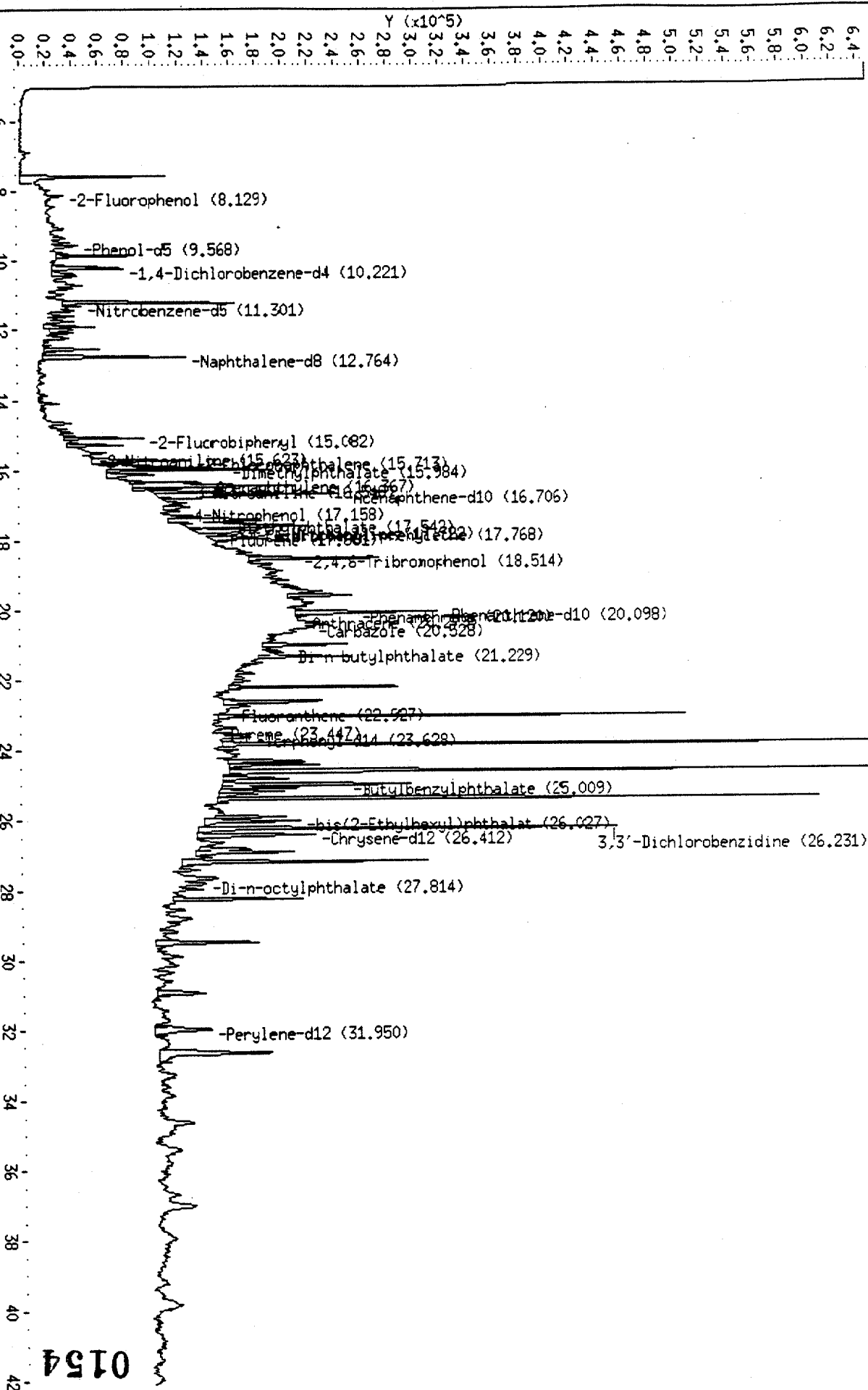
## QC Flag Legend

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

Data File: /chem/a900.i/a032694.b/a1015.d  
 Date: 26-MAR-94 21:16  
 Instrument: a900.i  
 Sample ID:  
 Column phase: J&M DB-5  
 Volume Injected (ul): 2.0

/chem/a900.i/a032694.b/a1015.d

Column diameter: 0.25



0154

Data File: /chem/a900.1/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

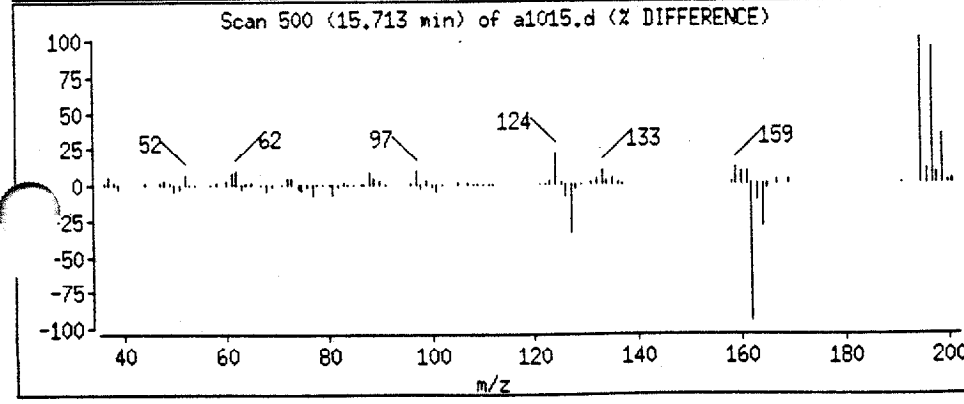
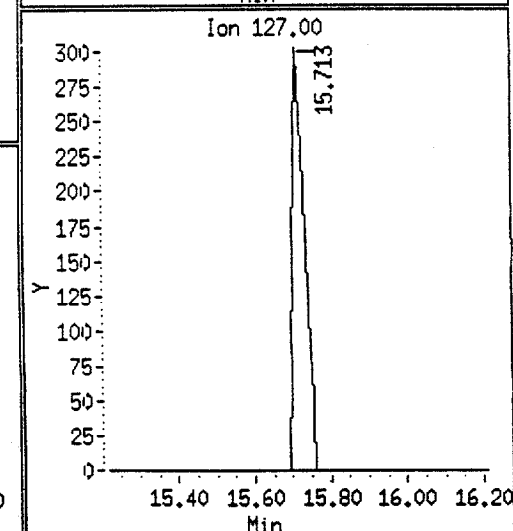
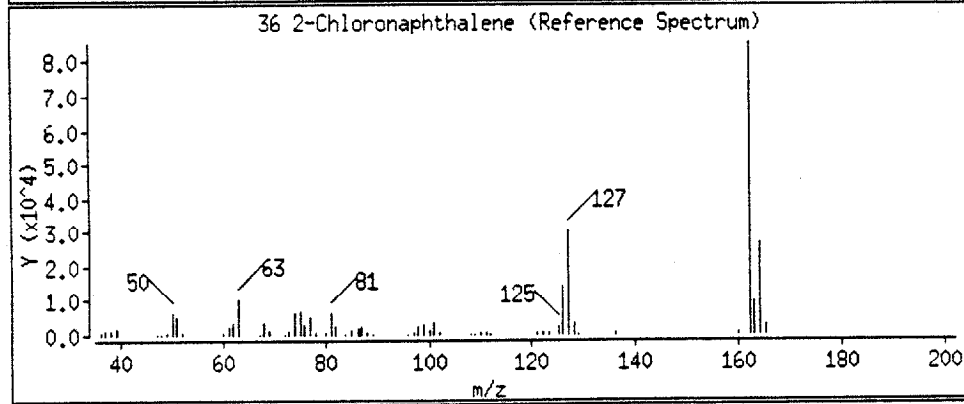
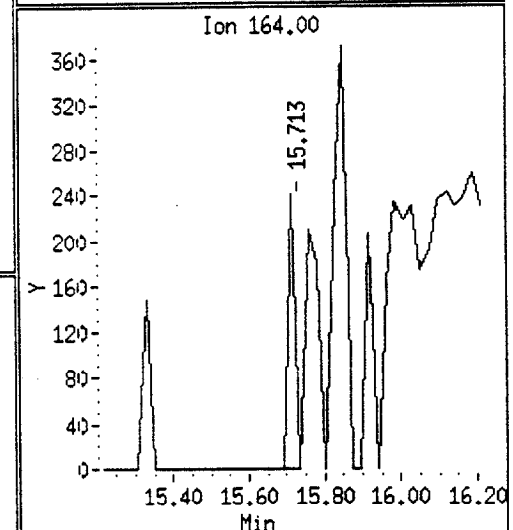
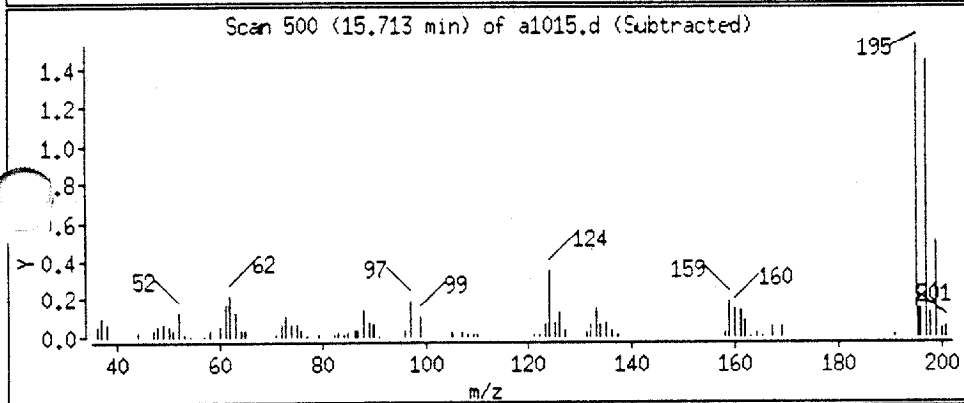
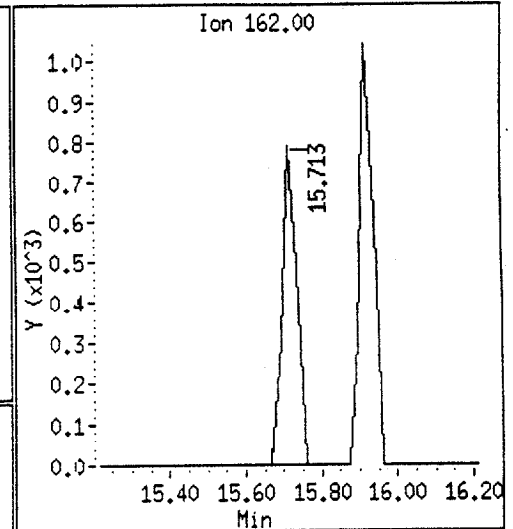
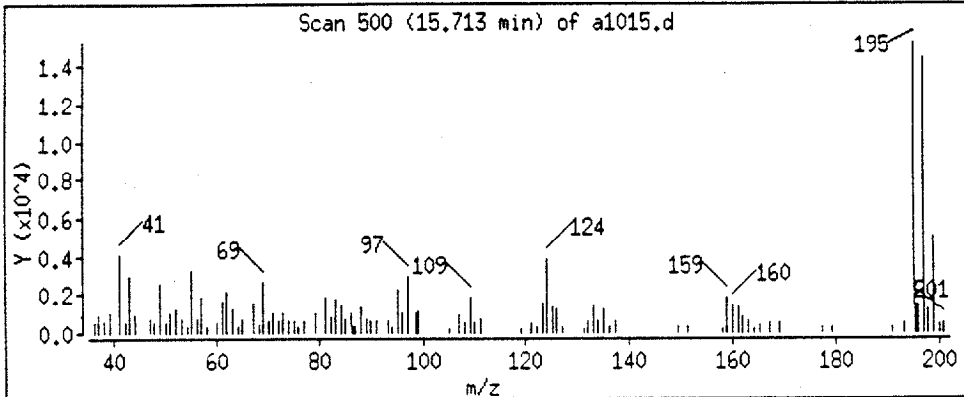
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

36 2-Chloronaphthalene



Data File: /chem/a900.i/a032694.b/a1015.d

Page 3

Date : 26-MAR-94 21:16

Instrument : a900.i

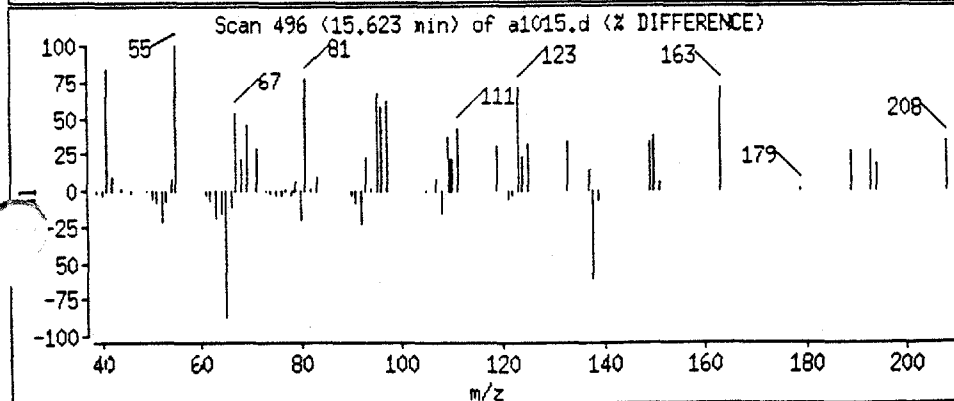
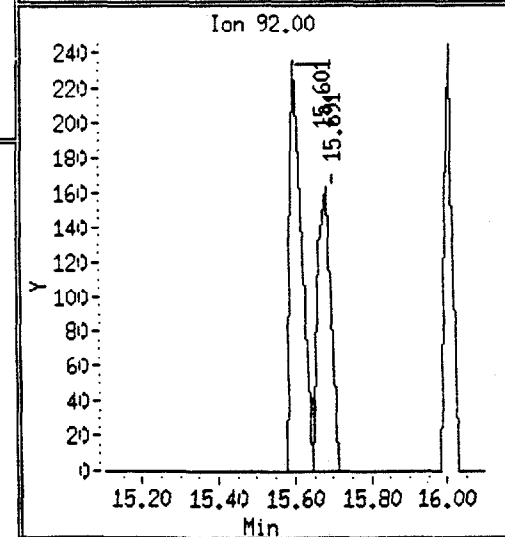
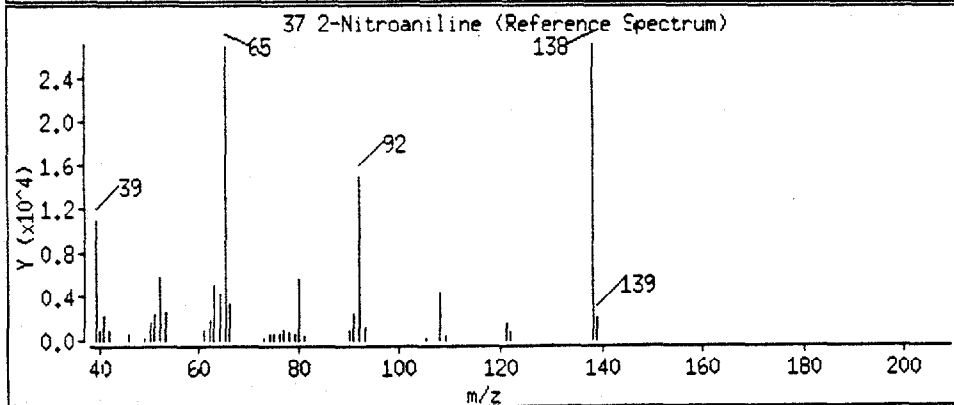
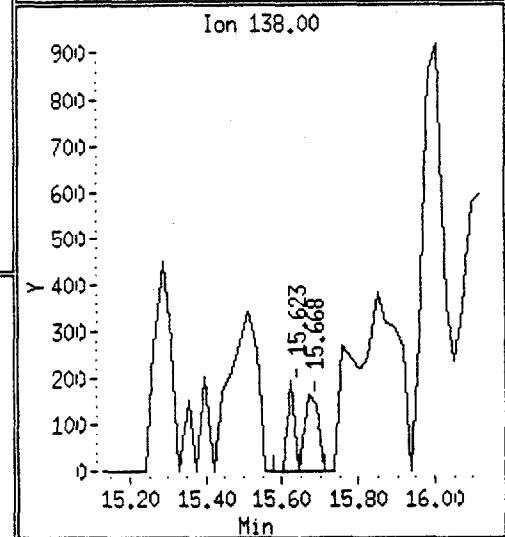
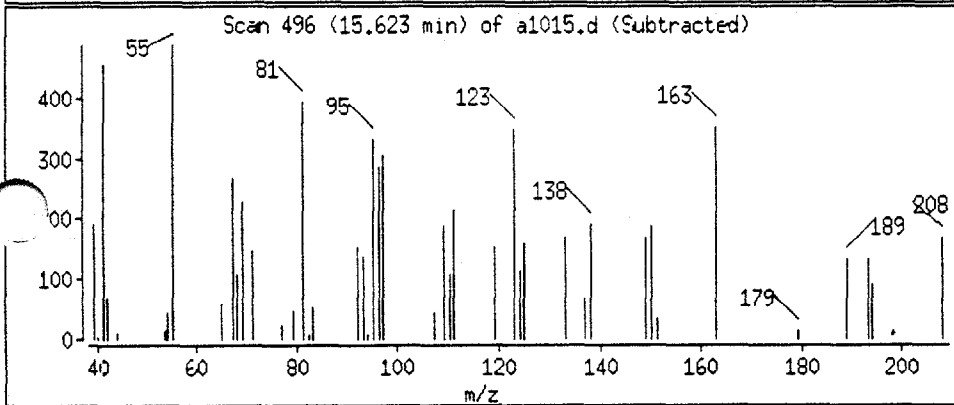
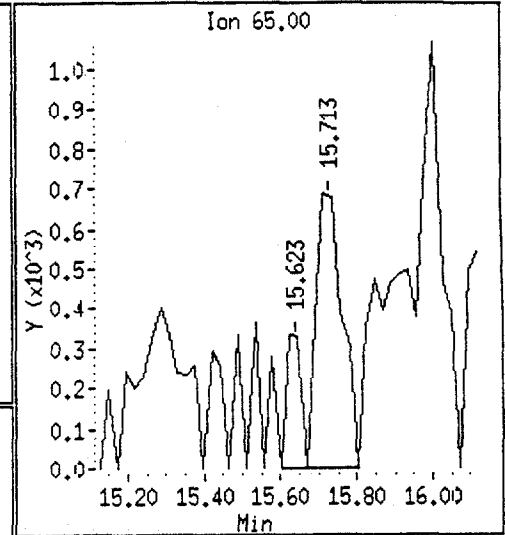
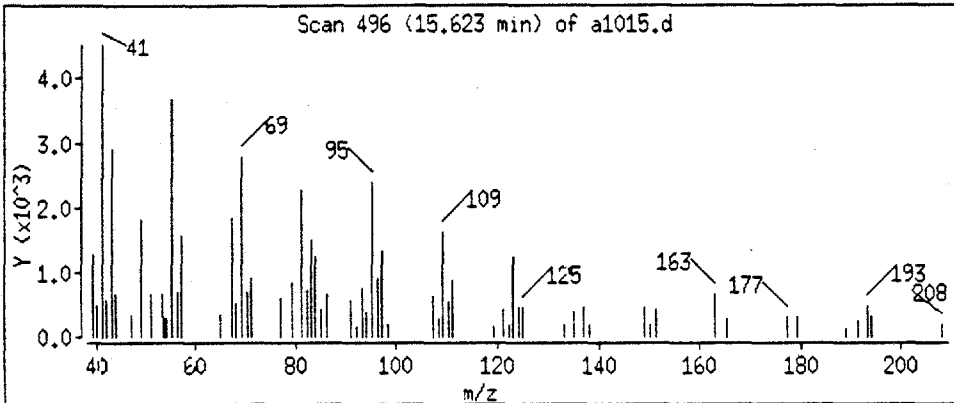
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

37 2-Nitroaniline



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

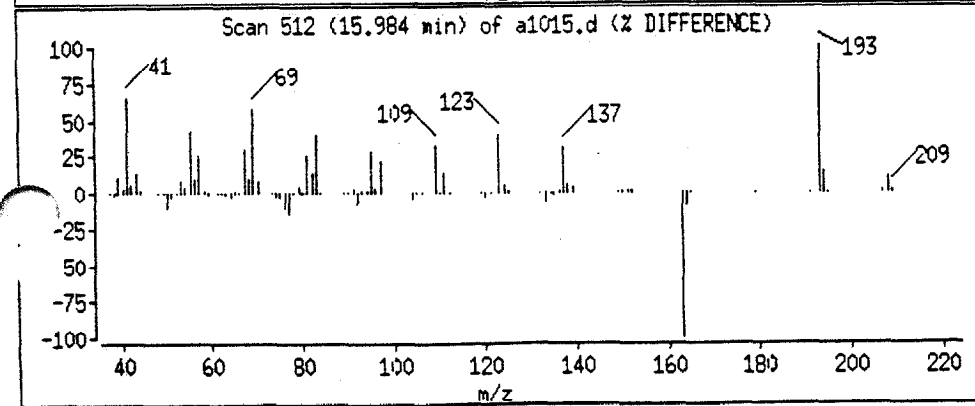
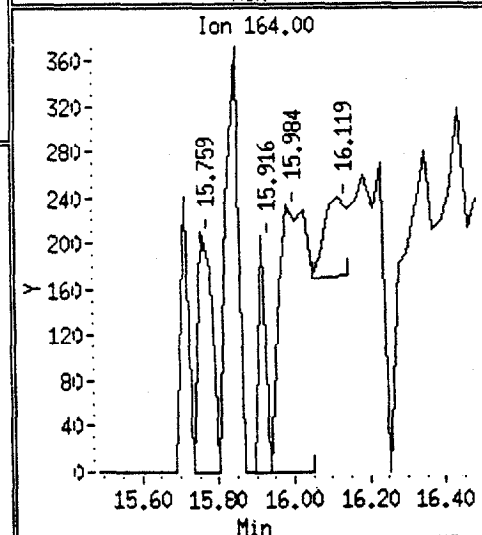
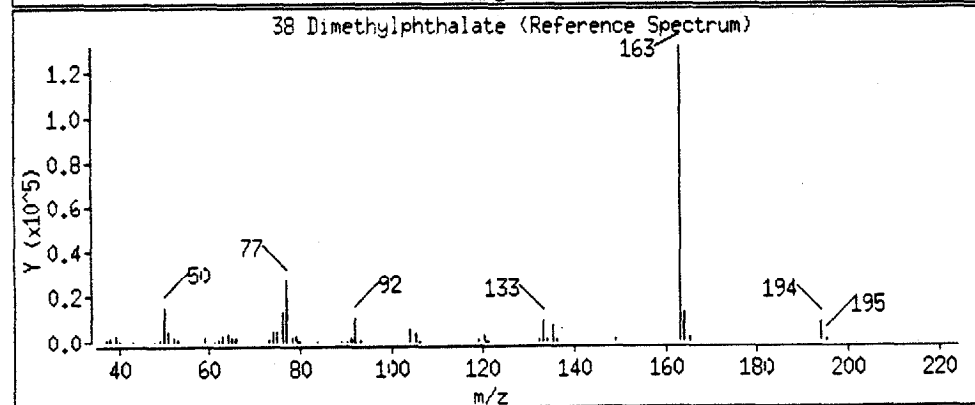
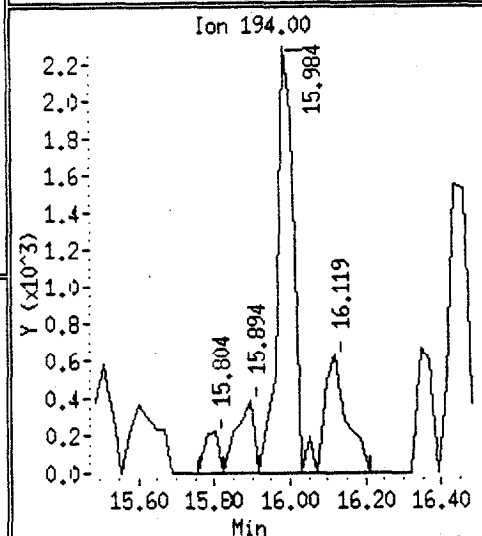
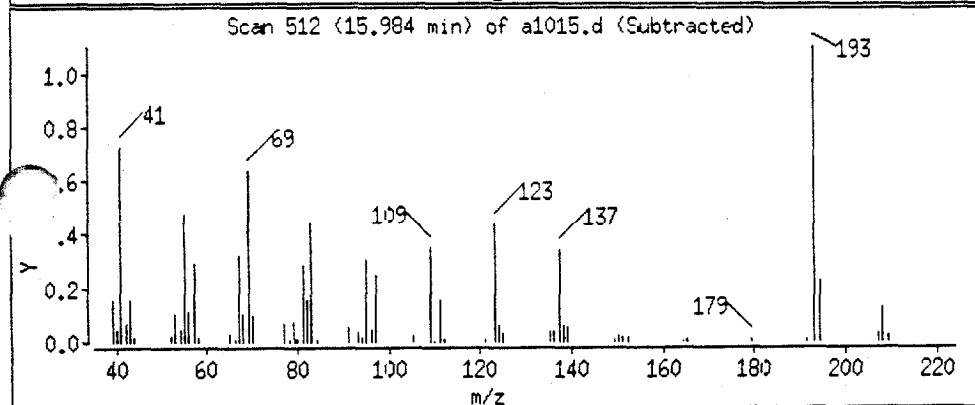
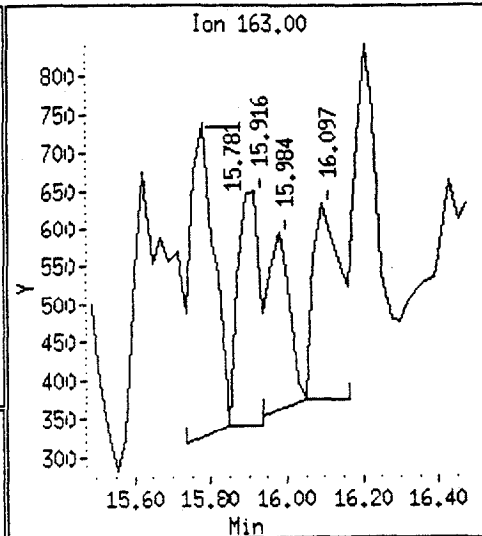
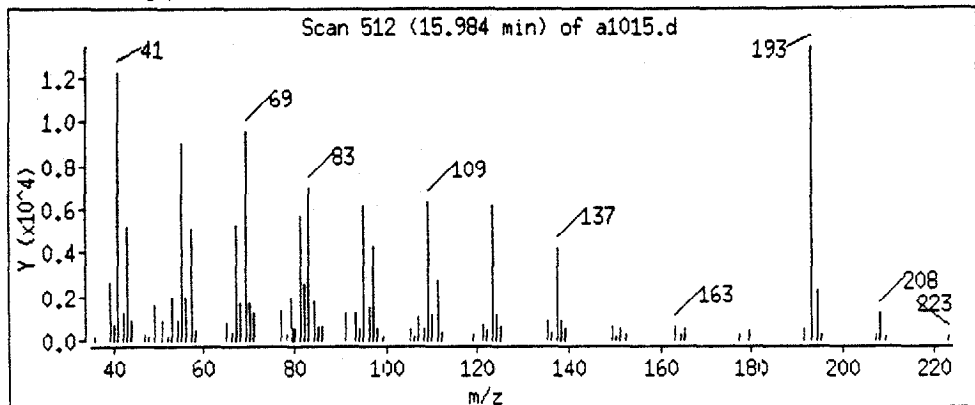
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

38 Dimethylphthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

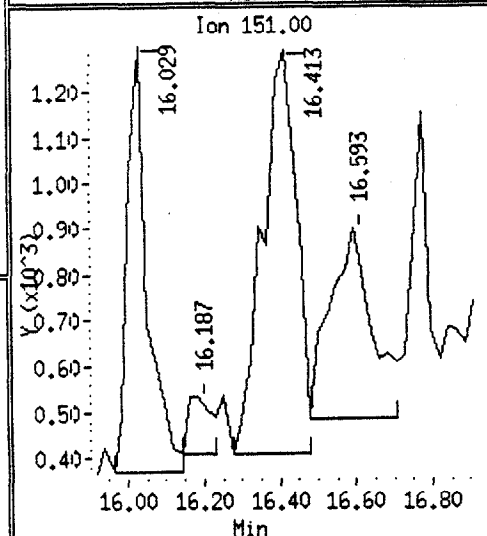
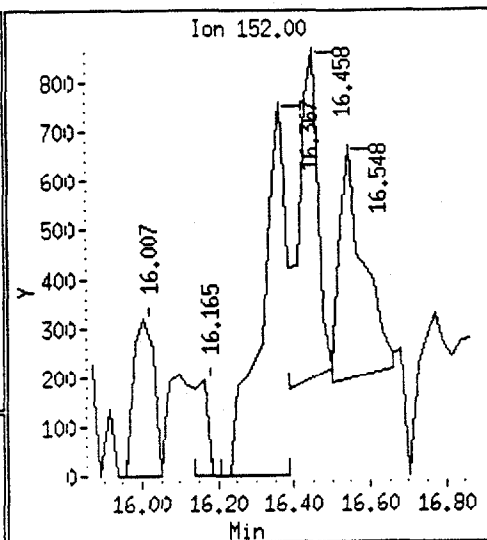
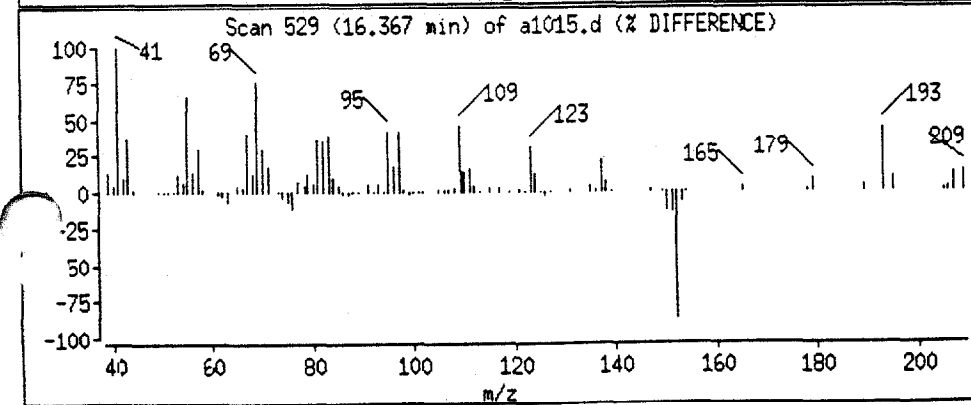
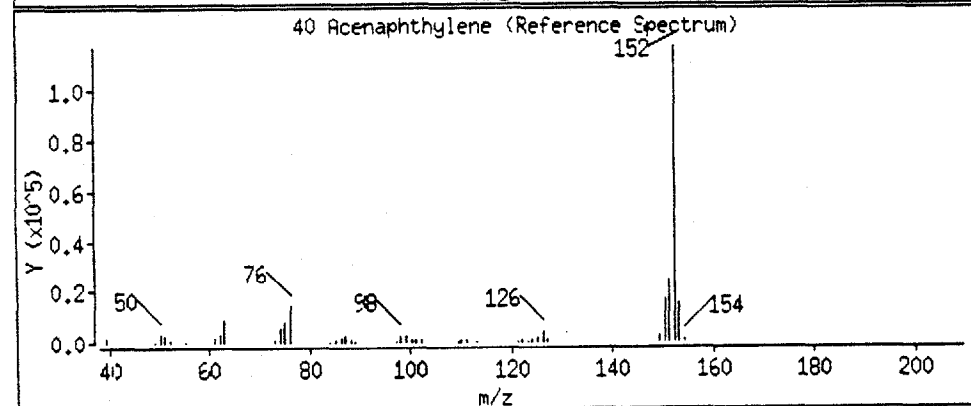
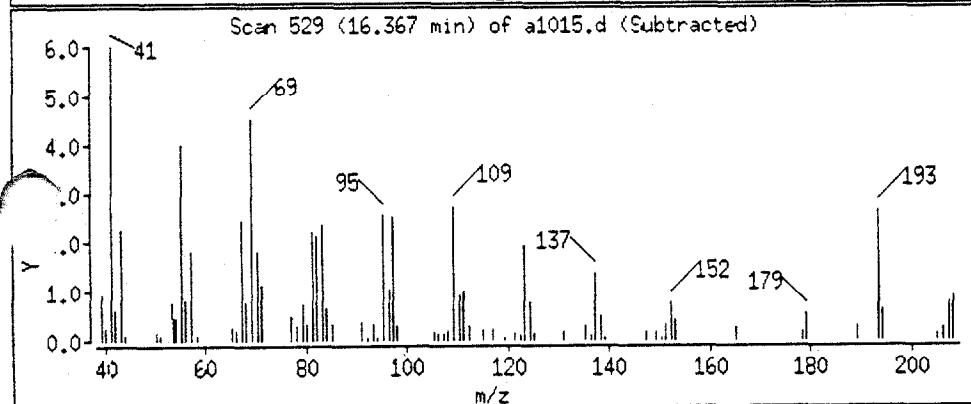
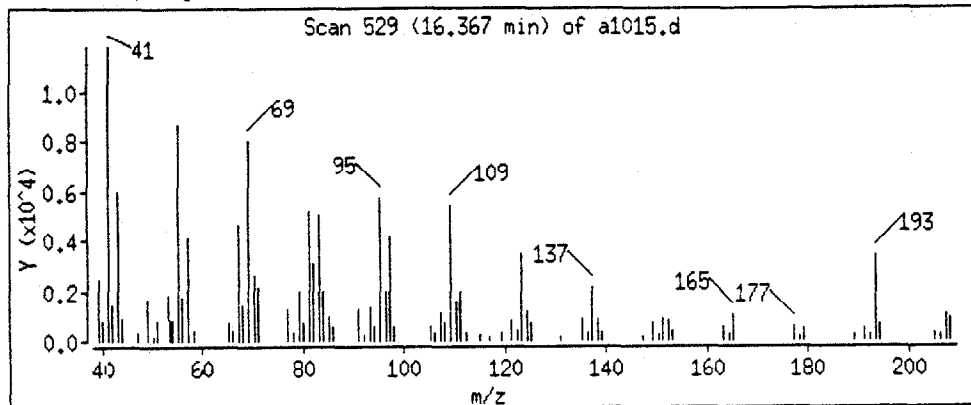
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

40 Acenaphthylene



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

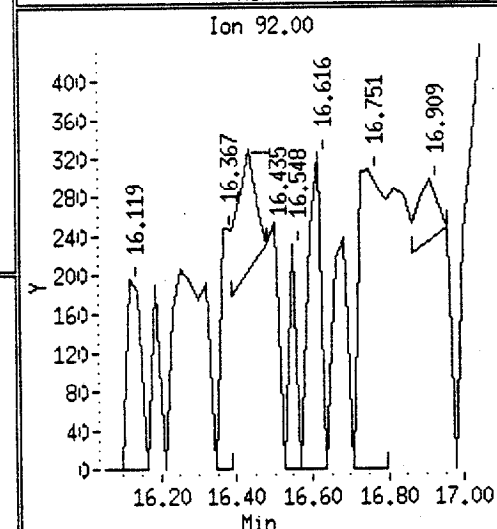
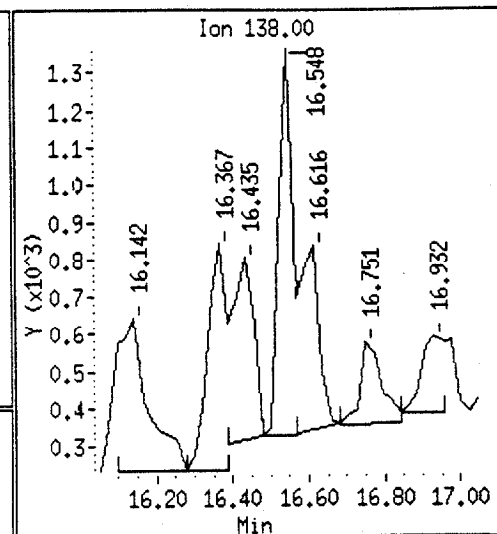
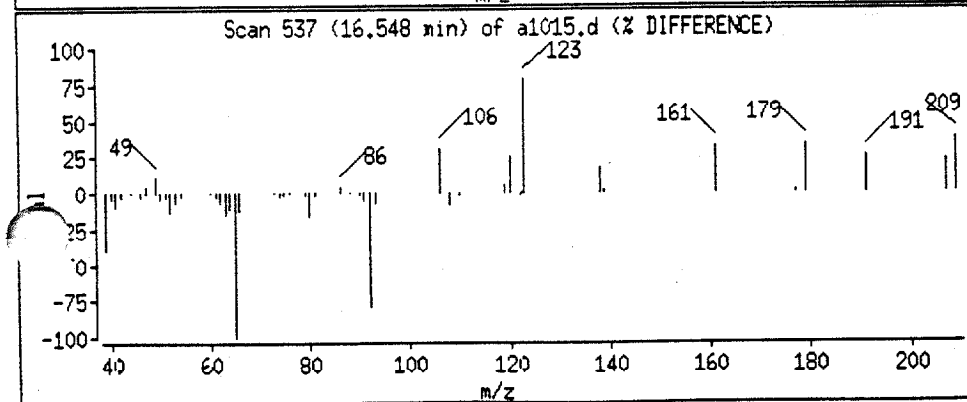
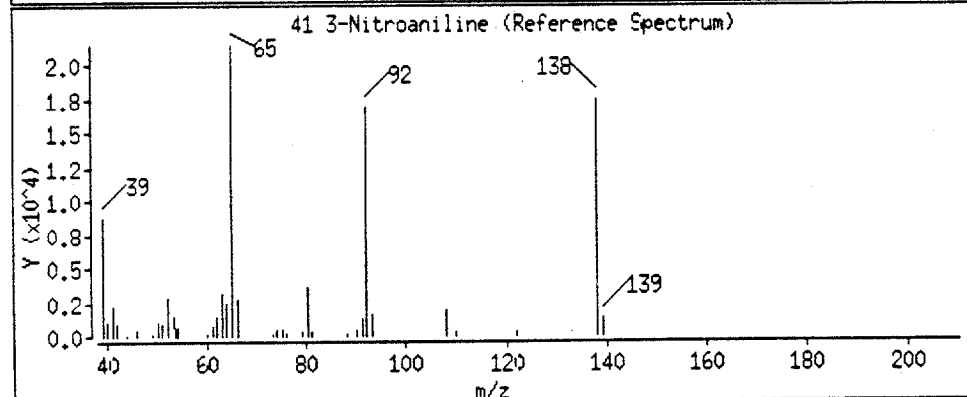
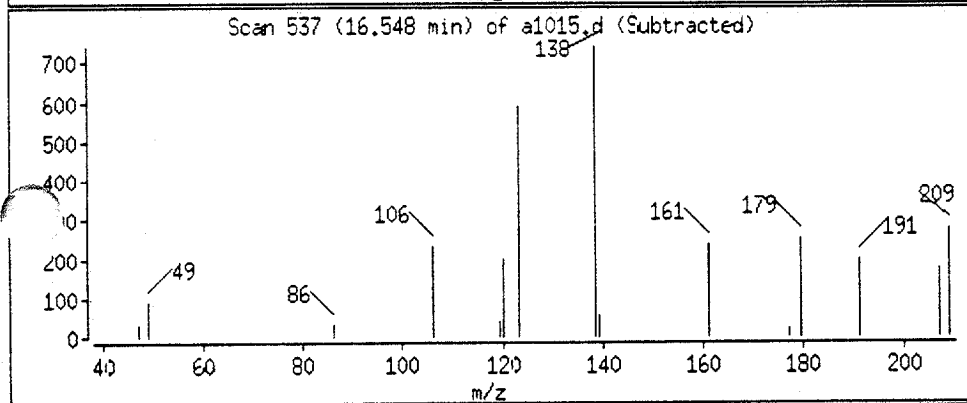
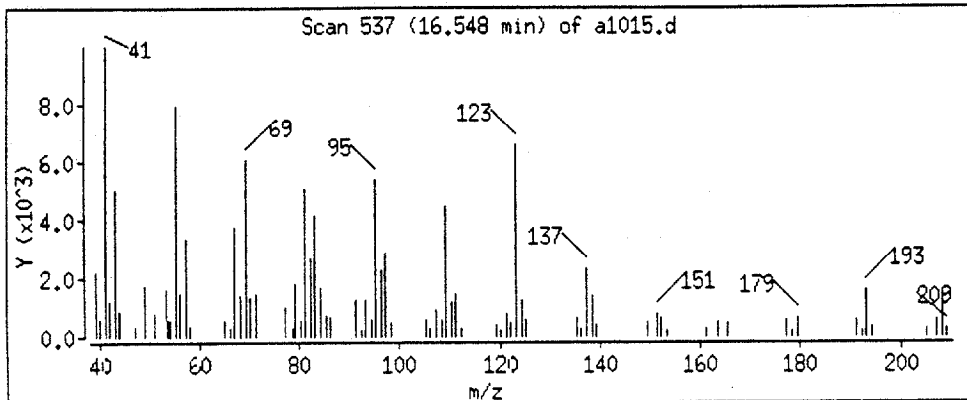
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

41 3-Nitroaniline



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

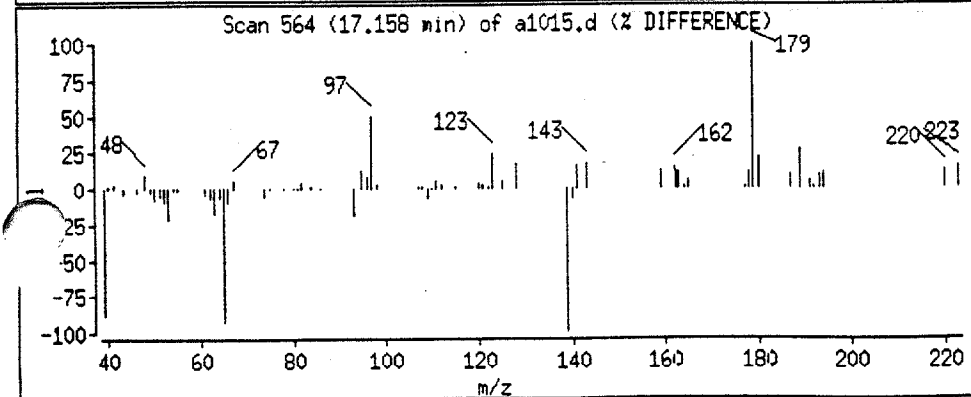
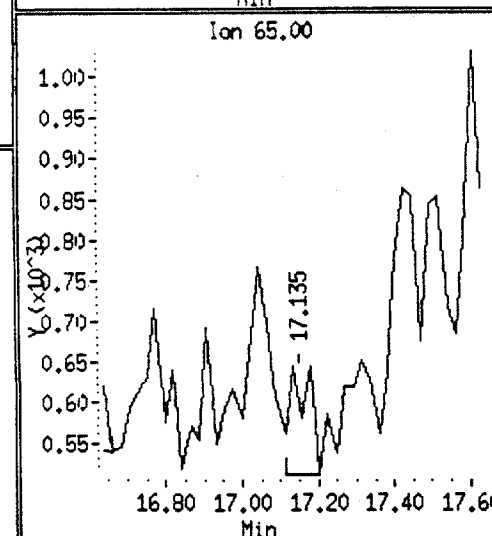
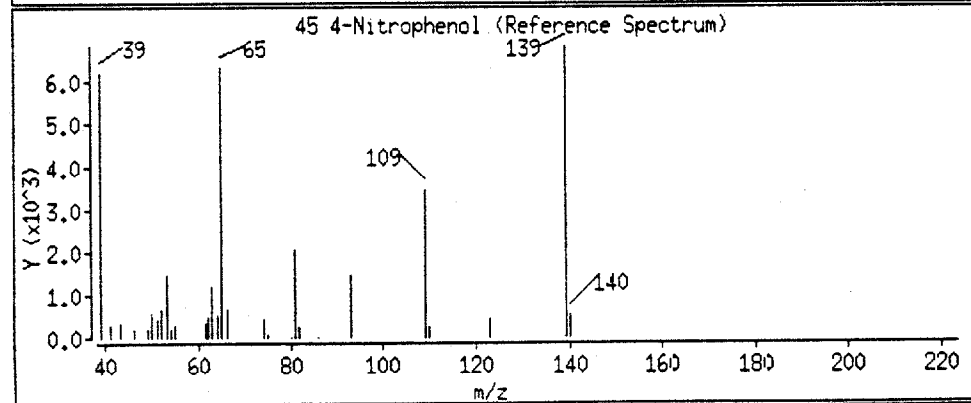
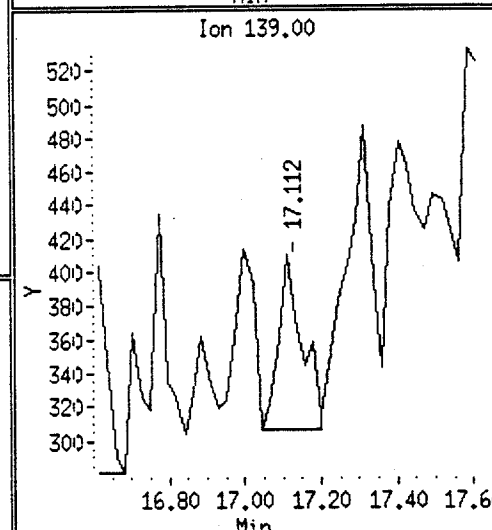
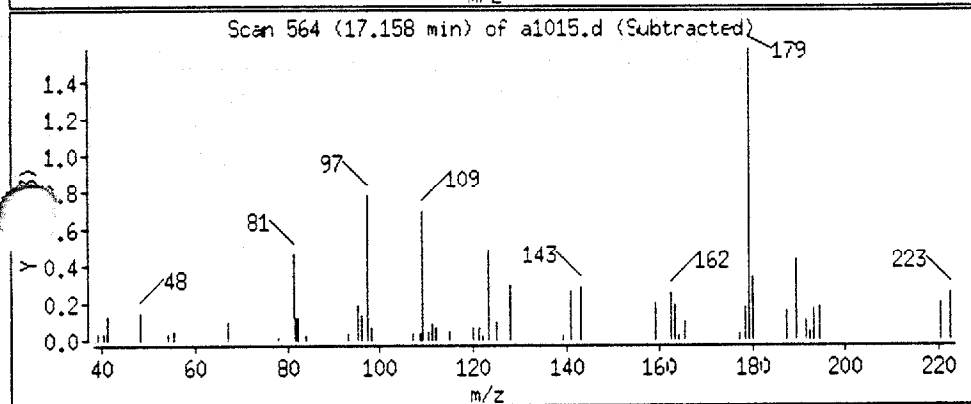
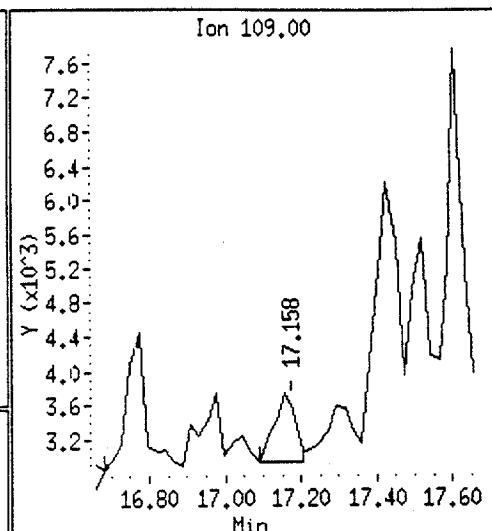
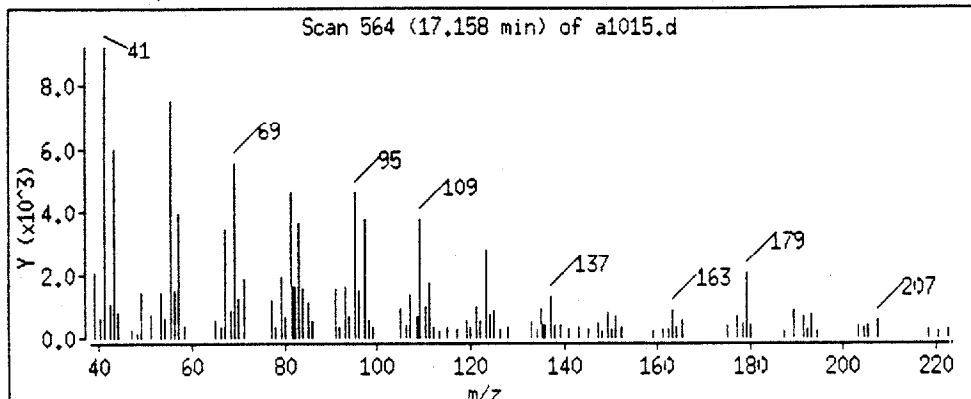
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

45 4-Nitrophenol





Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

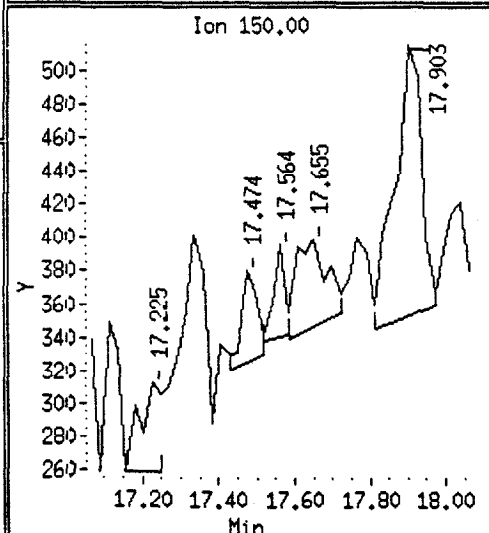
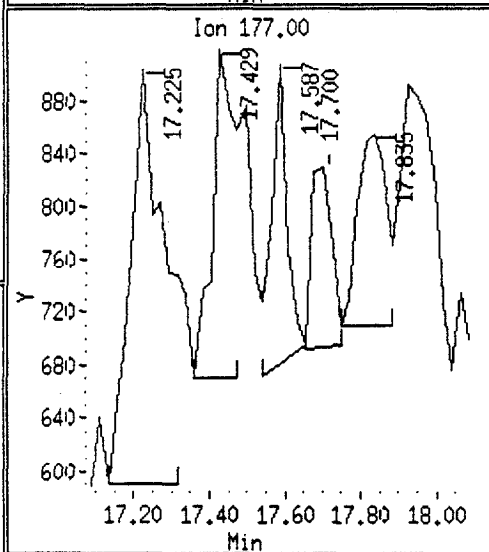
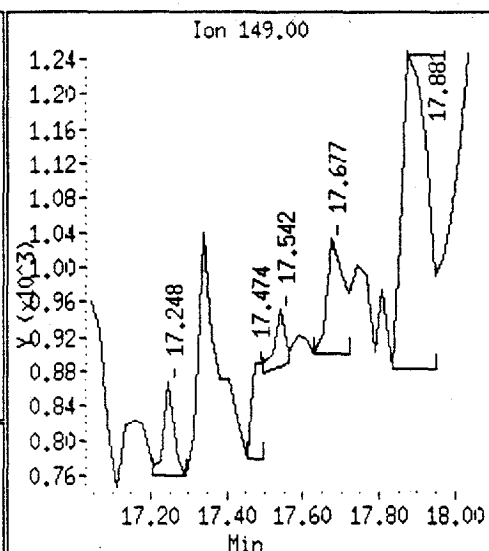
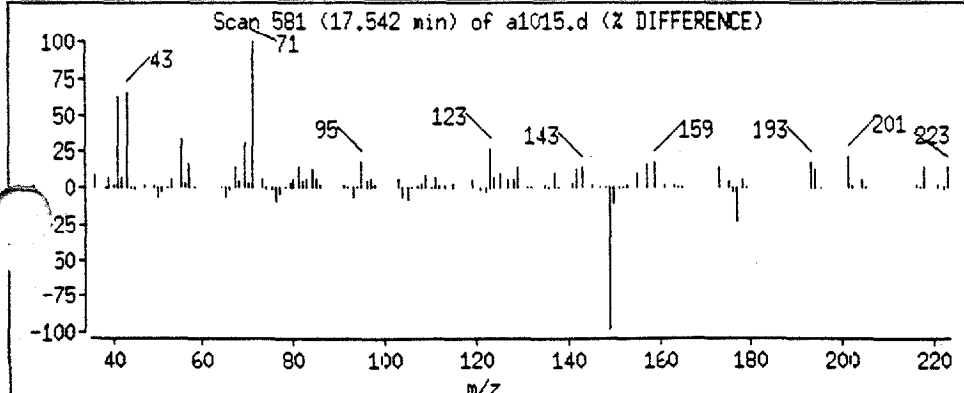
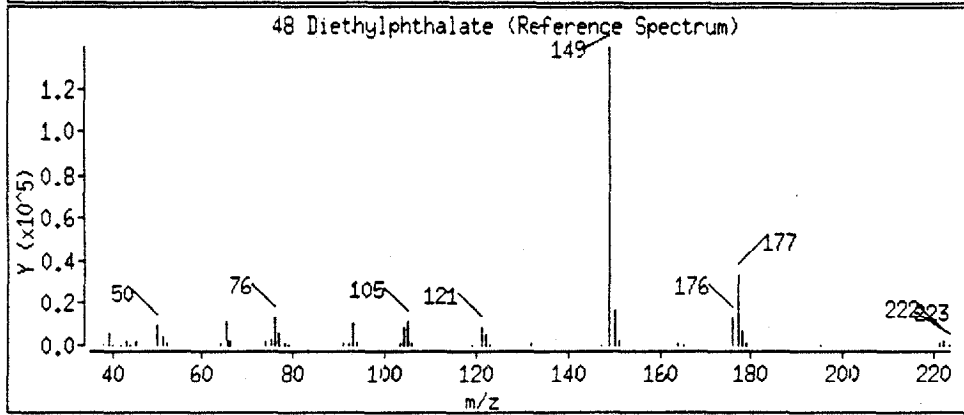
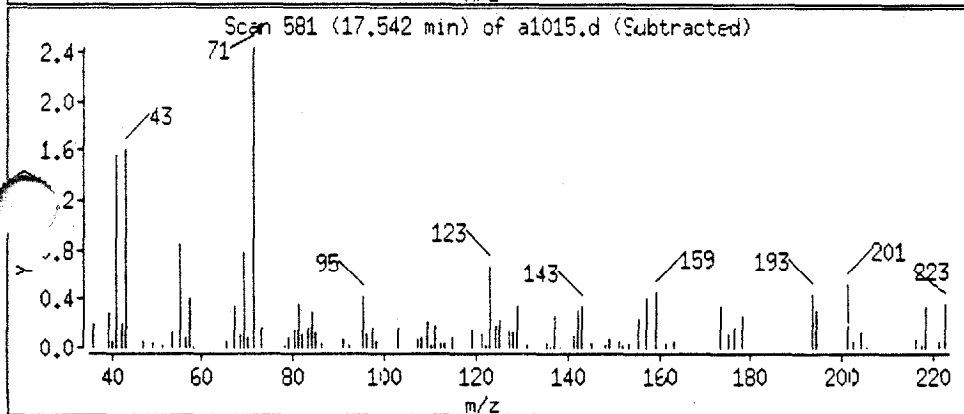
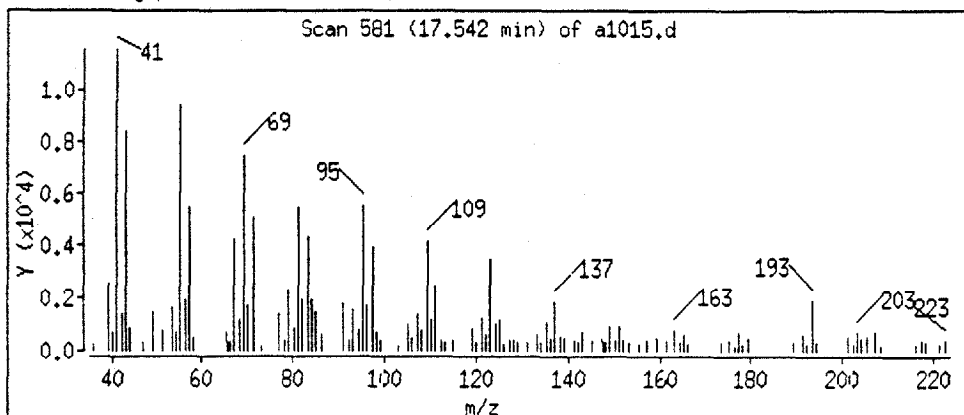
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

48 Diethylphthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date: 26-MAR-94 21:16

Instrument: a900.i

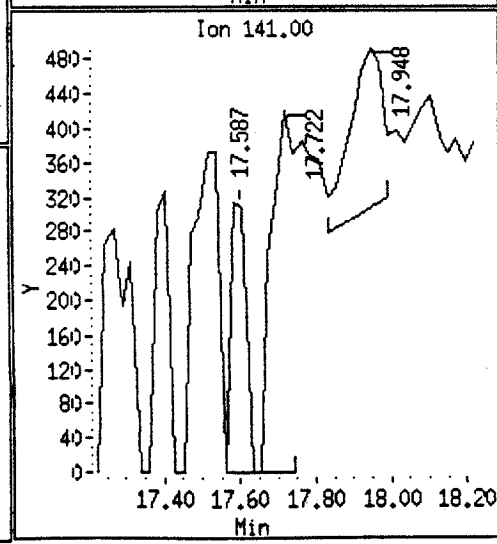
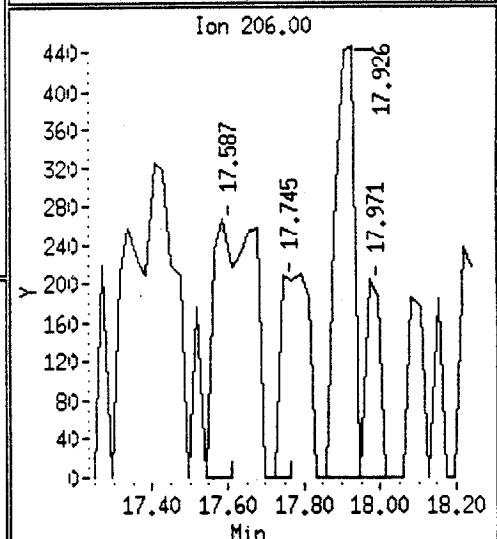
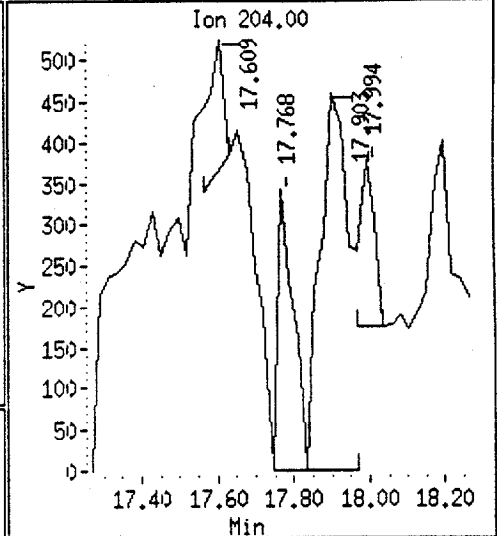
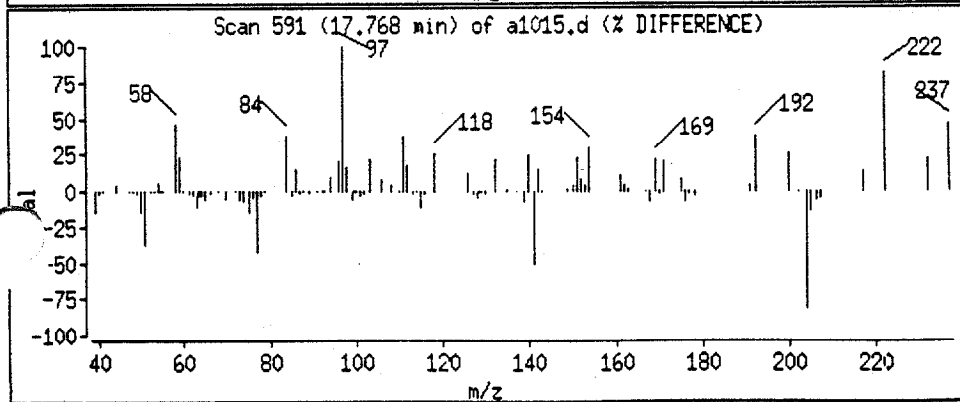
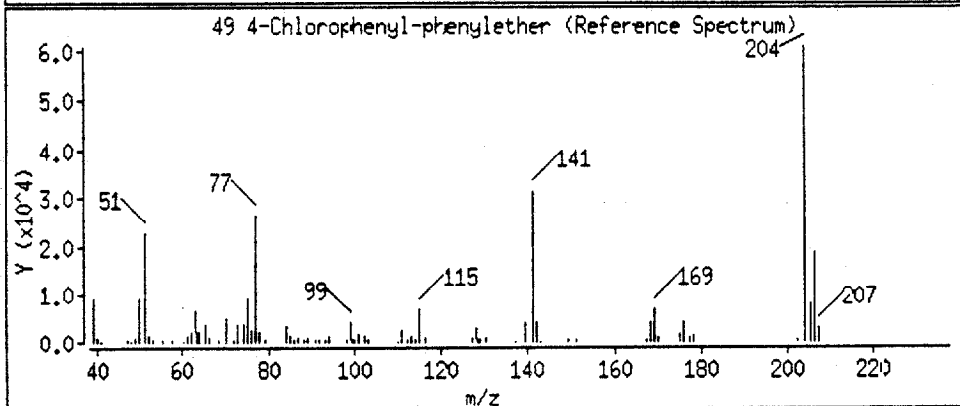
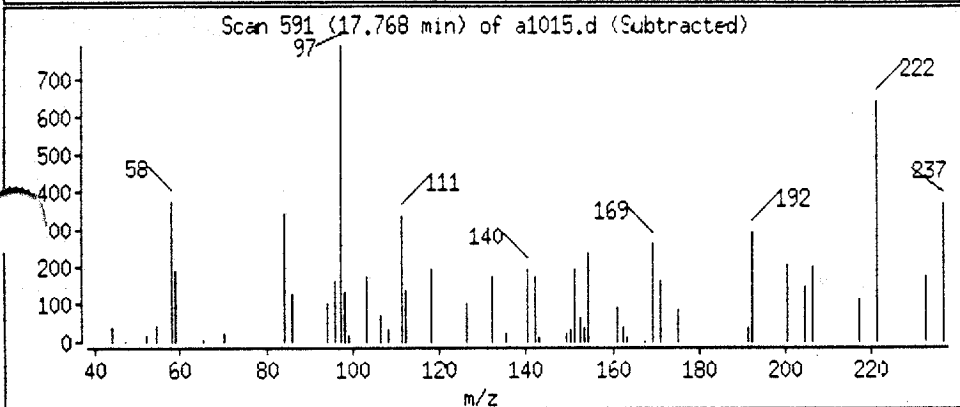
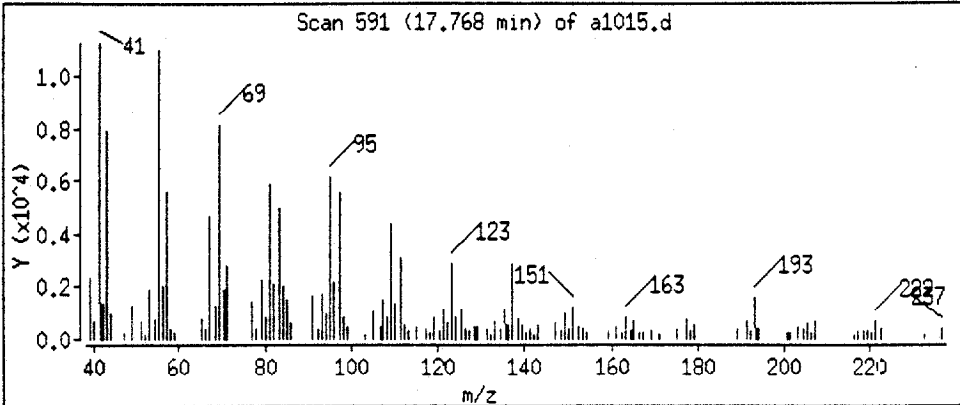
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

49 4-Chlorophenyl-phenylether



Data File: /chem/a900.i/a032694.b/a1015.d

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Date: 26-MAR-94 21:16

Instrument: a900.i

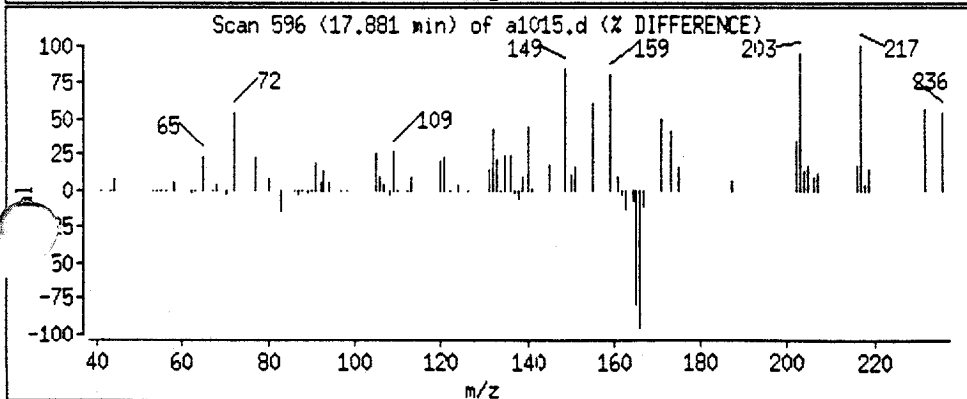
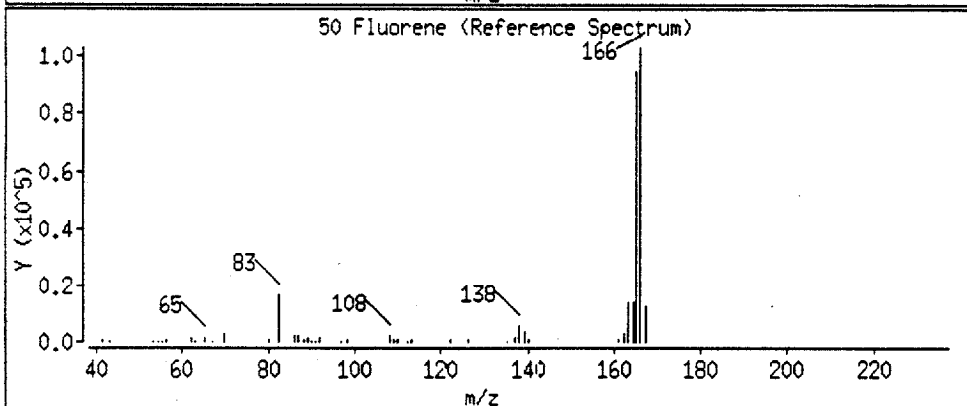
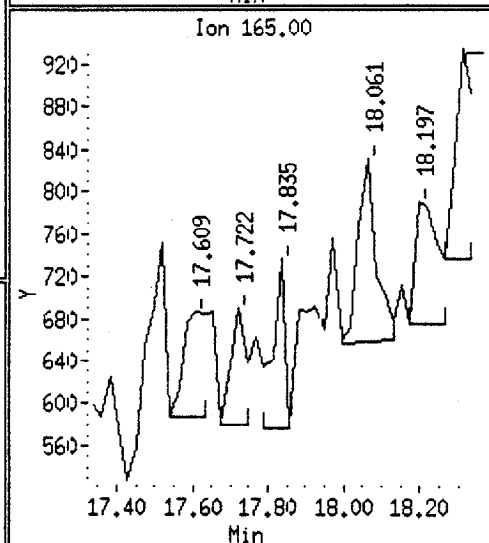
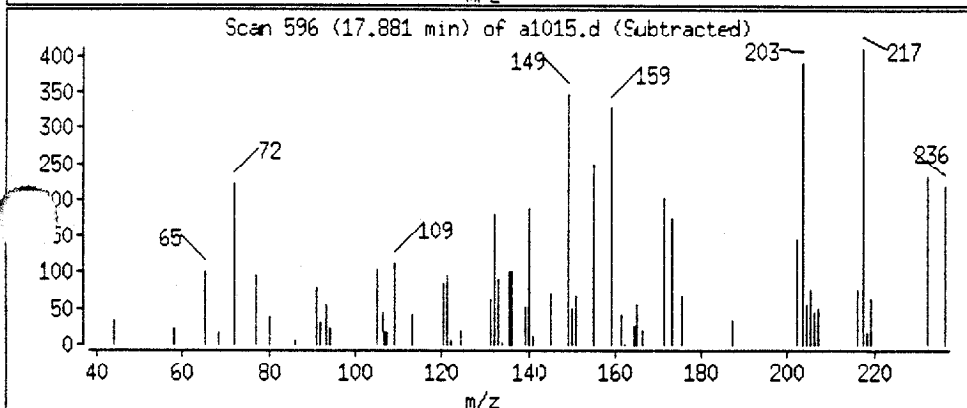
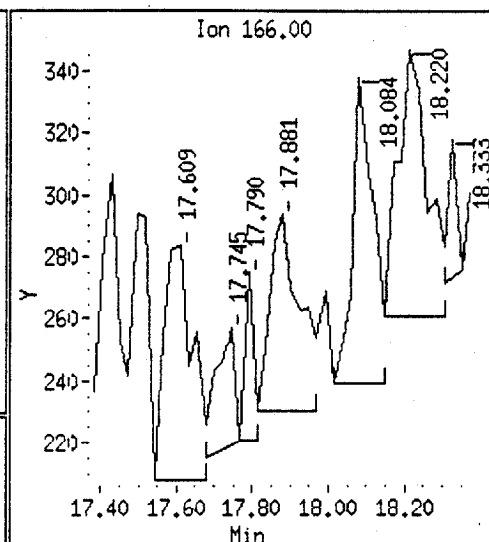
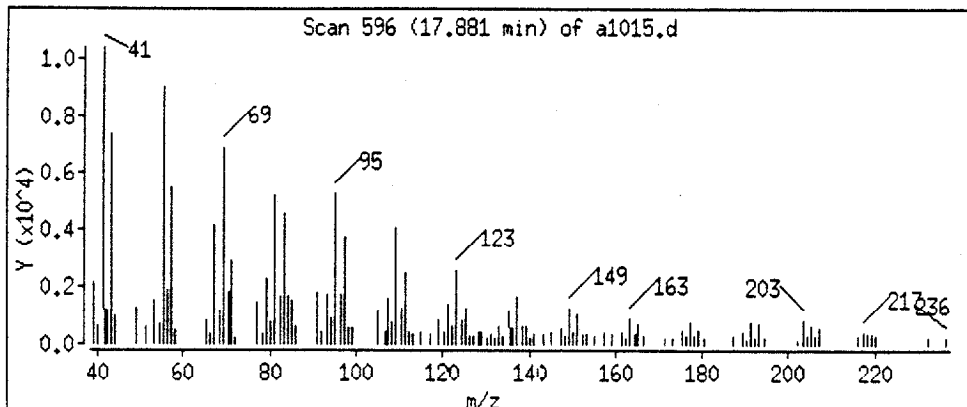
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

50 Fluorene



Data File: /chem/a900.1/a032694.b/a1015.d

Page 11

Date : 26-MAR-94 21:16

Instrument : a900.i

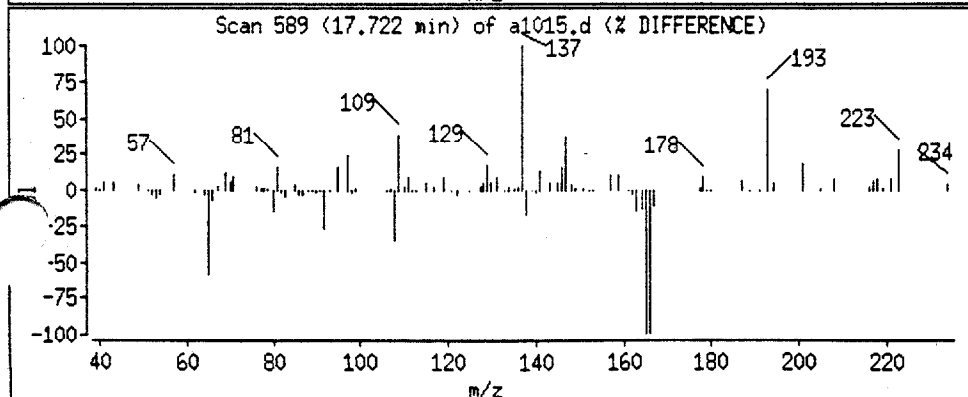
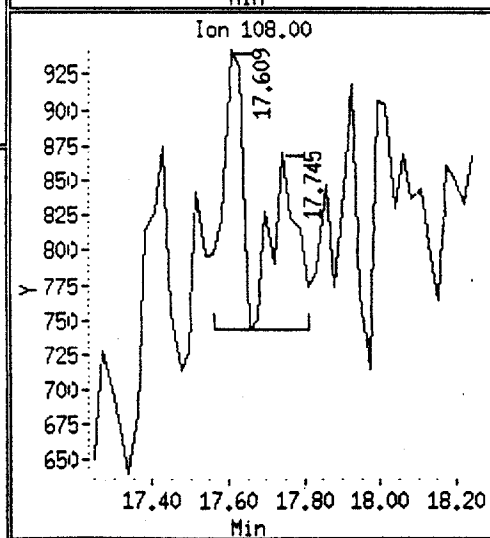
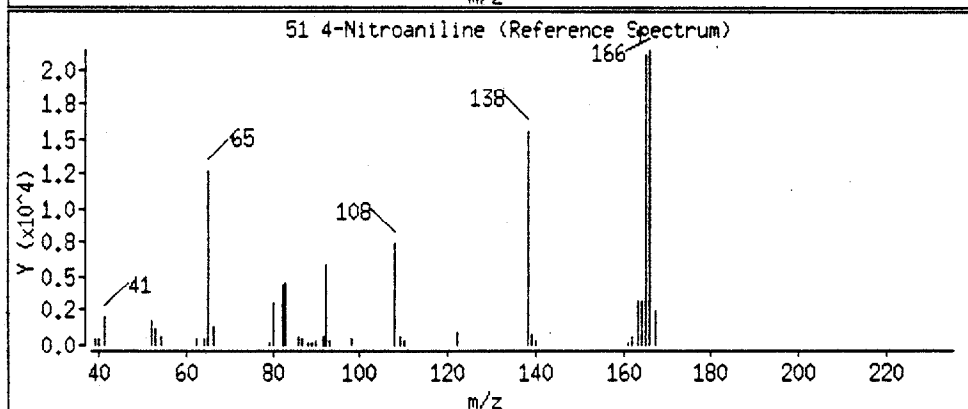
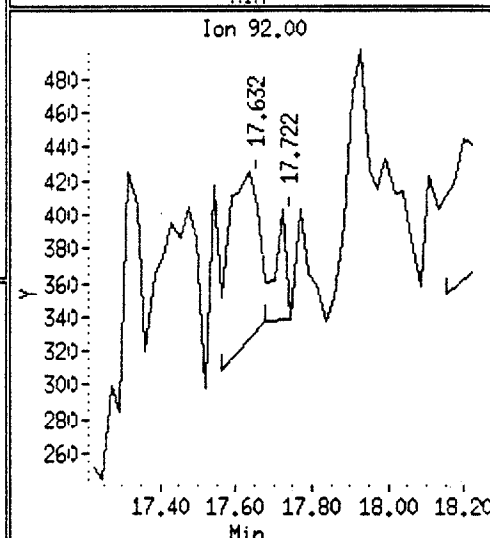
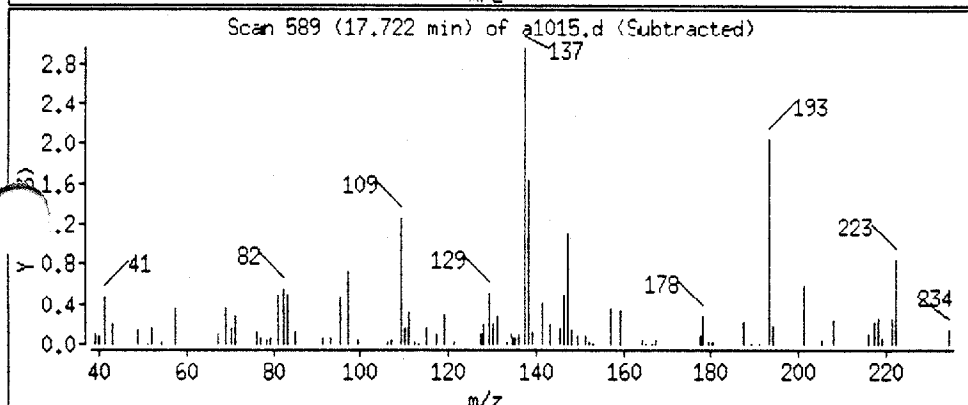
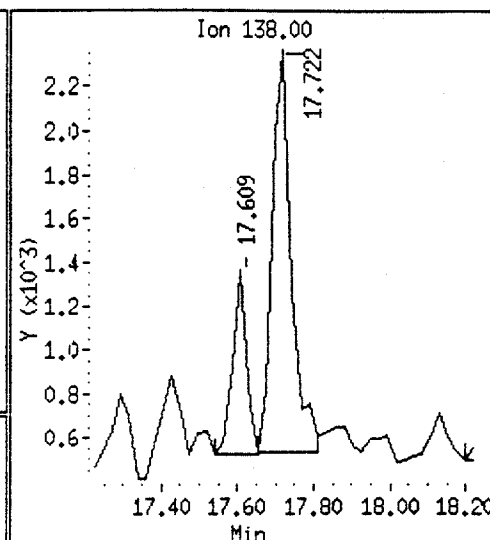
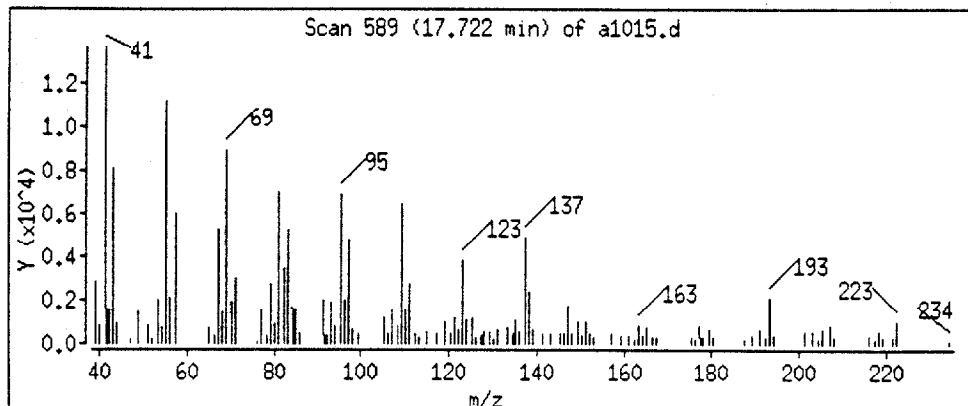
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

51 4-Nitroaniline



Data File: /chem/a900.1/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

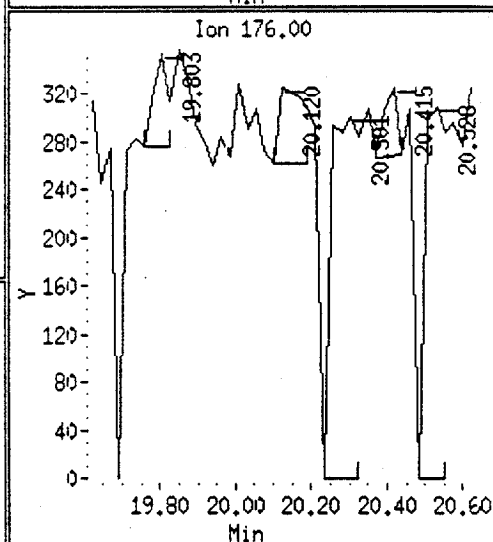
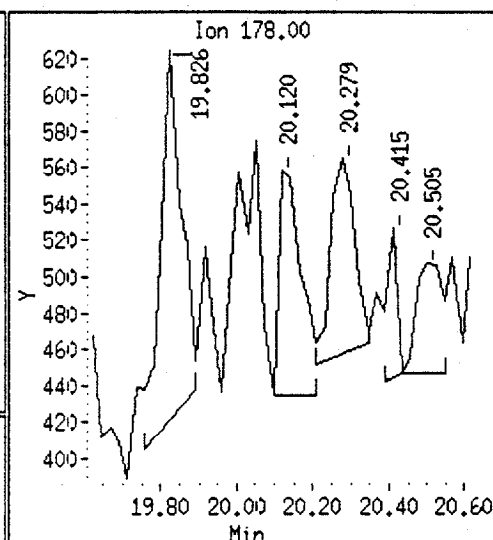
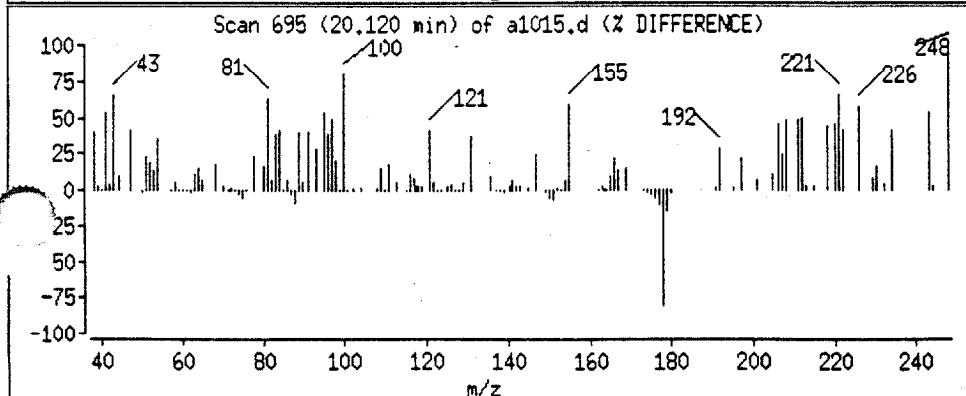
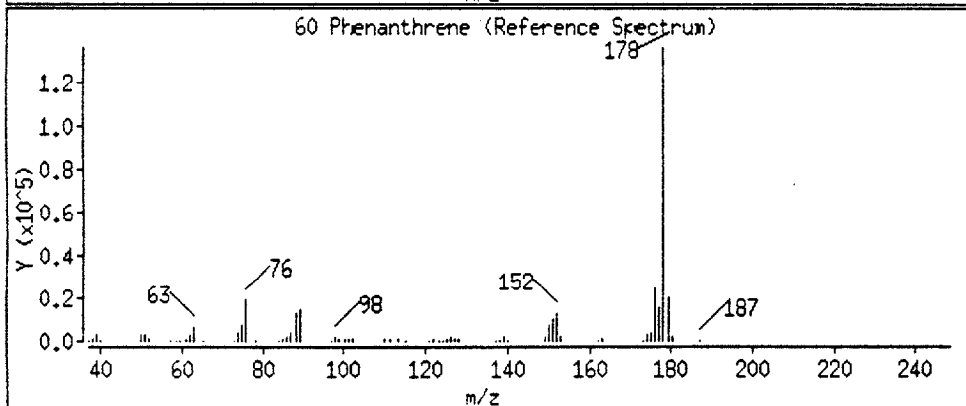
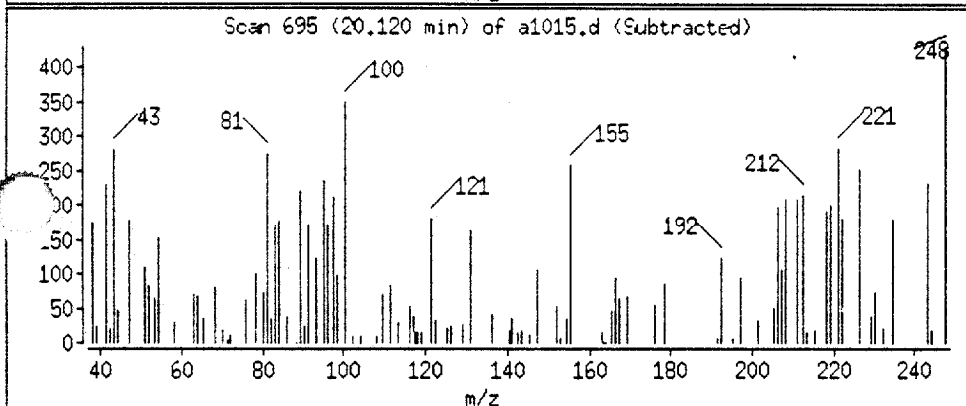
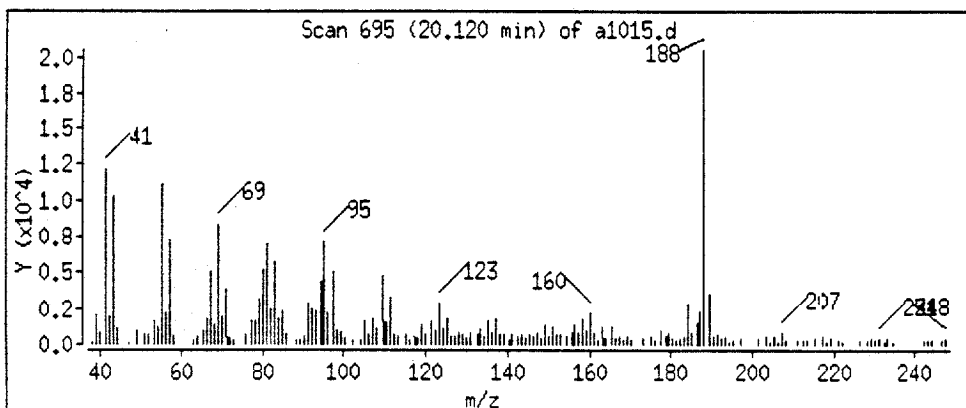
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

60 Phenanthrene



Data File: /chem/a900.1/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

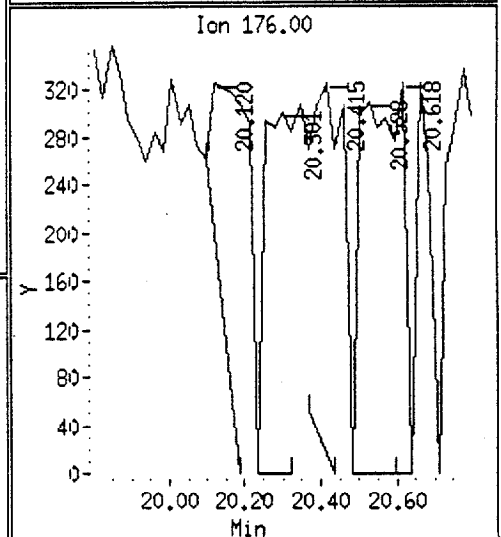
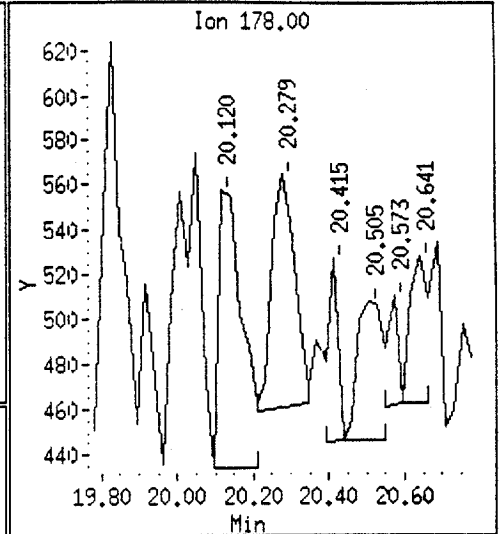
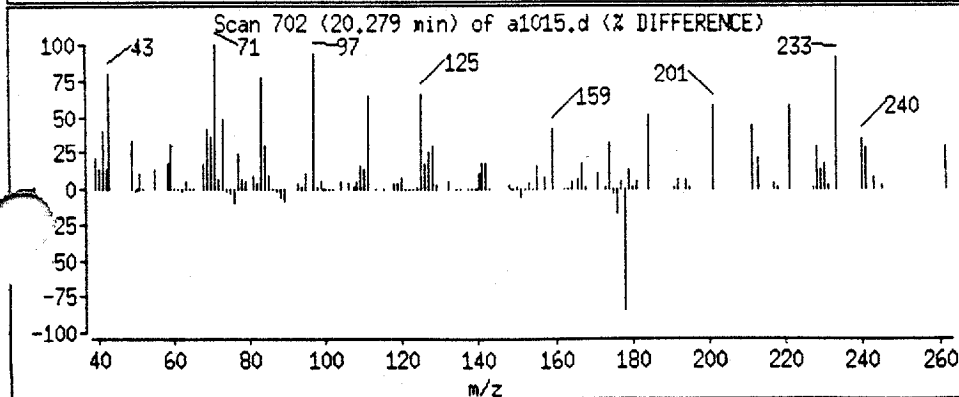
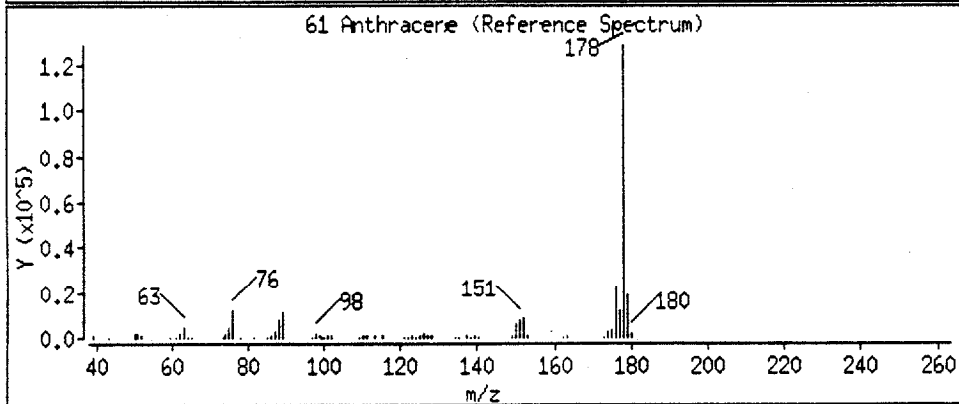
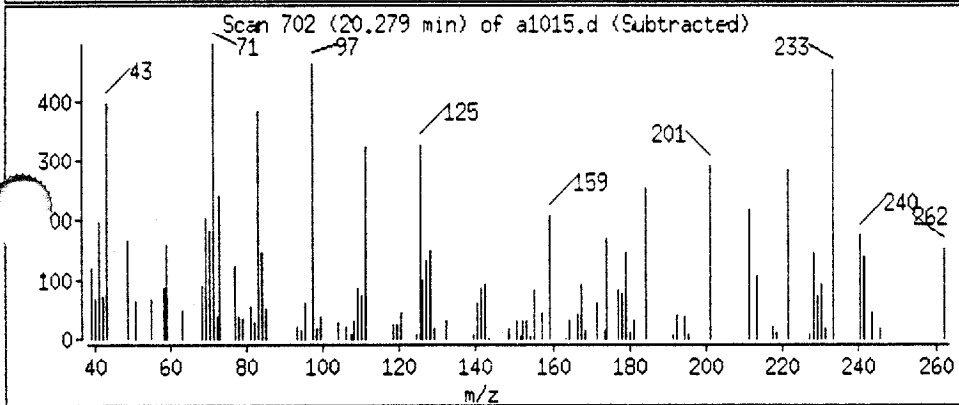
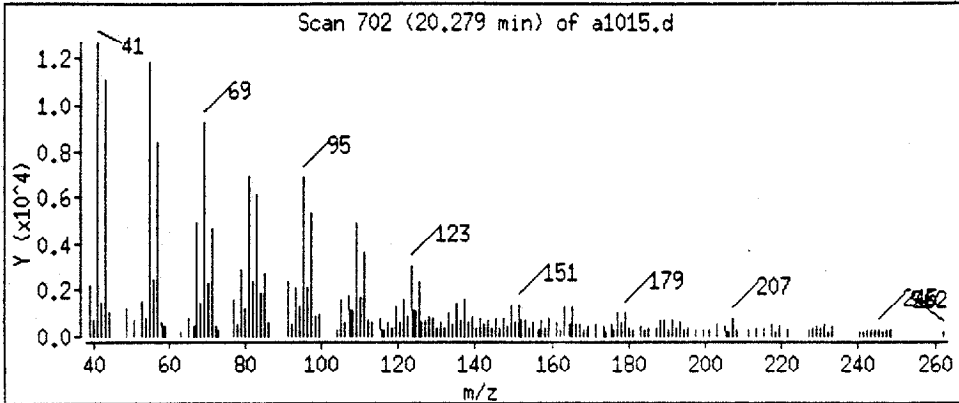
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

61 Anthracene



Data File: /chem/a900.1/a032694.b/a1015.d

Page 14

Date: 26-MAR-94 21:16

Instrument: a900.i

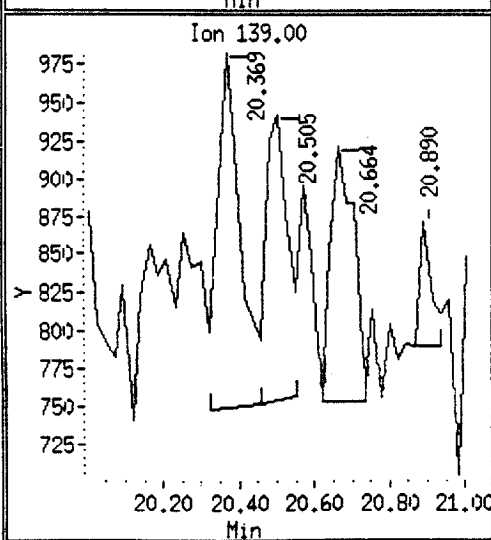
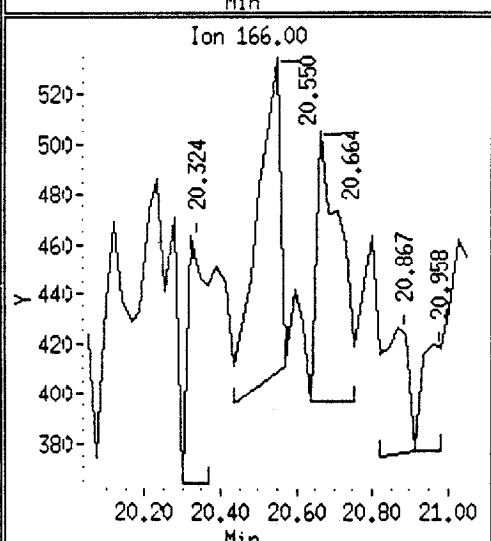
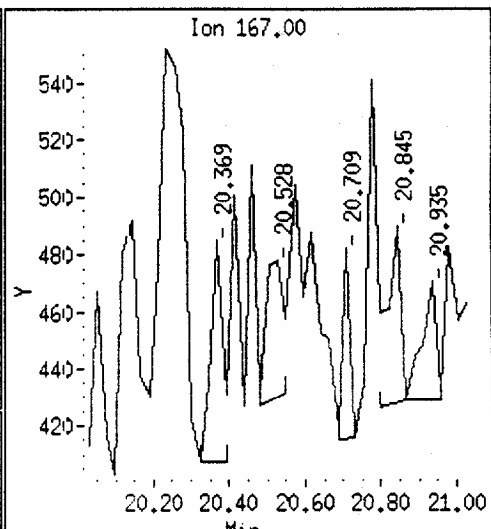
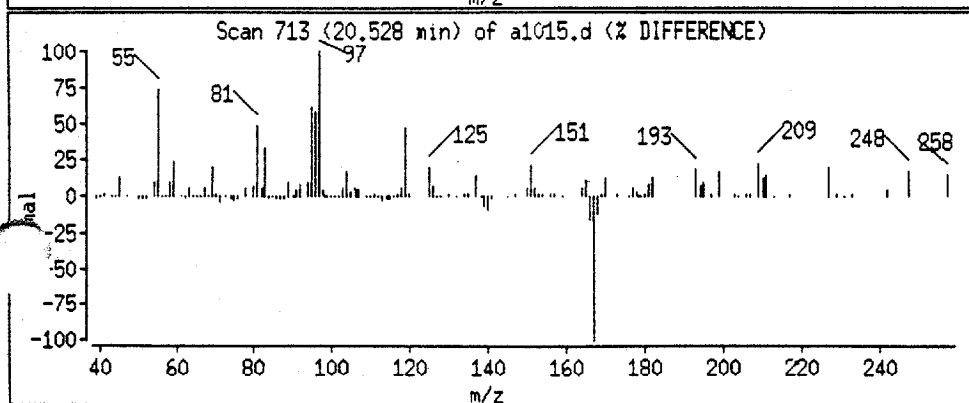
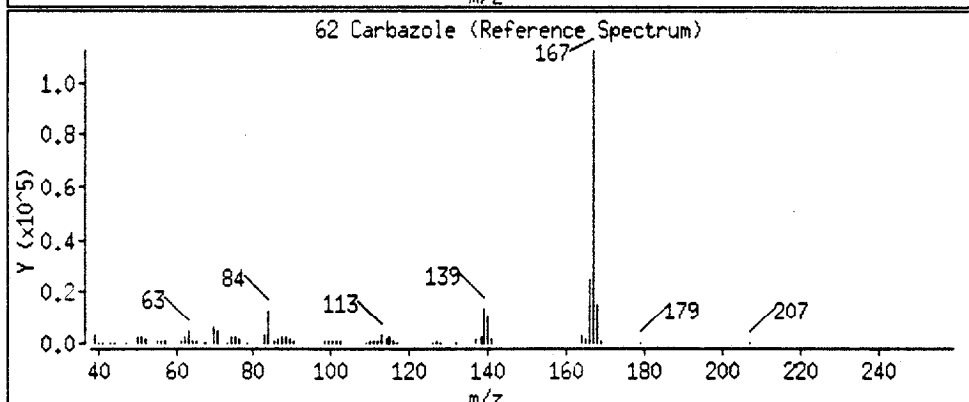
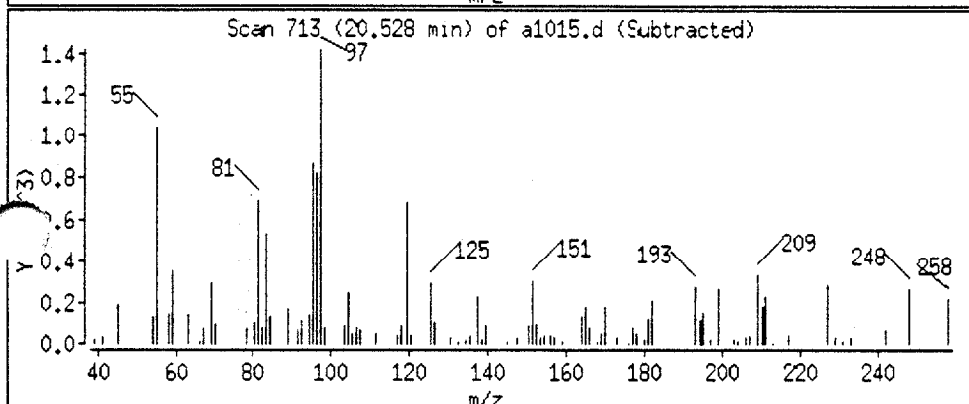
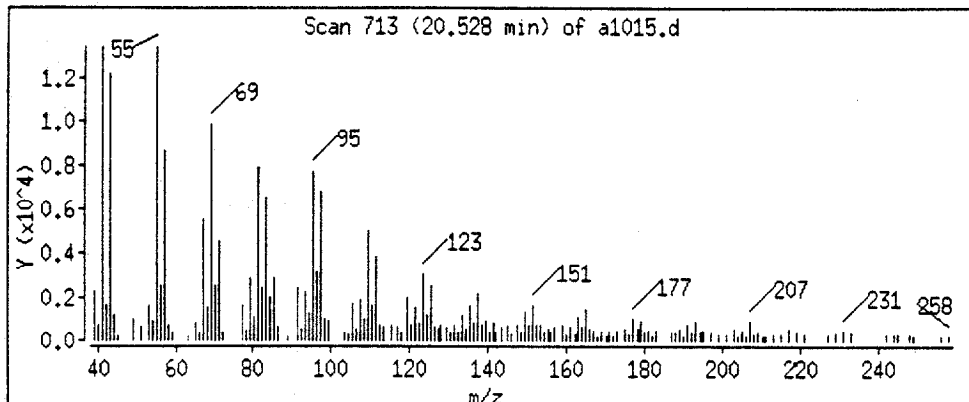
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

62 Carbazole



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

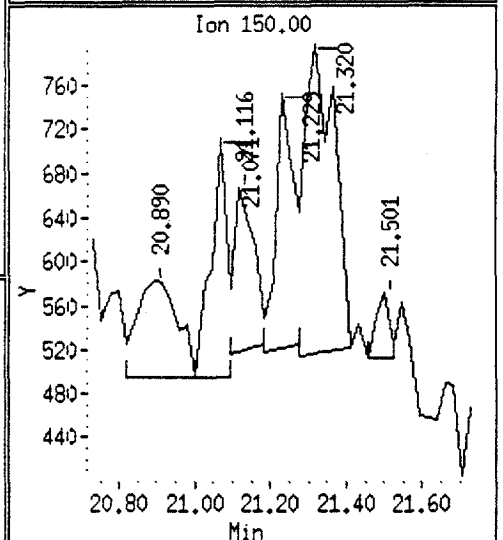
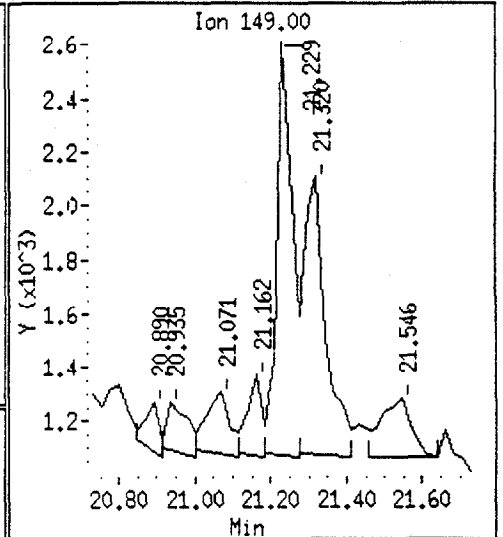
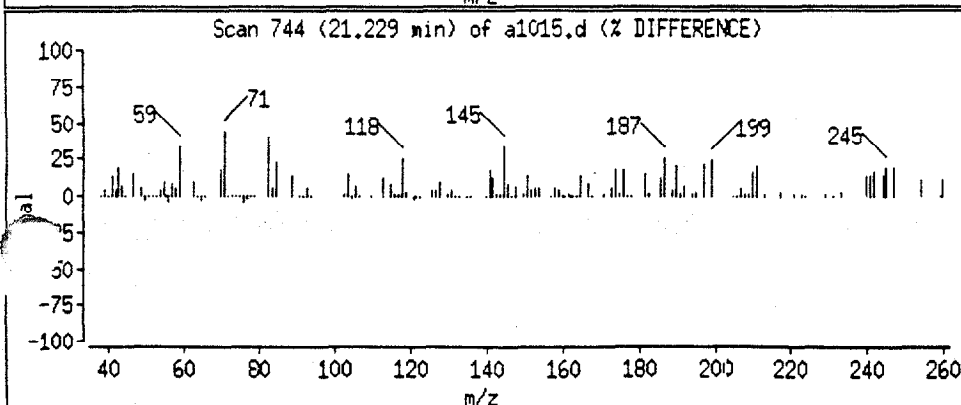
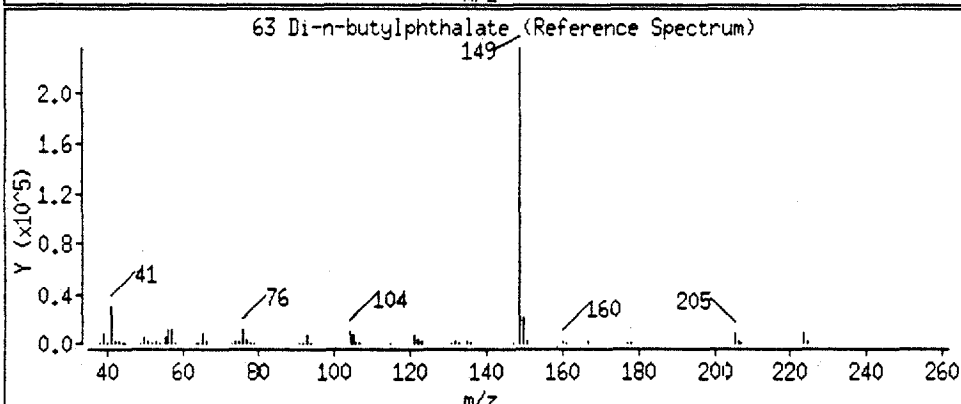
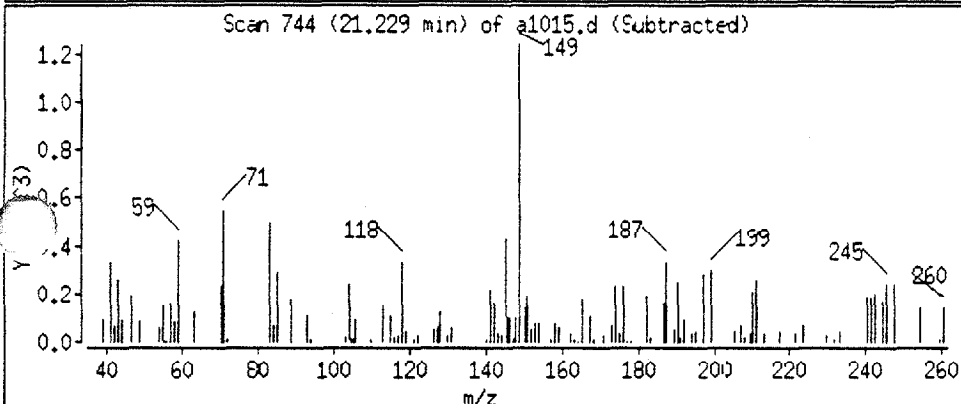
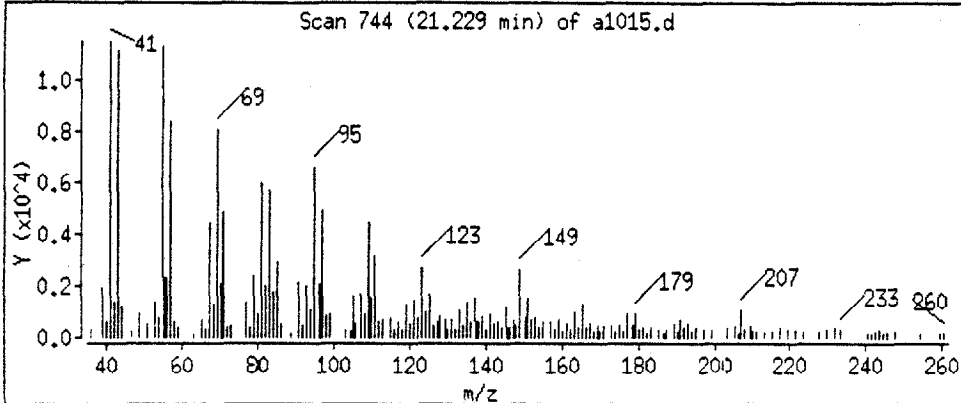
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

63 Di-n-butylphthalate





Data File: /chem/a900.1/a032634.b/a1015.d

Page 16

Date: 26-MAR-94 21:16

Instrument: a900.i

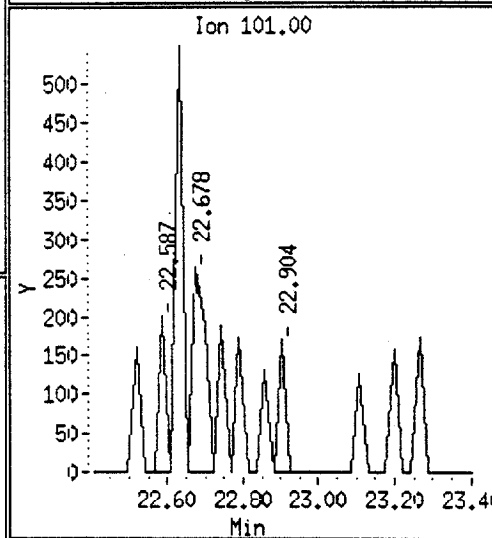
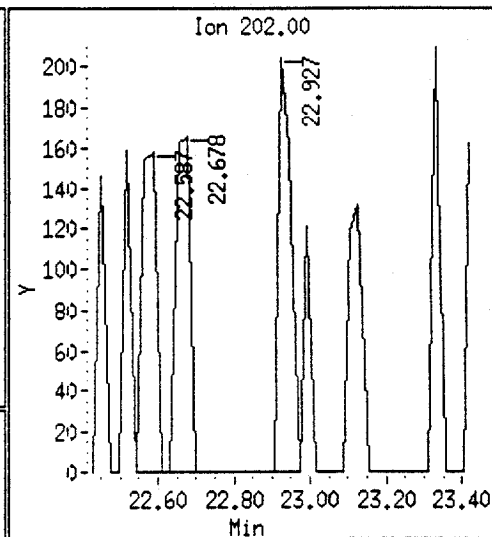
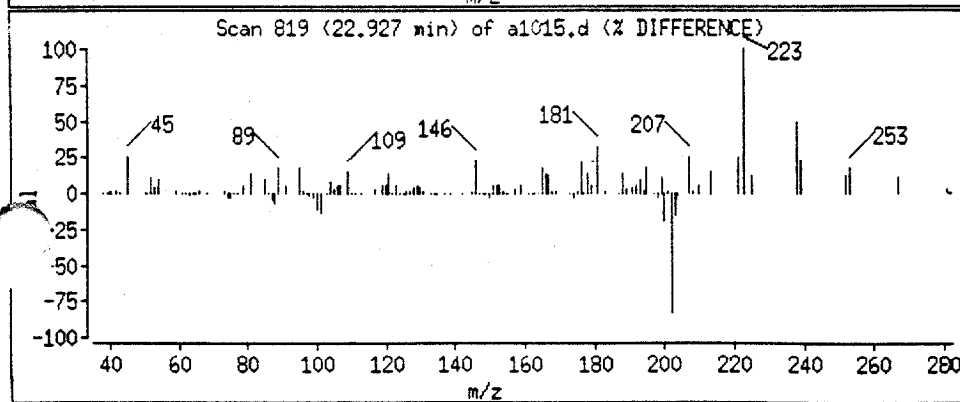
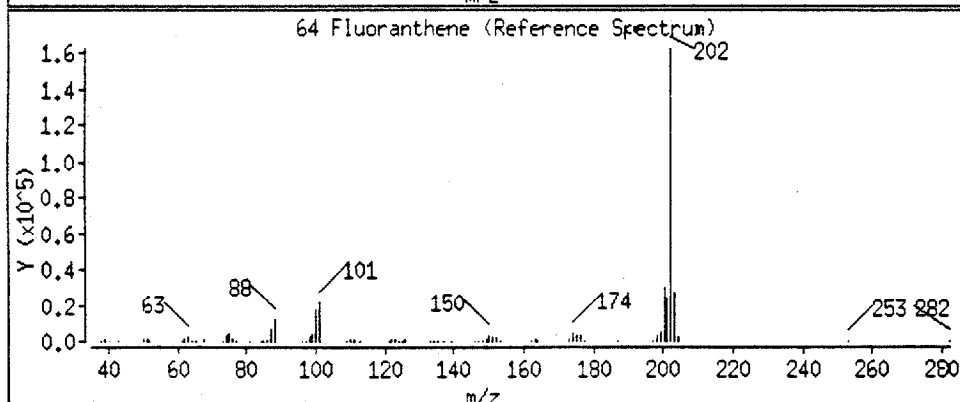
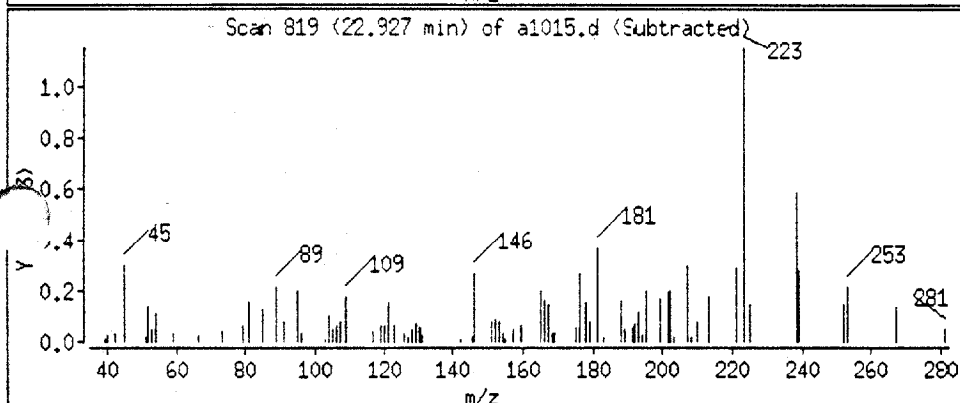
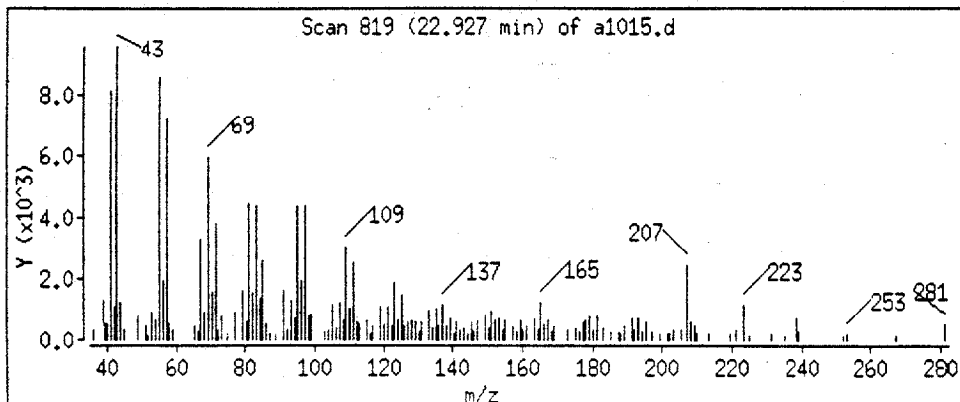
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

64 Fluoranthene



Data File: /chem/a900.1/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.1

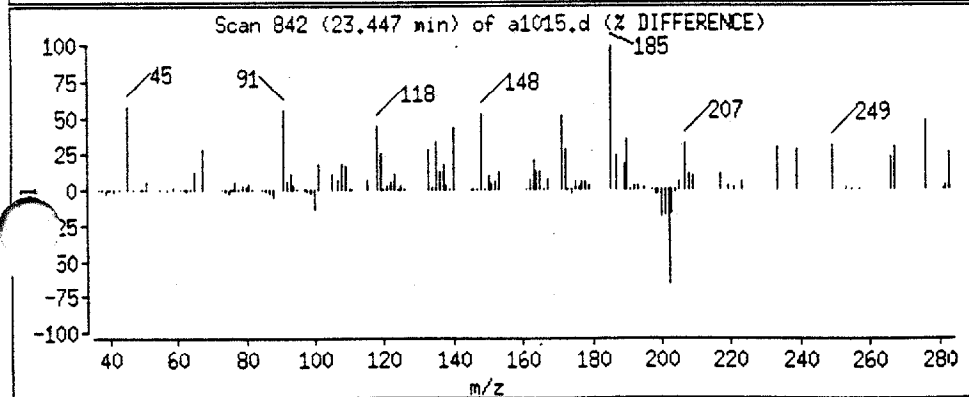
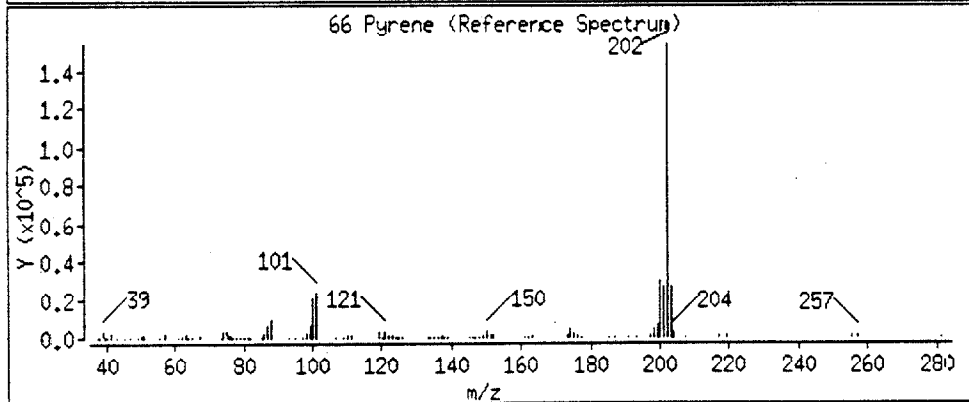
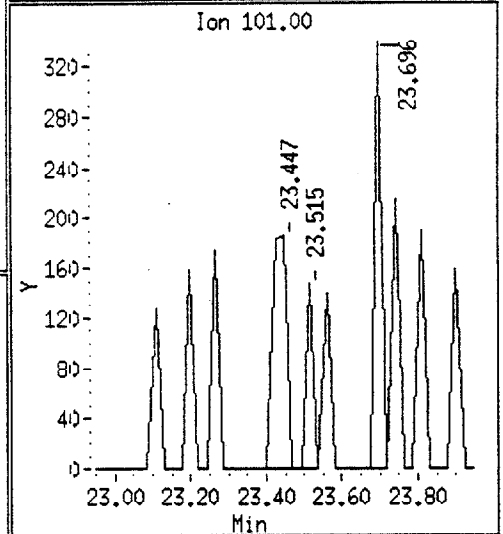
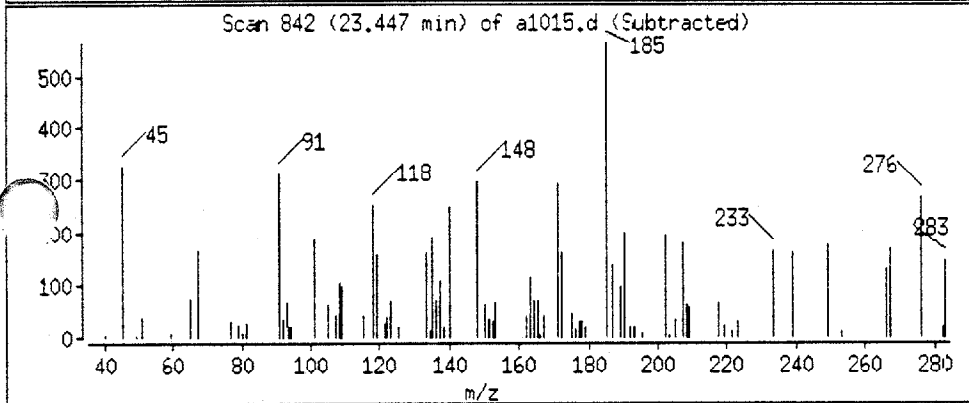
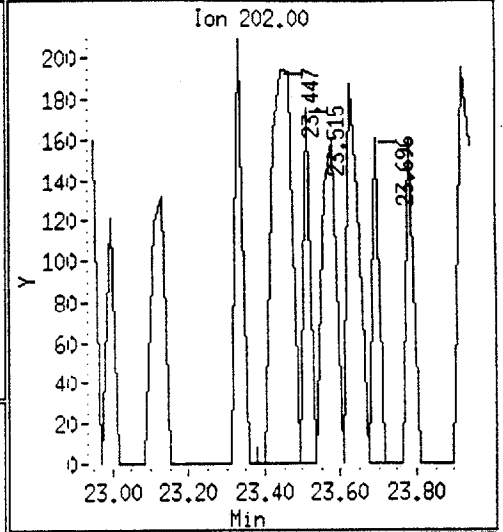
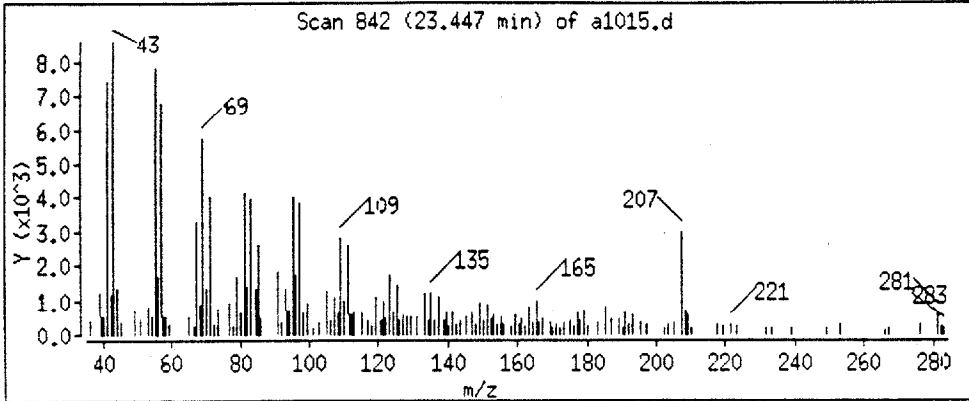
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

66 Pyrene



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

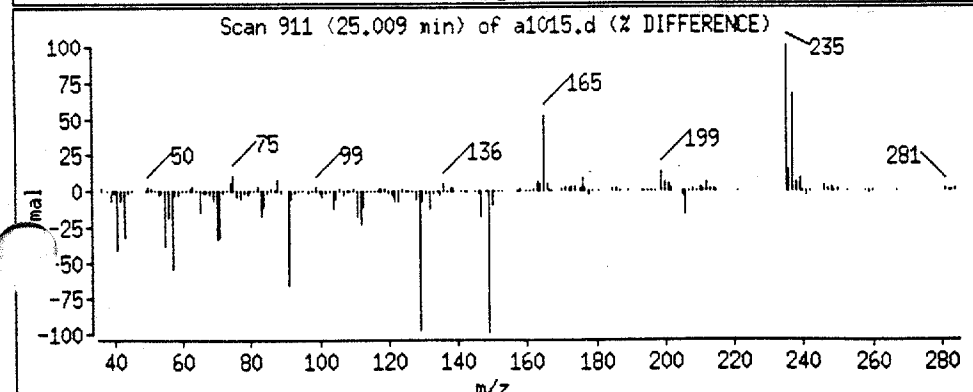
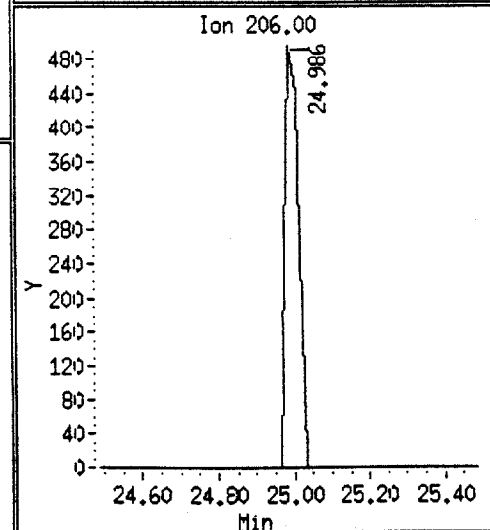
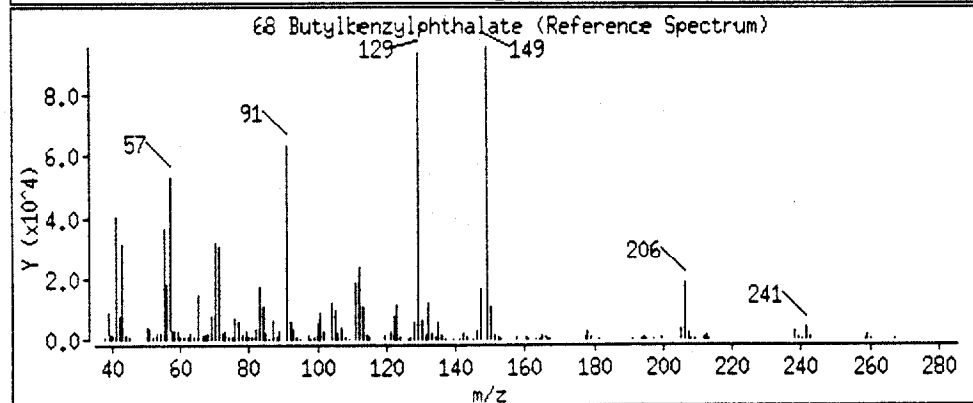
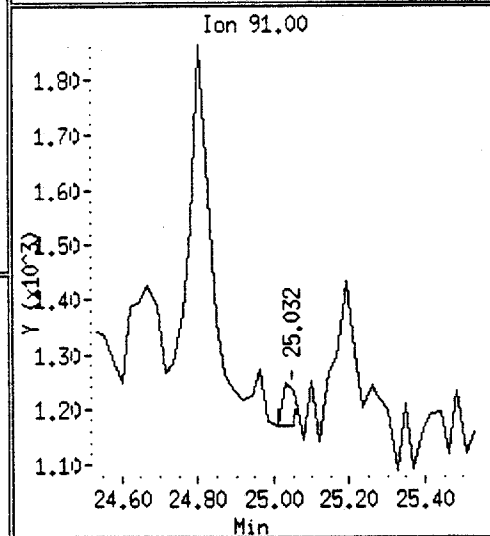
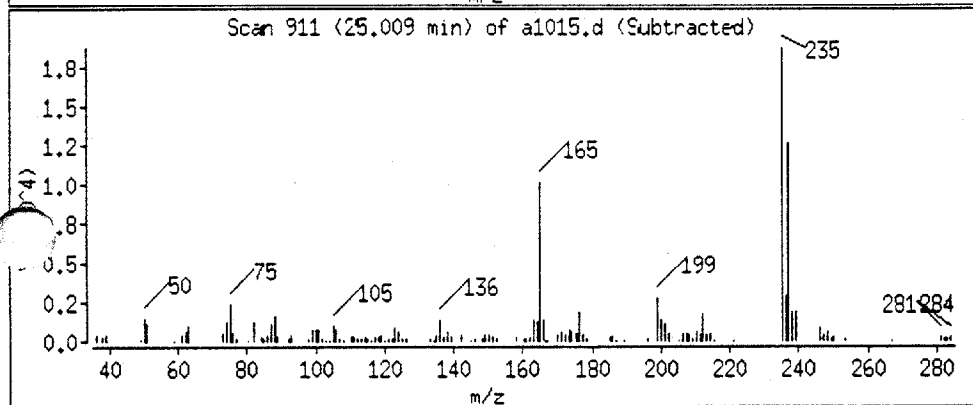
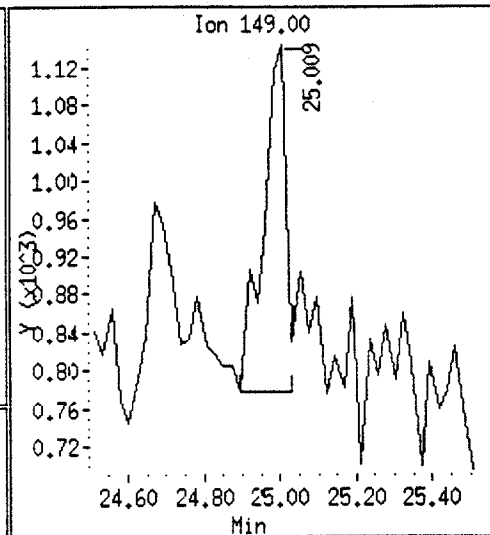
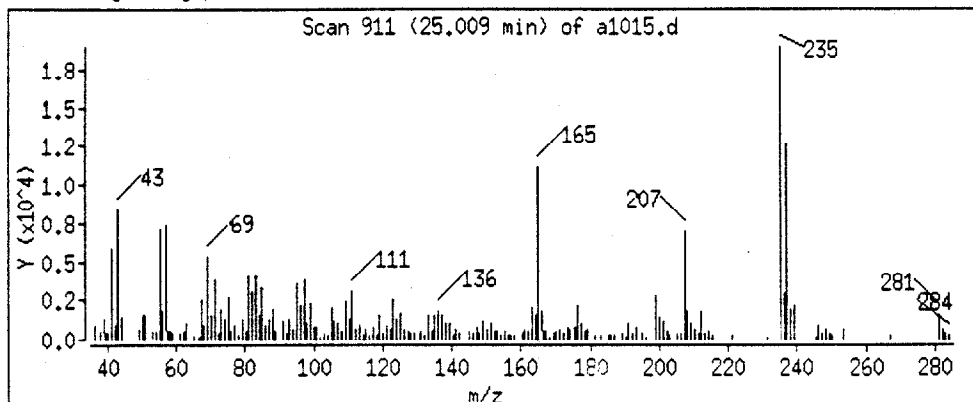
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

68 Butylbenzylphthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

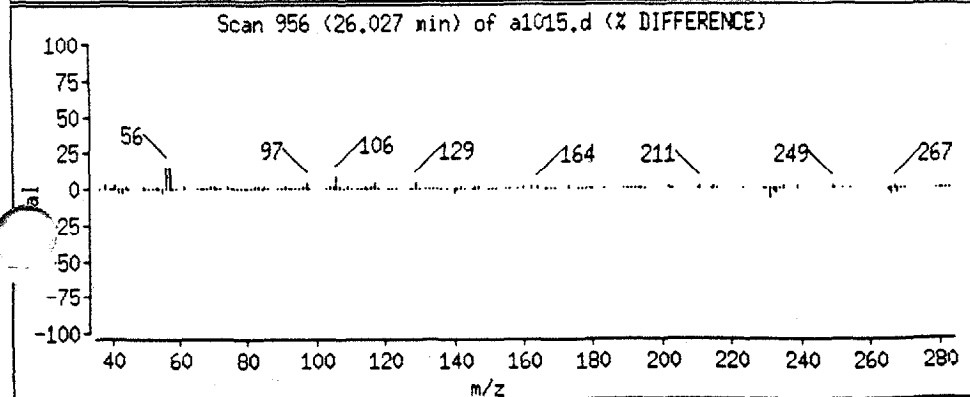
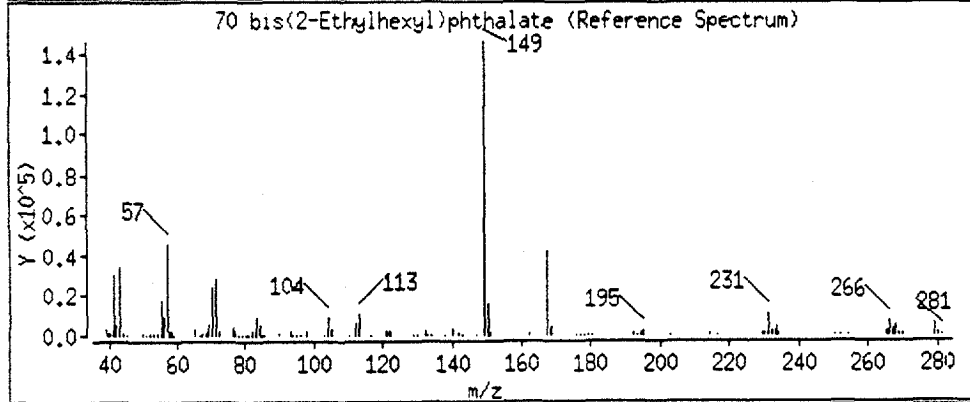
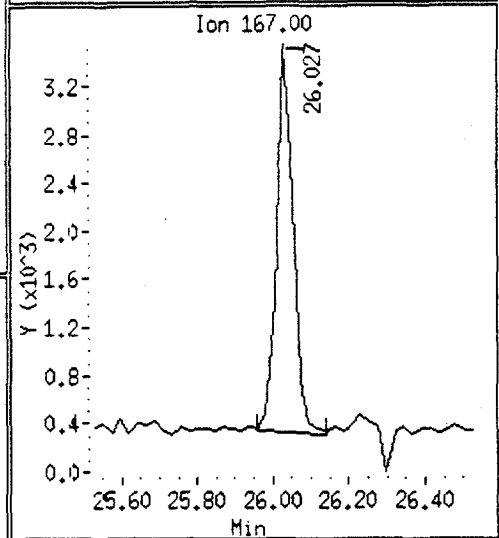
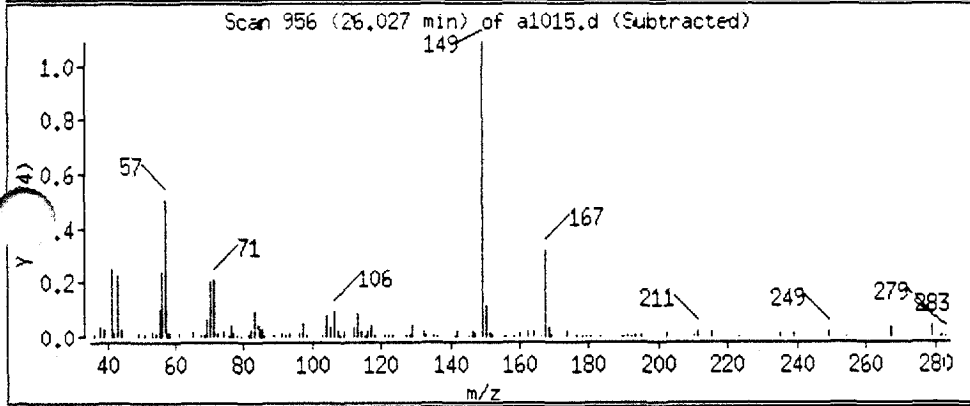
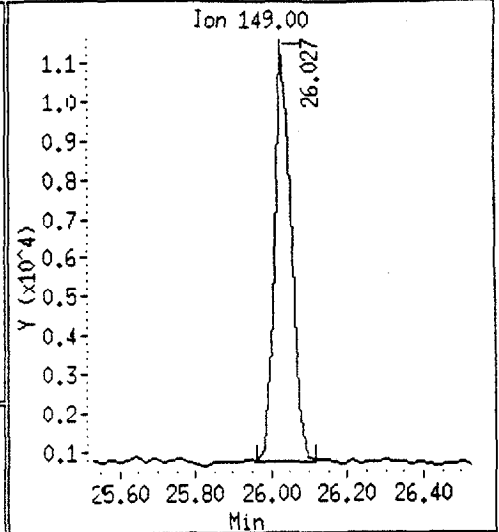
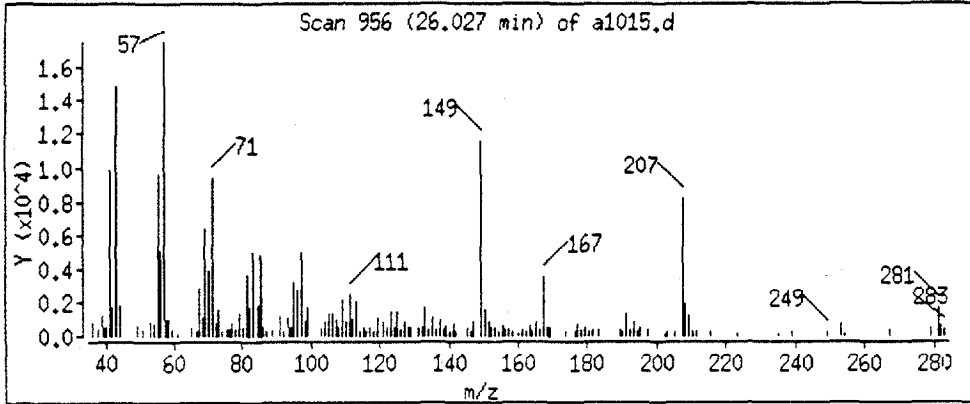
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

70 bis(2-Ethylhexyl)phthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

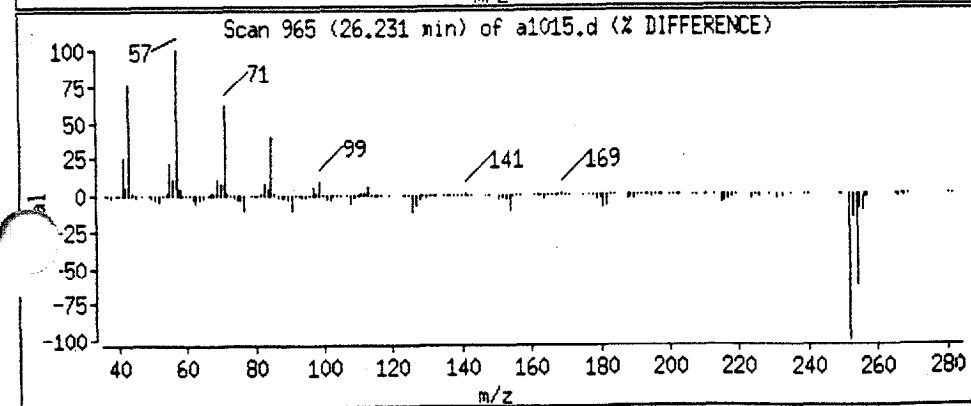
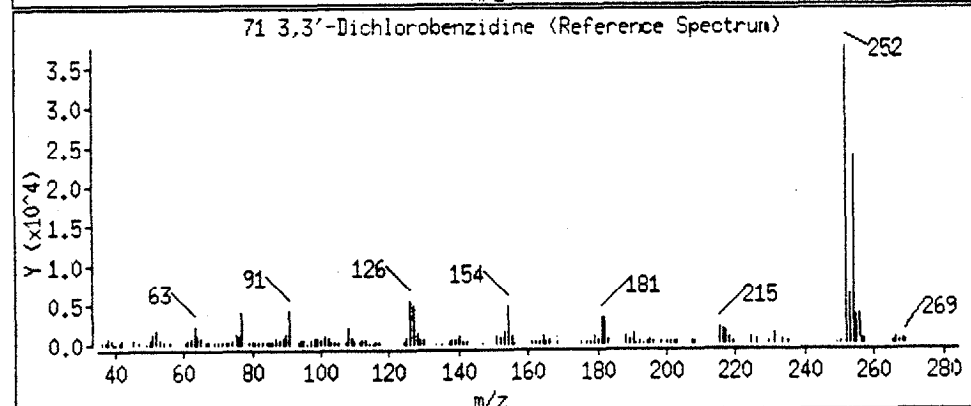
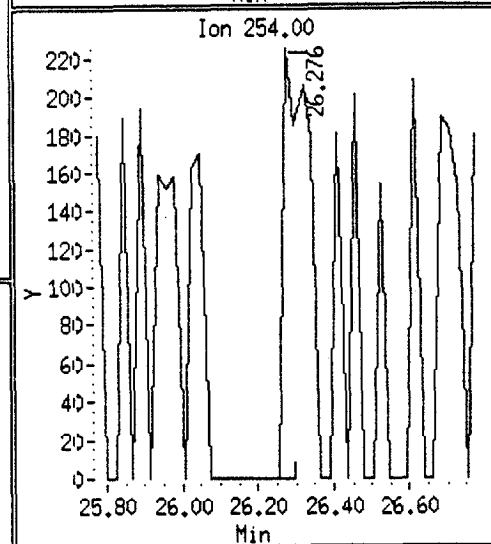
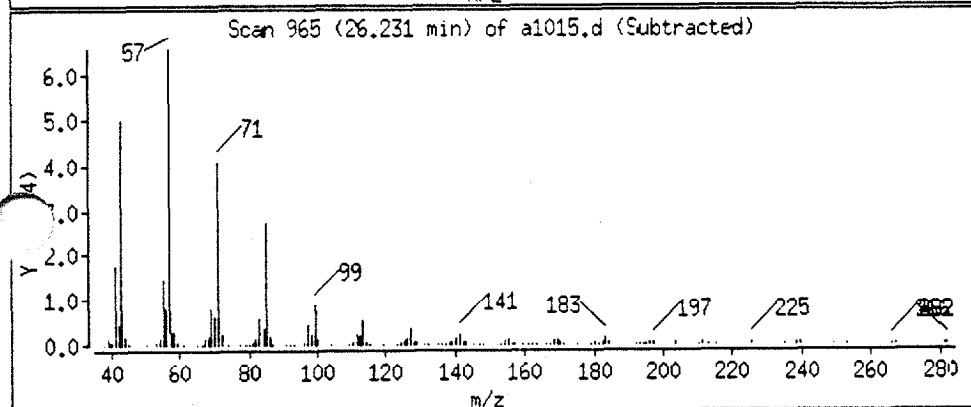
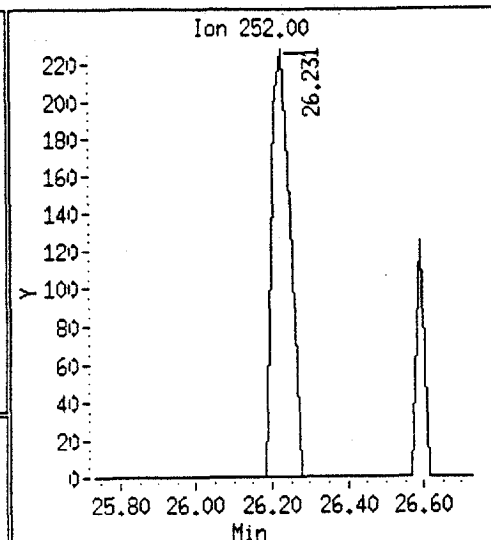
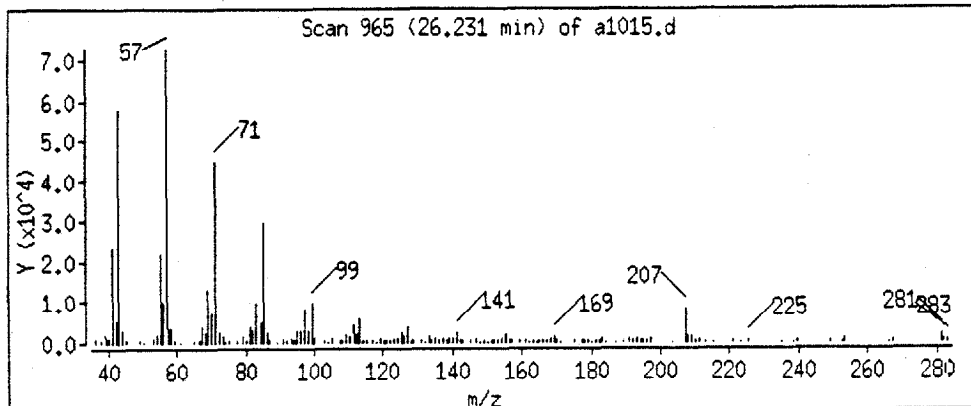
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

71 3,3'-Dichlorobenzidine



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

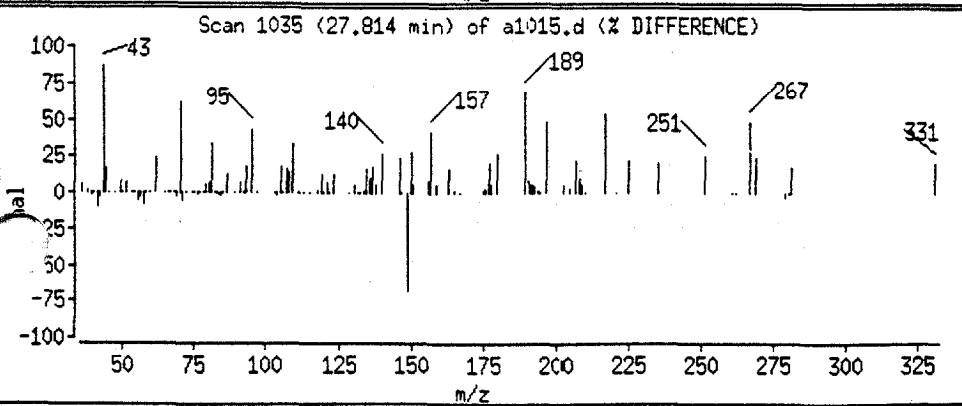
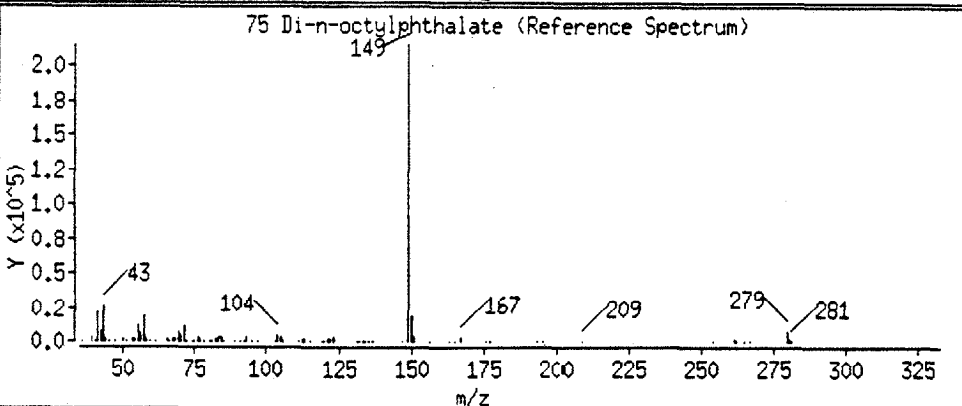
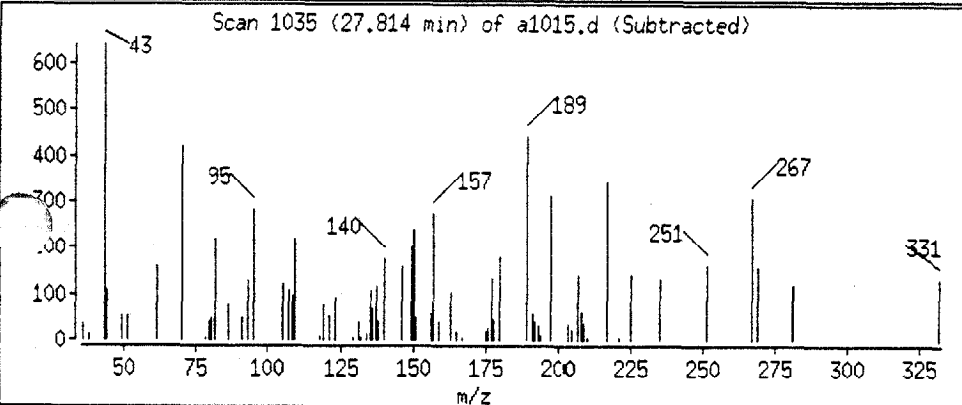
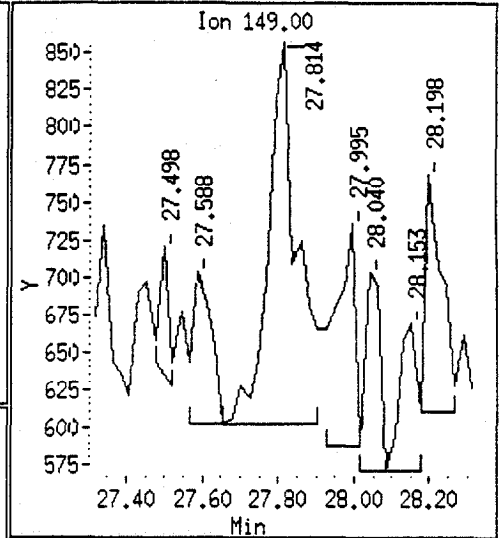
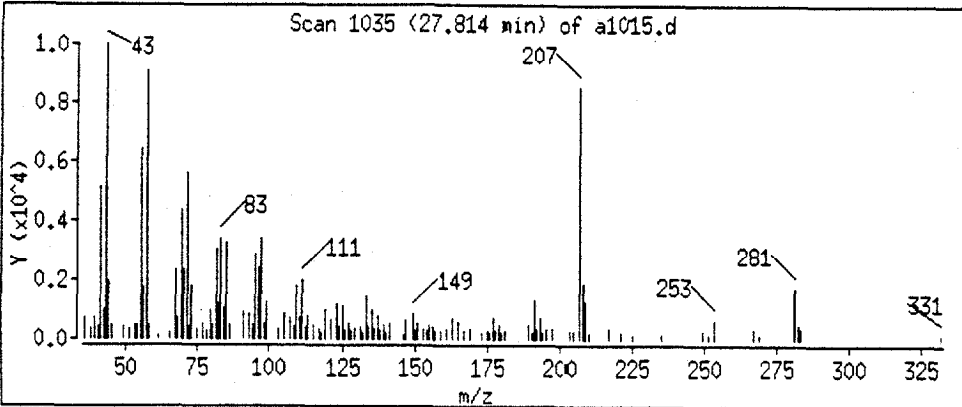
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

75 Di-n-octylphthalate



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK 01

Lab Name: ASC

Contract: NERSA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) Soil

Lab Sample ID: NDV3317 V

Sample wt/vol: 4.00g/mL g

Lab File ID: 1C6774

Level: (low/med) NA

Date Received: 02/18/94

\* Moisture: not dec. NA

Date Analyzed: 02/25/94

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 50

Soil Extract Volume: 10,000 (uL)

Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	625	U
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-Dichloroethene (total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-Dichloroethane	625	U
78-93-3	2-Butanone	1250	U
71-55-6	1,1,1-Trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-Dichloropropane	625	U
10061-01-5	cis-1,3-Dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-Trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-Dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-Methyl-2-Pentanone	1250	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-Tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Xylene (total)	625	U
	1,2-trans-Dichloroethene	625	U
	m-p-Xylenes	625	U

0176

EPA SAMPLE NO.

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NEESA VBLK01

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

Matrix: (soil/water) Soil Lab Sample ID: N2V3317

Sample wt/vol: 4.00 (g/mL) g Lab File ID: 0274

Level: (low/med) NA Date Received: 02-18-94

‡ Moisture: not dec. NA Date Analyzed: 2-25-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

Number TICs found: C

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: WESA VSPK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: NAV3317VS  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: 1C6776  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. NA Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	-----Chloromethane	625	u
74-83-9	-----Bromomethane	625	u
75-01-4	-----Vinyl Chloride	625	u
75-00-3	-----Chloroethane	625	u
75-09-2	-----Methylene Chloride	6000	
67-64-1	-----Acetone	6410	
75-15-0	-----Carbon Disulfide	6040	
75-35-4	-----1,1-Dichloroethene	6160	
75-34-3	-----1,1-Dichloroethane <u>cis</u>	5950	
540-59-0	-----1,2-Dichloroethene <u>(total)</u>	<del>5990</del> 6090	
67-66-3	-----Chloroform	6580	
107-06-2	-----1,2-Dichloroethane	<del>6070</del> 5910	5990
78-93-3	-----2-Butanone	6360	
71-55-6	-----1,1,1-Trichloroethane	6440	
56-23-5	-----Carbon Tetrachloride	6180	
75-27-4	-----Bromodichloromethane	6240	
78-87-5	-----1,2-Dichloropropane	5830	
10061-01-5	-----cis-1,3-Dichloropropene	6470	
79-01-6	-----Trichloroethene	6180	
124-48-1	-----Dibromochloromethane	6150	
79-00-5	-----1,1,2-Trichloroethane	6520	
71-43-2	-----Benzene	6430	
10061-02-6	-----trans-1,3-Dichloropropene	5980	
75-25-2	-----Bromoform	5910	
108-10-1	-----4-Methyl-2-Pentanone	6520	
591-78-4	-----2-Hexanone	6570	
127-18-4	-----Tetrachloroethene	6410	
79-34-5	-----1,1,2,2-Tetrachloroethane	6480	
108-88-3	-----Toluene	6290	
108-90-7	-----Chlorobenzene	6450	
100-41-4	-----Ethylbenzene	6520	
100-42-5	-----Styrene	<del>6500</del> 6570	
1330-20-7	----- <u>cis</u> -Xylene (total)	<del>6500</del> 6570	
106-46-7	1,4-Dichlorobenzene	6450	
	1,2-trans-Dichloroethene	6170	
	m,p-Xylene FORM I VOA	13,200	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: Jm3564 VS  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: ^C6777  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	Chloromethane	625	u
74-83-9	Bromomethane	625	u
75-01-4	Vinyl Chloride	625	u
75-00-3	Chloroethane	625	u
75-09-2	Methylene Chloride	5680	
67-64-1	Acetone	6770	
75-15-0	Carbon Disulfide	5710	
75-35-4	1,1-Dichloroethene	5450	
75-34-3	1,1-Dichloroethane	5610	
540-59-0	1,2-Dichloroethene (total)	5670 5580	5440
67-66-3	Chloroform	5670	
107-06-2	1,2-Dichloroethane	5670	
78-93-3	2-Butanone	5480	
71-55-6	1,1,1-Trichloroethane	5410	
56-23-5	Carbon Tetrachloride	5430	
75-27-4	Bromodichloromethane	5280	
78-87-5	1,2-Dichloropropane	5420	
10061-01-5	cis-1,3-Dichloropropene	5070	
79-01-6	Trichloroethene	5460	
124-48-1	Dibromochloromethane	5340	
79-00-5	1,1,2-Trichloroethane	5320	
71-43-2	Benzene	5500	
10061-02-6	trans-1,3-Dichloropropene	5750	
75-25-2	Bromoform	5210	
108-10-1	4-Methyl-2-Pentanone	5480	
591-78	2-Hexanone	5770	
127-18-4	Tetrachloroethene	5770	
79-34-5	1,1,2,2-Tetrachloroethane	5640	
108-88-3	Toluene	5380	
108-90-7	Chlorobenzene	5270	
100-41-4	Ethylbenzene	5330	
100-42-5	Styrene	5400	
1330-20-7	o-Xylene (total)	12,16700	5640
106-46-7	1,4 Dichlorobenzene	5200	
	1,2-trans-Dichloroethylene	5580	
	m,p-Xylenes	11,000	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NELSA CL577MSD  
 Lab Code: NP Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3564VR  
 Sample wt/vol: DUY 4.01 (9) mL g Lab File ID: CL6778  
 Level: (low/med) NA Date Received: 02/18/94  
 ‡ Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB204 ID: 053 (mm) Dilution Factor: 50  
 Soil Extract Volume: 4,000 (uL) Soil Aliquot Volume: NA (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/kg 0

74-87-3	-----Chloromethane	625	U
74-83-9	-----Bromomethane	625	U
75-01-4	-----Vinyl Chloride	625	U
75-00-3	-----Chloroethane	625	U
75-09-2	-----Methylene Chloride	5760	
67-64-1	-----Acetone	6230	
75-15-0	-----Carbon Disulfide	5280	
75-35-4	-----1,1-Dichloroethene	5850	
75-34-3	-----1,1-Dichloroethane	5740	
540-59-0	-----1,2-Dichloroethene (total)	DL 5210 5860	
67-66-3	-----Chloroform	5980	
107-06-2	-----1,2-Dichloroethane	5700	
78-93-3	-----2-Butanone	5480	
71-55-6	-----1,1,1-Trichloroethane	5730	
56-23-5	-----Carbon Tetrachloride	5870	
75-27-4	-----Bromodichloromethane	5620	
78-87-5	-----1,2-Dichloropropane	5780	
10061-01-5	-----cis-1,3-Dichloropropene	5250	
79-01-6	-----Trichloroethene	5880	
124-48-1	-----Dibromochloromethane	5500	
79-00-5	-----1,1,2-Trichloroethane	5800	
71-43-2	-----Benzene	5890	
10061-02-6	-----trans-1,3-Dichloropropene	5780	
75-25-2	-----Bromoform	5430	
108-10-1	-----4-Methyl-2-Pentanone	5810	
591-78-4	-----2-Hexanone	DL 555 5500	
127-18-4	-----Tetrachloroethene	5460	
79-34-5	-----1,1,2,2-Tetrachloroethane	5760	
108-88-3	-----Toluene	5560	
108-90-7	-----Chlorobenzene	5440	
100-41-4	-----Ethylbenzene	5650	
100-42-5	-----Styrene	5510	
1330-20-7	-----o-xylene (total)	DL 7300 5910	
106-46-7	1,4-Dichlorobenzene		
	1,2-trans-Dichloroethene	5610	
	m-p-xylene	11,400	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: Jm3564  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: 1C6775  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 1000 (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	-----Chloromethane	<u>625</u>	<u>U</u>
74-83-9	-----Bromomethane	<u>625</u>	<u>U</u>
75-01-4	-----Vinyl Chloride	<u>625</u>	<u>U</u>
75-00-3	-----Chloroethane	<u>625</u>	<u>U</u>
75-09-2	-----Methylene Chloride	<u>625</u>	<u>U</u>
67-64-1	-----Acetone	<u>625</u>	<u>U</u>
75-15-0	-----Carbon Disulfide	<u>625</u>	<u>U</u>
75-35-4	-----1,1-Dichloroethene	<u>625</u>	<u>U</u>
75-34-3	-----1,1-Dichloroethane	<u>625</u>	<u>U</u>
540-59-0	-----1,2-Dichloroethene (total)	<u>625</u>	<u>U</u>
67-66-3	-----Chloroform	<u>625</u>	<u>U</u>
107-06-2	-----1,2-Dichloroethane	<u>625</u>	<u>U</u>
78-93-3	-----2-Butanone	<u>1250</u>	<u>U</u>
71-55-6	-----1,1,1-Trichloroethane	<u>625</u>	<u>U</u>
56-23-5	-----Carbon Tetrachloride	<u>625</u>	<u>U</u>
75-27-4	-----Bromodichloromethane	<u>625</u>	<u>U</u>
78-87-5	-----1,2-Dichloropropane	<u>625</u>	<u>U</u>
10061-01-5	-----cis-1,3-Dichloropropene	<u>625</u>	<u>U</u>
79-01-6	-----Trichloroethene	<u>625</u>	<u>U</u>
124-48-1	-----Dibromochloromethane	<u>625</u>	<u>U</u>
79-00-5	-----1,1,2-Trichloroethane	<u>625</u>	<u>U</u>
71-43-2	-----Benzene	<u>625</u>	<u>U</u>
10061-02-6	-----trans-1,3-Dichloropropene	<u>625</u>	<u>U</u>
75-25-2	-----Bromoform	<u>625</u>	<u>U</u>
108-10-1	-----4-Methyl-2-Pentanone	<u>625</u>	<u>U</u>
591-78-4	-----2-Hexanone	<u>625</u>	<u>U</u>
127-18-4	-----Tetrachloroethene	<u>625</u>	<u>U</u>
79-34-5	-----1,1,2,2-Tetrachloroethane	<u>625</u>	<u>U</u>
108-88-3	-----Toluene	<u>625</u>	<u>U</u>
108-90-7	-----Chlorobenzene	<u>625</u>	<u>U</u>
100-41-4	-----Ethylbenzene	<u>625</u>	<u>U</u>
100-42-5	-----Styrene	<u>625</u>	<u>U</u>
1330-20-7	-----o-xylene (total)	<u>625</u>	<u>U</u>
106-46-7	1,4-Dichlorobenzene	<u>625</u>	<u>U</u>

1,2-trans-Dichloroethene  
 m-p-xylene

FORM I VOA

625  
625

U  
U 3/90

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NEESA C6527

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

Matrix: (soil/water) Soil Lab Sample ID: JM3564

Sample wt/vol: 4.00 (g/mL) g Lab File ID: C6775

Level: (low/med) NA Date Received: 02-18-94

% Moisture: not dec. 20.2 Date Analyzed: 02-25-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: NA (uL)

Number TICs found: 10 CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124185	Decane	20.72	5.48	J
2. 1126214	Undecane	23.17	3.71	J
3. 111842	Nonane	17.62	3.20	J
4. NA	Unknown tetramethylcyclohexane isomer	19.96	2.27	J
5. NA	Unknown	22.79	1.73	J
6. NA	Unknown	18.79	1.67	J
7. NA	Unknown substituted cyclohexane	21.92	1.43	J
8. NA	Unknown Hydrocarbon	20.52	1.38	J
9. 95636	1,2,4-Trimethylbenzene	21.43	0.618	J
10. 526738	1,2,3-Trimethylbenzene	22.31	1.27	J
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12.				
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2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0182

Lab Name: ASC Contract: NEESA  
 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	VBK01	90.0	94.3	92.5		0
02	VSP01	93.0	91.6	93.2		0
03	C6527MS	37.2*	57.0	90.4		1
04	C6527MSD	46.7*	33.7	59.5		1
05	C6527	52.2*	36.8	81.6*		21
06						
07						
08						
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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 BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

Blank Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L) <sup>DU</sup>	BLANK CONCENTRATION (ug/L) <sup>DU</sup>	BS CONCENTRATION (ug/L) <sup>DU</sup>	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	620	0	610	98.4	61-145
Trichloroethene	630	0	647	104	71-120
Benzene	620	0	652	104	76-127
Chlorobenzene	620	0	629	101	75-130
1,2-Dichloroethane	NA	0			30-130
1,4-dichlorobenzene	NA	0			30-130
Carbon Tetrachloride	NA	0			30-130
Chloroform	NA	0			30-130
2-Butanone	NA	0			30-130
Tetrachloroethene	NA	0			30-130
Vinyl Chloride	NA	0			30-130
Toluene	620	0	640	102	

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

\* Values outside of QC limits

Spike Recovery: 0 out of 5 ~~11~~ outside limits

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

SOIL VOLATILE 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.: C6527 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	6240	0	5450	87.1	59-172
Trichloroethene	6250	0	5460	87.4	62-137
Benzene	6240	0	5500	88.1	66-142
Toluene	6240	0	5270	84.5	59-139
Chlorobenzene	6240	0			60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	6240	5300	92.7	6.23	22	59-172
Trichloroethene	6250	5380	94.1	7.38	24	62-137
Benzene	6240	5390	94.4	6.90	21	66-142
Toluene	6240	5560	88.8	3.32	21	59-139
Chlorobenzene	6240	5440	87.2	3.15	21	60-133

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

\* Values outside of QC limits

RPD: 0 out of 5 outside limits  
 Spike Recovery: 0 out of 10 outside limits

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



4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: ASC Contract: NEEA VRK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: C6774 Lab Sample ID: N2V3317V  
 Date Analyzed: 2-25-94 Time Analyzed: 9:59  
 GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N  
 Instrument ID: MSD-C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	<u>C6527MS</u>	<u>1M3514V5</u>	<u>C6777</u>	<u>15:12</u>
02	<u>C6527MSD</u>	<u>1M3514V6</u>	<u>C6778</u>	<u>15:43</u>
03	<u>C6527</u>	<u>1M3514V</u>	<u>C6775</u>	<u>10:35</u>
04				
05				
06				
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COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
Lab File ID: C6772 BFB Injection Date: 2-25-94  
Instrument ID: MSD.C BFB Injection Time: 8:52  
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	23.22
75	30.0 - 66.0% of mass 95	41.66
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.06
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	71.72
175	4.0 - 9.0 % of mass 174	5.59 (7.80) 1
176	93.0 - 101.0% of mass 174	69.17 (96.45) 1
177	5.0 - 9.0% of mass 176	4.04 (5.85) 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	VBK01	N2V3317V	C6774	2-25-94	9:59
02	VSPK01	N2V3317VS	C6776	2-25-94	14:20
03	C6527MS	JM3564VS	C6777	2-25-94	15:12
04	C6527MSD	JM3564VR	C6778	2-25-94	15:48
05	C6527	JM3564V	C6775	2-25-94	10:35
06	VSTD50	CHK STD	C6773	2-25-94	9:12
07					
08					
09					
10					
11					
12					
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20					
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22					

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

0187

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-C Calibration Date(s): 2-11-94 2-11-94  
 Heated Purge: (Y/N) N Calibration Times: 08:35 11:00  
 GC Column: DA-624 ID: .53 (mm)

LAB FILE ID:	RRF10 =	C6535	RRF20 =	C6536	RRF50 =	C6537	RRF100 =	C6538	RRF200 =	C6539		
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	RSD					
M+p xylenes	.55075	.59772	.60092	.58121	.57393	.58211	3.75					
Chloromethane	1.44125	1.05454	1.00925	1.01801	1.06739	1.01815	4.85					
Bromomethane	*1.26228	1.26838	1.20351	1.13374	1.16205	1.20669	4.95					*
Vinyl Chloride	*1.44186	1.20058	1.24413	1.22529	1.24378	1.21107	3.51					*
Chloroethane	1.68149	.70797	1.07886	.54144	.53919	1.61459	12.52					
Methylene Chloride	1.34848	1.40602	1.31238	1.27446	1.27488	1.32361	4.17					
Acetone	.40844	3.84229	3.4734	2.8540	2.9144	3.4378	15.93					
Carbon Disulfide	3.51747	3.41899	3.61241	3.53692	3.58367	3.61389	3.34					
1,1-Dichloroethene	*1.10158	1.24401	1.25688	1.21331	1.21967	1.21109	5.38					*
1,1-Dichloroethane <i>cis</i>	*2.47363	2.77124	2.66813	2.64911	2.64560	2.64203	4.02					*
1,2-Dichloroethene (total)	1.25785	1.46758	1.38860	1.39731	1.41090	1.38448	5.57					
Chloroform	*2.92031	2.48539	2.90614	2.35109	2.87316	2.84222	3.78					*
1,2-Dichloroethane	*1.81489	2.12121	2.03701	2.09188	2.09125	2.07025	6.17					*
2-Butanone	-	.01743	.02139	.02090	.02032	.02001	3.88					
1,1,1-Trichloroethane	*.59373	.64491	.59746	.56052	.56022	.59137	5.88					*
Carbon Tetrachloride	*.56979	.63898	.59991	.56752	.57822	.59089	5.04					*
Bromodichloromethane	*.73157	.81590	.83588	.82632	.81011	.80395	5.18					*
1,2-Dichloropropane	1.40285	.44194	.44374	.43752	.42713	.43064	3.91					
cis-1,3-Dichloropropene	*.45796	.54939	.54662	.56359	.55360	.53423	8.07					*
Trichloroethene	*.46514	.49249	.47712	.47073	.46166	.47353	3.55					*
Dibromochloromethane	*.56651	.64541	.67156	.67259	.65121	.64146	6.80					*
1,1,2-Trichloroethane	*.30039	.33379	.33102	.32825	.30077	.31894	5.22					*
Benzene	*.93652	.98072	.98012	.94007	.92292	.95207	2.80					*
trans-1,3-Dichloropropene	*.29136	.34938	.35845	.36923	.35161	.34401	8.85					*
Bromoform	*.43988	.50912	.53777	.53830	.51635	.50829	7.94					*
4-Methyl-2-Pentanone	.11158	.12510	.13933	.13289	.12984	.12775	8.15					
2-Hexanone	.39678	.39382	.38750	.37344	.37667	.37150	7.57					
Tetrachloroethene	*.53739	.57270	.58225	.57496	.56336	.56213	3.03					*
1,1,2,2-Tetrachloroethane	*.58591	.61338	.64745	.62649	.63472	.62139	3.78					*
Toluene	*.64714	.71838	.73446	.75031	.74849	.71975	5.92					*
Chlorobenzene	*1.05183	1.10544	1.10974	1.09824	1.08239	1.08953	2.16					*
Ethylbenzene	*.39910	.44811	.45007	.44237	.43726	.43539	4.40					*
Styrene	*.75321	.87509	.90640	.91918	.91248	.87327	7.93					*
Xylene (total)	*.54818	.60595	.64422	.61333	.60800	.60460	5.78					*
Toluene-d8	.98624	1.01860	1.12667	1.10400	1.09504	1.06623	5.67					
Bromofluorobenzene	*1.02183	1.00174	1.09470	1.02489	1.02844	1.03532	3.39					*
1,2-Dichloroethane-d4	1.23585	1.8000	1.85225	1.85119	1.82758	1.79456	5.10					
1,2-trans-dichloroethylene	1.23228	1.39197	1.31246	1.30453	1.31126	1.31050	4.32					

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

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-C Calibration Date: 2-25-94 Time: 9:12  
 Lab File ID: CG773 Init. Calib. Date(s): 2-11-94 2-11-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 08:35 11:00  
 GC Column: DB624 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.01815	.92267		9.38	
Bromomethane	1.20209	1.04118	0.100	13.67	25.0
Vinyl Chloride	1.21107	1.11463	0.100	3.83	25.0
Chloroethane	.61459	.56792		7.59	
Methylene Chloride	1.32361	1.26110		4.72	
Acetone	.34378	.22644		34.08	
Carbon Disulfide	3.61389	3.32089		8.11	
1,1-Dichloroethene	1.21109	1.15960	0.100	4.25	25.0
1,1-Dichloroethane <u>cis</u>	2.64205	2.65159	0.200	.36	25.0
1,2-Dichloroethene <u>(total)</u>	1.38445	1.38777		.24	
Chloroform	2.36122	2.31768	0.200	1.52	25.0
1,2-Dichloroethane	2.63025	2.69003	0.100	2.94	25.0
2-Butanone	.02001	.01222		38.94	
1,1,1-Trichloroethane	.59137	.58715	0.100	.71	25.0
Carbon Tetrachloride	.59089	.55704	0.100	5.73	25.0
Bromodichloromethane	.80395	.74736	0.200	7.04	25.0
1,2-Dichloropropane	.43064	.42237		1.92	
cis-1,3-Dichloropropene	.53423	.55983	0.200	4.79	25.0
Trichloroethene	.47353	.44361	0.300	6.32	25.0
Dibromochloromethane	.64176	.61374	0.100	4.32	25.0
1,1,2-Trichloroethane	.31894	.30982	0.100	3.17	25.0
Benzene	.95207	.87428	0.500	8.17	25.0
trans-1,3-Dichloropropene	.34401	.36406	0.100	5.83	25.0
Bromoform	.50829	.49134	0.100	3.33	25.0
4-Methyl-2-Pentanone	.12775	.12541		1.83	
2-Hexanone	.37150	.35422		4.65	
Tetrachloroethene	.56613	.55976	0.200	1.13	25.0
1,1,2,2-Tetrachloroethane	.81895	.77284	0.500	5.63	25.0
Toluene	.71975	.72886	0.400	1.26	25.0
Chlorobenzene	1.03953	1.03270	0.500	5.77	25.0
Ethylbenzene	.43539	.44235	0.100	1.60	25.0
Styrene	.87327	.89057	0.300	1.95	25.0
Xylene <u>(total)</u>	1.60460	.56572	0.300	6.43	25.0
Toluene-d8	1.06223	1.08074		1.36	
Bromofluorobenzene	1.03532	1.07058	0.200	3.41	25.0
1,2-Dichloroethane-d4	1.79438	1.88453		5.01	
1,2-trans-Dichloroethane	1.31050	1.28137		2.22	

All other compounds must meet a minimum RRF of 0.010.  
 m-p-Xylenes .58211 .55830 4.09

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0189

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): C6773 Date Analyzed: 2-25-94  
 Instrument ID: MSD-C Time Analyzed: 09:12  
 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	22049	8.37	89763	10.46	67876	16.88	
UPPER LIMIT	44098	8.87	179526	10.96	135752	17.38	
LOWER LIMIT	11025	7.87	44832	9.96	33938	16.38	
EPA SAMPLE NO.							
01	VBLK01	20738	8.38	81429	10.46	63939	16.86
02	VSPK01	24485	8.43	91538	10.52	69350	16.90
03	C6527MS	21240	8.40	88194	10.49	67411	16.91
04	C6527MSD	20906	8.42	82254	10.49	64220	16.91
05	C6527	21247	8.39	80253	10.48	62736	16.86
06							
07							
08							
09							
10							
11							
12							
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20							
21							
22							

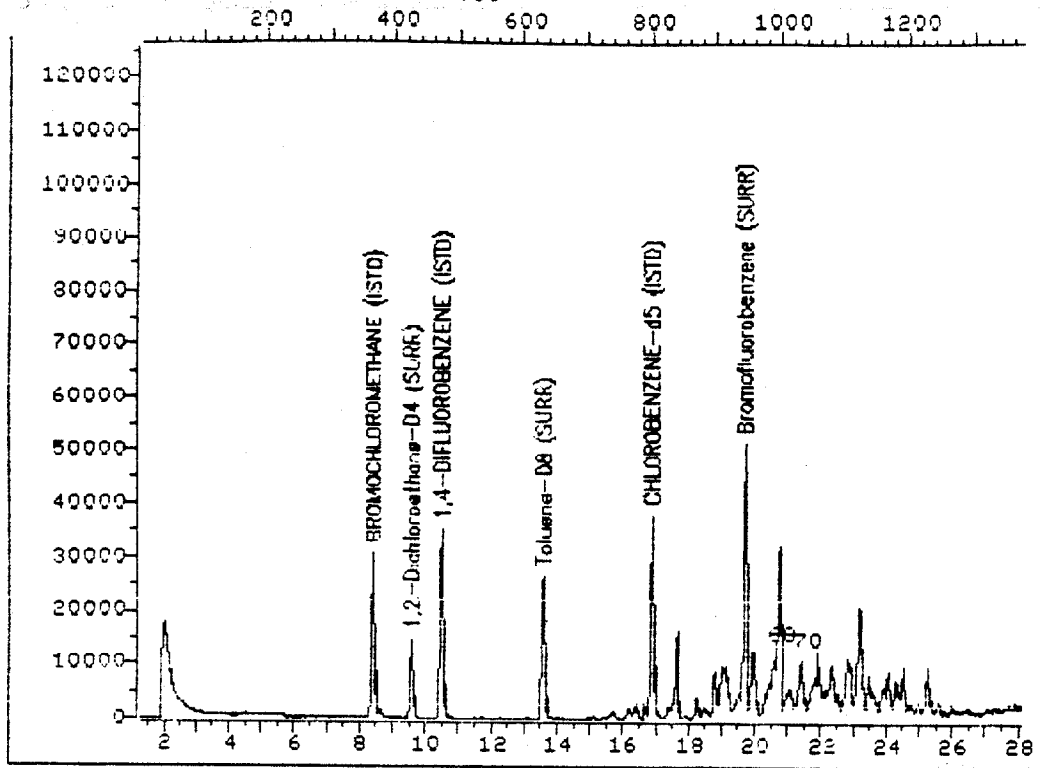
IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

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 C6775 35.0-260.0 amu. 015226N C6527 JM3564U,N2U3317,S:MS  
TIC



Data File: >C6775::D5

Quant Output File: ^C6775::QT

Name: 015226N C6527

Misc: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

Id File: IC210#::D4

Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS

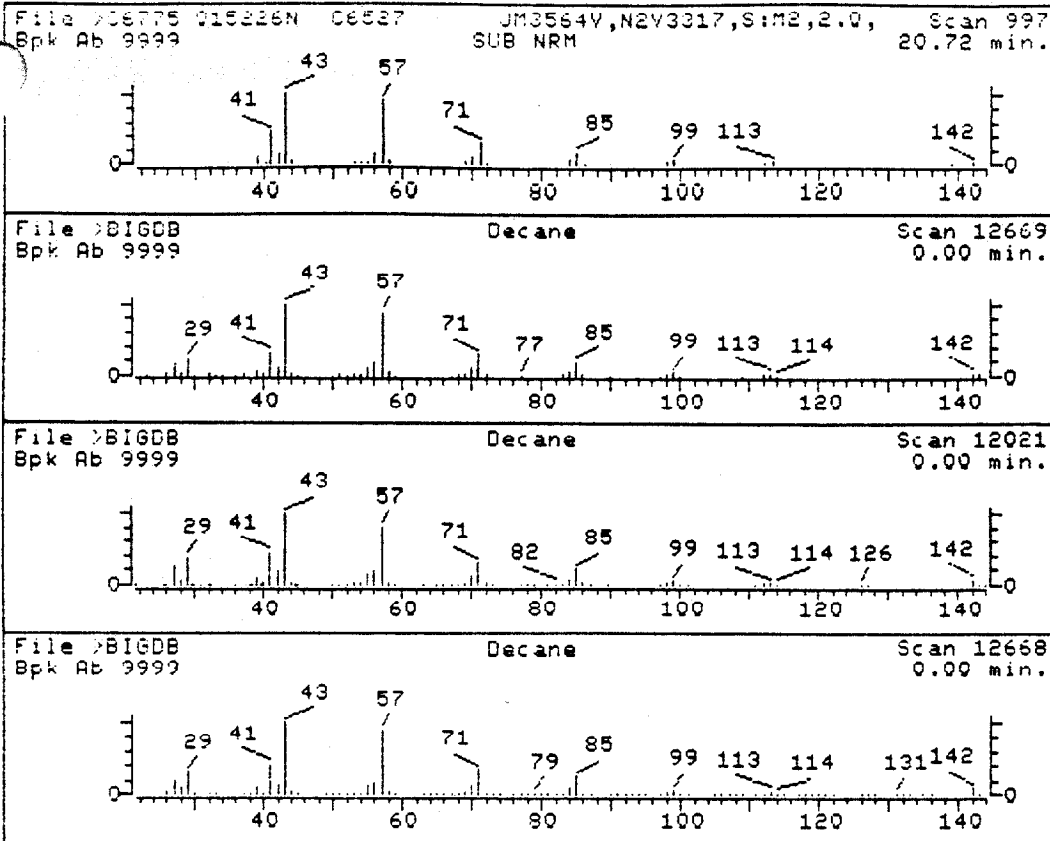
Last Calibration: 940211 07:40

Operator ID: JEFF

Quant Time: 940225 11:19

Injected at: 940225 10:35





Data File: >C6775::05  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 20.72  
 Scan: 997  
 Area: 195721 Rank: 3  
 Semi-quantitative Conc (uncorrected): 43.82 ug/l  
 Semi-quantitative Conc (corrected): 1095.52 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

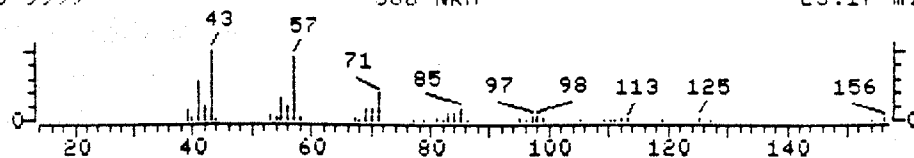
- |           |            |
|-----------|------------|
| 1. Decane | 142 C10H22 |
| 2. Decane | 142 C10H22 |
| 3. Decane | 142 C10H22 |

Sample file: >C6775 Spectrum #: 997  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 57

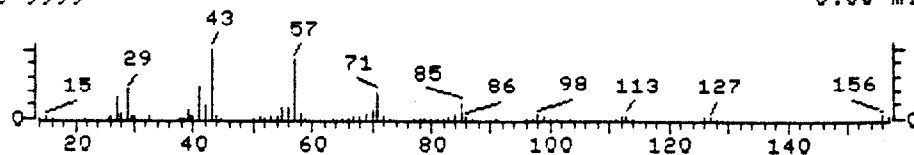
Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	124185	12669	"BIGDB	85	8	0	0	88	1	72 96
	93*	124185	12021	"BIGDB	84	13	1	2	87	1	68 86
	86	124185	12668	"BIGDB	78	22	1	0	70	3	60 38



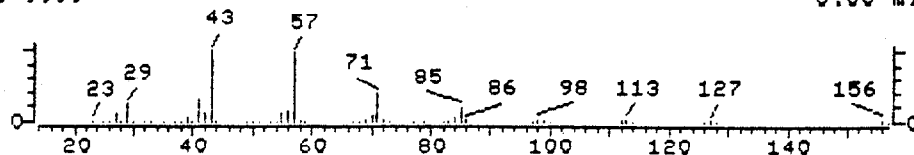
File >C6775 015226N C6527 JM3564V,N2V3317,S:M2,2.0, Scan 1122  
Bpk Ab 9999 SUB NRM 23.17 min.



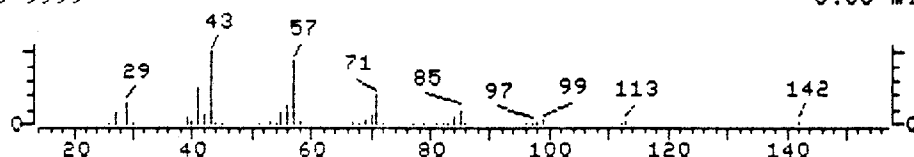
File >BIGDB Undecane Scan 12089  
Bpk Ab 9999 0.00 min.



File >BIGDB Undecane Scan 7705  
Bpk Ab 9999 0.00 min.



File >BIGDB Decane Scan 12670  
Bpk Ab 9999 0.00 min.



Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 23.17

Scan: 1122

Area: 139565 Rank: 5

Semi-quantitative Conc (uncorrected): 31.25 ug/l

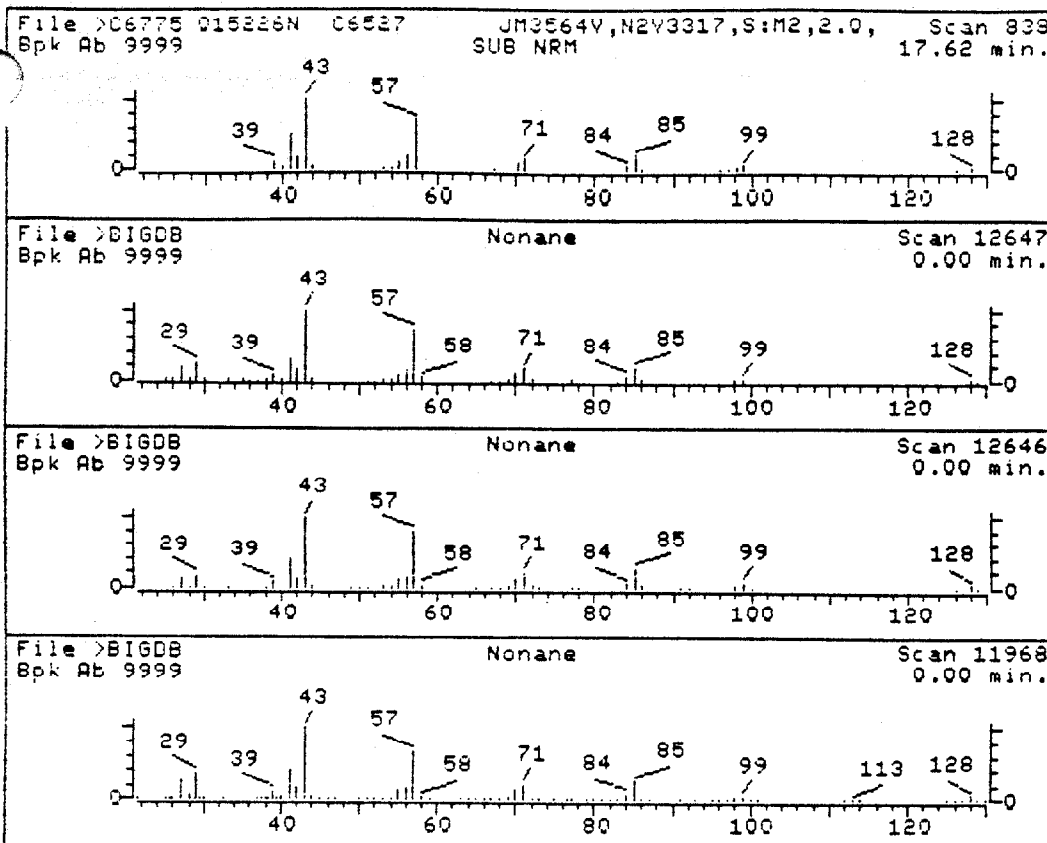
Semi-quantitative Conc (corrected): 781.19 ug/kg

Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

1. Undecane	156 C11H24
2. Undecane	156 C11H24
3. Decane	142 C10H22

Sample file: >C6775 Spectrum #: 1122  
Search speed: 2 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	1120214	12089	"BIGDB	75	22	0	0	85	9	68	93
	93*	1120214	7705	"BIGDB	70	26	0	0	93	4	68	89
	83	124185	12670	"BIGDB	61	38	1	0	77	5	57	22

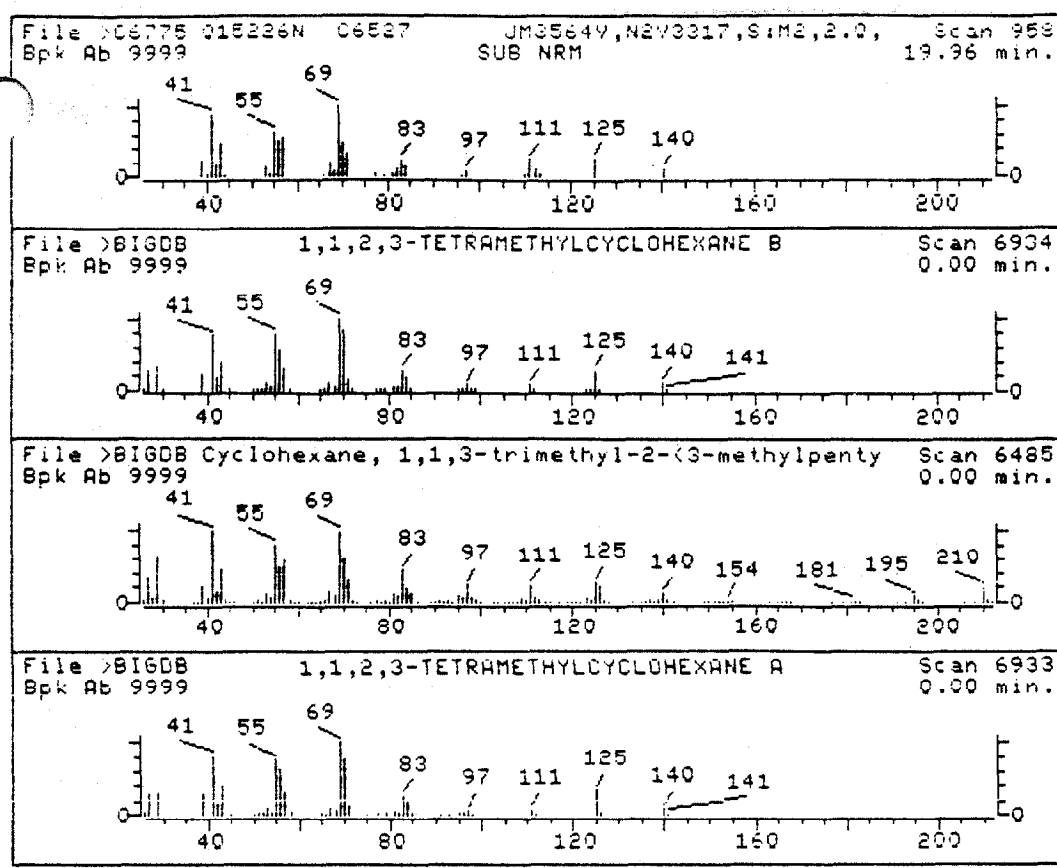


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 17.62  
 Scan: 838  
 Area: 114147 Rank: 6  
 Semi-quantitative Conc (uncorrected): 25.56 ug/l  
 Semi-quantitative Conc (corrected): 638.92 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |           |           |
|-----------|-----------|
| 1. Nonane | 128 C9H20 |
| 2. Nonane | 128 C9H20 |
| 3. Nonane | 128 C9H20 |

Sample file: >C6775 Spectrum #: 838  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 50

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	111842	12647	"BIGDB	68	24	0	0	93	6	62 83
	89*	111842	12646	"BIGDB	68	27	1	0	69	3	66 66
	76	111842	11968	"BIGDB	71	25	2	0	77	10	45 26

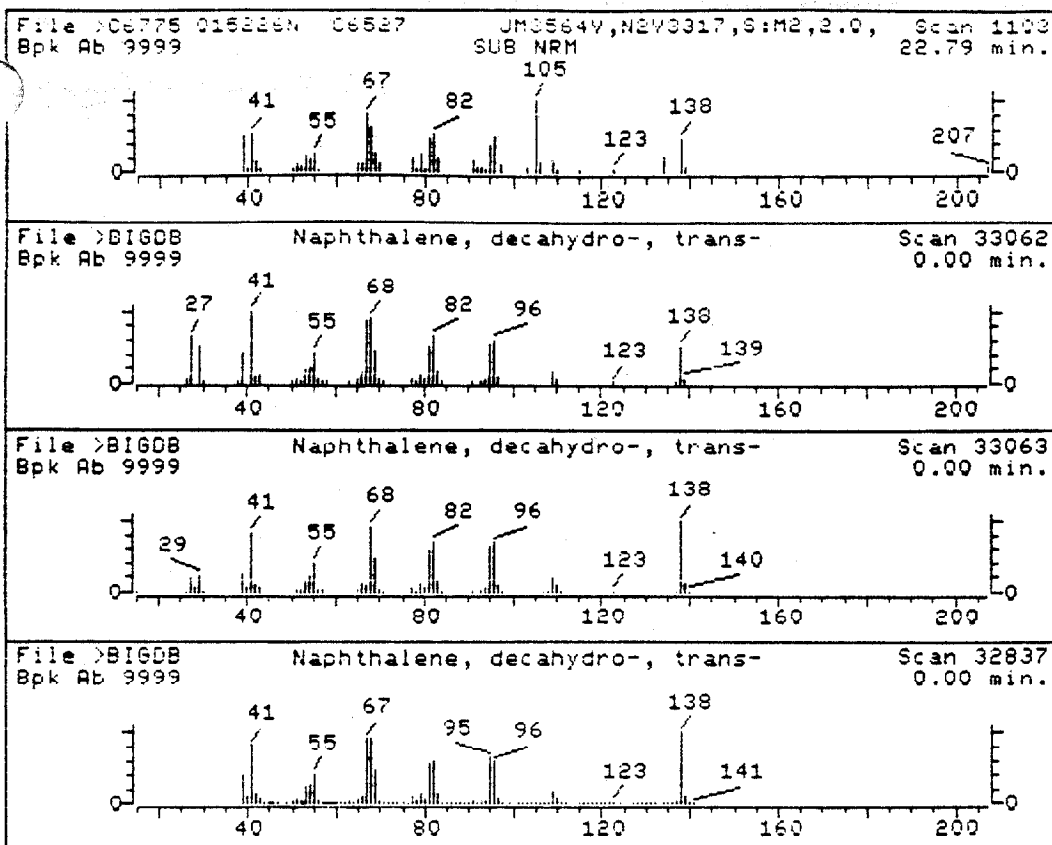


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 19.96  
 Scan: 958  
 Area: 81172 Rank: 8  
 Semi-quantitative Conc (uncorrected): 18.17 ug/l  
 Semi-quantitative Conc (corrected): 454.35 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- 1. 1,1,2,3-TETRAMETHYLCYCLOHEXANE B 140 C10H20
- 2. Cyclohexane, 1,1,3-trimethyl-2-(3-methylpentyl)- 210 C15H30
- 3. 1,1,2,3-TETRAMETHYLCYCLOHEXANE A 140 C10H20

Sample file: >C6775 Spectrum #: 958  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	72*	0	6934	"BIGDB	75	40	1	0	72	32	32	73
2.	70	54965058	6485	"BIGDB	74	70	3	0	77	10	42	13
	65*	0	6933	"BIGDB	60	53	1	0	59	32	24	56



Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564V,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 22.79

Scan: 1103

Area: 61753 Rank: 9

Semi-quantitative Conc (uncorrected): 13.83 ug/l

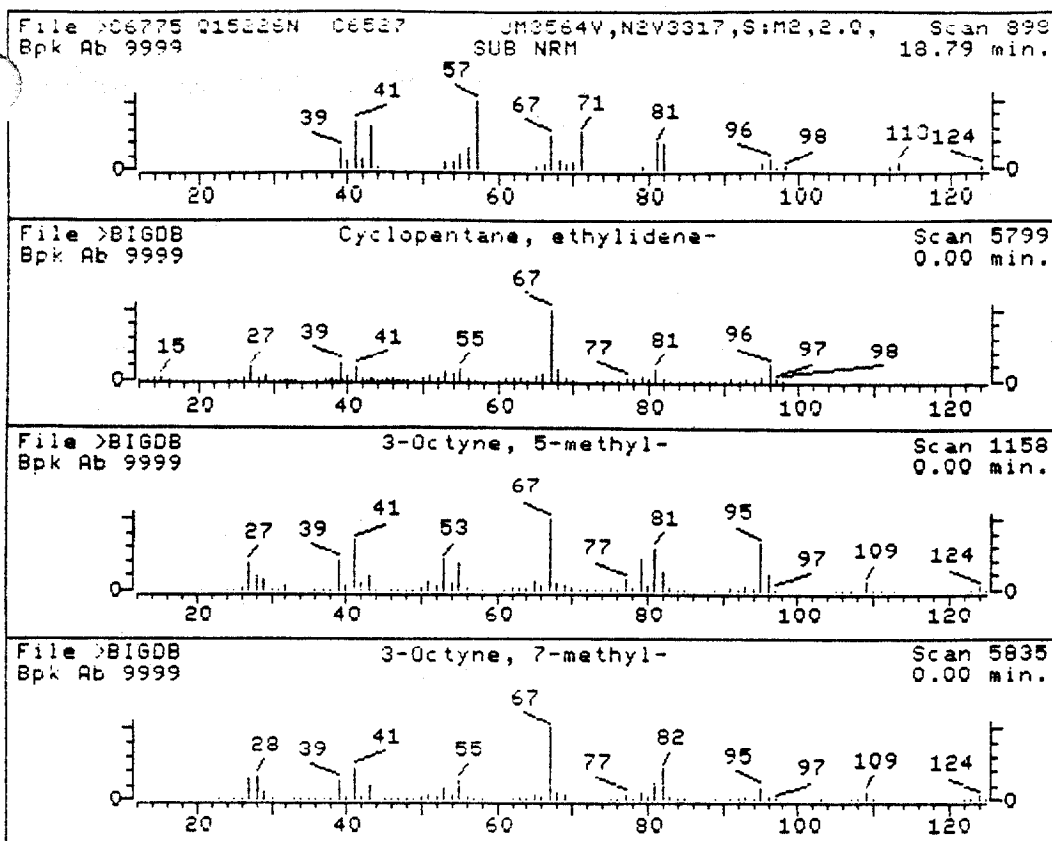
Semi-quantitative Conc (corrected): 345.65 ug/kg

Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

1. Naphthalene, decahydro-, trans-	138 C10H18
2. Naphthalene, decahydro-, trans-	138 C10H18
3. Naphthalene, decahydro-, trans-	138 C10H18

Sample file: >C6775 Spectrum #: 1103  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	493027	33062	"BIGDB	96	26	1	0	67	12	64	93
2.	92*	493027	33063	"BIGDB	107	10	0	2	50	25	53	93
	81*	493027	32837	"BIGDB	80	43	0	1	54	25	41	77

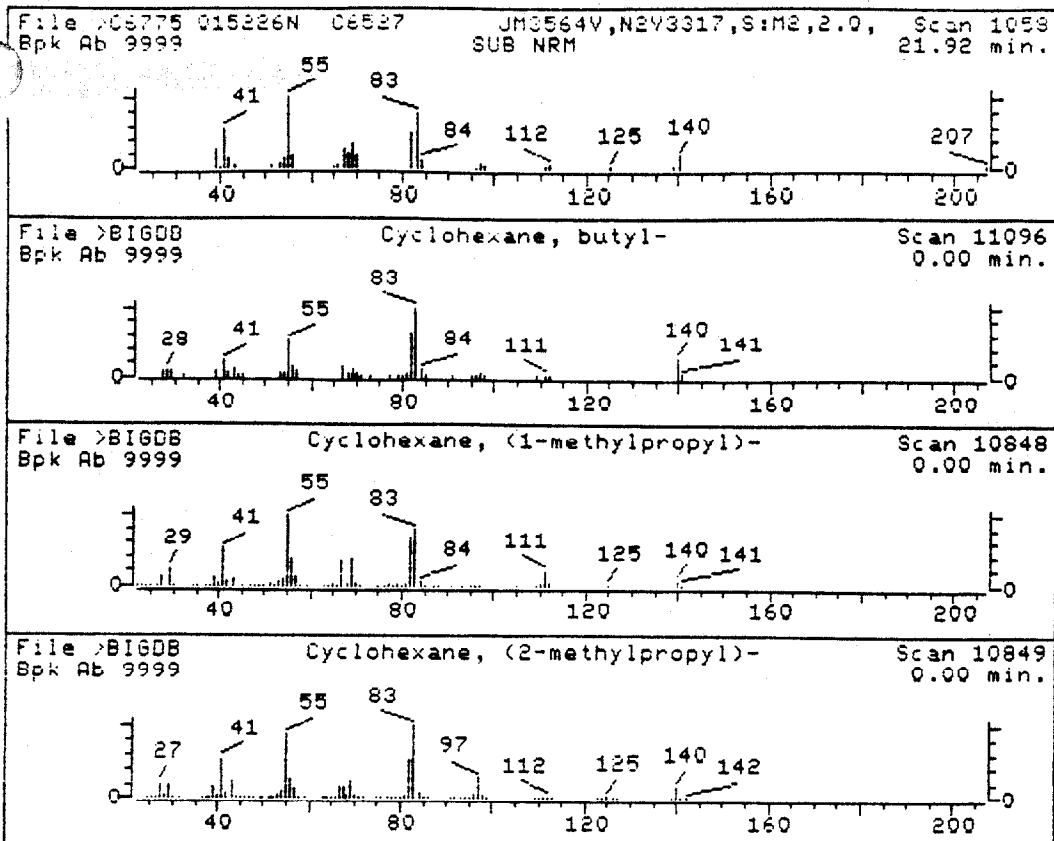


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 18.79  
 Scan: 898  
 Area: 59772 Rank: 10  
 Semi-quantitative Conc (uncorrected): 13.38 ug/l  
 Semi-quantitative Conc (corrected): 334.56 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |                              |           |
|------------------------------|-----------|
| 1. Cyclopentane, ethylidene- | 96 C7H12  |
| 2. 3-Octyne, 5-methyl-       | 124 C9H16 |
| 3. 3-Octyne, 7-methyl-       | 124 C9H16 |

Sample file: >C6775 Spectrum #: 898  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 54

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	21*	2146374	5799	"BIGDB	49	44	2	0	51	58	5 30



Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 21.92

Scan: 1058

Area: 50928 Rank: 11

Semi-quantitative Conc (uncorrected): 11.40 ug/l

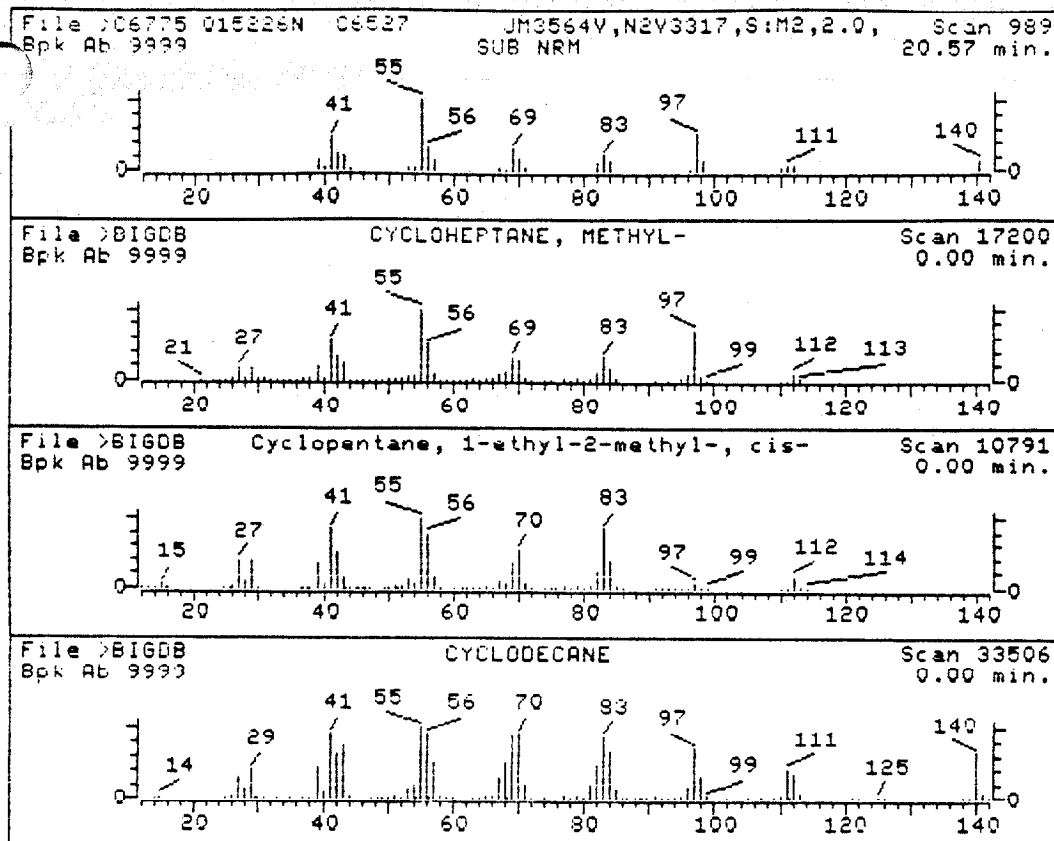
Semi-quantitative Conc (corrected): 285.06 ug/kg

Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

1. Cyclohexane, butyl-	140 C10H20
2. Cyclohexane, (1-methylpropyl)-	140 C10H20
3. Cyclohexane, (2-methylpropyl)-	140 C10H20

Sample file: >C6775 Spectrum #: 1058  
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	42*	1678939	11096	"BIGDB	44	54	2	0	66	27	14	19
	42*	7058017	10848	"BIGDB	38	62	3	0	73	23	17	13
	42*	1678984	10849	"BIGDB	35	70	3	0	76	23	17	13



Data File: &gt;C6775::D5

Name: 015226N C6527

Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 20.57

Scan: 989

Area: 49150 Rank: 12

Semi-quantitative Conc (uncorrected): 11.00 ug/l

Semi-quantitative Conc (corrected): 275.11 ug/kg

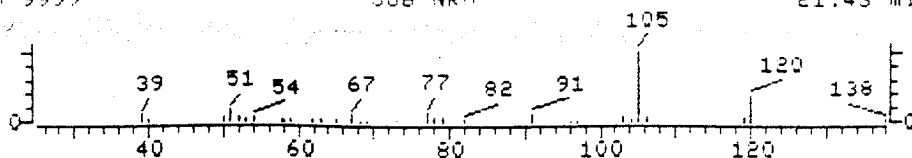
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |  |            |
|--|------------|
| 1. CYCLOHEPTANE, METHYL-                 | 112 C8H16  |
| 2. Cyclopentane, 1-ethyl-2-methyl-, cis- | 112 C8H16  |
| 3. CYCLODECANE                           | 140 C10H20 |

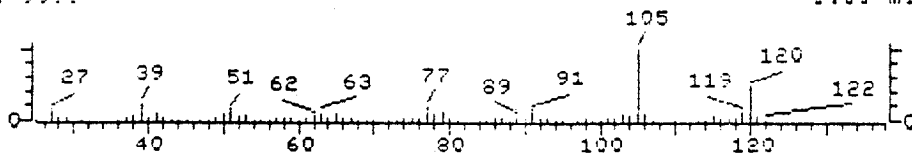
Sample file: >C6775 Spectrum #: 989  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	0	17200	"BIGDB	60	46	2	0	64	14	38 37

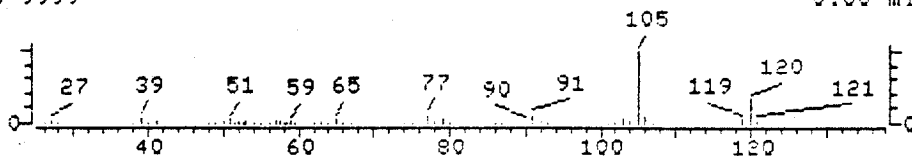
File >C6775 015226N C6527 JM3564U,N2U3317,S:M2,2.0, Scan 1033  
Bpk Ab 9999 SUB NRM 21.43 min.



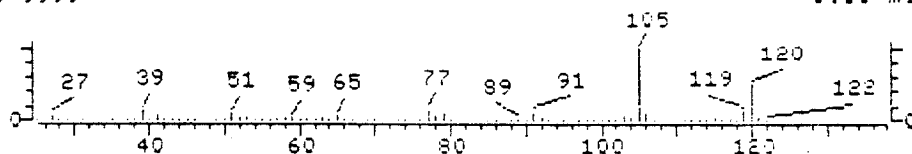
File >BIGDB Benzene, 1,2,3-trimethyl- Scan 26594  
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1-ethyl-3-methyl- Scan 26606  
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1,2,4-trimethyl- Scan 26599  
Bpk Ab 9999 0.00 min.



Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 21.43

Scan: 1033

Area: 45850 Rank: 13

Semi-quantitative Conc (uncorrected): 10.27 ug/l

Semi-quantitative Conc (corrected): 256.64 ug/kg

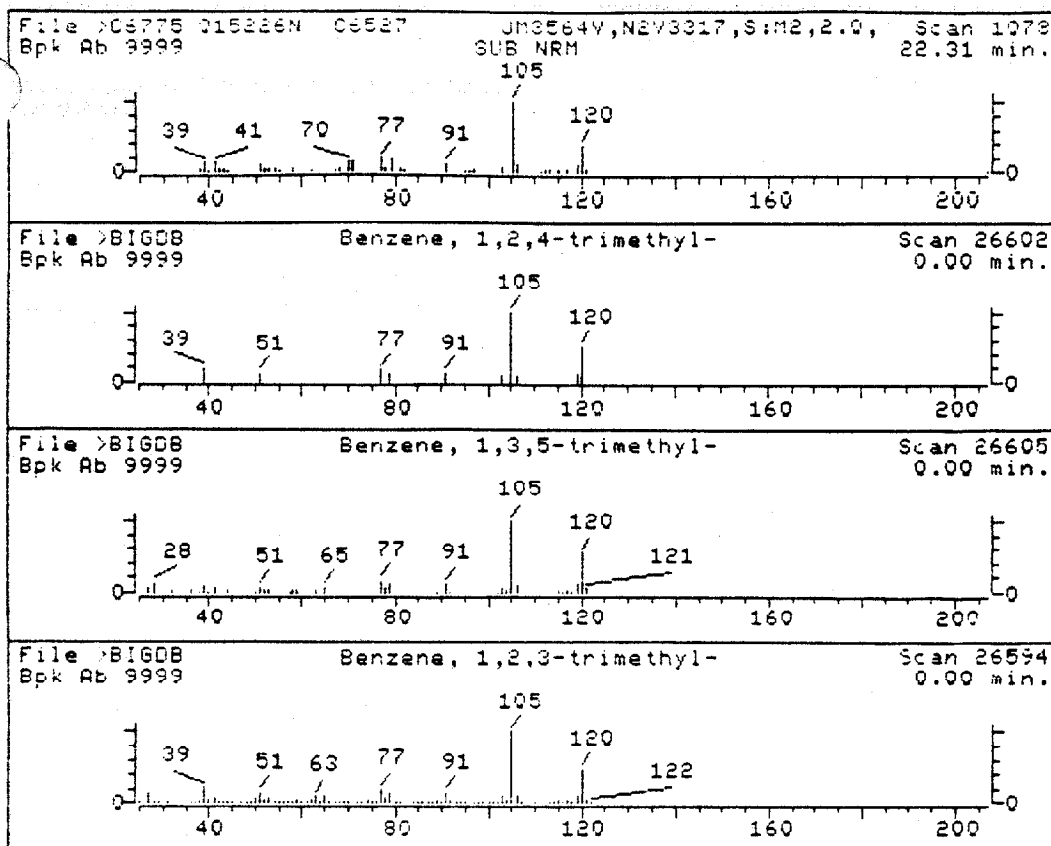
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

1. Benzene, 1,2,3-trimethyl-	120 C9H12
2. Benzene, 1-ethyl-3-methyl-	120 C9H12
3. Benzene, 1,2,4-trimethyl-	120 C9H12

Sample file: >C6775 Spectrum #: 1033  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1. 87*	526738	26594	"BIGDB	67	33	2	0	69	4	63	46
87*	620144	26606	"BIGDB	60	29	2	0	100	4	63	46
86*	95636	26599	"BIGDB	51	41	2	0	77	4	60	33





Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 22.31  
 Scan: 1078  
 Area: 45441 Rank: 14  
 Semi-quantitative Conc (uncorrected): 10.17 ug/l  
 Semi-quantitative Conc (corrected): 254.35 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |                              |           |
|------------------------------|-----------|
| 1. Benzene, 1,2,4-trimethyl- | 120 C9H12 |
| 2. Benzene, 1,3,5-trimethyl- | 120 C9H12 |
| 3. Benzene, 1,2,3-trimethyl- | 120 C9H12 |

Sample file: >C6775 Spectrum #: 1078  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	95636	26602	"BIGDB	66	3	0	0	74	14	64	97
2.	81*	108678	26605	"BIGDB	66	29	2	2	78	10	53	46
	81*	526738	26594	"BIGDB	67	33	2	0	75	10	53	46

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: N7H40/SOH

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9351

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>

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: N7M 40180 MS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9352

% Moisture:        decanted: (Y/N)        Date Received: <sup>02</sup> 03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>03</sup> 03/28/94

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>7230</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>2160</u>

0204

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528-MS

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

Matrix: (soil/water) water Lab Sample ID: JM 3557MS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 749353

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup> 03/28/94

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>3650</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>1190</u>

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528-MSD

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

Matrix: (soil/water) water Lab Sample ID: JM3557AK

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 749354

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>	<u>Q</u>
94-75-7-----	2,4,D	<u>4430</u>	_____
93-72-1-----	2,4,5-TP (SILVEX)	<u>1290</u>	_____

0206

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C 6528

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

Matrix: (soil/water) water Lab Sample ID: JM 3557H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1 H 9355

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>	<u>Q</u>
94-75-7-----	2,4,D	<u>250</u>	<u>U</u>
93-72-1-----	2,4,5-TP (SILVEX)	<u>250</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6529

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

Matrix: (soil/water)water Lab Sample ID: JM3558H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: H9356

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>	<u>Q</u>
94-75-7----	2,4,D	<u>250</u>	<u>U</u>
93-72-1----	2,4,5-TP (SILVEX)	<u>250</u>	<u>U</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-06  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) water Lab Sample ID: J173559H  
 Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9357  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: <sup>02</sup>03/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/28/94  
 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>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 CLJ-05-07

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

Matrix: (soil/water) water Lab Sample ID: JM3560H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: H9358

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-05-070

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

Matrix: (soil/water) water Lab Sample ID: JM356/H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9359

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

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>0</u>
93-72-1----	2,4,5-TP (SILVEX)	<u>250</u>	<u>0</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-08

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

Matrix: (soil/water)water Lab Sample ID: JM3562H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 2H9360

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/11/94

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		250
93-72-1----	2,4,5-TP (SILVEX)		250

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09

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

Matrix: (soil/water) water Lab Sample ID: JM3563H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9363

% Moisture:        decanted: (Y/N)        Date Received: <sup>02</sup>03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/11/94

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	H BLK	107	0
02	H SPK	109	0
03	C6528 MS	88.7	0
04	C6528 MSD	109	0
05	C6528	120	0
06	C6529	107	0
07	CLJ-DS-06	113	0
08	CLJ-DS-07	112	0
09	CLJ-DS-07D	113	0
10	CLJ-DS-08	73.4	0
11	CLJ-DS-09	130	0
12	HBLK CIF	81.2	0
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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
2,4,D	4190	0	3650	87.2	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	4480	107	20.3	30	30-130
2,4,5-TP (Silvex)	1160	1290	111	7.87	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 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	8370	0	7280	86.9	30-130
2,4,5-TP (Silvex)	2310	0	2160	93.3	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 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: 1H9351

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 03/28/94

Date Analyzed (1): 03/10/94 Date Analyzed (2): 3/10/94 NA

Time Analyzed (1): 20:44 Time Analyzed (2): 20:44 NA

Instrument ID (1): C4F Instrument ID (2): C4F NA

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	HSPK	N7H40180HS	03/10/94		
02	C6528 MS	JM3557HS	↓		
03	C6528 MSD	JM3557HR			
04	C6528	JM3557H			
05	C6529	JM3558H			
06	CLJ-DS-06	JM3559H			
07	CLJ-DS-07	JM3560H		03/11/94	
08	CLJ-DS-07D	JM3561H		↓	
09	CLJ-DS-08	JM3562H			
10	CLJ-DS-09	JM3563H			
11	HBLK01F	JM3560H			
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

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



HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

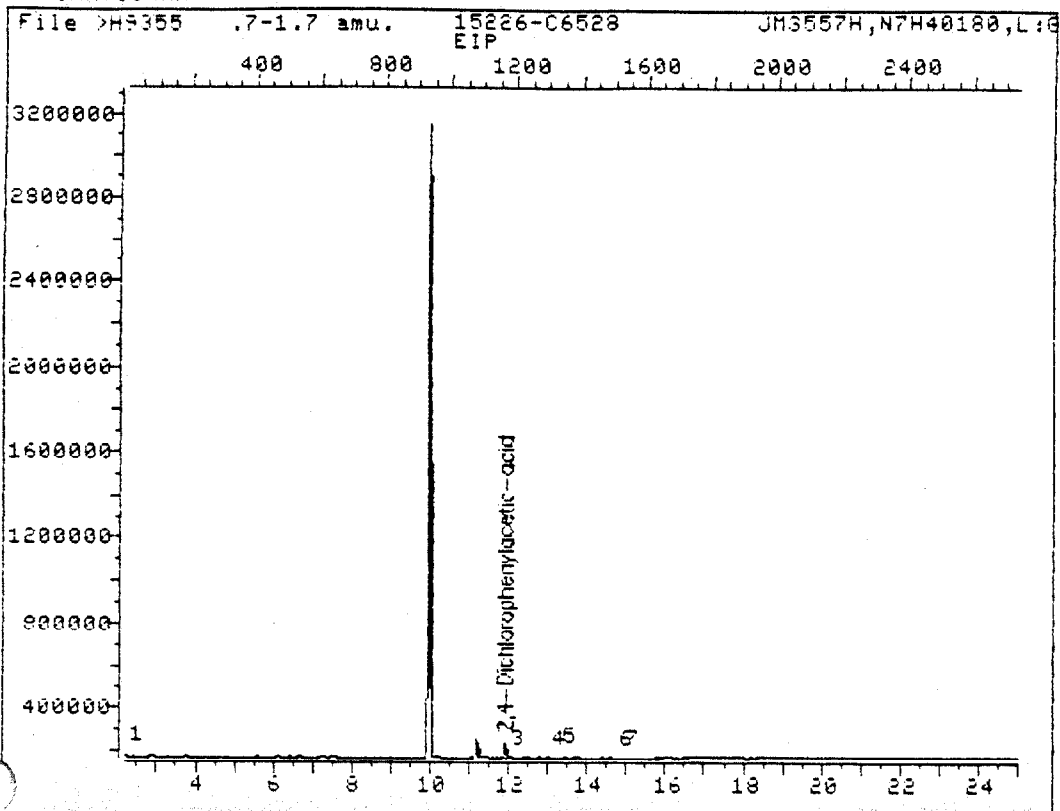
Instrument ID: C4F Calibration Date (s): 3/10/94

Calibration Time (s): 1358

LAB FILE ID: \_\_\_\_\_ CLOW = H 9333 CMEDL = H 9334  
 CMED = H 9335 CMEDH = H 9336 CHIGH = H 9337

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\bar{C}$	% RSD
2,4-D	961300	859700	773712	689432	628733	782575	16.9
2,4,5-TP (SILVEX)	3652470	3356085	3240528	3011921	2859959	323093	9.64
DPAA (surr)	—	683680	581504	511522	440707	554333	18.7

## CHROMATOGRAM



Data File: >H9355::D2  
Name: 15226-C6528  
Misc: JM3557H,N7H40180,L:61,2,5:1,

Quant Output File: >H9355::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 23:18  
Injected at: 940310 22:53

## QUANT REPORT

Page 1

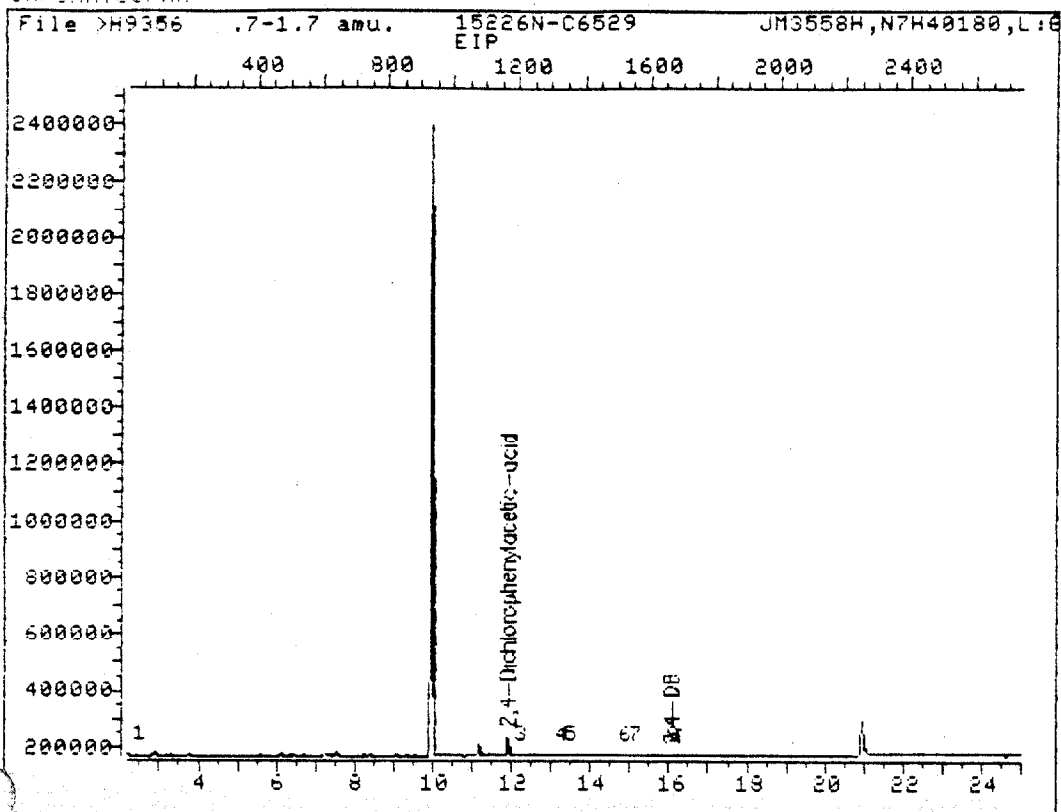
Operator ID: USER2                      Quant Rev: 7            Quant Time: 940310 23:18  
 Output File: >H9355::D2                      Injected at: 940310 22:53  
 Data File: >H9355::D2                      Dilution Factor: 1.00000  
 Name: 15226-C6528                      Instrument ID: H  
 Misc: JM3557H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD            IHH007  
 Last Calibration: 940310 14:28                      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	18783	.0232	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	256001	.462	ug/ml	100
3) #Dicamba	12.15	1196	2815	.00144	ug/ml	100
4) #Dichloroprop	13.18	1320	6079	.00927	ug/ml	100
5) #2,4-D	13.44	1351	11120	<del>.0142</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.90	1526	5844	<del>.00181</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.05	1544	1856	.000622	ug/ml	100

Compound uses ESTD

## CHROMATOGRAM



Data File: >H9356::D2  
Name: 15226N-C6529  
Misc: JM3558H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9356::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940310 23:50  
Injected at: 940310 23:25

## QUANT REPORT

Page 1

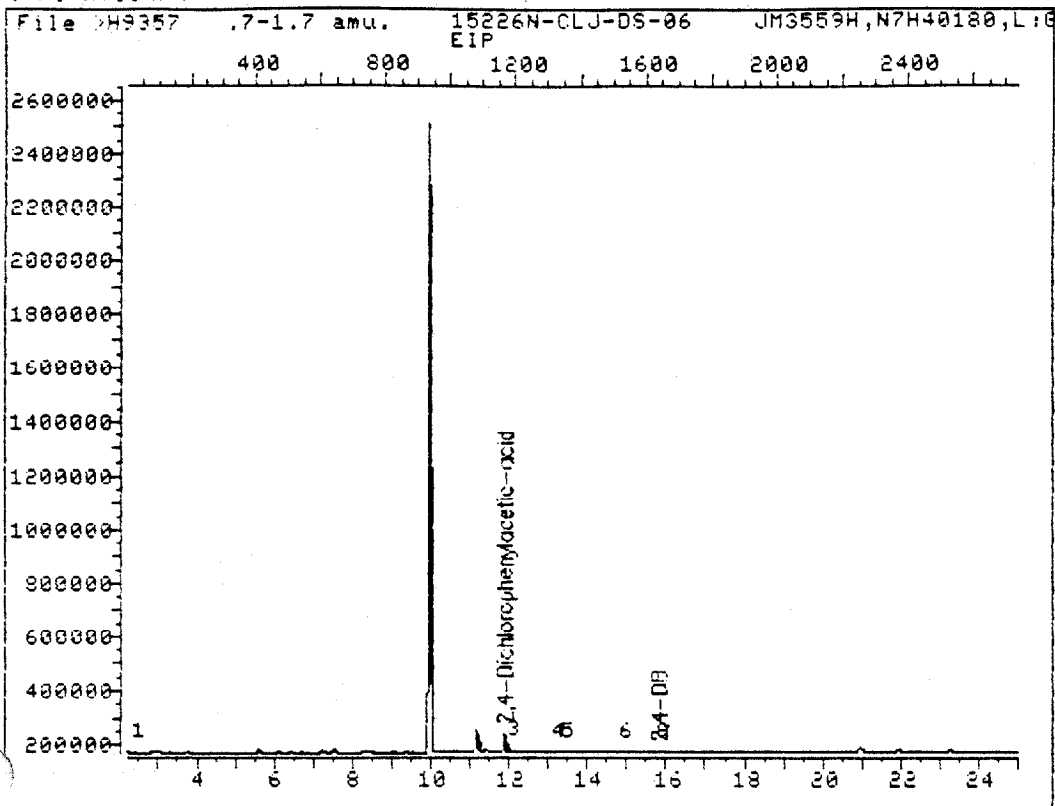
Operator ID: USER2                      Quant Rev: 7            Quant Time: 940310 23:50  
 Output File: ^H9356::D2                Injected at: 940310 23:25  
 Data File: >H9356::D2                 Dilution Factor: 1.00000  
 Name: 15226N-C6529                     Instrument ID: H  
 Misc: JM3558H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD            IHH007  
 Last Calibration: 940310 14:28                      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	14847	.0184	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	229472	.414	ug/ml	100
3) #Dicamba	12.15	1196	2495	.00127	ug/ml	100
4) #Dichloroprop	13.18	1320	11088	.0169	ug/ml	100
5) #2,4-D	13.43	1350	9024	<del>.0115</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.81	1515	1440	<del>.000446</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.07	1546	2347	.000786	ug/ml	100
8) #2,4-DB	16.03	1662	100809	.276	ug/ml	100
9) #Dinoseb	16.03	1662	100809	.0411	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >H9357::D2 Quant Output File: ^H9357::D2  
Name: 15226N-CLJ-DS-06 Instrument ID: H  
Misc: JM3559H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940311 00:23  
Injected at: 940310 23:57

QUANT REPORT

Operator ID: USER2  
Output File: ^H9357::D2  
Data File: >H9357::D2  
Name: 15226N-CLJ-DS-06  
Misc: JM3559H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 00:23  
                  Injected at: 940310 23:57  
Dilution Factor: 1.00000  
Instrument ID: H

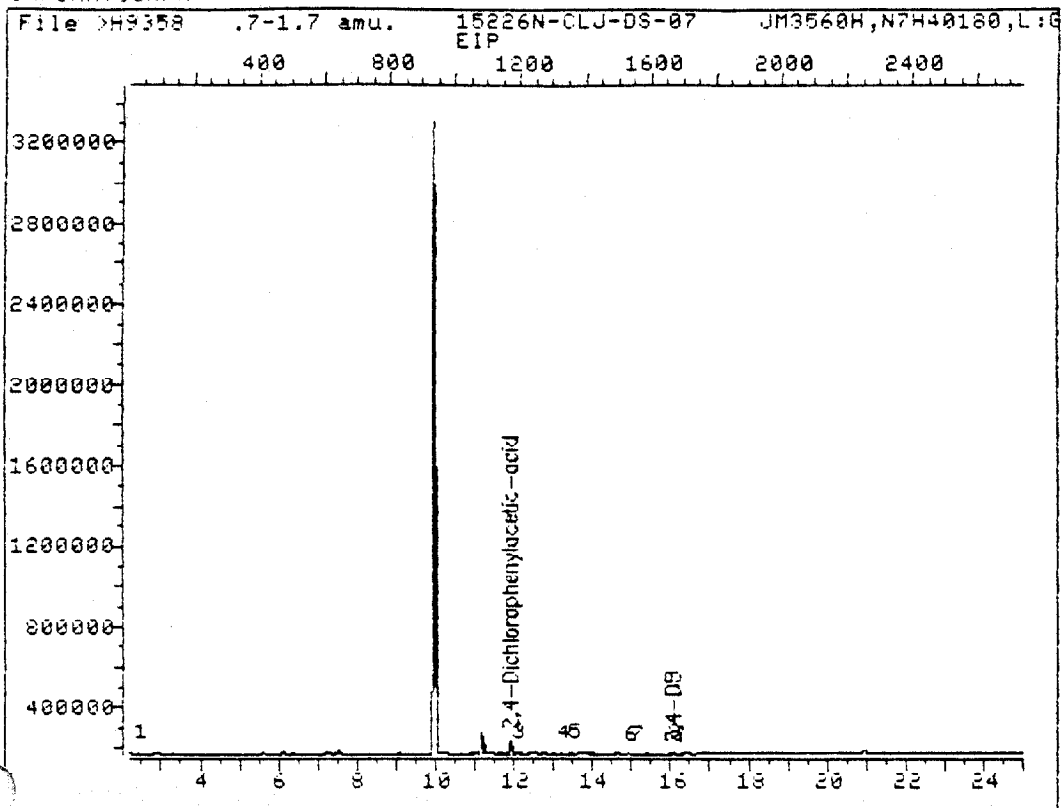
ID File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD  
Last Calibration: 940310 14:28

IHH007  
Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	14015	.0173	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	242401	.437	ug/ml	100
3) #Dicamba	12.02	1181	30157	.0154	ug/ml	100
4) #Dichloroprop	13.19	1321	4672	.00713	ug/ml	100
5) #2,4-D	13.43	1350	11840	<del>.0151</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.91	1527	3936	<del>.00122</del>	<del>ug/ml</del>	100
8) #2,4-DB	15.82	1636	6599	.0181	ug/ml	100
9) #Dinoseb	15.82	1636	4487	.00183	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;H9358::D2

Quant Output File: ^H9358::D2

Name: 15226N-CLJ-DS-07

Instrument ID: H

Misc: JM3560H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHH07

Last Calibration: 940310 14:28

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940311 00:55

Injected at: 940311 00:29



QUANT REPORT

Operator ID: USER2  
Output File: >H9358::D2  
Data File: >H9358::D2  
Name: 15226N-CLJ-DS-07  
Misc: JM3560H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 00:55  
                  Injected at: 940311 00:29  
Dilution Factor: 1.00000  
Instrument ID: H

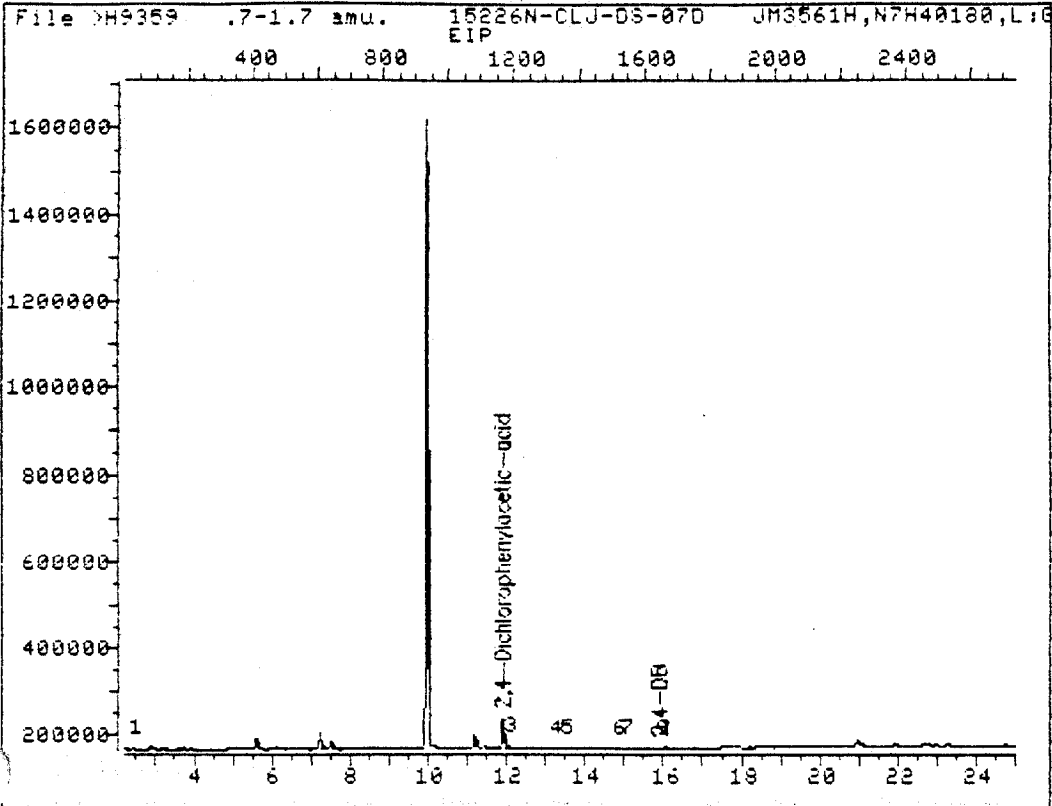
ID File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD  
Last Calibration: 940310 14:28

IHH007  
Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	18079	.0223	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	239616	.432	ug/ml	100
3) #Dicamba	12.02	1181	20892	.0107	ug/ml	100
4) #Dichloroprop	13.18	1320	5247	.00800	ug/ml	100
5) #2,4-D	13.44	1351	9119	<del>.0117</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.90	1526	3743	<del>.00116</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.04	1543	1385	.000464	ug/ml	100
8) #2,4-DB	16.03	1662	8448	.0232	ug/ml	100
9) #Dinoseb	16.03	1662	8448	.00344	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >H9359::D2  
Name: 15226N-CLJ-DS-07D  
Misc: JM3561H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9359::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940311 01:27  
Injected at: 940311 01:01

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: >H9359::D2  
 Data File: >H9359::D2  
 Name: 15226N-CLJ-DS-07D  
 Misc: JM3561H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 01:27  
 Injected at: 940311 01:01  
 Dilution Factor: 1.00000  
 Instrument ID: H

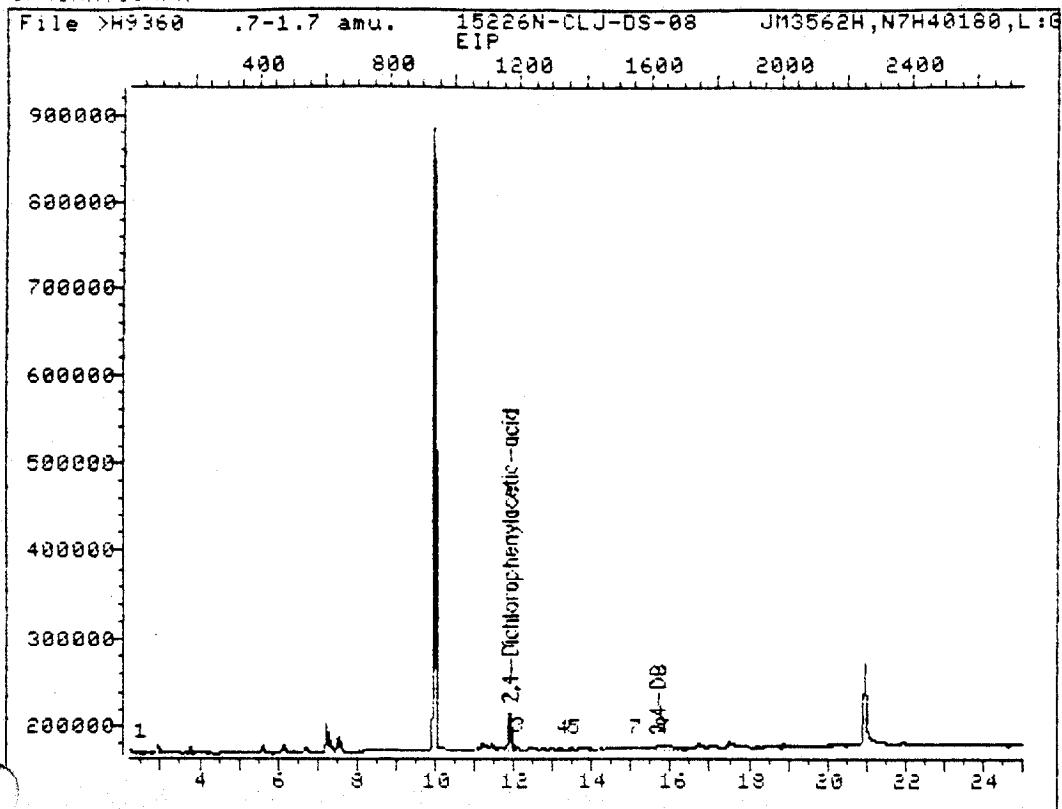
ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD  
 Last Calibration: 940310 14:28

IHH007  
 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	11525	.0142	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	252032	.455	ug/ml	100
3) #Dicamba	12.02	1181	16223	.00828	ug/ml	100
4) #Dichloroprop	13.16	1317	11583	.0177	ug/ml	100
5) #2,4-D	13.44	1351	3871	<del>.00495</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.78	1512	2688	<del>.000832</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.03	1542	1439	.000482	ug/ml	100
8) #2,4-DB	15.88	1644	2538	.00696	ug/ml	100
9) #Dinoseb	15.88	1644	2247	.000915	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >H9360::D2  
Name: 15226N-CLJ-DS-08  
Misc: JM3562H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9360::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940311 08:02  
Injected at: 940311 07:36

## QUANT REPORT

Page 1

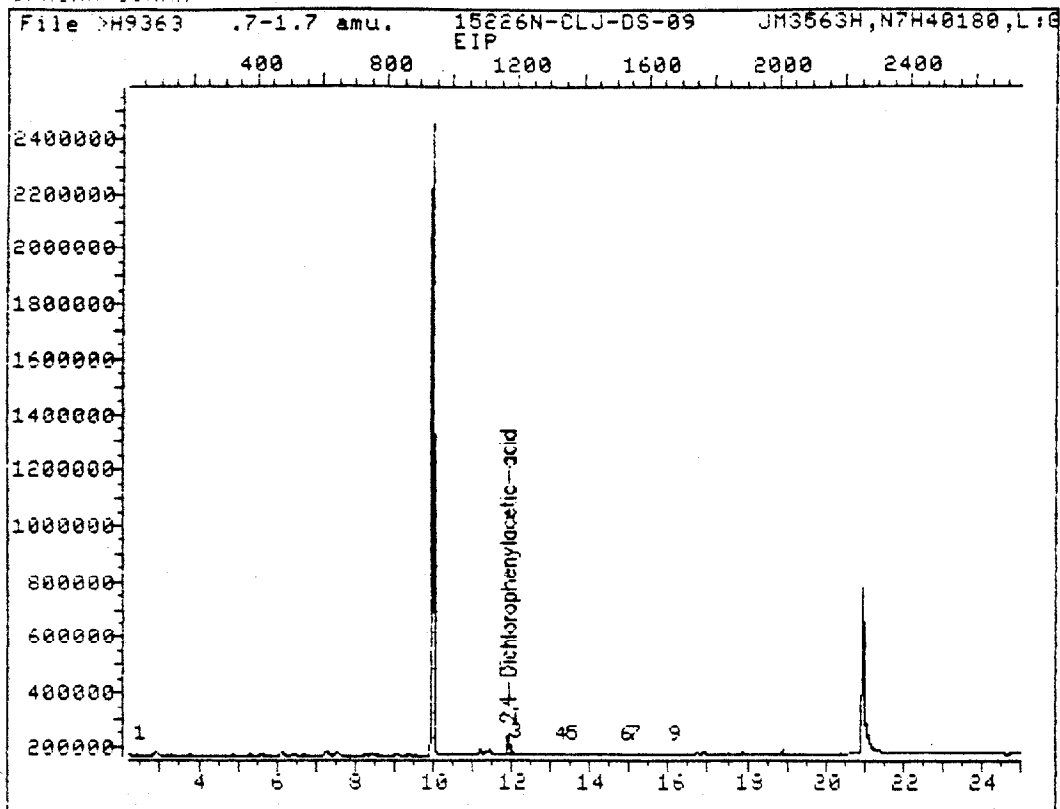
Operator ID: USER1                      Quant Rev: 7                      Quant Time: 940311 08:02  
 Output File: ^H9360::D2                      Injected at: 940311 07:36  
 Data File: >H9360::D2                      Dilution Factor: 1.00000  
 Name: 15226N-CLJ-DS-08                      Instrument ID: H  
 Misc: JM3562H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD                      IHH007  
 Last Calibration: 940310 14:28                      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.43	29	5983	.00740	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	154912	.279	ug/ml	100
3) #Dicamba	12.02	1180	11900	.00607	ug/ml	100
4) #Dichloroprop	13.19	1321	10271	.0157	ug/ml	100
5) #2,4-D	13.44	1351	3793	<del>.00485</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.01	1539	1184	.000396	ug/ml	100
8) #2,4-DB	15.67	1619	118710	.325	ug/ml	100
9) #Dinoseb	15.67	1619	118710	.0484	ug/ml	100

Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;H9363::D2

Quant Output File: ^H9363::D2

Name: 15226N-CLJ-DS-09

Instrument ID: H

Misc: JM3563H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHH07

Last Calibration: 940310 14:28

Last Qcal Time: &lt;none&gt;

Operator ID: USER1

Quant Time : 940311 09:38

Injected at: 940311 09:12

QUANT REPORT

Operator ID: USER1  
Output File: ^H9363::D2  
Data File: >H9363::D2  
Name: 15226N-CLJ-DS-09  
Misc: JM3563H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 09:38  
                  Injected at: 940311 09:12  
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	2.42	28	15295	.0189	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.89	1165	277665	.501	ug/ml	100
3) #Dicamba	12.03	1182	34047	.0174	ug/ml	100
4) #Dichloroprop	13.20	1322	29951	.0457	ug/ml	100
5) #2,4-D	13.45	1352	12551	<del>.0168</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.83	1517	2496	.000773	ug/ml	100
7) #2,4,5-T	15.08	1548	4522	.00151	ug/ml	100
9) #Dinoseb	16.05	1664	45922	.0187	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: NTP40181P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3827

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2<sup>2</sup>/94  
DL

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/7/94

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</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 PSPK01

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

Matrix: (soil/water) WATER Lab Sample ID: N7P40181PS

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3828

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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)		
76-44-8----	Heptachlor	7.76	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	8.68	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	27.2	
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	25.6	
5103-74-2--	gamma-Chlordane	24.6	
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 PSPKOIT  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: N7P4G181PST  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3577  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 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	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	3.00	
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 C6528MS

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

Matrix: (soil/water) WATER Lab Sample ID: JM3557PS

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^23829

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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)		
76-44-8----	Heptachlor	15.3	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	19.0	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	20.2	
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	17.2	
5103-74-2--	gamma-Chlordane	16.8	
8001-35-2--	Toxaphene		
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 C6528MST  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3557PST  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3578  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 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	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	135	
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 C6528MSD

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

Matrix: (soil/water) WATER Lab Sample ID: JM3557PR

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3830

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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	14.7	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	18.1	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	19.5	
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	17.4	
5103-74-2--	gamma-Chlordane	17.2	
8001-35-2--	Toxaphene		
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 C6528

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

Matrix: (soil/water) WATER Lab Sample ID: JM3557P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3833

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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)	<del>2.00</del>	<del>U</del>
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	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 C6529

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

Matrix: (soil/water) WATER Lab Sample ID: JM3558P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^23834

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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	
319-84-6---	alpha-BHC			
319-85-7---	beta-BHC			
319-86-8---	delta-BHC			
58-89-9----	gamma-BHC (Lindane)	<del>2.00</del>		<del>U</del> <u>U</u>
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	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-DS-06

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

Matrix: (soil/water) WATER Lab Sample ID: JM3559P

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^Z3835

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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) <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)	<sup>DL</sup> 2.00	<sup>DL</sup> U
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	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-DS-07

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

Matrix: (soil/water) WATER Lab Sample ID: JM3560P

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^Z3836

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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>DL</u> <u>2.00</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-DS-07D

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

Matrix: (soil/water) WATER Lab Sample ID: JM3561P

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^Z3837

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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)	<u>2.00</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 CLS-DS-08  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3562P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3838  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 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)	<u>DL</u> <u>2.00</u>	<u>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-DS-09

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

Matrix: (soil/water) WATER Lab Sample ID: JM3563P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: AZ3839

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

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)	<del>2.00</del>	<del>U</del>
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	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		

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

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	PB1K01	103 96.7	116	74.4 78.6	79.4			0
02	PSPK01	104	116	78.4	83.6			0
03	C6528MS	104	116	81.0	86.0			0
04	C6528MSD	94.4	95.9	81.2	85.3			0
05	PB1K01F	110	122	83.9	88.3			0
06	C6528	96.7	107	78.6	83.4			0
07	C6529	109	122	81.3	96.3			0
08	CLJ-DS-06	105	117	78.9	93.6			0
09	CLJ-DS-07	99.4	110	80.7	84.6			0
10	CLJ-DS-07D	107	119	77.7	82.2			0
11	CLJ-DS-08	101	114	83.9	90.3			0
12	CLJ-DS-09	105	110	83.1	87.2			0
13	PSPK01T	N/A	N/A	N/A	N/A			0
14	C6528MST	N/A	N/A	N/A	N/A			0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0
25								0
26								0
27								0
28								0
29								0
30								0

ADVISORY  
QC LIMITS

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

- # 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. NR

Matrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)					56-120
Heptachlor	16.3	0	15.3	91.1	40-131
Heptachlor Epoxide	18.2	0	19.0	104	30-130
Toxaphene	95.6	0	135	141 *	30-130
Endrin	20.3	0	20.2	99.5	30-130
Methoxychlor					30-130
gamma-Chlordane	17.2	0	16.8	97.7	30-130
alpha-Chlordane	18.6	0	17.2	92.5	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	14.7	87.5	4.00	20 40-131
Heptachlor Epoxide	18.2	18.1	99.5	4.85	20 30-130
Toxaphene					20 30-130
Endrin	20.3	19.5	96.1	3.74	20 30-130
Methoxychlor					20 30-130
gamma-Chlordane	17.2	17.2	100	2.14	20 30-130
alpha-Chlordane	18.6	17.4	93.5	1.16	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 <sup>at</sup> outside limits  
 Spike Recovery: 0 <sup>at</sup> out of 11 <sup>at</sup> outside limits

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

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA PBLK01

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

Lab Sample ID: N7P40181P Lab File ID: <sup>DL</sup>AZ3827 NA

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

Sulfur Cleanup: (Y/N) N Date Extracted: 3/2/94

Date Analyzed (1): 3/7/94 Date Analyzed (2): 3/8/94

Time Analyzed (1): 23:38 Time Analyzed (2): 00:22

Instrument ID (1): 1 Instrument ID (2): 2

GC Column (1): DB-103 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	N7P40181P	3-7-94	3-8-94
02	PSPK01	N7P40181PS	3-8-94	
03	C6528MS	IM3557PS		
04	C6528MSD	IM3557PR		
05	PBLK01F	IM0000P		
06	C6528	IM3557P		
07	C6529	IM3558P		
08	CLI-DS-06	IM3559P		
09	CLI-DS-07	IM3560P		
10	CLI-DS-07D	IM3561P		
11	CLI-DS-08	IM3562P		
12	CLI-DS-09	IM3563P		
13	PSPK01T	N7P40181PST		
14	C6528MST	IM3557PST	↓	↓
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 1.00 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 (Lindane)						
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.



0249

6D

## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

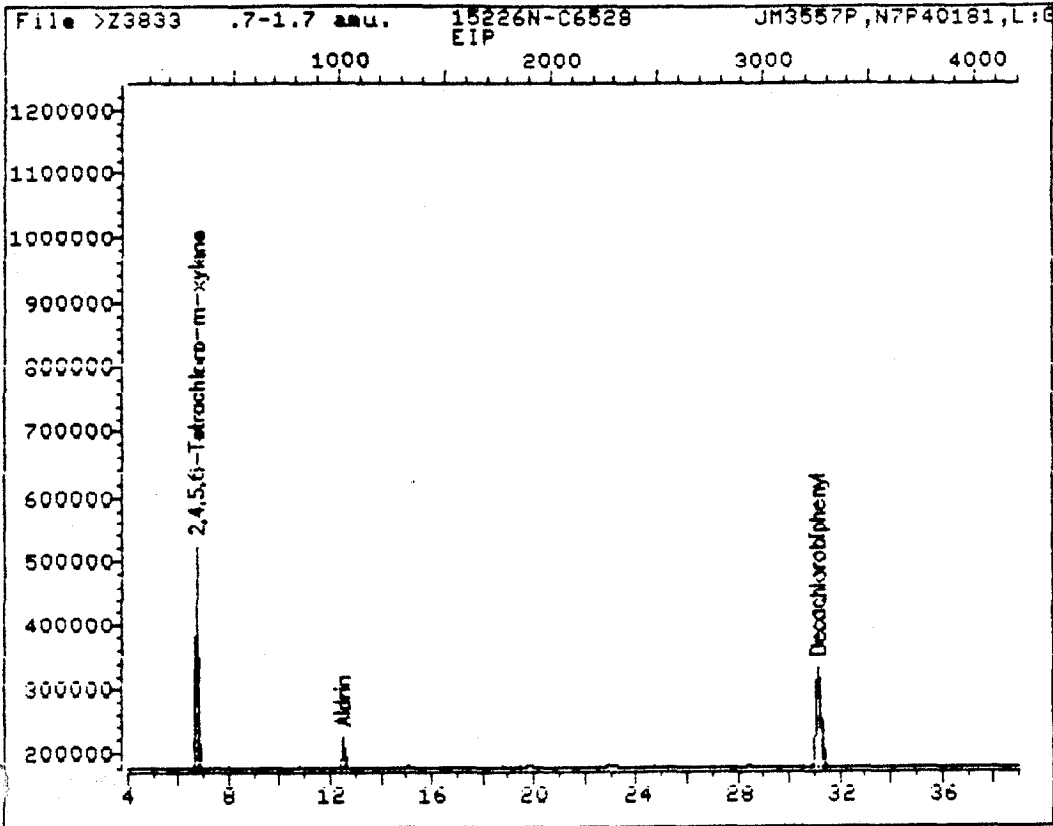
Job Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 1 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

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	17.96	17.96	17.96	17.96	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: >Z3833::D5  
Name: 15226N-C6528  
Misc: JM3557P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3833::D5  
Instrument ID: Z

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

Operator ID: USER2  
Quant Time : 940308 07:36  
Injected at: 940308 04:05

DL- 0251  
3-8-94

QUANT REPORT

Operator ID: USER2  
Output File: ^Z3833::D5  
Data File: >Z3833::D5  
Name: 15226N-C6528  
Misc: JM3557P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:36  
                  Injected at: 940308 04:05  
Dilution Factor: 1.00000  
Instrument ID: Z

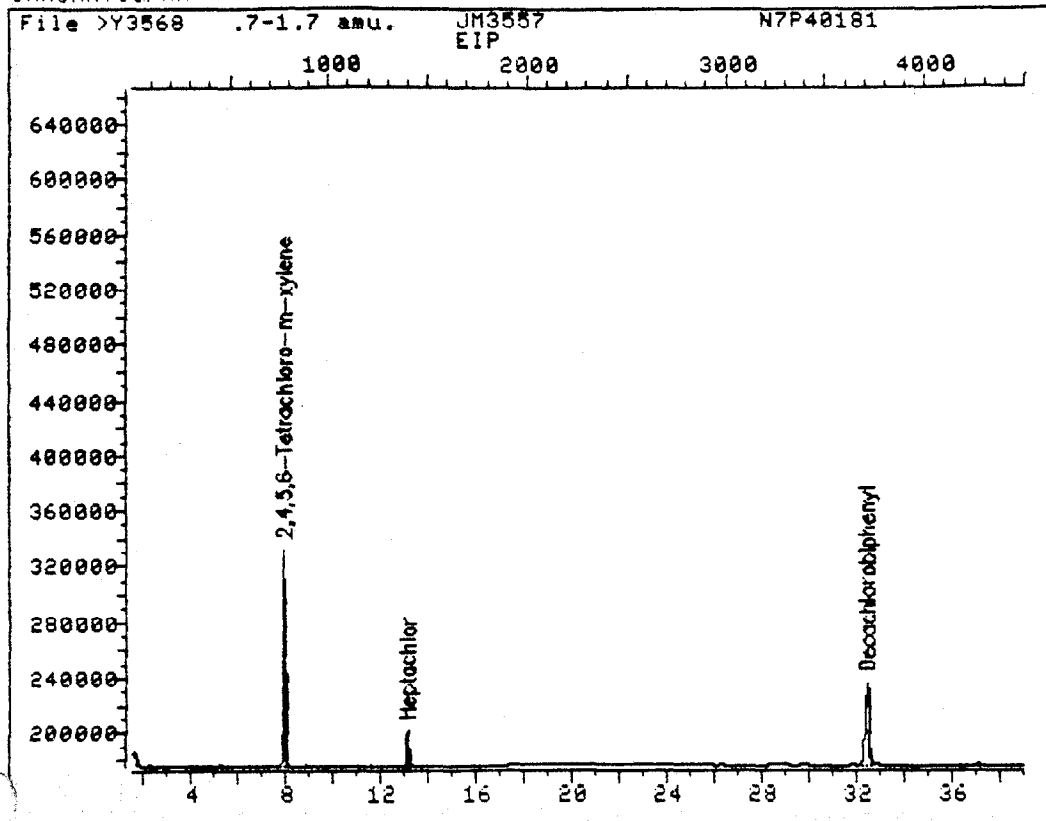
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1602156	.501	ug/ml	100
8) #Aldrin	12.46	1016	241759	<del>.0736</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.13	3256	1922639	.455	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3568::D5  
Name: JM3557  
Misc: N7P40181

Quant Output File: ^Y3568::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: USER2  
Quant Time : 940314 15:05  
Injected at: 940308 04:50

DL 0253  
3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3568::D5  
Data File: >Y3568::D5  
Name: JM3557  
Misc: N7P40181

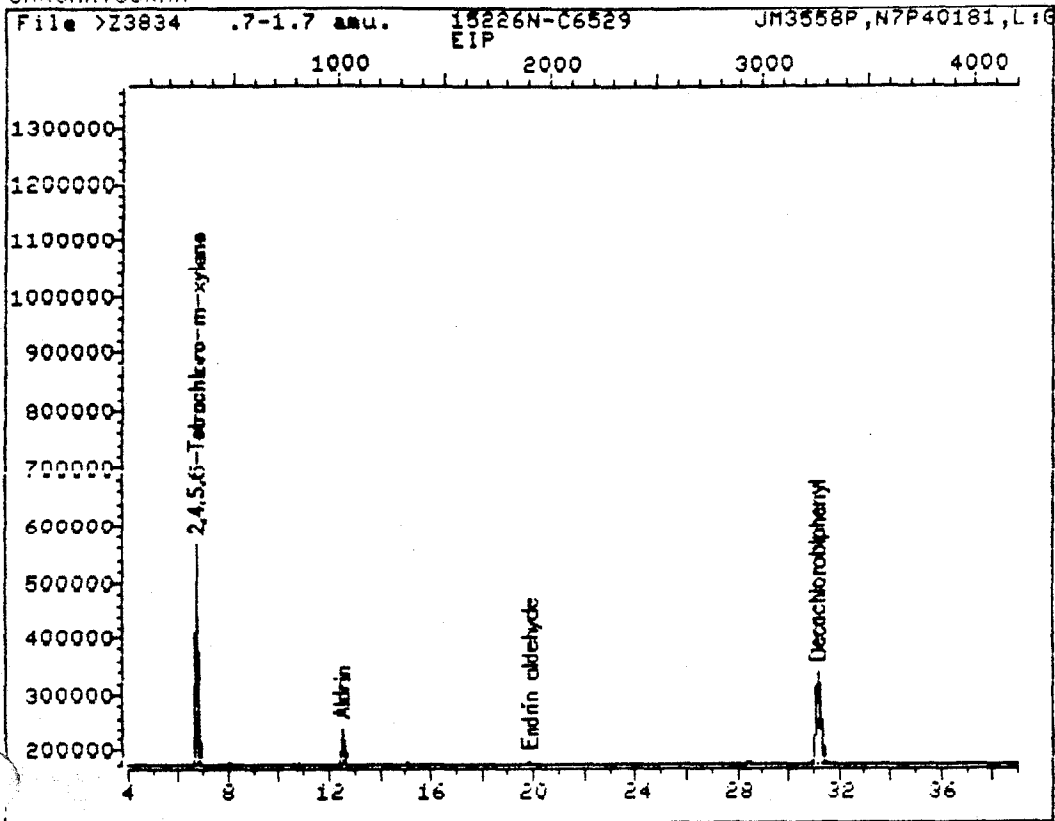
Quant Rev: 7      Quant Time: 940314 15:05  
                  Injected at: 940308 04:50  
Dilution Factor: 1.00000  
Instrument ID: Y

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	7.90	769	709795	.556	ug/ml	100
7) #Heptachlor	13.08	1391	136927	<del>.0925</del>	ug/ml	100
23) #Decachlorobiphenyl	32.38	3707	809873	.483	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;Z3834::D5

Quant Output File: ^Z3834::D5

Name: 15226N-C6529

Instrument ID: Z

Misc: JM3558P,N7P40181,L:G2,25,5:1,

Id File: IZP307::D5

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

Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940308 07:38

Injected at: 940308 04:50

DL0255  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3834::D5  
Data File: >Z3834::D5  
Name: 15226N-C6529  
Misc: JM3558P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:38  
                  Injected at: 940308 04:50  
Dilution Factor: 1.00000  
Instrument ID: Z

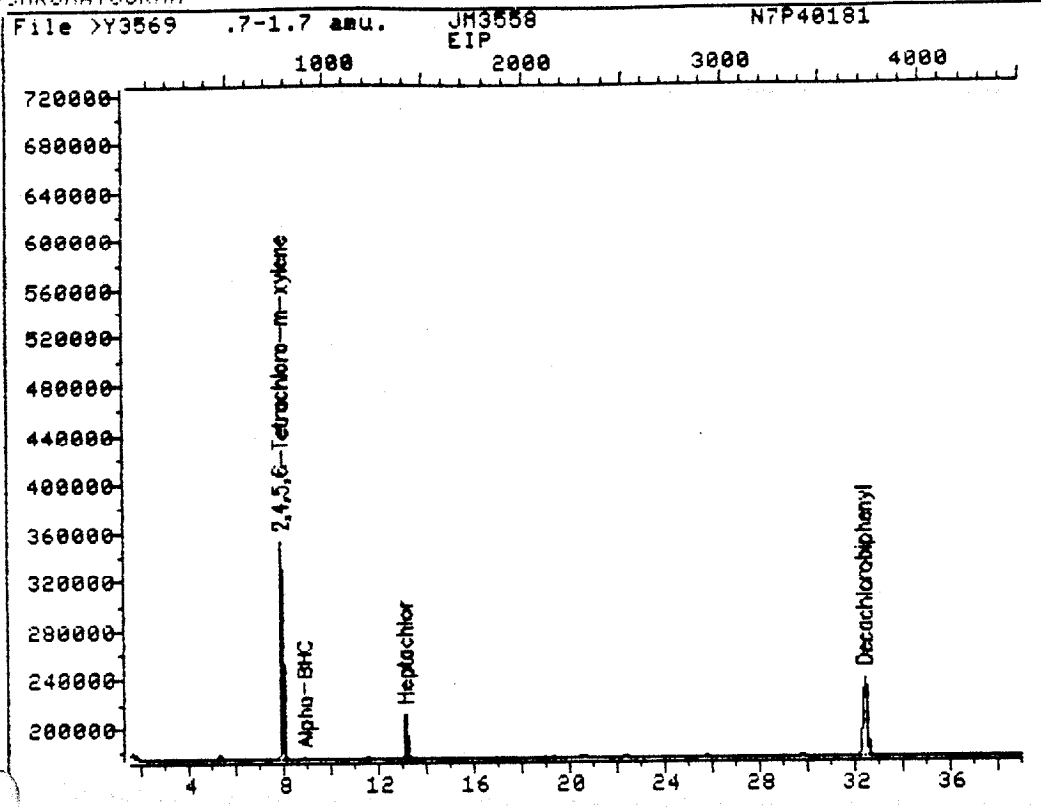
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1812397	.567	ug/ml	100
8) #Aldrin	12.46	1016	349408	<del>.106</del>	<del>ug/ml</del>	100
19) #Endrin aldehyde	19.84	1902	30239	<del>.0131</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.13	3256	1991537	.471	ug/ml	100

\* Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3569::D5  
Name: JM3558  
Misc: N7P40181

Quant Output File: ^Y3569::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: USER2  
Quant Time : 940314 15:06  
Injected at: 940308 05:34



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QUANT REPORT

Page 1

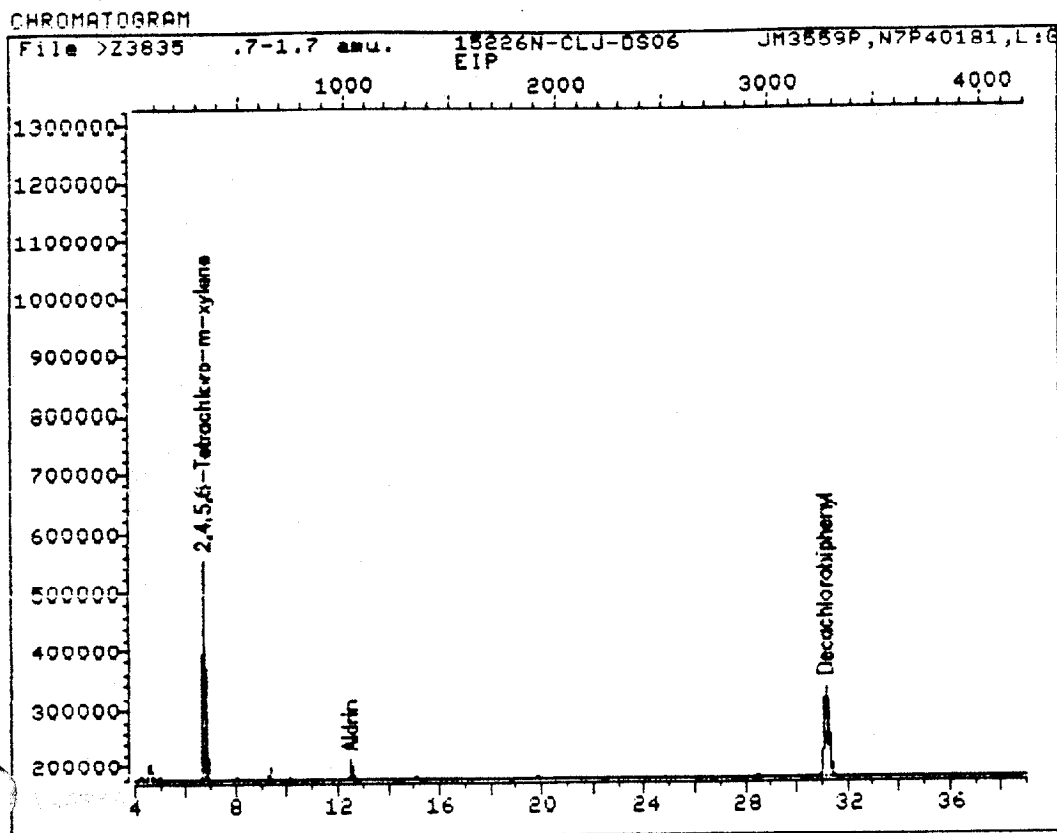
Operator ID: USER2  
Output File: ^Y3569::D5  
Data File: >Y3569::D5  
Name: JM3558  
Misc: N7P40181

Quant Rev: 7      Quant Time: 940314 15:06  
                  Injected at: 940308 05:34  
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	7.90	769	804004	.630	ug/ml	100
2) #Alpha-BHC	8.87	885	7648	.00445	ug/ml	100
7) #Heptachlor	13.08	1391	199135	.131	ug/ml	100
23) #Decachlorobiphenyl	32.38	3706	835503	.499	ug/ml	100

# Compound uses ESTD



Data File: >Z3835::D5  
Name: 15226N-CLJ-DS06  
Misc: JM3559P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3835::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: USER2  
Quant Time : 940308 07:39  
Injected at: 940308 05:34

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QUANT REPORT

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Operator ID: USER2  
Output File: ^Z3835::D5  
Data File: >Z3835::D5  
Name: 15226N-CLJ-DS06  
Misc: JM3559P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:39  
                  Injected at: 940308 05:34  
Dilution Factor: 1.00000  
Instrument ID: Z

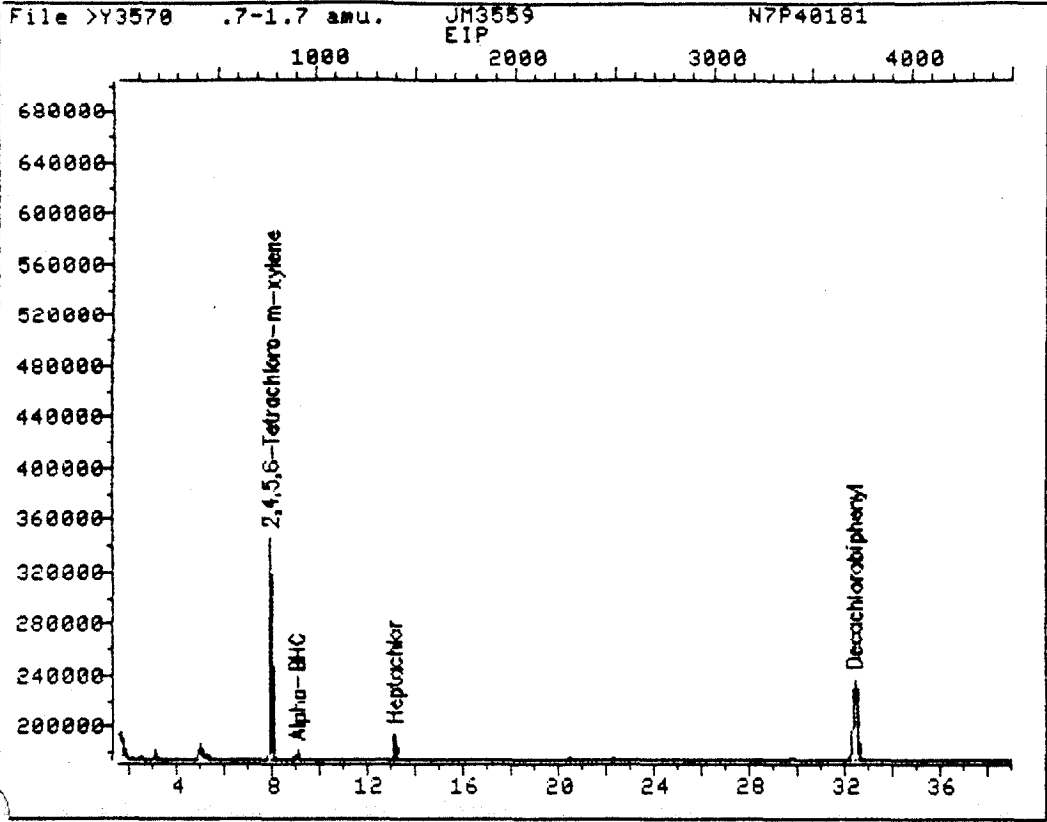
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1734413	.542	ug/ml	100
8) #Aldrin	12.47	1017	164895	<del>0582</del>	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	1929844	.457	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Y3570::D5  
Name: JM3559  
Misc: N7P40181

Quant Output File: ^Y3570::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: USER2  
Quant Time : 940314 15:09  
Injected at: 940308 06:19

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QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3570::D5  
Data File: >Y3570::D5  
Name: JM3559  
Misc: N7P40181

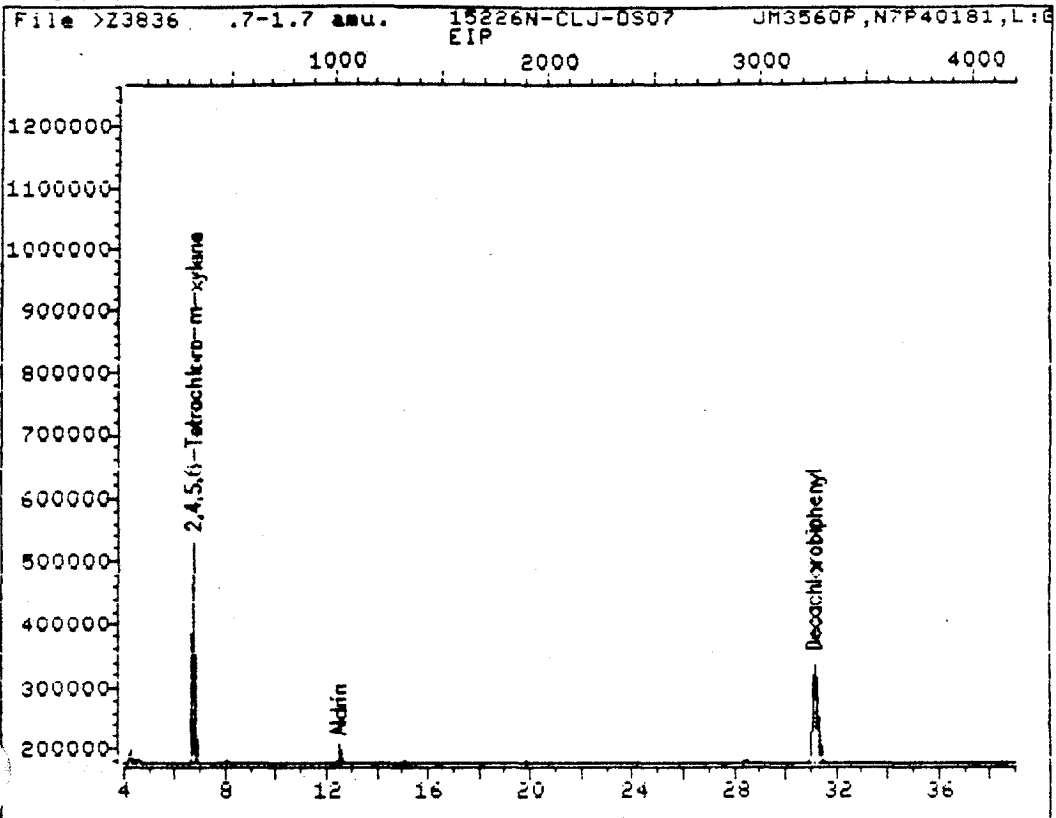
Quant Rev: 7      Quant Time: 940314 15:09  
                  Injected at: 940308 06:19  
Dilution Factor: 1.00000  
Instrument ID: Y

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	7.90	769	770755	.604	ug/ml	100
2) #Alpha-BHC	9.02	903	26107	<del>.0152</del>	<del>ug/ml</del>	100
7) #Heptachlor	13.08	1391	96287	<del>.0673</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	32.37	3705	812086	.485	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Z3836::D5  
Name: 15226N-CLJ-DS07  
Misc: JM3560P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3836::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: USER2  
Quant Time : 940308 07:40  
Injected at: 940308 06:19

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QUANT REPORT

Operator ID: USER2  
Output File: ^Z3836::D5  
Data File: >Z3836::D5  
Name: 15226N-CLJ-DS07  
Misc: JM3560P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:40  
                  Injected at: 940308 06:19  
Dilution Factor: 1.00000  
Instrument ID: Z

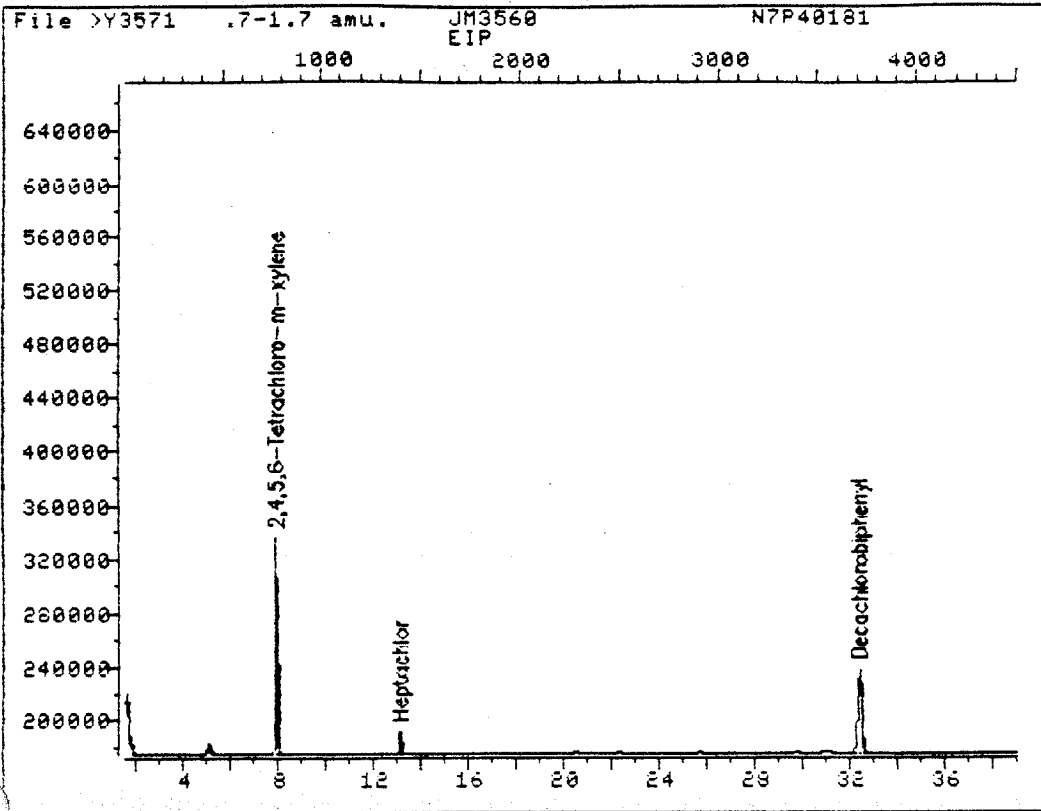
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1648141	.515	ug/ml	100
8) #Aldrin	12.47	1017	142431	<del>.0434</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.12	3255	1973649	.467	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3571::D5  
Name: JM3560  
Misc: N7P40181

Quant Output File: ^Y3571::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: USER2  
Quant Time : 940314 15:10  
Injected at: 940308 07:04



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QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3571::D5  
Data File: >Y3571::D5  
Name: JM3560  
Misc: N7P40181

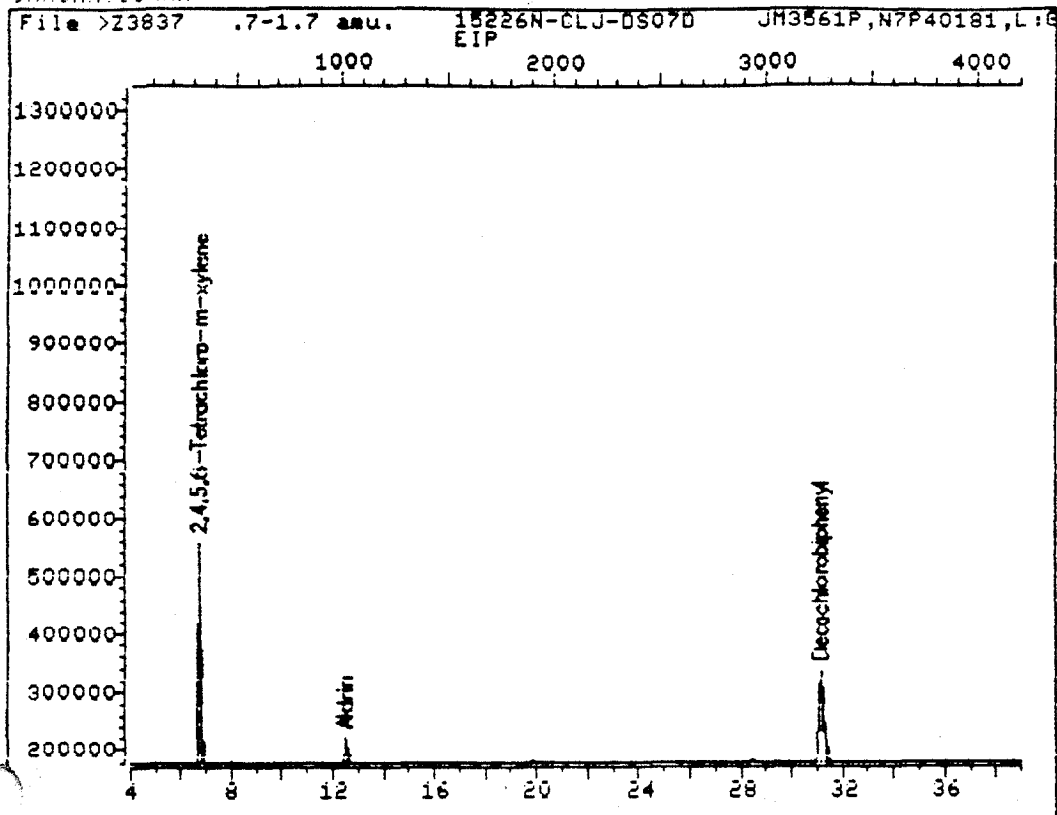
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                  Injected at: 940308 07:04  
Dilution Factor: 1.00000  
Instrument ID: Y

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	7.90	769	726242	.569	ug/ml	100
7) #Heptachlor	13.08	1391	81087	<del>.8579</del>	ug/ml	100
23) #Decachlorobiphenyl	32.37	3705	821369	.490	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Z3837::D5  
Name: 15226N-CLJ-DS07D  
Misc: JM3561P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3837::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: USER2

Quant Time : 940308 08:01

Injected at: 940308 07:04

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QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3837::D5  
Data File: >Z3837::D5  
Name: 15226N-CLJ-DS07D  
Misc: JM3561P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 08:01  
                  Injected at: 940308 07:04  
Dilution Factor: 1.00000  
Instrument ID: Z

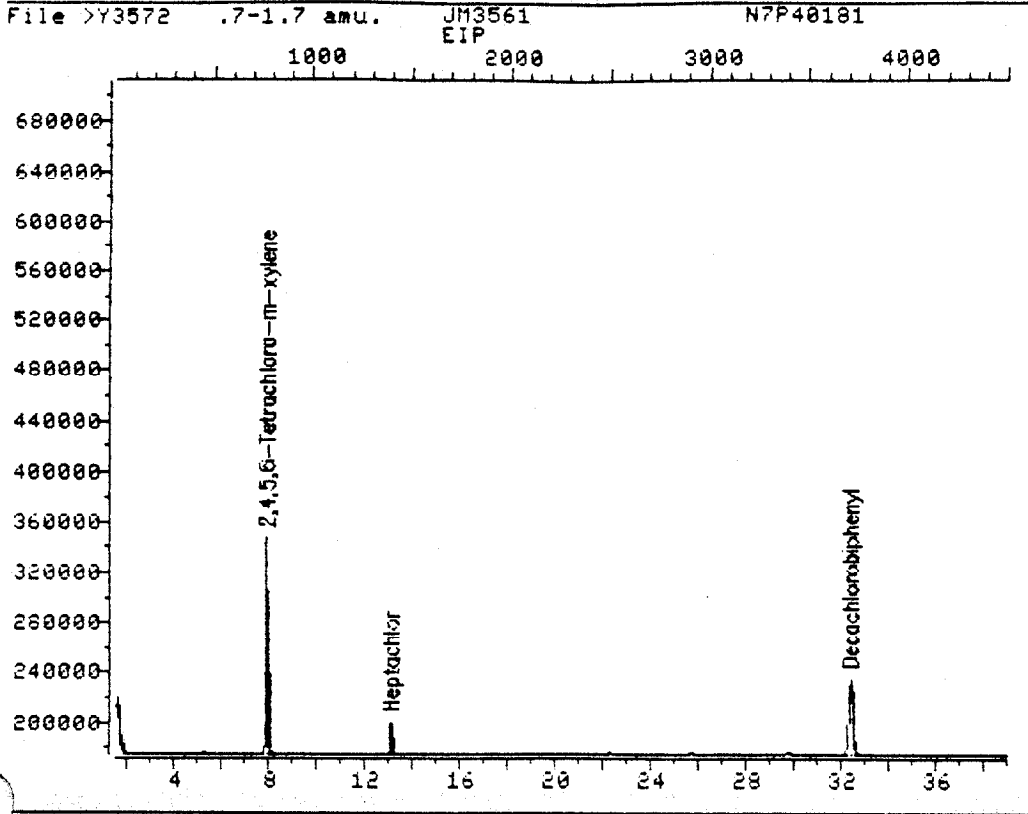
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.68	323	1765902	.552	ug/ml	100
8) #Aldrin	12.46	1016	222271	<del>0.677</del>	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	1900535	.450	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3572::D5  
Name: JM3561  
Misc: N7P40181

Quant Output File: ^Y3572::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: USER2  
Quant Time : 940314 15:11  
Injected at: 940308 07:56

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3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3572::D5  
Data File: >Y3572::D5  
Name: JM3561  
Misc: N7P40181

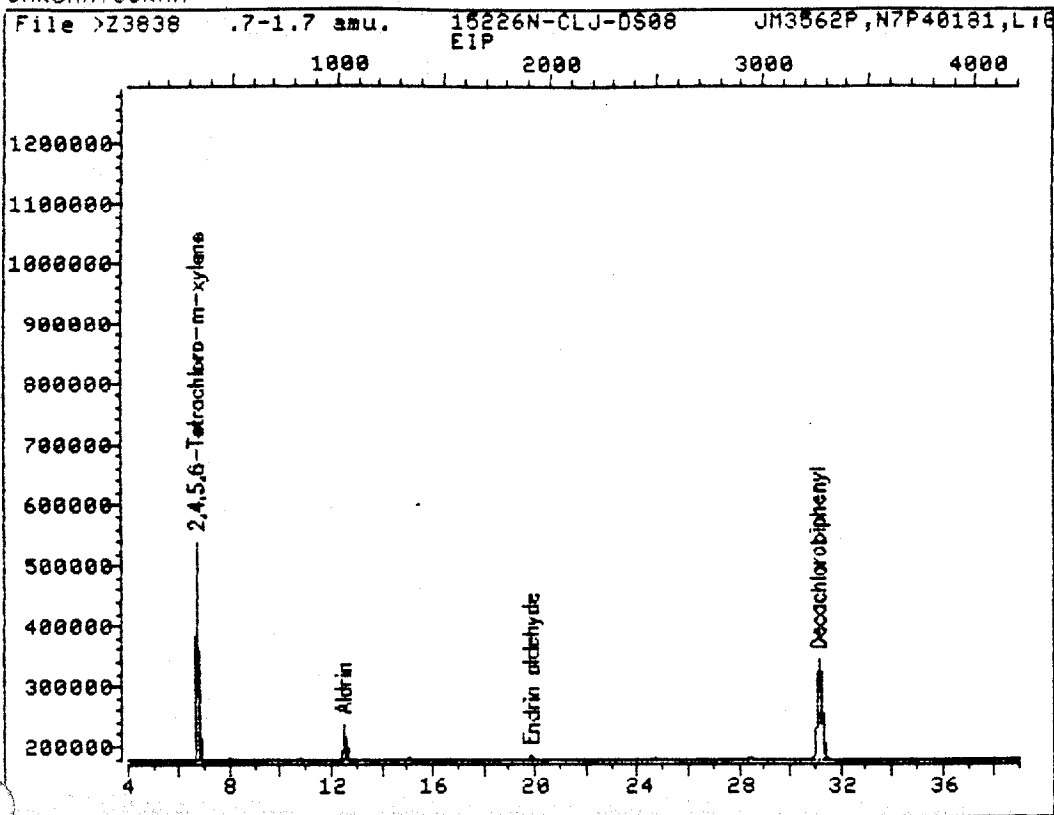
Quant Rev: 7      Quant Time: 940314 15:11  
                  Injected at: 940308 07:56  
Dilution Factor: 1.00000  
Instrument ID: Y

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	7.89	768	784482	.614	ug/ml	100
7) #Heptachlor	13.08	1390	129599	<del>.0888</del>	ug/ml	100
23) #Decachlorobiphenyl	32.37	3705	797265	.476	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Z3838::D5  
Name: 15226N-CLJ-DS08  
Misc: JM3562P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3838::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: USER2  
Quant Time : 940308 08:36  
Injected at: 940308 07:56

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QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3838::D5  
Data File: >Z3838::D5  
Name: 15226N-CLJ-DS08  
Misc: JM3562P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 08:36  
                  Injected at: 940308 07:56  
Dilution Factor: 1.00000  
Instrument ID: Z

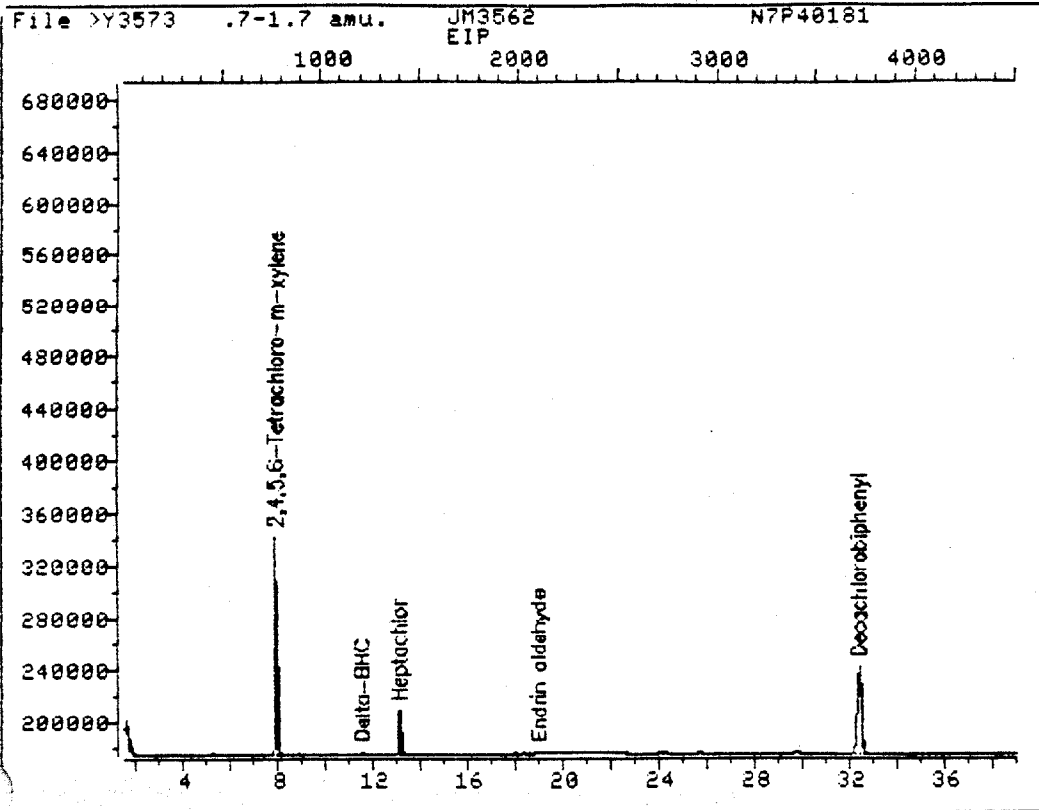
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1679021	.525	ug/ml	100
8) #Aldrin	12.46	1016	314335	<del>.0952</del>	ug/ml	100
19) #Endrin aldehyde	19.84	1902	26367	<del>.0115</del>	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	2052973	.486	ug/ml	100

\* Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3573::D5  
Name: JM3562  
Misc: N7P40181

Quant Output File: ^Y3573::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: USER2  
Quant Time : 940314 15:12  
Injected at: 940308 08:41



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QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3573::05  
Data File: >Y3573::05  
Name: JM3562  
Misc: N7P40181

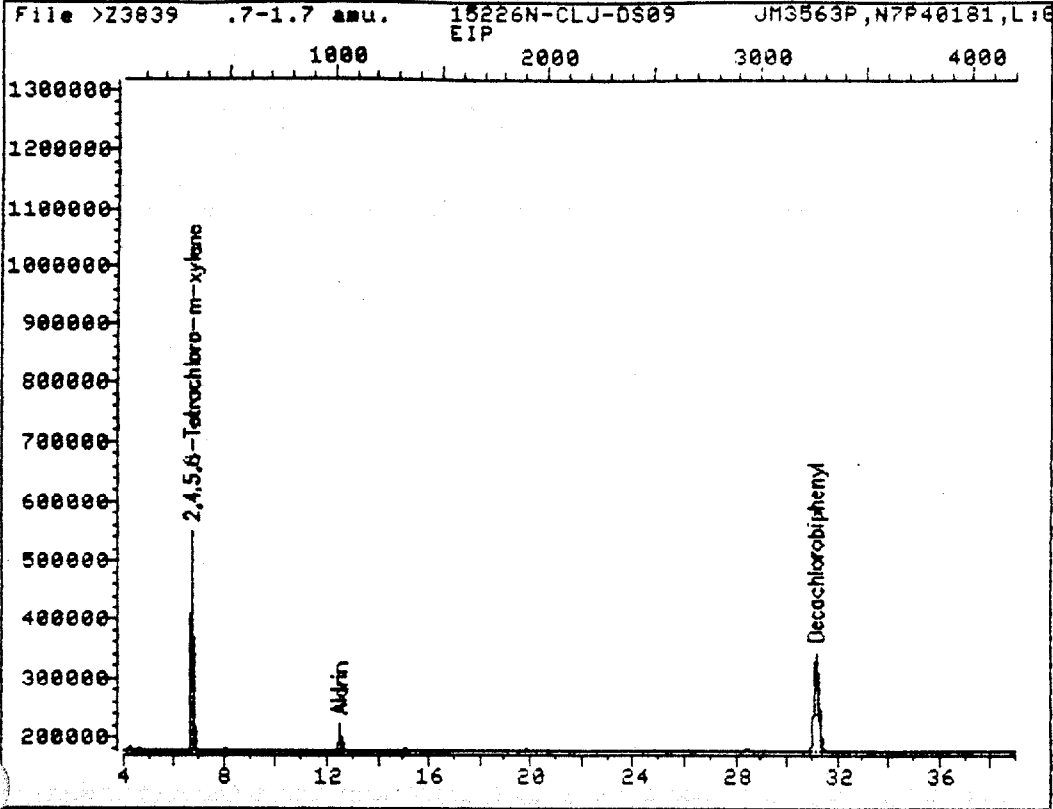
Quant Rev: 7      Quant Time: 940314 15:12  
                  Injected at: 940308 08:41  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::05  
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	7.90	769	756226	.592	ug/ml	100
6) #Delta-BHC	11.51	1202	6176	<del>.0311</del>	ug/ml	100
7) #Heptachlor	13.08	1390	183295	<del>.121</del>	ug/ml	100
18) #Endrin aldehyde	18.95	2095	6336	<del>.00544</del>	ug/ml	100
23) #Decachlorobiphenyl	32.36	3704	873937	.522	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Z3839::D5                      Quant Output File: ^Z3839::D5  
Name: 15226N-CLJ-DS09                      Instrument ID: Z  
Misc: JM3563P,N7P40181,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: <none>  
  
Operator ID: USER2  
Quant Time : 940308 09:21  
Injected at: 940308 08:41

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3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3839::D5  
Data File: >Z3839::D5  
Name: 15226N-CLJ-DS09  
Misc: JM3563P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 09:21  
                  Injected at: 940308 08:41  
Dilution Factor: 1.00000  
Instrument ID: Z

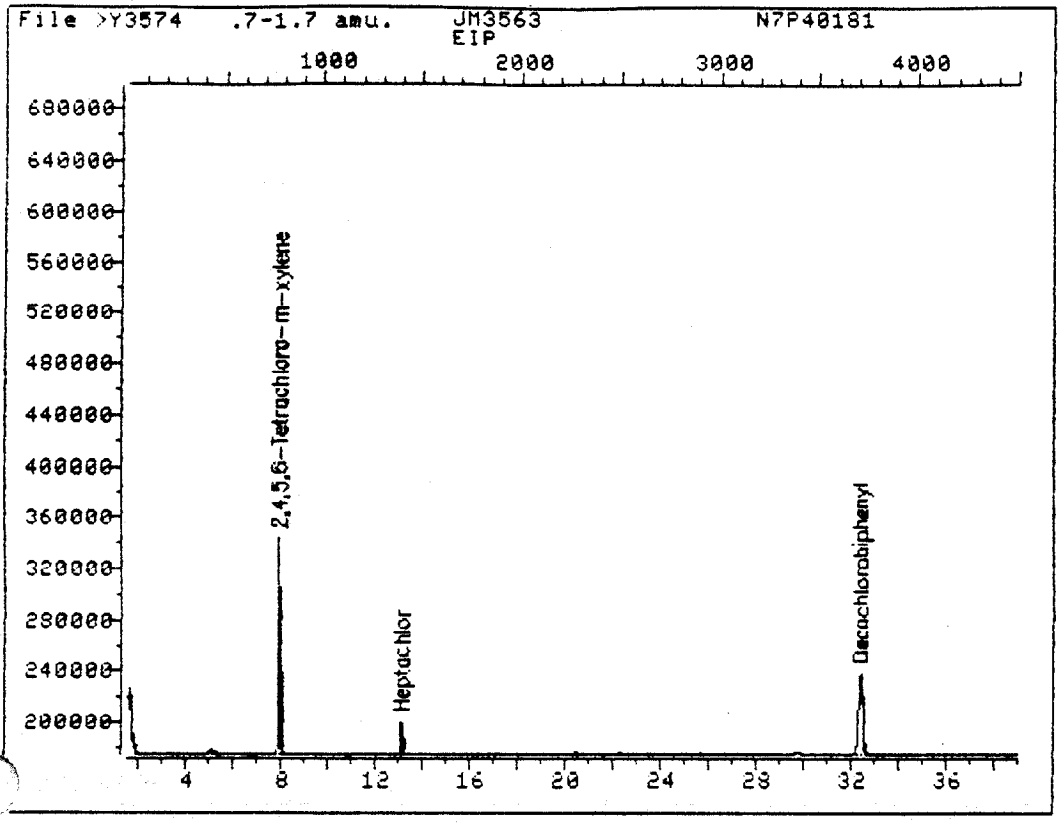
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.68	323	1742989	.545	ug/ml	100
8) #Aldrin	12.46	1016	224287	<del>0.683</del>	ug/ml	100
23) #Decachlorobiphenyl	31.11	3254	2033745	.481	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Y3574::D5  
Name: JM3563  
Misc: N7P40181

Quant Output File: ^Y3574::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: USER2  
Quant Time : 940314 15:13  
Injected at: 940308 09:25

DL0277

3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3574::D5  
Data File: >Y3574::D5  
Name: JM3563  
Misc: N7P40181

Quant Rev: 7      Quant Time: 940314 15:13  
                  Injected at: 940308 09:25  
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	7.89	768	767939	.601	ug/ml	100
7) #Heptachlor	13.08	1390	130847	<del>0.888</del>	ug/ml	100
23) #Decachlorobiphenyl	32.34	3702	846353	.505	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 #: NR

DW No.: NA

**EPA Sample No.**

**Lab Sample ID.**

C6528

JM3557

C6529

JM3558

CLJ-DS-06

JM3559

CLJ-DS-07

JM3560

CLJ-DS-07D

JM3561

CLJ-DS-08

JM3562

CLJ-DS-09

JM3563

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Were ICP interelement corrections applied?

Yes/NO YES

Were ICP background corrections applied?

Yes/NO YES

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

Yes/NO NO

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on 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: 5/26/94

Title: Operations Manager

# INORGANIC ANALYSIS DATA SHEET (1) . 0279

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: C6528  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3557  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	1260			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		LV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	3.3	B		F
7440-22-4	Silver	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) 0280

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: C6529  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3558  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	928			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CU
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.3	U		F
7440-22-4	Silver	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) 0281

Lab Name: Analytical Services Corp Contract: NepSA EPA SAMPLE #: CLJ-DS-06  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3559  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	536			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	2.3	B		P
7440-47-3	Chromium	4.3	B		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	97.0			F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14			CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	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) - 0282

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-DS-07  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3560  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	1460			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
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	B		F
7440-22-4	Silver	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) - 0283

Lab Name: Analytical Services Corp Contract: Nees A EPA SAMPLE #: CL1-DS-07D  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3561  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	1550			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	2.3	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.4	B		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	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) - 0284

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLI-DS-08  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3562  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	1100			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	2.6	B		F
7440-22-4	Silver	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) - 0285

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-DS-09  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) low Lab Sample ID: JM3563  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

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

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	2.12			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.0	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.1	B		F
7439-96-5	Manganese				
7439-97-6	Mercury	.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.6	B		F
7440-22-4	Silver	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: \_\_\_\_\_

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0286

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	34.9	106	20.5	20.9	102	19.3	94.1	F
Barium	9240	9570	104	4520	4840	107	4820	107	P
Beryllium									
Boron									
Cadmium	2530	2570	101	1250	1280	102	1280	102	P
Chromium	973	992	102	483	495	102	486	101	P
Cobalt									
Copper									
Iron									
Lead	35.3	34.3	97.2	21.2	21.9	103	21.4	101	F
Manganese									
Mercury	5.0	4.9	98.0	5.0	4.7	94.0	4.7	94.0	CV
Molybdenum									
Nickel									
Selenium									
Silver	1260	1290	103	603	617	102	615	102	P
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0287

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

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	21.6	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)

0288

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	42.9	110	23.5	25.6	109	23.6	100	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) - 028

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA

SDG #: NA

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	10.0	10.7	107					
Barium				402	399	99.2	396	98.4
Beryllium								
Boron								
Cadmium				10.8	10.5	97.5	10.5	96.9
Chromium				21.0	20.3	96.6	21.9	104
Cobalt								
Copper								
Iron								
Lead	3.0	2.0	66.7					
Manganese								
Mercury	0.2	0.24	122					
Molybdenum								
Nickel								
Selenium								
Silver				22.0	21.2	96.5	19.6	89.1
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

0000

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								
Molybdenum								
Nickel								
Selenium	<i>5.1</i>	<i>6.0</i>	<i>118</i>					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# BLANKS (3)

0291

Lab Name: *Analytical Services Corp*

Contract: *Nees A*

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
		C	1	C	2	C	3	C	C	M	
Aluminum											
Antimony											
Arsenic	-1.4	U	-0.1	U	0.6	U			-1.2	U	F
Barium	2.5	B	1.0	B	1.7	B			2.2	B	P
Beryllium											
Boron											
Cadmium	0.99	U	0.4	U	0.8	U			3.0	B	P
Chromium	0.09	U	-0.4	U	-0.6	U			-2.0	U	P
Cobalt											
Copper											
Iron											
Lead	-1.3	U	-1.6	U	-1.1	U	-1.3	U	-1.6	U	F
Manganese											
Mercury	0.05	U	0.05	U	0.03	U	0.05	U	-0.01	U	CV
Molybdenum											
Nickel											
Selenium	1.5	B	1.2	U	0.3	U	0.05	U	0.1	U	F
Silver	φ	U	0.2	U	-1.1	U			-4.6	U	P
Strontium											
Thallium											
Vanadium											
Zinc											

# ICP INTERFERENCE CHECK SAMPLE (4) - 0292

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	<i>φ</i>	<i>471</i>	<i>2.2</i>	<i>476</i>	<i>101</i>	<i>2.1</i>	<i>471</i>	<i>100</i>
Beryllium								
Boron								
Cadmium	<i>φ</i>	<i>874</i>	<i>-9.6</i>	<i>895</i>	<i>102</i>	<i>-9.3</i>	<i>882</i>	<i>101</i>
Chromium	<i>φ</i>	<i>462</i>	<i>-6.4</i>	<i>467</i>	<i>101</i>	<i>-5.3</i>	<i>459</i>	<i>99.5</i>
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	<i>φ</i>	<i>923</i>	<i>-5.1</i>	<i>937</i>	<i>101</i>	<i>-5.5</i>	<i>925</i>	<i>100</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# SPIKE SAMPLE RECOVERY (5A)

029

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLJ-DS-  
 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	92.1	72.1	20.0	100		F
Barium	75-125	9280	212	10400	87.4		P
Beryllium							
Boron							
Cadmium	75-125	923	1.0	1050	87.7		P
Chromium	75-125	4810	1.2	5430	88.6		P
Cobalt							
Copper							
Iron							
Lead	75-125	23.8	2.1	20.0	109		F
Manganese							
Mercury	75-125	1.9	.05	2.0	95		CV
Molybdenum							
Nickel							
Selenium	75-125	17.6	1.6	20.0	80		F
Silver	75-125	95.6	-5.3	93.5	102		P
Strontium							
Thallium							
Vanadium							
Zinc							

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

# POST DIGEST SPIKE SAMPLE RECOVERY (5B) 0294

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLJ-05-C  
 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							
Barium	75-125	11200	1100	10400	97.1		P
Beryllium							
Boron							
Cadmium	75-125	1020	0.1	1050	97.1		P
Chromium	75-125	5320	3.0	5430	97.9		P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	75-125	1030	3.7	93.5	110.2		P
Srontium							
Thallium							
Vanadium							
Zinc							

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

# DUPLICATES (6)

0295

Lab Name: Analytical Services Corp      Contract: NeesA      EPA Sample #: CL5-05-  
 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)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic	20	72.1		72.0		0.1		F
Barium	20	212		212		φ		P
Beryllium								
Boron								
Cadmium		1.0	U	0.8	U			P
Chromium		1.2	U	2.4	U			P
Cobalt								
Copper								
Iron								
Lead		2.1	B	2.4	B	13.3		F
Manganese								
Mercury		.05	U	.08	U			CV
Molybdenum								
Nickel								
Selenium		1.6	B	0.1	U			F
Silver		-5.3	U	-2.3	U			P
Strontium								
Thallium								
Vanadium								
Zinc								

# LABORATORY CONTROL SAMPLE (7)

029

Lab Name: Analytical Services Corp

Contract: Neas A

Lab Code: NA Case #: NA

SAS #: NA SDG #: NA

Liquid LCS Source: \_\_\_\_\_

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	20.3	102					
Barium	10400	9860	95.1					
Beryllium								
Boron								
Cadmium	1050	965	91.5					
Chromium	5430	5080	93.6					
Cobalt								
Copper								
Iron								
Lead	20.0	21.1	106					
Manganese								
Mercury	2.0	1.9	95					
Molybdenum								
Nickel								
Selenium	20.0	21.6	108					
Silver	93.5	95.0	102					
Strontium								
Thallium								
Vanadium								
Zinc								



## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA SR 1Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix: (soil/water) WATER Lab Sample ID: N7C4079CSample wt/vol: 400 (g/mL) mL Lab File ID: D8014% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/03/94Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94Injection Volume: 1.0 (uL) Dilution Factor: 1.0GPC 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	0.100		U
106-44-5---	4-Methylphenol	0.100		U
67-72-1----	Hexachloroethane	0.100		U
98-95-3----	Nitrobenzene	0.100		U
87-68-3----	Hexachlorobutadiene	0.100		U
88-06-2----	2,4,6-Trichlorophenol	0.100		U
95-95-4----	2,4,5-Trichlorophenol	0.100		U
121-14-2---	2,4-Dinitrotoluene	0.100		U
118-74-1---	Hexachlorobenzene	0.100		U
87-86-5----	Pentachlorophenol	0.100		U
110-86-1---	Pyridine	0.100		U
72-43-5----	Methoxychlor	0.100		U
58-89-9----	gamma-BHC (Lindane)	0.100		U

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0298**

Lab Name: ASC Contract: NEESA SBK135  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: N7C40179CS  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8015  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 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
95-48-7----	2-Methylphenol	<u>23.9</u>	
106-44-5---	4-Methylphenol	<u>57.4</u>	
67-72-1----	Hexachloroethane	<u>57.8</u>	
98-95-3----	Nitrobenzene	<u>45.2</u>	
87-68-3----	Hexachlorobutadiene	<u>20.2</u>	
88-06-2----	2,4,6-Trichlorophenol	<u>77.5</u>	
95-95-4----	2,4,5-Trichlorophenol	<u>67.6</u>	
121-14-2---	2,4-Dinitrotoluene	<u>21.6</u>	
118-74-1---	Hexachlorobenzene	<u>28.7</u>	
87-86-5----	Pentachlorophenol	<u>139</u>	
110-86-1---	Pyridine	<u>54.3</u>	
72-43-5----	Methoxychlor	<u>85.6</u>	
58-89-9----	gamma-BHC (Lindane)	<u>26.5</u>	

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0299

Lab Name: ASC Contract: NEESA C 6528 MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3557  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8016  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 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>25.0</u>	
106-44-5----	4-Methylphenol	<u>58.6</u>	
67-72-1----	Hexachloroethane	<u>23.7</u>	
98-95-3----	Nitrobenzene	<u>42.4</u>	
87-68-3----	Hexachlorobutadiene	<u>4.9</u>	
88-06-2----	2,4,6-Trichlorophenol	<u>82.3</u>	
95-95-4----	2,4,5-Trichlorophenol	<u>75.3</u>	
121-14-2----	2,4-Dinitrotoluene	<u>23.0</u>	
118-74-1----	Hexachlorobenzene	<u>23.7</u>	
87-86-5----	Pentachlorophenol	<u>174</u>	
110-86-1----	Pyridine	<u>54.5</u>	
72-43-5----	Methoxychlor	<u>95.5</u>	
58-89-9----	gamma-BHC (Lindane)	<u>27.0</u>	

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0300**

Lab Name: ASC Contract: NEESA C6528MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3557  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8017  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 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		9.34	
106-44-5---	4-Methylphenol		16.8	
67-72-1----	Hexachloroethane		23.0	
98-95-3----	Nitrobenzene		40.8	
87-68-3----	Hexachlorobutadiene		14.0	
88-06-2----	2,4,6-Trichlorophenol		0	
95-95-4----	2,4,5-Trichlorophenol		0	
121-14-2---	2,4-Dinitrotoluene		21.2	
118-74-1---	Hexachlorobenzene		23.0	
87-86-5----	Pentachlorophenol		0	
110-86-1---	Pyridine		48.4	
72-43-5----	Methoxychlor		82.1	
58-89-9----	gamma-BHC (Lindane)		26.3	

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C 6528

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

Matrix: (soil/water) WATER Lab Sample ID: JM3557

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8018

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 400 (uL) Date Analyzed: 03/07/94

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>
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5----	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2---	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6529  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3558  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8019  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 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>
95-48-7----	2-Methylphenol	0.100	U
106-44-5----	4-Methylphenol	0.100	U
67-72-1----	Hexachloroethane	0.100	U
98-95-3----	Nitrobenzene	0.100	U
87-68-3----	Hexachlorobutadiene	0.100	U
88-06-2----	2,4,6-Trichlorophenol	0.100	U
95-95-4----	2,4,5-Trichlorophenol	0.100	U
121-14-2----	2,4-Dinitrotoluene	0.100	U
118-74-1----	Hexachlorobenzene	0.100	U
87-86-5----	Pentachlorophenol	0.100	U
110-86-1----	Pyridine	0.100	U
72-43-5----	Methoxychlor	0.100	U
58-89-9----	gamma-BHC (Lindane)	0.100	U

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0303**

Lab Name: ASC Contract: NEESA CLJ-DS-06  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3559  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8020  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/16/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 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
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5----	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2----	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1----	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1----	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07

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

Matrix: (soil/water) WATER Lab Sample ID: JM3560

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8021

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/08/94

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>
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5---	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2---	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07D  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3561  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8084  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/10/94  
 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)	<u>ug/L</u>
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5----	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2----	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1----	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1----	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-08

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

Matrix: (soil/water) WATER Lab Sample ID: JM3562

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8023

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/08/94

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
95-48-7----	2-Methylphenol	0.100	U
106-44-5----	4-Methylphenol	0.100	U
67-72-1----	Hexachloroethane	0.100	U
98-95-3----	Nitrobenzene	0.100	U
87-68-3----	Hexachlorobutadiene	0.100	U
88-06-2----	2,4,6-Trichlorophenol	0.100	U
95-95-4----	2,4,5-Trichlorophenol	0.100	U
121-14-2----	2,4-Dinitrotoluene	0.100	U
118-74-1---	Hexachlorobenzene	0.100	U
87-86-5----	Pentachlorophenol	0.100	U
110-86-1---	Pyridine	0.100	U
72-43-5----	Methoxychlor	0.100	U
58-89-9----	gamma-BHC (Lindane)	0.100	U

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: **0307**

Lab Name: ASC Contract: NEESA CLJ-DS-09  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3563  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8024  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 400 (uL) Date Analyzed: 03/08/94  
 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
95-48-7----	2-Methylphenol	0.100	U
106-44-5----	4-Methylphenol	0.100	U
67-72-1----	Hexachloroethane	0.100	U
98-95-3----	Nitrobenzene	0.100	U
87-68-3----	Hexachlorobutadiene	0.100	U
88-06-2----	2,4,6-Trichlorophenol	0.100	U
95-95-4----	2,4,5-Trichlorophenol	0.100	U
121-14-2----	2,4-Dinitrotoluene	0.100	U
118-74-1----	Hexachlorobenzene	0.100	U
87-86-5----	Pentachlorophenol	0.100	U
110-86-1----	Pyridine	0.100	U
72-43-5----	Methoxychlor	0.100	U
58-89-9----	gamma-BHC (Lindane)	0.100	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 cut
01	SBLK1	92.8	97.5	30.6	85.4	89.7	82.5			1
02	SBK1FS	83.9	65.5	86.4	81.0	82.5	75.6			0
03	C652RMS	85.8	68.3	94.6	76.5	82.5	82.5			0
04	C652RMSD	83.7	0	85.7	5.41	86.9	0			3
05	C6528	76.4	62.3	96.3	69.6	72.9	83.3			0
06	C6529	84.1	90.2	93.5	73.4	80.2	81.7			0
07	CLJ-DS-06	77.0	82.2	91.8	69.2	72.9	80.2			0
08	CLJ-DS-07	87.2	88.8	93.5	72.3	78.6	85.7			0
09	CLJ-DS-08D	77.7	64.2	125	67.8	63.1	82.5			0
10	CLJ-DS-08	67.4	73.9	75.6	59.1	62.8	72.2			0
11	CLJ-DS-09	89.0	88.2	85.3	80.0	86.5	81.0			0
12										
13										
14										
15										
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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 cut

SEMIVOLATILE MATRIX SPIKE, MATRIX SPIKE DUPLICATE RECOVERY

0309

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: C6528MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC =	QC LIMITS REC.
2,4,5-Trichlorophenol	101	0	75.3	74.7	30-130
2,4,6-Trichlorophenol	103	0	82.3	79.9	30-130
2,4-Dinitrotoluene	25.8	0	23.0	89.3	24-96
2-Methylphenol	26.3	0	25.0	95.2	30-130
4-Methylphenol	50.8	0	58.6	115	30-130
Hexachlorobenzene	29.3	0	23.7	81.0	30-130
Hexachlorobutadiene	27.5	0	14.9	54.2	30-130
Hexachloroethane	101	0	47.0	46.7	30-130
Nitrobenzene	50.8	0	42.9	84.5	30-130
Pentachlorophenol	102	0	174	171	9-103
Pyridine	73.3	0	54.5	74.4	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC =	% RPD =	QC LIMITS RPD REC.
2,4,5-Trichlorophenol	101	0	0	*	25 30-130
2,4,6-Trichlorophenol	103	0	0	*	25 30-130
2,4-Dinitrotoluene	25.8	21.2	82.2	8.14	25 24-96
2-Methylphenol	26.3	9.34	35.5	46.4	25 30-130
4-Methylphenol	50.8	16.8	33.1	111	25 30-130
Hexachlorobenzene	29.3	23.0	78.5	3.00	25 30-130
Hexachlorobutadiene	27.5	14.0	50.9	6.23	25 30-130
Hexachloroethane	101	42.0	41.6	11.2	25 30-130
Nitrobenzene	50.8	40.8	80.3	5.02	25 30-130
Pentachlorophenol	102	0	0	0	25 9-103
Pyridine	73.3	48.4	66.0	11.9	25 30-130

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

RPD: 2 out of 11 outside limits  
 Spike Recovery: 4 out of 22 outside limits

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

## SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_Blank Spike - EPA Sample No.: SB1K1BS

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
2,4,5-Trichlorophenol	101	0	67.6	67.1	30-130
2,4,6-Trichlorophenol	103	0	77.5	75.2	30-130
2,4-Dinitrotoluene	25.8	0	21.6	83.9	24-96
2-Methylphenol	26.3	0	23.9	91.0	30-130
4-Methylphenol	50.8	0	57.4	113.0	30-130
Hexachlorobenzene	29.3	0	28.7	98.1	30-130
Hexachlorobutadiene	27.5	0	20.2	73.5	30-130
Hexachloroethane	101	0	57.8	57.4	30-130
Nitrobenzene	50.8	0	45.2	89.1	30-130
Pentachlorophenol	112	0	139	136	9-103
Pyridine	73.3	0	54.3	74.1	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: \_\_\_\_\_

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO. **0311**

**SBIK1**

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.:         
 Lab File ID: D8014 Lab Sample ID: N7CA0179  
 Instrument ID: MSD-D Date Extracted: 3-02-94  
 Matrix: (soil/water) water/TCLP Date Analyzed: 3-07-94  
 Level: (low/med) Low Time Analyzed: 1901

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	C6529	JM3558	D8019	3-07-94
02	CLJ-DS-06	JM3559	D8020	3-07-94
03	CLJ-DS-07	JM3560	D8021	3-08-94
04	CLJ-DS-08	JM3562	D8023	3-08-94
05	CLJ-DS-09	JM3563	D8024	3-08-94
06	C6528	JM3557	D8018	3-07-94
07	C6528MS	JM3557	D8016	3-07-94
08	C6528MSD	JM3557	D8017	3-07-94
09	CLJ-DS-07D	JM3561	D8024	3-08-94
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11				
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COMMENTS:

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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: 3-07-94  
 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
365	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	11.6 ( 11.4 ) 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	SS+d20	SS+d20	D8007	3-07-94	1323
02	SS+d50	SS+d50	D8008	3-07-94	1417
03	SS+d80	SS+d80	D8009	3-07-94	1511
04	SS+d120	SS+d120	D8010	3-07-94	1604
05	SS+d160	SS+d160	D8011	3-07-94	1658
06					
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5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

0313

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D8012 DFTPP Injection Date: 3-07-94  
 Instrument ID: MSD-D DFTPP Injection Time: 1746

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	55.7
68	Less than 2.0% of mass 69	0.8 (1.2) 1
69	Mass 69 relative abundance	68.9
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	25.0 - 75.0% of mass 198	39.7
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	76.5
442	40.0 - 110.0% of mass 198	95.9
443	15.0 - 24.0% of mass 442	13.0 (18.7) 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	SS450	SS450	D8013	3-07-94	1807
02	SBIKI	N7C40179	D8014	3-07-94	1901
03	SBIKI BS	N7C40179	D8015	3-07-94	1945
04	C6578MS	JM3557	D8016	3-07-94	2029
05	C6578MSD	JM3557	D8017	3-07-94	2113
06	C6578	JM3557	D8018	3-07-94	2157
07	C6529	JM3558	D8019	3-07-94	2241
08	CLJ-DS-06	JM3559	D8020	3-07-94	2325
09	CLJ-DS-07	JM3560	D8021	3-08-94	0008
10	CLJ-DS-08	JM3562	D8023	3-08-94	0136
11	CLJ-DS-09	JM3563	D8024	3-08-94	0220
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5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

0314

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D 3080 DFTPP Injection Date: 3-10-94  
 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 ) 1
69	Mass 69 relative abundance	72.3
70	Less than 2.0% of mass 69	0.2 ( 0.3 ) 1
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	20.6
442	40.0 - 110.0% of mass 198	108.7
443	15.0 - 24.0% of mass 442	21.5 ( 19.7 ) 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	SS450	SS450	D 3081	3-10-94	1214
02	CLI-DR-9D	IM3361	D 3084	3-10-94	1457
03					
04					
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68  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0315

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 = D8011

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%RSD
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	5.76
2,2'-oxybis(1-Chloropropane)	3.31	3.23	3.18	3.06	2.95	3.14	4.52
4-Methylphenol	1.41	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	0.864	9.40
2-Nitrophenol	0.211	0.214	0.199	0.185	0.182	0.198	7.29
2,4-Dimethylphenol	0.401	0.399	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	0.878	0.784	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	0.388	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	0.867	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	14.2
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	6.78
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	0.350	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	0.263	0.271	0.241	0.236	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	* 0.376	0.363	0.322	0.282	0.264	0.325	17.0
Pentachlorophenol	*	0.079	0.089	0.091	0.112	0.093	15.3
Phenanthrene	* 1.16	1.02	0.896	0.759	0.735	0.913	19.5
Anthracene	* 1.04	1.07	0.927	0.818	0.781	0.946	16.3
Carbazole	0.967	0.981	0.831	0.731	0.736	0.844	11.3
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	0.870	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	0.945	0.968	1.06	7.87
Chrysene	* 1.10	1.10	0.948	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	1.70	1.63	1.49	1.76	13.0
Benzo(b)fluoranthene	* 1.20	1.06	1.09	0.899	0.922	1.03	12.0
Benzo(k)fluoranthene	* 1.31	1.26	1.12	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	* 0.565	0.739	0.663	0.668	0.674	0.663	9.38
Benzo(g,h,i)perylene	* 0.561	0.716	0.653	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.

78  
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: 03-07-94 Time: 18:07  
 Lab File ID: D8013 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	1.79	0.800	8.00	25.0
bis(2-Chloroethyl) ether	3.38	3.69	0.700	9.00	25.0
2-Chlorophenol	1.29	1.37	0.800	5.20	25.0
1,3-Dichlorobenzene	1.37	1.45	0.600	5.80	25.0
1,4-Dichlorobenzene	1.43	1.51	0.500	5.00	25.0
1,2-Dichlorobenzene	1.20	1.30	0.400	8.30	25.0
2-Methylphenol	1.13	1.22	0.700	7.80	25.0
2,2'-oxybis(1-Chloropropane)	3.14	3.37		7.30	
4-Methylphenol	1.34	1.47	0.600	9.80	25.0
N-Nitroso-di-n-propylamine	1.89	1.28	0.500	16.9	25.0
Hexachloroethane	0.652	0.703	0.300	7.80	25.0
Nitrobenzene	0.409	0.467	0.200	9.30	25.0
Isophorone	0.884	1.003	0.400	13.4	25.0
2-Nitrophenol	0.198	0.212	0.100	7.20	25.0
2,4-Dimethylphenol	0.366	0.408	0.200	11.7	25.0
bis(2-Chloroethoxy)methane	0.499	0.563	0.300	12.7	25.0
2,4-Dichlorophenol	0.269	0.291	0.200	8.00	25.0
1,2,4-Trichlorobenzene	0.294	0.319	0.200	8.60	25.0
Napthalene	0.891	1.003	0.700	17.6	25.0
4-Chloroaniline	0.471	0.551		16.9	
Hexachlorobutadiene	0.183	0.193		5.40	
4-Chloro-3-methylphenol	0.365	0.405	0.200	10.9	25.0
2-Methylnapthalene	0.572	0.650	0.400	13.7	25.0
Hexachlorocyclopentadiene	0.080	0.066		17.6	
2,4,6-Trichlorophenol	0.327	0.350	0.200	7.10	25.0
2,4,5-Trichlorophenol	0.315	0.377	0.200	19.9	25.0
2-Chloronapthalene	0.889	0.990	0.300	11.4	25.0
2-Nitroaniline	0.436	0.484		11.0	
Dimethylphthalate	1.28	1.48		15.5	
Acenaphthylene	1.42	1.60	1.200	12.3	25.0
2,6-Dinitrotoluene	0.326	0.376	0.200	15.1	25.0
3-Nitroaniline	0.273	0.278		1.70	
Acenaphthene	0.915	1.08	0.800	17.9	25.0
2,4-Dinitrophenol	0.071	0.053		24.2	
4-Nitrophenol	0.076	0.053		30.2	
Dibenzofuran	1.26	1.48	0.800	17.1	25.0
2,4-Dinitrotoluene	0.409	0.485	0.200	18.6	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: 12:14:00 18:07  
 Lab File ID: D8013 Init. Calib. Date(s): 02-10-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.61		16.5	
4-Chlorophenyl-phenylether	0.558	0.637	0.400	14.0	25.0
Fluorene	1.02	1.19	0.900	17.0	25.0
4-Nitroaniline	0.241	0.281		16.3	
4,6-Dinitro-2-methylphenol	0.113	0.136		20.4	
N-Nitrosodiphenylamine (1)	0.444	0.508		14.4	
4-Bromophenyl-phenylether	0.235	0.263	0.100	12.1	25.0
Hexachlorobenzene	0.325	0.361	0.100	10.8	25.0
Pentachlorophenol	0.093	0.077	0.050	16.8	25.0
Phenanthrene	0.913	1.03	0.700	12.5	25.0
Anthracene	0.446	1.09	0.700	15.0	25.0
Carbazole	0.846	0.999		17.6	
Di-n-butylphthalate	1.51	1.81		19.7	
Fluoranthene	0.993	1.18	0.600	18.4	25.0
Pyrene	1.14	1.29	0.600	13.7	25.0
Butylbenzylphthalate	0.638	0.778		22.0	
3,3'-Dichlorobenzidine	0.398	0.461		16.0	
Benzo(a)anthracene	1.06	1.16	0.800	9.50	25.0
Chrysene	1.01	1.09	0.700	8.30	25.0
bis(2-Ethylhexyl)phthalate	1.07	1.25		17.0	
Di-n-octylphthalate	1.76	1.93		10.1	
Benzo(b)fluoranthene	1.03	1.12	0.700	8.70	25.0
Benzo(k)fluoranthene	1.18	1.29	0.700	9.40	25.0
Benzo(a)pyrene	0.907	0.978	0.700	7.80	25.0
Indeno(1,2,3-cd)pyrene	0.823	0.896	0.500	8.90	25.0
Dibenz(a,h)anthracene	0.663	0.715	0.400	8.00	25.0
Benzo(g,h,i)perylene	0.650	0.690	0.500	6.20	25.0
Nitrobenzene-d5	0.413	0.457	0.200	10.5	25.0
2-Fluorobiphenyl	0.955	1.04	0.700	8.90	25.0
Terphenyl-d14	0.900	1.04	0.500	15.8	25.0
Phenol-d5	1.51	1.63	0.800	8.40	25.0
2-Fluorophenol	1.22	1.28	0.600	4.80	25.0
2,4,6-Tribromophenol	0.265	0.312		17.6	
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.

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: D9081 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	0.300	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	0.200	14.2	25.0
2,4-Dimethylphenol	0.366	0.404	0.200	11.0	25.0
bis(2-Chloroethoxy) methane	0.499	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
Naphthalene	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-Methylnaphthalene	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-Chloronaphthalene	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	0.365	0.200	11.9	25.0
3-Nitroaniline	0.273	0.297		8.70	
Acenaphthene	0.915	1.06	0.300	16.2	25.0
2,4-Dinitrophenol	0.071	0.088		3.3	
4-Nitrophenol	0.076	0.050		34.6	
Dibenzofuran	1.26	1.47	0.800	16.7	25.0
2,3-Dinitrotoluene	0.109	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	0.344	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	0.946	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
Tarphenyl-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.



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): D8013 Date Analyzed: 03-07-94  
 Instrument ID: MSD-D Time Analyzed: 1807

	IS1 (DCB) AREA ‡	RT ‡	IS2 (NPT) AREA ‡	RT ‡	IS3 (ANT) AREA ‡	RT	
12 HOUR STD	24848	10.49	93939	13.06	62429	16.98	
UPPER LIMIT	49696	10.49	187878	13.56	124858	17.48	
LOWER LIMIT	12424	9.99	46969	12.56	31214	16.48	
EPA SAMPLE NO.							
01	SBIK1	26675	10.49	92888	13.06	54344	17.00
02	SBIK1BS	32350	10.49	116292	13.06	73175	17.00
03	C6528MS	31717	10.49	116021	13.06	70767	16.98
04	C6528MSD	32502	10.49	115572	13.06	72420	17.00
05	C6528	30686	10.49	110838	13.06	67817	16.98
06	C6529	29447	10.49	106532	13.06	63181	17.00
07	CLJ-DS-06	31766	10.49	115655	13.06	645272572	17.00
08	CLJ-DS-07	30942	10.49	108156	13.06	67074	17.00
09	CLJ-DS-08	31480	10.49	110741	13.06	68237	17.00
10	CLJ-DS-09	29259	10.49	106329	13.06	66397	17.00
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.

3C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0322

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D8013 Date Analyzed: 03-07-94  
 Instrument ID: MCD-D Time Analyzed: 1807

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #	
	AREA #		AREA #		AREA #		
12 HOUR STD	107570	20.37	95743	26.75	99571	32.52	
UPPER LIMIT	215140	20.37	191386	26.75	199142	33.02	
LOWER LIMIT	53735	19.87	47971	26.25	49235	32.02	
EPA SAMPLE NO.							
01	SPIKI	83490	20.36	77018	26.73	73409	32.55
02	SPIKI BS	116419	20.38	100544	26.74	84895	32.55
03	CLJ-DS-MS	119538	20.36	104627	26.73	93463	32.54
04	CLJ-DS-MSD	117256	20.36	104334	26.74	90163	32.54
05	CLJ-DS	110778	20.36	101678	26.72	91620	32.54
06	CLJ-DS	101187	20.36	90177	26.74	88241	32.55
07	CLJ-DS-06	115655	20.36	104527	26.74	98495	32.53
08	CLJ-DS-07	107482	20.38	101619	26.74	96285	32.55
09	CLJ-DS-08	107435	20.36	102337	26.74	95403	32.53
10	CLJ-DS-09	104485	20.36	95778	26.74	91281	32.55
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.

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): D3081 Date Analyzed: 3-10-94  
 Instrument ID: MSD-D Time Analyzed: 1244

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT
12 HOUR STD	38947	10.50	109933	13.07	77172	17.00
UPPER LIMIT	57494	11.00	219846	13.57	154344	17.50
LOWER LIMIT	14473	10.00	54961	12.57	38586	16.50
EPA SAMPLE NO.						
01	CL-15-01D	10.49	102353	13.06	67142	16.98
02						
03						
04						
05						
06						
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.

3C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0324

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SOG No.: NA  
 Lab File ID (Standard): D3031 Date Analyzed: 3-10-94  
 Instrument ID: MSD-D Time Analyzed: 12:14

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	135319	30.88	108995	26.74	103478	32.51
UPPER LIMIT	270738	30.88	217990	27.24	206956	33.01
LOWER LIMIT	67634	19.88	54497	26.24	51739	32.01
EPA SAMPLE NO.						
01	CLI-D5070	30.88	101811	26.72	101665	32.51
02						
03						
04						
05						
06						
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.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

Matrix: (soil/water) TLF Lab Sample ID: N7V3336

Sample wt/vol: 300 (g/mL) ML Lab File ID: B2856

Level: (low/med) Med<sup>nd</sup> Low Date Received: 2/18/94

% Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25

Soil Extract Volume: - (uL) Soil Aliquot Volume: - (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		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	u
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	u
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
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		
56-23-5	-----Carbon Tetrachloride	125	u
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	u
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	u
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	u
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene		
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	u

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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: JM355715N7V333

Sample wt/vol: 200/400 (g/mL) ml Lab File ID: B2857

Level: (low/med) low Date Received: NA

% Moisture: not dec. NA Date Analyzed: 3-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

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

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	2130	
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	1680	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	1930	
107-06-2	1,2-Dichloroethane	1350	
78-93-3	2-Butanone	3260	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1940 1930	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	1780	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	17	
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	1820	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	1830	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1790	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6528MS

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: IM3557

Sample wt/vol: 1200 (g/mL) ml Lab File ID: B2858

Level: (low/med) low Date Received: \_\_\_\_\_

% Moisture: not dec. NA Date Analyzed: 3-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

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)	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	1790	
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	1600	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	1850	
107-06-2	1,2-Dichloroethane	1790	
78-93-3	2-Butanone	3220	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1870	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	1760	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	1730	
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	1760	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	1790	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1770	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0328  
EPA SAMPLE NO.

C6528MSD

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) water Lab Sample ID: JM3357  
 Sample wt/vol: .100 (g/mL) ml Lab File ID: B2859  
 Level: (low/med) low Date Received: \_\_\_\_\_  
 % Moisture: not dec. NA Date Analyzed: 3-04-94  
 GC Column: DB624 ID: 0.53 (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/L</u>
74-87-3	-----Chloromethane	NA	
74-83-9	-----Bromomethane	NA	
75-01-4	-----Vinyl Chloride	2111	
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	1710	
75-34-3	-----1,1-Dichloroethane	NA	
540-59-0	-----1,2-Dichloroethene (total)	NA	
67-66-3	-----Chloroform	1990	
107-06-2	-----1,2-Dichloroethane	1930	
78-93-3	-----2-Butanone	3770	
71-55-6	-----1,1,1-Trichloroethane	NA	
56-23-5	-----Carbon Tetrachloride	1950	
75-27-4	-----Bromodichloromethane	NA	
78-87-5	-----1,2-Dichloropropane	NA	
10061-01-5	-----cis-1,3-Dichloropropene	NA	
79-01-6	-----Trichloroethene	1800	
124-48-1	-----Dibromochloromethane	NA	
79-00-5	-----1,1,2-Trichloroethane	NA	
71-43-2	-----Benzene	1830	
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	1860	
79-34-5	-----1,1,2,2-Tetrachloroethane	NA	
108-88-3	-----Toluene	NA	
108-90-7	-----Chlorobenzene	1840	
100-41-4	-----Ethylbenzene	NA	
100-42-5	-----Styrene	NA	
1330-20-7	-----Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1800	



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0329  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: N/A

Matrix: (soil/water) TCU Lab Sample ID: JM3557

Sample wt/vol: 300 (g/mL) mL Lab File ID: B2860

Level: (low/med) Low Date Received: 02-18-94

Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB621 ID: 0.53 (mm) Dilution Factor: 25

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

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

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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

C6529

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) \_\_\_\_\_ Lab Sample ID: JM3558  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B2861  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) 49/L Q

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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLJ-DS-06

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) TCU Lab Sample ID: JM3559  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B9862  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

74-87-3	-----Chloromethane		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	u
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	u
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
67-66-3	-----Chloroform	125	u
107-06-2	-----1,2-Dichloroethane	125	
78-93-3	-----2-Butanone	250	u
71-55-6	-----1,1,1-Trichloroethane		
56-23-5	-----Carbon Tetrachloride	125	u
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	u
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	u
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	u
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene	125	u
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	u

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DS-07

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: JM3560  
 Sample wt/vol: 300 (g/mL) m Lab File ID: B2863  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L 0

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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DS-07D

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) TCU Lab Sample ID: JM3561  
 Sample wt/vol: 300 (g/mL) mL Lab File ID: B2864  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

74-87-3	-----Chloromethane		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	U
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	U
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
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		
56-23-5	-----Carbon Tetrachloride	125	U
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	U
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	U
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	U
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene	125	U
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DS-08

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

Matrix: (soil/water) TCF Lab Sample ID: JM3562

Sample wt/vol: 300 (g/mL) ML Lab File ID: B2865

Level: (low/med) Low Date Received: 02-18-94

% Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25

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

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

0335

EPA SAMPLE NO.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) \_\_\_\_\_ Lab Sample ID: JM3563  
 Sample wt/vol: 300 (g/mL) \_\_\_\_\_ Lab File ID: B2866  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

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

2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0336

Lab Name: ASC Contract: NEESA  
 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	VBLK01	93.2	89.6	87.3		0
02	VBLK01BS	92.1	90.3	85.7		0
03	CL528MS	100	97.0	97.5		0
04	CL528MSD	96.2	93.3	87.3		0
05	CL528	95.1	92.3	93.7		0
06	CL529	95.5	93.7	92.3		0
07	CL1-DS-06	90.4	88.6	89.0		0
08	CL1-DS-07	86.9 *	85.6 *	86.1		2
09	CL1-DS-07D	95.2	94.2	95.3		0
10	CL1-DS-08	91.6	88.4	90.8		0
11	CL1-DS-09	88.8	85.0 *	86.6		1
12						
13						
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30						

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 . 0337

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

Matrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	64.0	64.0	61-145
Trichloroethene	100	0	70.3	70.3 *	71-120
Benzene	100	0	69.3	69.3 *	76-127
Chlorobenzene	100	0	71.6	71.6 *	75-130
1,2-Dichloroethane	100	0	71.5	71.5	30-130
1,4-dichlorobenzene	100	0	70.9	70.9	30-130
Carbon Tetrachloride	100	0	70.5	70.5	30-130
Chloroform	100	0	73.9	73.9	30-130
2-Butanone	200	0	129	64.3	30-130
Tetrachloroethene	100	0	70.5	70.5	30-130
Vinyl Chloride	100	0	79.5	79.5	30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	100	68.3	68.3	6.45	14 61-145
Trichloroethene	100	72.0	72.0	2.35	14 71-120
Benzene	100	73.0	73.0 *	5.30	11 76-127
Chlorobenzene	100	73.5	73.5 *	2.60	13 75-130
1,2-Dichloroethane	100	77.1	77.1	7.50	20 30-130
1,4-dichlorobenzene	100	71.8	71.8	1.29	20 30-130
Carbon Tetrachloride	100	78.0	78.0	4.29	20 30-130
Chloroform	100	79.8	79.8	7.59	20 30-130
2-Butanone	200	127	63.4	1.47 <sup>1.56</sup>	20 30-130
Tetrachloroethene	100	74.2	74.2	5.13 <sup>5.13</sup>	20 30-130
Vinyl Chloride	100	84.6	84.6	6.22	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: 5 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.: VBLK01BS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	67.4	67.4	61-145
Trichloroethene	100	0	71.2	71.2	71-120
Benzene	100	0	71.4	71.4*	76-127
Chlorobenzene	100	0	73.2	73.2*	75-130
1,2-Dichloroethane	100	0	74.0	74.0	30-130
1,4-dichlorobenzene	100	0	71.7	71.7	30-130
Carbon Tetrachloride	100	0	77.5	77.5	30-130
Chloroform	100	0	77.0	77.0	30-130
Acetone	200	0	130	65.2	30-130
Tetrachloroethene	100	0	72.8	72.8	30-130
Vinyl Chloride	100	0	85.1	85.1	30-130

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

\* Values outside of QC limits

Spike Recovery: 2 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: B2856 Lab Sample ID: N7V3326VS  
 Date Analyzed: 3-4-94 Time Analyzed: 10:39  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/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	C6528MS	JM 3557VS	B2858	12:03
02	C6528MSD	JM 3557VR	B2859	12:39
03	C6528	JM 3557V	B2860	13:15
04	C6529	JM 3558V	B2861	13:50
05	CL1-DS-06	JM 3559V	B2862	14:26
06	CL1-DS-07	JM 3560V	B2863	15:02
07	CL1-DS-07D	JM 3561V	B2864	15:38
08	CL1-DS-08	JM 3562V	B2865	16:15
09	CL1-DS-09	JM 3563V	B2866	16:50
10				
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COMMENTS:

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5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B2816 BFB Injection Date: 2-21-94  
 Instrument ID: MSD-B BFB Injection Time: 09:49  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.44
75	30.0 - 66.0% of mass 95	43.24
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(0.00) 1
174	50.0 - 120.0% of mass 95	71.40
175	4.0 - 9.0 % of mass 174	(7.10) 1
176	93.0 - 101.0% of mass 174	(98.77) 1
177	5.0 - 9.0% of mass 176	(6.25) 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	VSTD010	VSTD010	B2817	2-21-94	10:13
02	VSTD020	VSTD020	B2818	2-21-94	10:55
03	VSTD050	VSTD050	B2819	2-21-94	11:30
04	VSTD100	VSTD100	B2820	2-21-94	12:06
05	VSTD200	VSTD200	B2821	2-21-94	12:42
06					
07					
08					
09					
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21					
22					

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B2853 BFB Injection Date: 3-4-94  
 Instrument ID: MSD-B BFB Injection Time: 08:39  
 GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.23
75	30.0 - 66.0% of mass 95	44.92
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	(0.00) 1
174	50.0 - 120.0% of mass 95	68.11
175	4.0 - 9.0 % of mass 174	(7.17) 1
176	93.0 - 101.0% of mass 174	(97.99) 1
177	5.0 - 9.0% of mass 176	(8.12) 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	VBK01	N7V3336V	B2856	3-4-94	10:39
02	VBK01BS	N7V3336VS	B2857	3-4-94	11:27
03	C6528MS	JM3557VS	B2858	3-4-94	12:03
04	C6528MSD	JM3557V	B2859	3-4-94	12:39
05	C6528	JM3557V	B2860	3-4-94	13:15
06	C6529	JM3558V	B2861	3-4-94	13:50
07	CL1-DS-06	JM3559V	B2862	3-4-94	14:26
08	CL1-DS-07	JM3560V	B2863	3-4-94	15:02
09	CL1-DS-07D	JM3561V	B2864	3-4-94	15:38
10	CL1-DS-08	JM3562V	B2865	3-4-94	16:15
11	CL1-DS-09	JM3563V	B2866	3-4-94	16:50
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SA  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.:       
 Instrument ID: MSD-B Calibration Date(s): 02-21-94 02-21-94  
 Heated Purge: (Y/N)      Calibration Times: 1013 1242  
 GC Column: DB62A 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	0.449	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	3.32
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	19.0
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	0.665	0.660	0.607	0.646	3.95
1,2-Dichloropropane	0.423	0.453	0.441	0.441	0.413	0.435	3.74
cis-1,3-Dichloropropene	0.632	0.648	0.651	0.650	0.618	0.620	2.27
Trichloroethene	0.457	0.457	0.465	0.444	0.398	0.446	6.31
Dibromochloromethane	0.635	0.660	0.665	0.664	0.607	0.646	3.95
1,1,2-Trichloroethane	0.350	0.362	0.359	0.353	0.318	0.342	5.11
Benzene	0.986	1.01	0.979	0.943	0.851	0.955	6.52
trans-1,3-Dichloropropene	0.447	0.456	0.473	0.441	0.437	0.456	3.25
Bromoform	0.481	0.58	0.517	0.512	0.463	0.498	5.01
4-Methyl-2-Pentanone	0.138	0.136	0.131	0.146	0.132	0.136	4.47
2-Hexanone	0	0.309	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	0.829	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	6.05
Styrene	0.979	1.01	0.993	0.936	0.823	0.943	7.07
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	0.959	0.996	0.983	0.971	0.917	0.965	3.15
1,2-Dichloroethane-d4	1.76	1.87	1.81	1.83	1.79	1.81	2.27
1,2-cis-Dichloroethylene	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
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7A  
VOLATILE CONTINUING CALIBRATION CHECK

0343

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-B Calibration Date: 3-04-94 Time: 0902  
 Lab File ID: B2854 Init. Calib. Date(s): 2-22-94 2-22-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 1055 1242  
 GC Column: PB-624 ID: 0.53 ~~2.50~~ (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.4792	.3782		21.1	
Bromomethane	.8986	.7402	0.100	17.6	25.0
Vinyl Chloride	1.5950	1.2007	0.100	13.9	25.0
Chloroethane	.6930	.6400		7.64	
Methylene Chloride	1.3747	1.6015		16.5	
Acetone	.4549	.5955		30.9	
Carbon Disulfide	4.1413	4.5022		8.71	
1,1-Dichloroethene	1.333	1.554	0.100	16.5	25.0
1,1-Dichloroethane	2.787	3.204	0.200	15.0	25.0
1,2-Dichloroethene (total)	1.376	1.572		14.2	
Chloroform	2.849	3.314	0.200	16.3	25.0
1,2-Dichloroethane	2.061	2.419	0.100	17.4	25.0
2-Butanone	.0253	.0452		28.6	
1,1,1-Trichloroethane	.4747	.5466	0.100	15.2	25.0
Carbon Tetrachloride	.4691	.5615	0.100	19.7	25.0
Bromodichloromethane	.6459	.7658	0.200	18.6	25.0
1,2-Dichloropropane	.4347	.5061		16.4	
cis-1,3-Dichloropropene	.6399	.7542	0.200	17.9	25.0
Trichloroethene	.4462	.586	0.300	20.7	25.0
Dibromochloromethane	.5667	.6941	0.100	23.0	25.0
1,1,2-Trichloroethane	.3484	.4217	0.100	21.0	25.0
Benzene	.9546	1.128	0.500	18.2	25.0
trans-1,3-Dichloropropene	.4564	.5458	0.100	19.6	25.0
Bromoform	.4982	.6145	0.100	23.3	25.0
4-Methyl-2-Pentanone	.1265	.1826		33.8	
2-Hexanone	.3177	.4475		41.5	
Tetrachloroethene	.5511	.6779	0.200	23.0	25.0
1,1,2,2-Tetrachloroethane	.6974	.8830	0.500	26.6	25.0
Toluene	.8002	.9373	0.400	17.1	25.0
Chlorobenzene	1.026	1.212	0.500	12.6	25.0
Ethylbenzene	.4734	.5651	0.100	19.4	25.0
Styrene	.4483	1.1279	0.300	18.9	25.0
Xylene (total)	1.177	1.376	0.300	16.9	25.0
Toluene-d3	1.253	1.402		11.9	
Bromofluorobenzene	.9655	1.089	0.200	12.8	25.0
1,2-Dichloroethane-d4	1.814	1.984		9.32	

All other compounds must meet a minimum RRF of 0.010.

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): B285A Date Analyzed: 03-04-94  
 Instrument ID: MSD-B Time Analyzed: 0902  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) \_\_\_\_\_

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
12 HOUR STD	32513	9.61	140756	11.52	111542	17.52
UPPER LIMIT	65026	10.11	281512	12.02	223084	18.02
LOWER LIMIT	16256	9.11	70378	11.02	55771	17.02
EPA SAMPLE NO.						
01 VBLK01	32893	9.85	141751	11.76	114526	17.7A
02 VBLK01BS	31450	9.60	138510	11.51	109271	17.51
03 C652BMS	31151	9.53	134232	11.45	107413	17.4B
04 C652BMSD	30049	9.54	133455	11.45	106470	17.47
05 C652A	28341	9.52	126133	11.46	104523	17.47
06 C6529	27154	9.54	120054	11.45	99190	17.46
07 CLJ-DS-06	29935	9.54	128830	11.45	104809	17.47
08 CLJ-DS-07	31070	9.53	136386	11.46	113557	17.47
09 CLJ-DS-07D	27463	9.54	117331	11.46	100565	17.47
10 CLJ-DS-08	30185	9.52	131656	11.44	110193	17.47
11 CLJ-DS-09	30671	9.52	133945	11.45	109514	17.47
12						
13						
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21						
22						

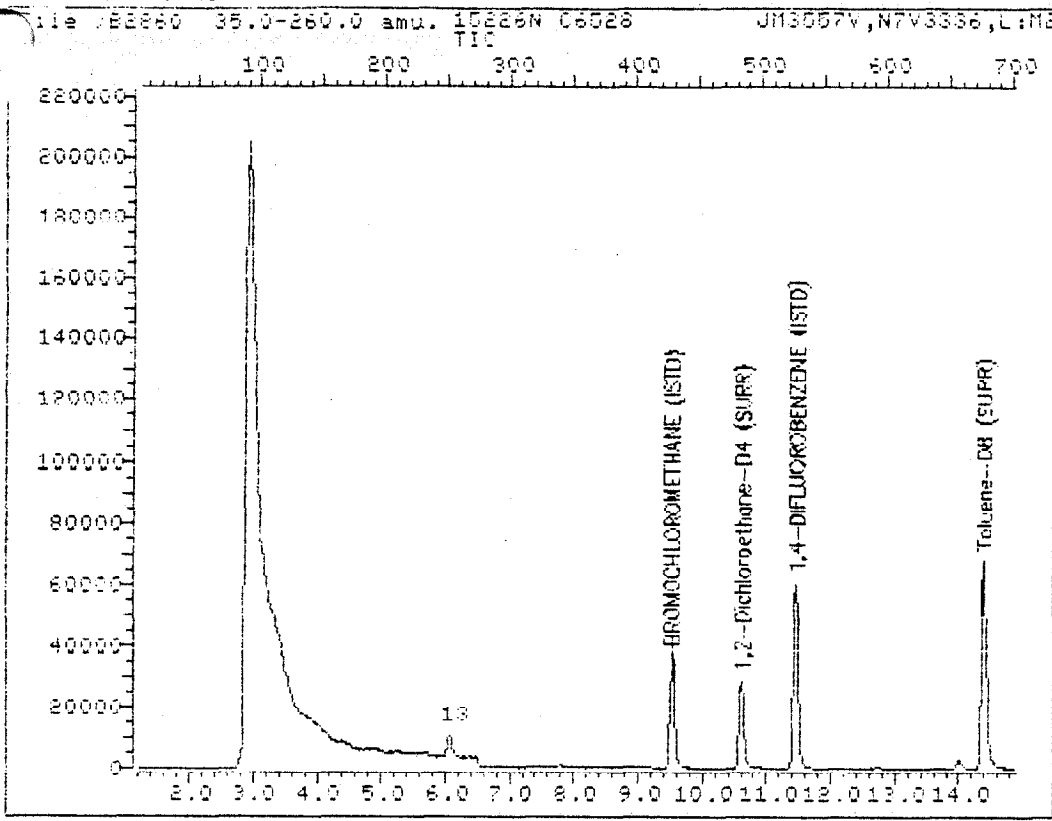
IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

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

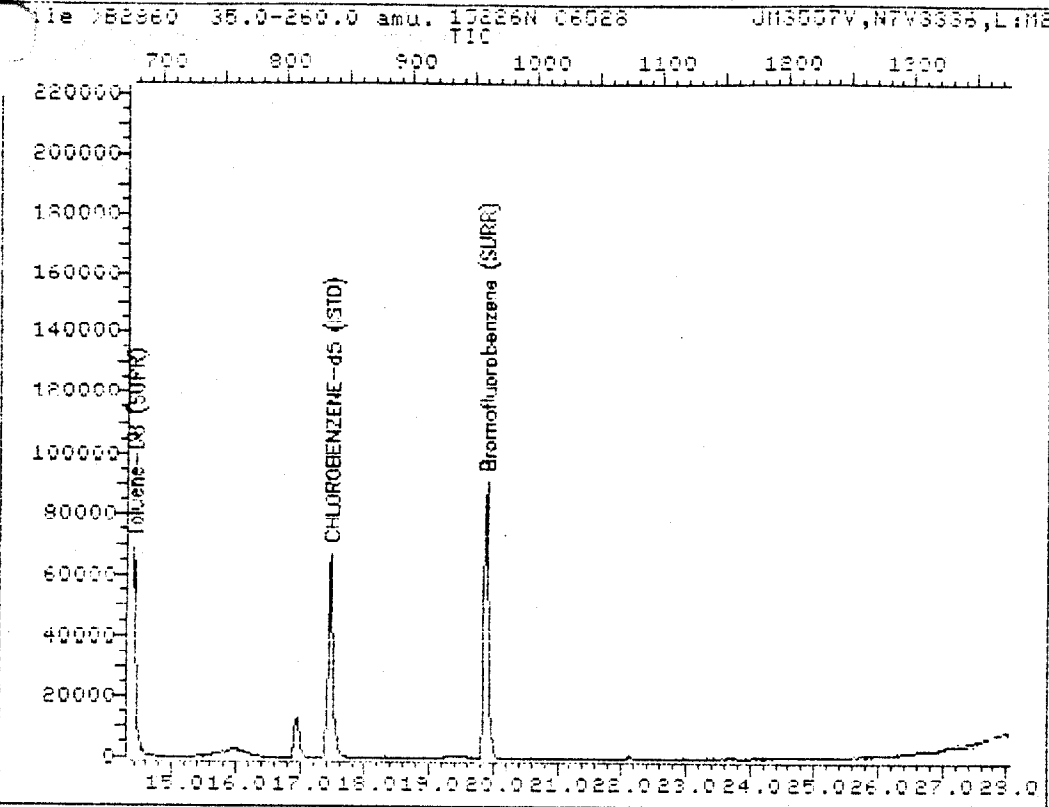


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Name: 15226N 06528  
Misc: JM3557V,N7V3336,L:M2,.200,5:1,

Id File: IR304A::D4  
Title: MSD-8 DB624 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Operator ID: USERTSC  
Quant Time: 940304 13:44  
Injected at: 940304 13:15

## TOTAL ION CHROMATOGRAM



Data File: &gt;B2860::D6

Quant Output File: ^B2860::QT

Name: 15226N 06528

Misc: JM3557U,N7V3336,L:M2,.200,5:1,

Id File: IP304A::D4

Title: MSD-B DR624 0.53mmX25m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 13:44

Injected at: 940304 13:15

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901C

0347

QUANT REPORT

Page 1

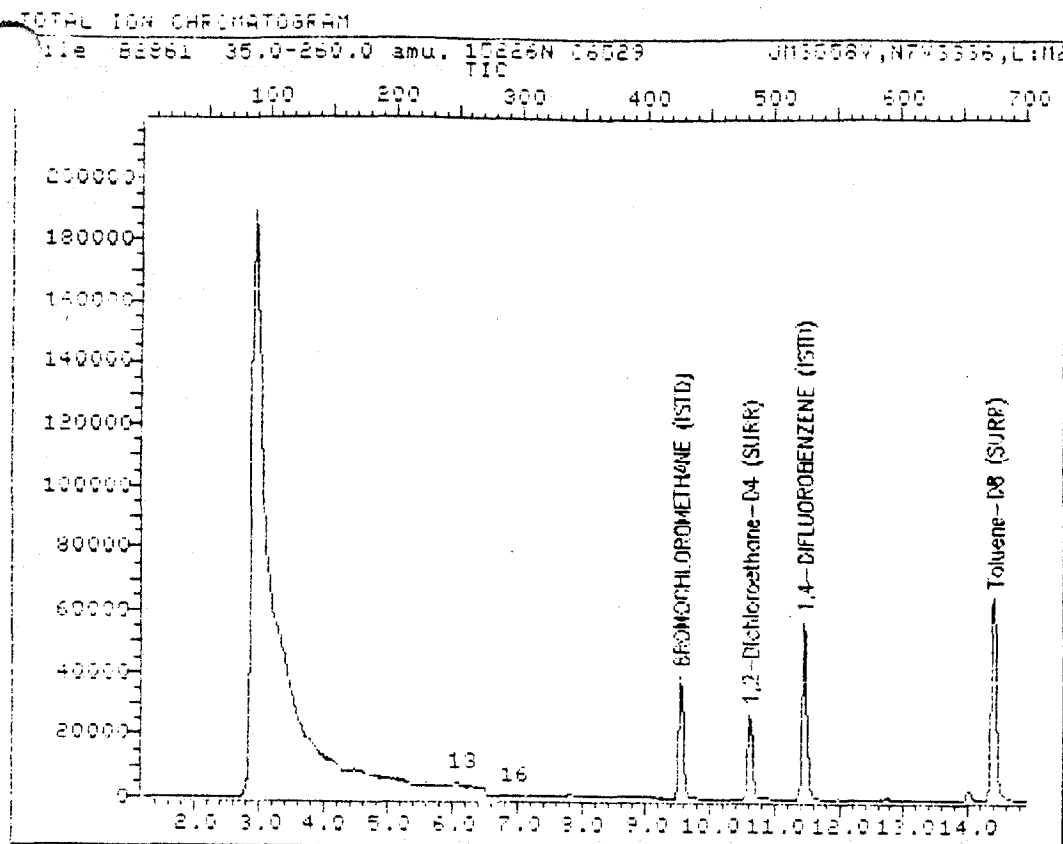
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Data File: >B2860::D6  
Name: 15226N D6528  
Misc: JM3567U,NZU3336,L:M2,,200,5:1,

Quant Rev: 7      Quant Time: 940304 13:44  
Injected at: 940304 13:15  
Dilution Factor: 1.00000

ID File: IB304A::D4  
Title: MSD-R DB624 0.53mmX25m UOLATHIES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	-	28341	50.00	ug/l	94
13) Acetone	6.07	43.0	-	24383	74.11	ug/l	82
26) 1,2-Dichloroethane-D4 (SUFR)	10.62	65.0	-	52655	46.83	ug/l	84
29) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	-	126133	50.00	ug/l	89
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	-	104523	50.00	ug/l	91
49) Toluene-D8 (SUFR)	14.78	98.0	-	139341	47.56	ug/l	82
60) Bromofluorobenzene (SUFR)	19.89	95.0	-	105054	46.14	ug/l	89

\* Compound is ISTD



Data File: >B2861::D4 Quant Output File: B2861::QT  
 Name: 18204N 06529  
 Misc: UM3558V, N703336, L:112, .200, 5:1,

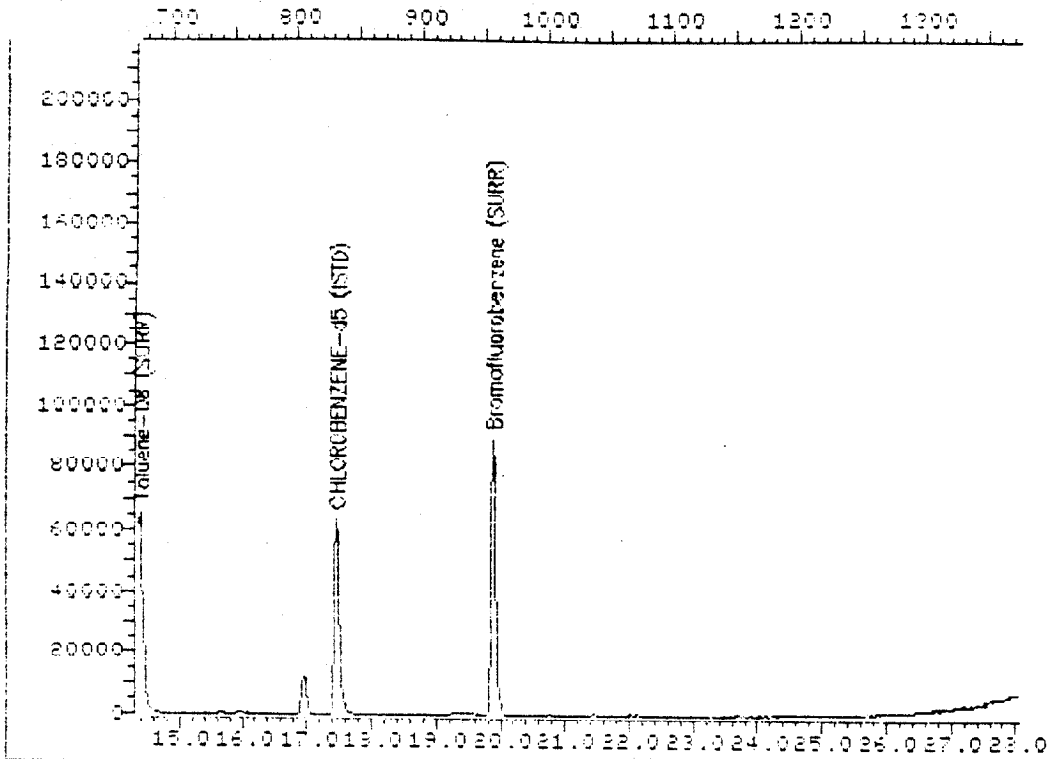
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 Title: MSD-B DR624 0.53mmX25m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Operator ID: USERTSC  
 Quant Time: 940304 14:20  
 Injected at: 940304 13:50

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File: B2861 35.0-250.0 amu. 15225N 06529 JMS555V,N703336,L:MS  
TIC



Data File: >B2861::D4

Quant Output File: ^B2861::QT

Name: 15225N 06529

Misc: JM555V,N703336,L:M2,.200,5:1,

Id File: IB304A::D4

Title: MSD-8 DB424 0.53mmX75m VOLATILES BY GC/MS.

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 14:20

Injected at: 940304 13:50

Page 2 of 2

## QUANT REPORT

Page 1

Operator ID: USERTSC      Quant Rev: 7      Quant Time: 940304 14:20  
 Output File: ^B2861::QT      Injected at: 940304 13:50  
 Data File: ^B2861::D6      Dilution Factor: 1.00000  
 Name: 15326N D6529  
 Misc: JM355RU,N7U3336,L:M2,.200,5:1,

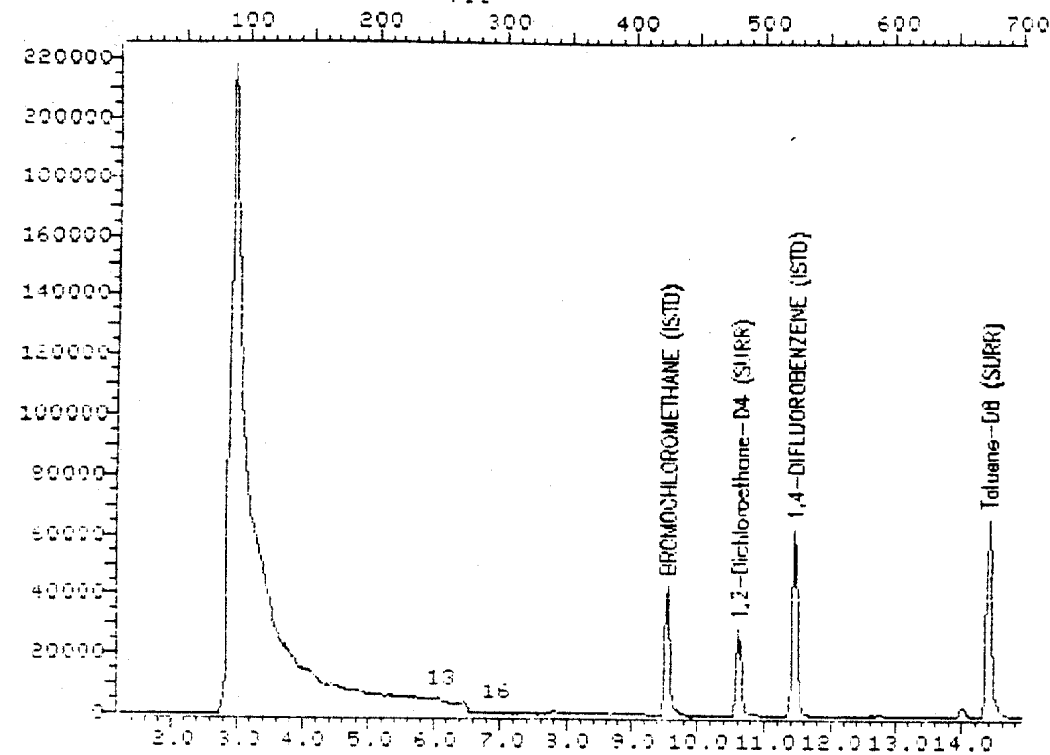
ID File: IB304A::D4  
 Title: MSD-R DB624 0.53mmX25m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.54	128.0		-27154	50.00	ug/l	93
13) Acetone	-6.06	43.0		4679	14.84	ug/l	82
16) Methylene chloride	-6.86	84.0		1379	1.59	ug/l	76
24) 1,2-Dichloroethane-D4 (SURR)	10.41	65.0		50249	46.65	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0		-120054	50.00	ug/l	89
48) *CHLOROBENZENE-P5 (ISTD)	17.46	117.0		-99190	50.00	ug/l	90
49) Toluene-D8 (SURR)	14.40	92.0		132746	47.75	ug/l	87
60) Bromo-fluorobenzene (SURR)	19.78	95.0		101196	46.83	ug/l	98

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM

File: ^B2862 35.0-260.0 amu. 15226N CLJ-06-06 JM3559V,N7V3336,L:MS  
TIC



Data File: ^B2862::06

Quant Output File: ^B2862::QT

Name: 15226N CLJ-06-06

Misc: JM3559V,N7V3336,L:M2,.200,5:1,

Id File: 18304A::04

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

Last Calibration: 940304 10:00

Operator ID: USERTSC

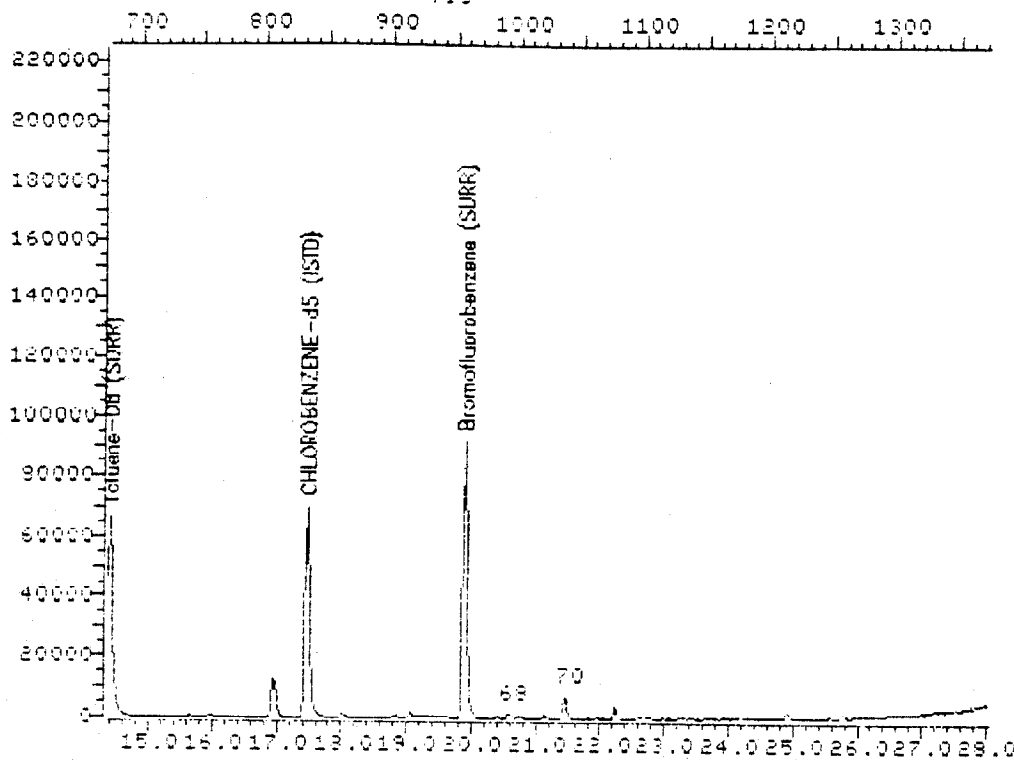
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Injected at: 940304 14:26

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## TOTAL ION CHROMATOGRAM

File: 82862 35.0-250.0 amu. 15226N CLJ-05-06 JM3559V,N7U3336,L:M2  
TIC



Data File: ^82862::D4

Quant Output File: ^82862::QT

Name: 15226N CLJ-05-06

Misc: JM3559V,N7U3336,L:M2,.200,5:1,

Id File: IB304A::D4

Title: MSD-B DB604 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 14:56

Injected at: 940304 14:26



QUANT REPORT

Operator ID: USERTSC                      Quant Rev: 7                      Quant Time: 940304 14:56  
Output File: ^B2862::QT                      Injected at: 940304 14:26  
Data File: >B2862::D6                      Dilution Factor: 1.00000  
Name: 15226N CIJ-DS-06  
Misc: JM3559U,N7U3336,L:M2,.200,5:1,

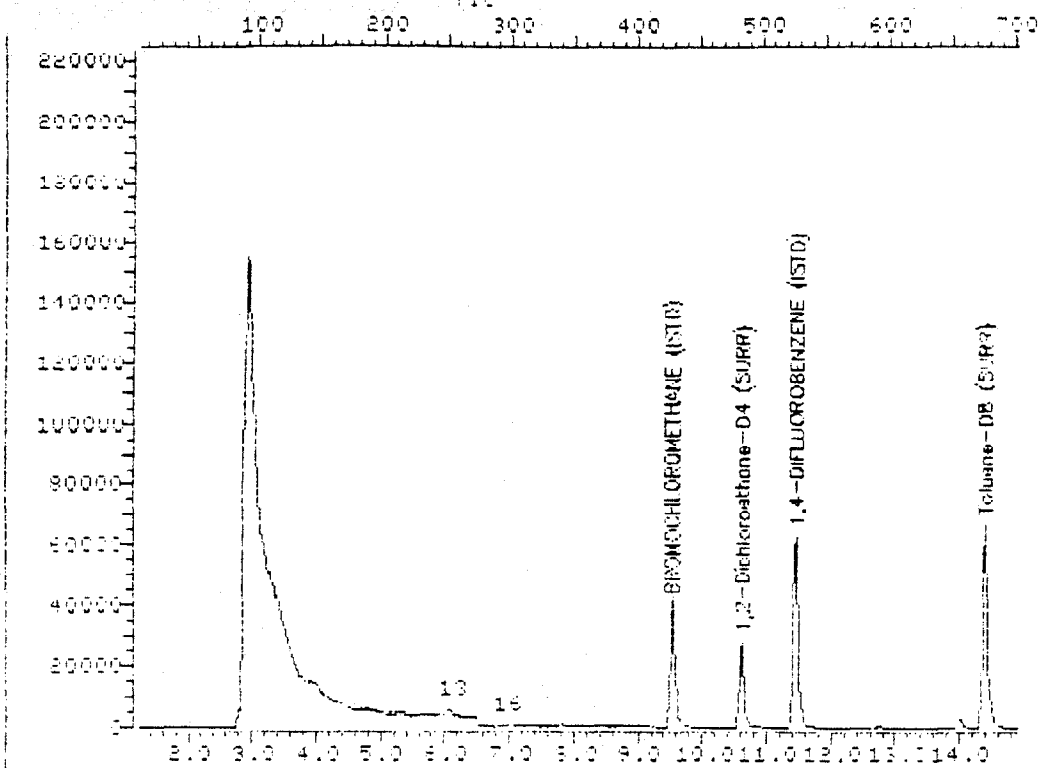
ID File: IB704A::D4  
Title: MSD-R DB624 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.54	128.0	-29935	50.00	ug/l	96
13) Acetone	6.85	43.0	2347	6.75	ug/l	84
16) Methylene chloride	6.88	84.0	1392	1.35	ug/l	79
26) 1,2-Dichloroethane-D4 (SUPP)	10.61	45.0	52850	44.50	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	-129830	50.00	ug/l	90
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	-109949	50.00	ug/l	92
49) Toluene-D8 (SUPP)	14.78	98.0	139276	45.22	ug/l	82
60) Bromofluorobenzene (SUPP)	19.89	95.0	106829	44.31	ug/l	97
68) 1,3,5-Trimethylbenzene	20.57	105.0	4719	1.29	ug/l	50
70) 1,2,4-Trimethylbenzene	21.45	105.0	10588	2.80	ug/l	75

Compound is ISTD

## TOTAL ION CHROMATOGRAM

File: 82963 35.0-250.0 amu. 15226N CLJ-05-07 JM3560U,N7-3336,L:MS



Data File: &gt;82963::D4

Quant Output File: &gt;82963::QT

Name: 15226N CLJ-05-07

Misc: JM3560U,N703336,L:MS,.200,5:1,

Id File: 18704A::D4

Title: MSD-B DP424 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSD

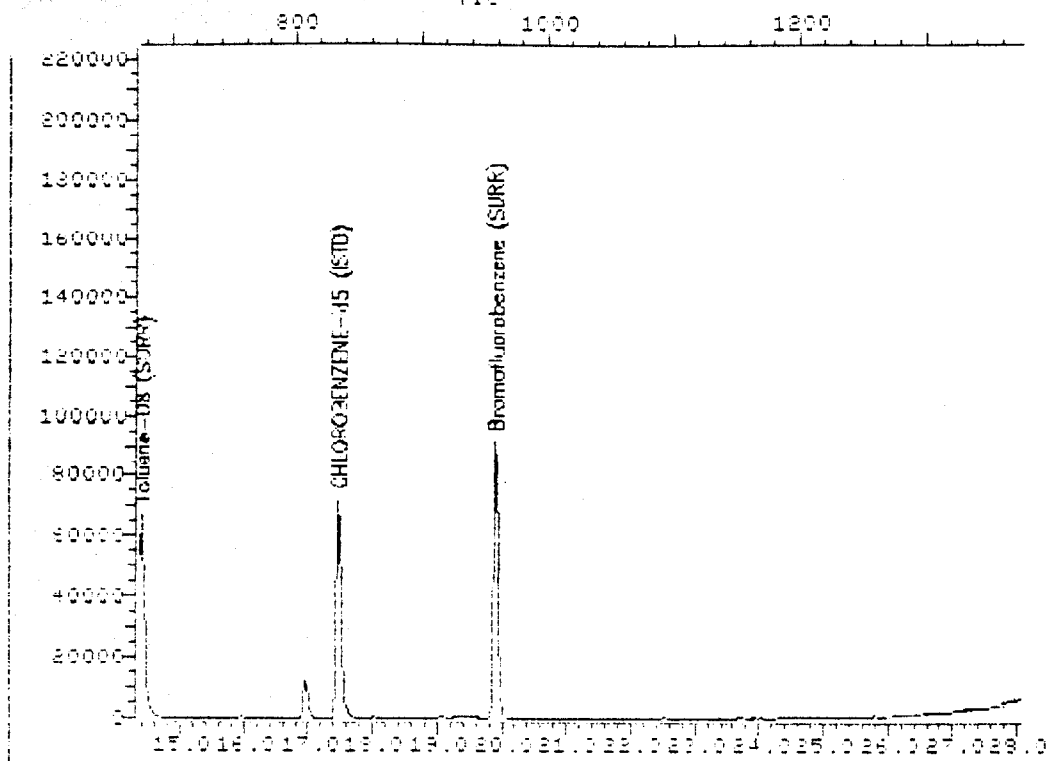
Quant Time: 940304 15:32

Injected at: 940304 15:02

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File: 082863 35.0-260.0 amu. 15226N CLJ-05-07 JN3560V,N703336,L1M8  
TIC



Data File: 082863::06

Quant Output File: 082863::QT

Name: 15226N CLJ-05-07

Mix: 1M3560V,N703336.L:M2,.200,5:1,

Id File: IR304A::04

Title: MSD-R 09624 0.63mmX75m HP1 AT 55 BY GC/MS

Last Calibration: 940304 10:00

Operator ID: HRFRTSC

Quant Time: 940304 15:32

Injected at: 940304 15:02

Page 2 of 2

9015  
0356

QUANT REPORT

Operator ID: USERTSC                      Quant Rev: 7                      Quant Time: 940304 15:32  
Output File: 082863::QT                      Injected at: 940304 15:02  
Data File: 082863::D6                      Dilution Factor: 1.00000  
Name: 15226N CLJ-09-07  
Misc: JM3560U, NPH3336, L:M2, .200, 5:1,

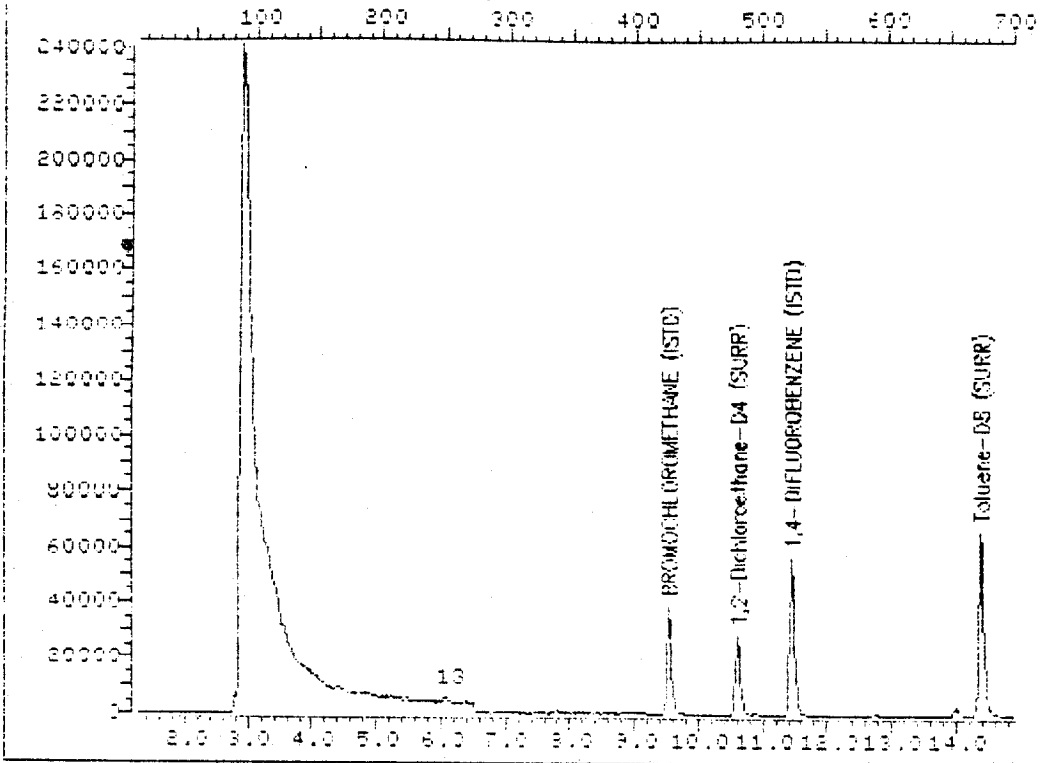
IC File: IB304A::D4  
Title: MSD-8 DB624 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.53	128.0		31070	50.00	ug/l	92
13) Acetone	6.07	43.0		4575	12.68	ug/l	89
16) Methylene chloride	6.89	84.0		1164	1.17	ug/l	95
24) 1,2-Dichloroethane-D4 (SUPP)	10.42	65.0		53092	43.07	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0		136386	50.00	ug/l	80
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0		113557	50.00	ug/l	91
49) Toluene-C8 (SUPP)	14.79	98.0		138364	43.47	ug/l	82
60) Bromofluorobenzene (SUPP)	19.89	96.0		105857	42.79	ug/l	96

\* Compound is ISTD

TOTAL ION CHROMATOGRAM

File: B2864 35.0-250.0 amu. 15226N CLU-06-070 JM3561V,N7V3336,L:MS  
TIC

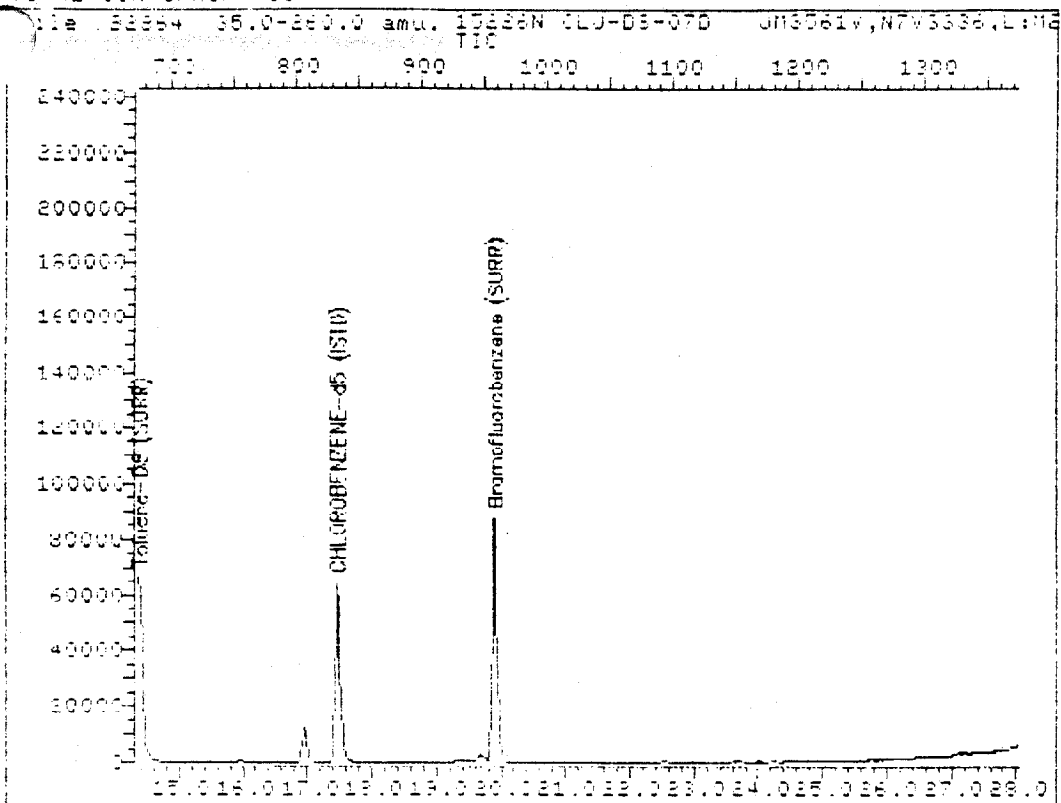


Data File: >B2864::D6 Quant Output File: ^B2864::QT  
Name: 15226N CLU-06-070  
Misc: JM3561V,N7V3336,L:MS,.200,5:1,

Id File: IB304A::D4  
Title: MS0-B DP624 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Operator ID: USERTSC  
Quant Time: 940304 16:08  
Injected at: 940304 15:38

## TOTAL ION CHROMATOGRAM



Data File: >082864::04 Quant Output File: 082864::QT  
 Name: 15328N CLJ-05-070  
 Misc: JM3561v,N7V3336,L:MS,.200,5:1,

14 File: 187014::04  
 Title: MS0-B DP424 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Operator ID: USERTSC  
 Quant Time: 940304 16:08  
 Injected at: 940304 15:38

Page 2 of 2

QUANT REPORT

Operator ID: USERTSC  
Output File: \B2264:QT  
Data File: \B2264:D4  
Name: 15226N CLJ-06-07D  
Mtr: JM3561U, NPH3336, L:MC, 1.000, 5:1,

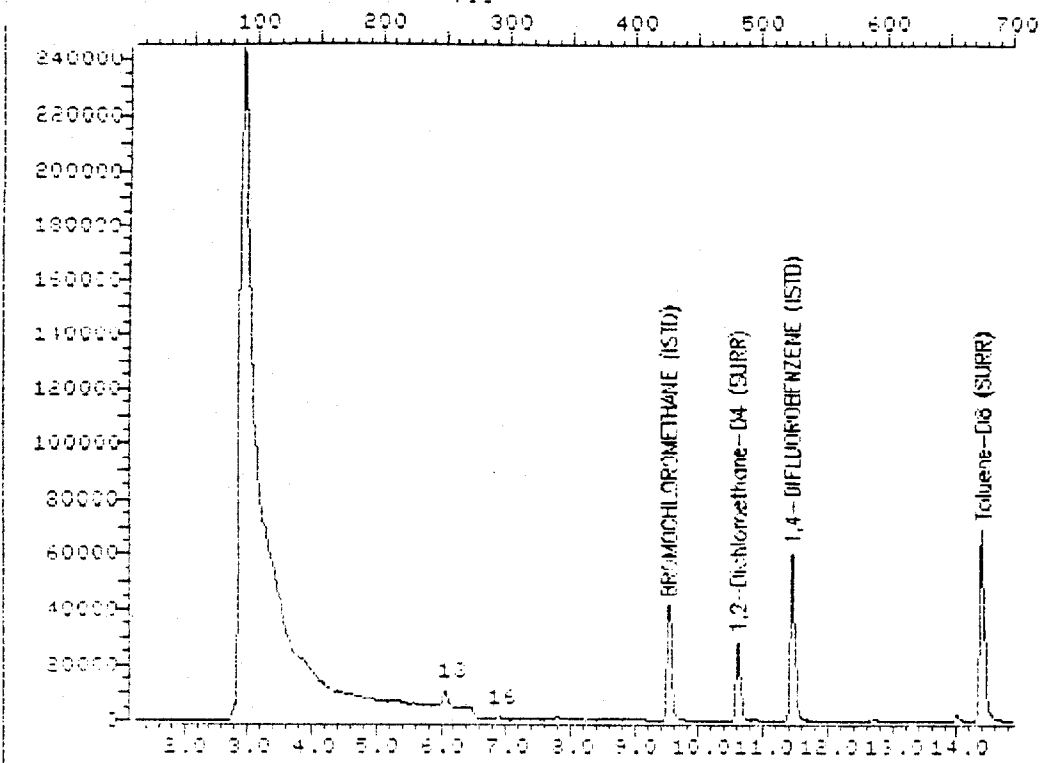
Quant Rev: 7      Quant Time: 940304 16:09  
Injected at: 940304 16:38  
Dilution Factor: 1.00000

ID File: IP304A::D4  
Title: MCD-9    DR624    0.53mmX75m    VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
11) *BROMOCHLOROMETHANE (ISTD)	9.54	129.0	27463	50.00	ug/l	96
17) Acetone	6.07	43.0	4276	13.29	ug/l	80
26) 1,2-Dichloroethane-D4 (SUPR)	10.62	65.0	51894	47.63	ug/l	89
38) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	117331	50.00	ug/l	86
48) *CHLOROBENZENE-D5 (ISTD)	17.47	117.0	109565	50.00	ug/l	94
59) Toluene-09 (SUPR)	14.79	99.0	134163	47.59	ug/l	83
60) Bromofluorobenzene (SUPR)	19.91	99.0	103170	47.09	ug/l	91

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM

File B2865 35.0-250.0 amu. 15226N CLJ-DS-08 JM3562V,N7V3336,L:MS  
TIC

Data File: &gt;B2865::D6

Quant Output File: ^B2865::QT

Name: 15226N CLJ-DS-08

Misc: JM3562V,N7V3336,L:M2,.200,5:1,

Id File: IB704A::D4

Title: MSD-B 08624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 16:43

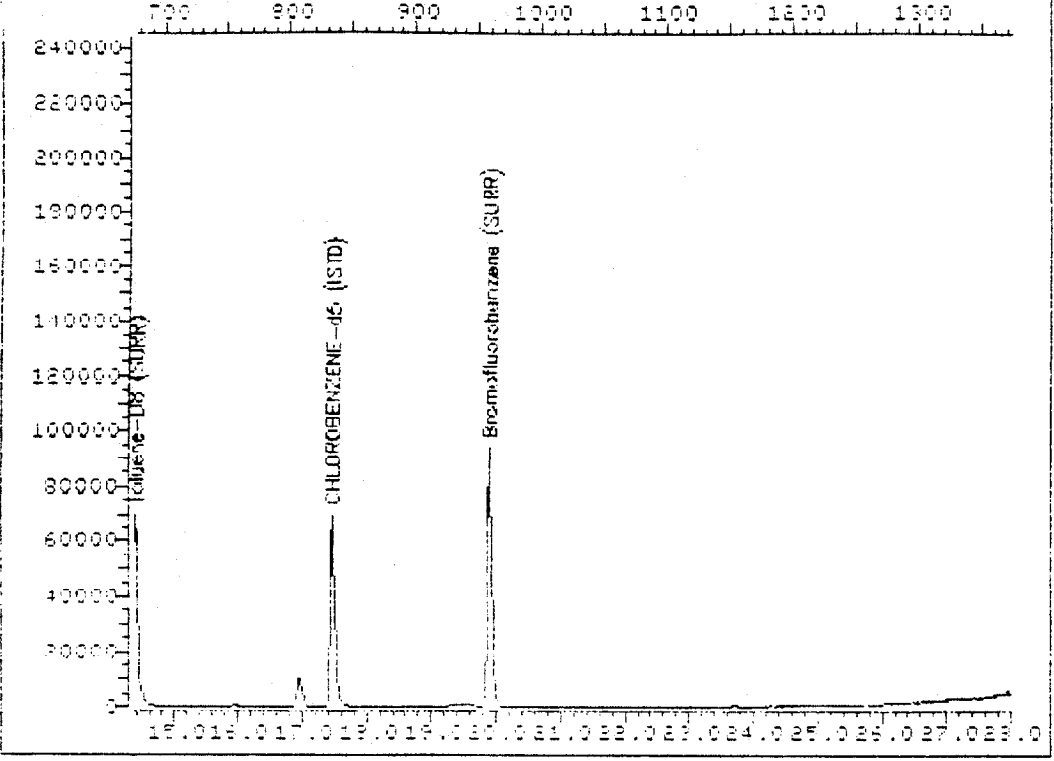
Injected at: 940304 16:15

Page 1 of 2



TOTAL ION CHROMATOGRAM

Title: B2865 35.0-250.0 amu. 15226N CLJ-DS-08 JM3562V,N7M3336,L:MS  
TIC



Data File: >B2865::D4 Quant Output File: ^B2865::QT  
Name: 15226N CLJ-DS-08  
Misc: JM3562V,N7M3336,L:M2,.200,5:1,

Id File: IR304A::D4  
Title: M9D-B DP624 0.53mmX75m UPLATILER BY GC:MS  
Last Calibration: 940384 10:00

Operator ID: USERTSC  
Quant Time: 940384 16:43  
Injected at: 940304 16:15

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0362

QUANT REPORT

Page 1

Operator ID: USERTSC                      Quant Rev: 7            Quant Time: 940304 16:43  
 Output File: <B2865::QT                      Injected at: 940304 16:15  
 Data File: >B2865::D6                      Dilution Factor: 1.00000  
 Name: 15226N CLJ-DS-08  
 Misc: 3M3562U,NP13736,L:M2,.200,5:1,

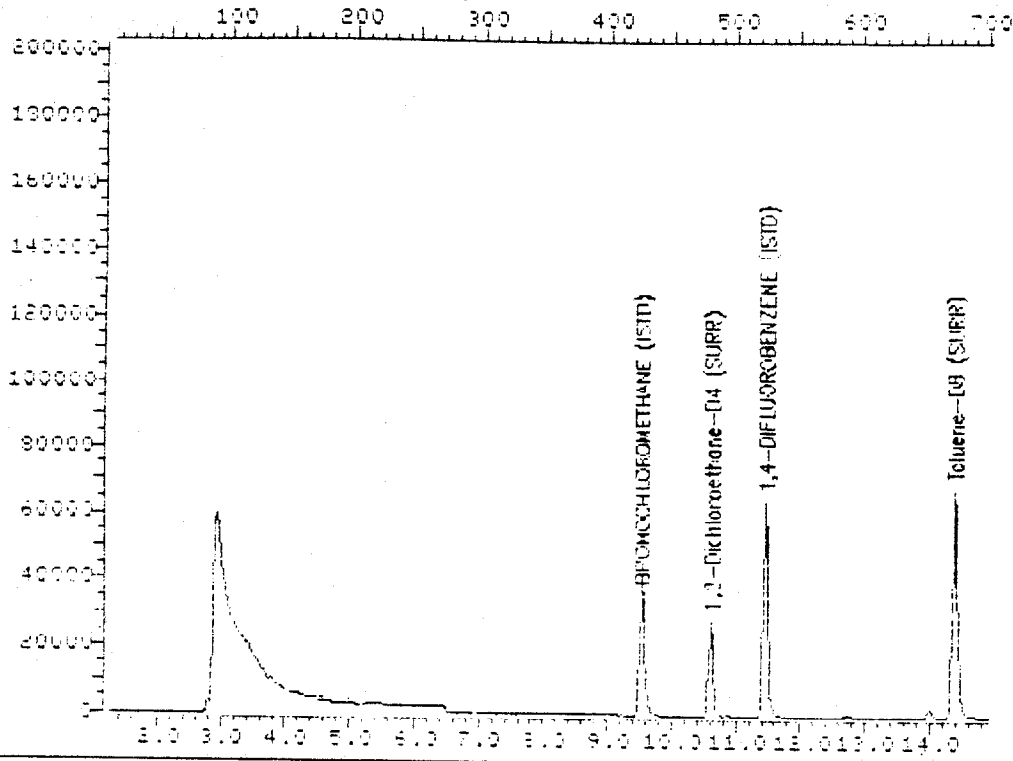
ID File: 18704A::D4  
 Title: MSD-R 08624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	30185	50.00	ug/l	90
13) Acetone	6.07	43.0	17477	49.87	ug/l	82
16) Methylene chloride	6.87	84.0	1753	1.81	ug/l	79
24) 1,2-Dichloroethane-04 (SUPP)	10.60	45.0	54357	45.39	ug/l	91
29) *1,4-DIFLUOROBENZENE (ISTD)	11.44	114.0	131656	50.00	ug/l	92
29) *CHLOROBENZENE-R5 (ISTD)	12.47	117.0	110193	50.00	ug/l	91
49) Toluene-08 (SUPP)	14.39	98.0	141918	45.82	ug/l	83
69) Bromofluorobenzene (SUPP)	19.09	95.0	106110	44.20	ug/l	98

\* Compound is ISTD

TOTAL ION CHROMATOGRAM

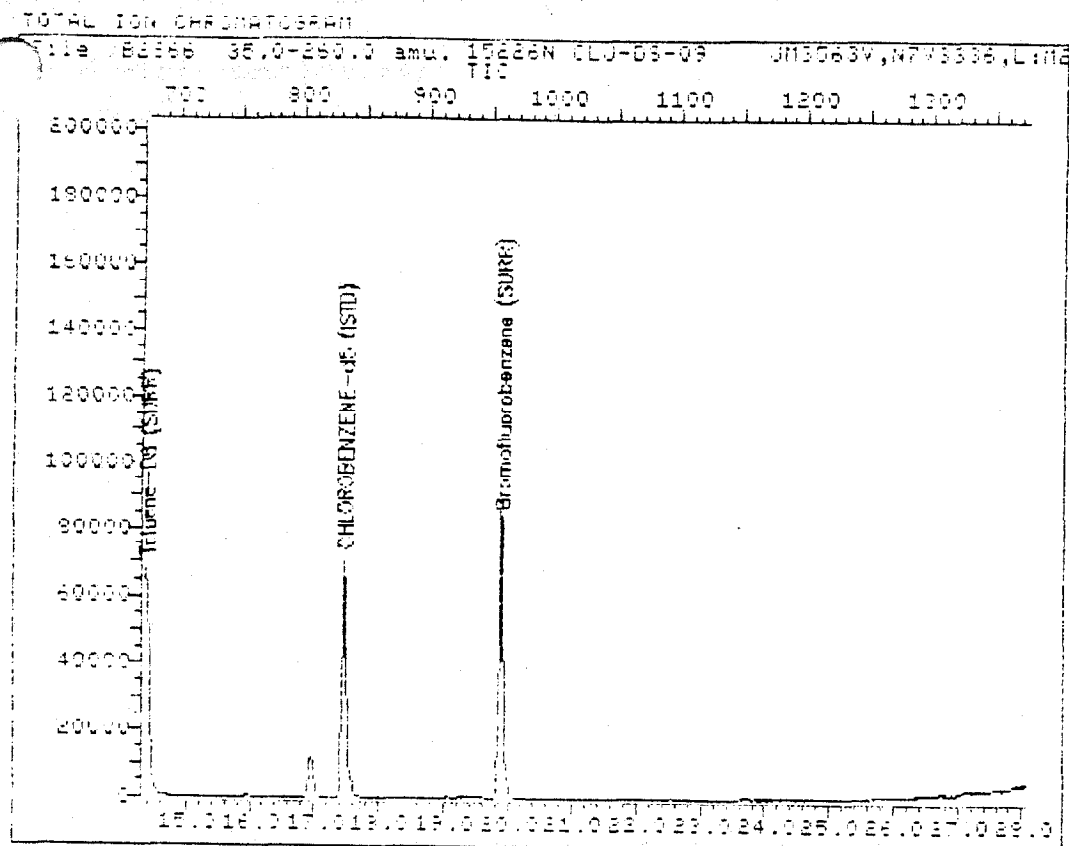
File: 82266 35.0-260.0 amu. 10226N CLU-08-09 JMS5630,N743336,L:MS



Data File: >82266::D6 Quant Output File: ^82266::QT  
Name: 10226N CLU-08-09  
Misc: JMS5630,N743336,L:MS,.200,5:1,

ID File: 10304A::D4  
Title: MSD-B DB424 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Operator ID: USERTSC  
Quant Time: 940304 17:20  
Injected at: 940304 16:50



Data File: 82866::D4 Quant Output File: 82866::QT  
 Name: 15226N CLU-05-09  
 Misc: JM3063V,N7V3336,L:MG,.200,5:1,

IN File: 183044::D4  
 Title: MR0-B DP424 0.53mmX75m UOI ATILES BY GC/MS  
 Last Calibration: 940304 10:00

Operator ID: USERTSC  
 Quant Time: 940304 17:20  
 Injected at: 940304 16:50

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9211 0365

QUANT REPORT

Page 1

Operator ID: USFRTSC  
Output File: ^R2866::QT  
Data File: ^R2866::D6  
Name: 15226N Q13-D6-09  
Misc: JM3563U, N7U7336, L:M2, .200, 5:1,

Quant Raw: 7      Quant Time: 940304 17:20  
                  Injected at: 940304 16:50  
                  Dilution Factor: 1.00000

ID File: IR304A::04  
Title: MSD-8 88674 0.53mmX25m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	30671	50.00	ug/l	88
26) 1,2-Dichloroethane-D4 (SURR)	10.61	45.0	52714	43.32	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	133946	50.00	ug/l	90
48) *CHLOROBENZENE-F5 (ISTD)	17.47	117.0	109514	50.00	ug/l	89
49) Toluene-D8 (SURR)	14.38	98.0	136309	44.40	ug/l	82
60) Bromofluorobenzene (SURR)	19.21	95.0	101745	42.48	ug/l	85

\* Compound is ISTD

SECTION

Vol  
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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>DOO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-CSS-023	2/23/94	BATT. EXCAV.; W. TRENCH; N. WALL	137064	ASC	JM3815	IV	615236	7526016772
CLJ-CSS-024	2/23/94	BATT. EXCAV.; W. TRENCH; E. WALL (1ST FLAG)	137064	ASC	JM3816	IV	615236	7526016772
CLJ-CSS-025	2/23/94	BATT. EXCAV.; W. TRENCH; FLOOR (1ST FLAG)	137064	ASC	JM3817	IV	615236	7526016772
CLJ-CSS-026	2/23/94	BATT. EXCAV.; W. TRENCH; W. WALL (1ST FLAG)	137064	ASC	JM3818	IV	615236	7526016772
CLJ-CSS-027	2/23/94	BATT. EXCAV.; W. TRENCH; E. WALL (2ND FLAG)	137064	ASC	JM3819	IV	615236	7526016772
CLJ-CSS-028	2/23/94	BATT. EXCAV.; W. TRENCH; FLOOR (2ND FLAG)	137064	ASC	JM3820	IV	615236	7526016772
CLJ-CSS-029	2/23/94	BATT. EXCAV.; W. TRENCH; W. WALL (2ND FLAG)	137064	ASC	JM3821	IV	615236	7526016772
CLJ-CSS-030	2/23/94	BATT. EXCAV.; W. TRENCH; E. WALL (3RD FLAG)	137064	ASC	JM3822	IV	615236	7526016772
CLJ-CSS-031	2/23/94	BATT. EXCAV.; W. TRENCH; FLOOR (3RD FLAG)	137064	ASC	JM3823	IV	615236	7526016772
CLJ-CSS-032	2/23/94	BATT. EXCAV.; W. TRENCH; W. WALL (3RD FLAG)	137064	ASC	JM3824	IV	615236	7526016772
CLJ-CSS-033	2/23/94	BATT. EXCAV.; W. TRENCH; S. WALL	137065	ASC	JM3825	IV	615236	7526016772





# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	CLJ-CSS-31	CLJ-CSS-32	CLJ-CSS-33
ASC Sample Number:	JM3823	JM3824	JM3825
Sample Date:	940223	940223	940223
Facility Code:	015226N	015226N	015226N

Parameters	Units
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**Conventional Data (CV10)**

Flash Point, Seta Flash 60	Deg C	>60	>60	>60
pH (Electrode)	std	4.32	4.93	5.03

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

Arsenic	mg/L	<.001	<.001	<.001
Barium	mg/L	.327	.290	.357
Cadmium	mg/L	.004	<.001	<.001
Chromium	mg/L	<.004	.006	<.004
Lead	mg/L	.022	.003	<.002
Mercury	mg/L	<.0001	<.0001	<.0001
Selenium	mg/L	<.001	<.001	.002
Silver	mg/L	<.008	<.008	<.008

## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services CorpContract: NeesaLab Code: NA Case #: NASAS #: NA SDG #: CLJ-CSS-DW No.: NA

## EPA Sample No.

## Lab Sample ID.

CLJ-CSS-23JM3815CLJ-CSS-24JM3816CLJ-CSS-25JM3817CLJ-CSS-26JM3818CLJ-CSS-27JM3819CLJ-CSS-28JM3820CLJ-CSS-29JM3821CLJ-CSS-30JM3822CLJ-CSS-31JM3823CLJ-CSS-32JM3824

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 Case 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: Joe HnatowDate: 3/11/94Title: Operations Manager

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp Contract: Neesa  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-2  
 DW No.: NA

EPA Sample No.

Lab Sample ID.

CLJ-CSS-33

JM3825

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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 Case 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: Joe Hnatow

Date: 3/11/94

Title: Operations Manager

## SDG NARRATIVE

---

### 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 91 to 113%.

None of the ICP Serial Dilution exceeded 10% difference.

### Conventionals

pH results are in standard units not mg/kg.

The method qualifier for pH (Electrode) is "pH", the CLP manual does not address these results or this method for reporting.

# INORGANIC ANALYSIS DATA SHEET (1) 00004

**Lab Name:** *Analytical Services Corp*    **Contract:** *Neesa*    **EPA SAMPLE #:** *CLF-CSS-23*  
**Lab Code:** *NA*    **Case #:** *NA*    **SAS #:** *NA*    **SDG #:** *CLJ-CSS-23*  
**Matrix:** (soil/water) *Water*    **Level:** (low/med) *LOW*    **Lab Sample ID:** *JM3815*  
**% Solids:** \_\_\_\_\_    **Date Received:** *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>142</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
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				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>2.0</i>	<i>U</i>		<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
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				
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) 00005

**Lab Name:** *Analytical Services Corp*    **Contract:** *Neesa*    **EPA SAMPLE #:** *CLJ-655-24*  
**Lab Code:** *NA*    **Case #:** *NA*    **SAS #:** *NA*    **SDG #:** *CLJ-655-23*  
**Matrix:** (soil/water) *WATER*    **Level:** (low/med) *Low*    **Lab Sample ID:** *JM3816*  
**% Solids:** \_\_\_\_\_    **Date Received:** *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>264</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	<i>3.1</i>	<i>B</i>		<i>P</i>
7440-47-3	Chromium	<i>7.2</i>	<i>U</i>		<i>P</i>
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>2.0</i>	<i>U</i>		<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
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				
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) 00006

**Lab Name:** *Analytical Services Corp*    **Contract:** *Neesa*    **EPA SAMPLE #:** *CLS-LS-25*  
**Lab Code:** *NA*    **Case #:** *NA*    **SAS #:** *NA*    **SDG #:** *CLS-CSS-23*  
**Matrix:** (soil/water) *WATER*    **Level:** (low/med) *low*    **Lab Sample ID:** *JM3817*  
**% Solids:** \_\_\_\_\_    **Date Received:** *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>432</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	<i>1.5</i>	<i>B</i>		<i>P</i>
7440-47-3	Chromium	<i>12.1</i>			<i>P</i>
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>11.3</i>			<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
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>F</i>
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)

00007

**Lab Name:** *Analytical Services Corp*    **Contract:** *Neesa*    **EPA SAMPLE #:** *CLJ-CSS-26*  
**Lab Code:** *NA*    **Case #:** *NA*    **SAS #:** *NA*    **SDG #:** *CLJ-CSS-23*  
**Matrix:** (soil/water) *WATER*    **Level:** (low/med) *Low*    **Lab Sample ID:** *JM3818*  
**% Solids:** \_\_\_\_\_    **Date Received:** *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>393</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	<i>1.1</i>	<i>U</i>		<i>P</i>
7440-47-3	Chromium	<i>6.0</i>	<i>B</i>		<i>P</i>
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>8.2</i>			<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	<i>1.3</i>	<i>U</i>		<i>F</i>
7440-22-4	Silver	<i>8.0</i>	<i>U</i>		<i>P</i>
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) 00008

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLJ-CSS-27*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLJ-CSS-23*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM3819*  
 % Solids: \_\_\_\_\_ Date Received: *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>309</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
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				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>2.2</i>	<i>B</i>		<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
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				
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)

00009

Lab Name: *Analytical Services Corp*    Contract: NeasA    EPA SAMPLE #: CLJ-CSS-28  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: CLJ-CSS-23  
 Matrix: (soil/water) WATER    Level: (low/med) low    Lab Sample ID: JM3820  
 % Solids: \_\_\_\_\_    Date Received: 02/24/94

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

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	418			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	3.5	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	9.0			F
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	B	W	F
7440-22-4	Silver	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) 00010

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-29  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-23  
 Matrix: (soil/water) WATER Level: (low/med) low Lab Sample ID: JM3821  
 % Solids: \_\_\_\_\_ Date Received: 02/24/94

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

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	336			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	5.5			F
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	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)

00011

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLI-CSS-30  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLI-CSS-23  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3822  
 % Solids: \_\_\_\_\_ Date Received: 02/24/94

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

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	262			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.7	B		P
7440-47-3	Chromium	4.5	B		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	6.0			F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.9	B	W	F
7440-22-4	Silver	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)

00012

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLI-CSS-31  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLI-CSS-23  
 Matrix: (soil/water) WATER Level: (low/med) Low Lab Sample ID: JM3823  
 % Solids: \_\_\_\_\_ Date Received: 02/24/94

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

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	327			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	22.4			P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	22.4			F
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		F
7440-22-4	Silver	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) 00013

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-CSS-32  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-73  
 Matrix: (soil/water) WATER Level: (low/med) low Lab Sample ID: JM3824  
 % Solids: \_\_\_\_\_ Date Received: 02/24/94

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

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	290			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	6.4	B		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	3.3			F
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	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) 00014

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *CLJ-CSS-33*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *CLJ-CSS-23*  
 Matrix: (soil/water) *WATER* Level: (low/med) *low* Lab Sample ID: *JM3825*  
 % Solids: \_\_\_\_\_ Date Received: *02/24/94*

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>357</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
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				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>2.0</i>	<i>U</i>		<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>CV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	<i>1.9</i>	<i>B</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				
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)

00015

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLJ-CSS-2

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									
Barium	9240	9590	104	4520	4740	105	478	106	P
Beryllium									
Boron									
Cadmium	2530	2560	101	1250	1270	102	1280	103	P
Chromium	973	999	103	483	491	102	487	101	P
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver	1260	1300	103	603	611	101	610	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) 00016

Lab Name: Analytical Services Corp

Contract: Neosa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-23

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	35.0	107	20.5	20.2	95.5	21.4	104	F
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
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)

00017

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-2

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	34.1	104	20.5	20.7	101	21.1	103	F
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
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)

00018

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-23

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									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	35.3	34.3	97.2	21.2	22.5	106	22.2	105	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)

00019

Lab Name: *Analytical Services Corp*

Contract: *NeesA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLS-CSS-2*

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									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	<i>35.3</i>	<i>34.2</i>	<i>96.9</i>	<i>21.2</i>	<i>22.4</i>	<i>106</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)

00020

Lab Name: Analytical Services Corp

Contract: NeesA

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CWS-CSS-2

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									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				21.2	21.7	102	21.9	103	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) 00021

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLF-ASS-2

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	41.0	105	23.5	25.0	106	23.5	100	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)

00022

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLS-CSS-2*

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				<i>23.5</i>	<i>21.4</i>	<i>91.0</i>	<i>21.2</i>	<i>90.2</i>	<i>F</i>
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services Corp

Contract: NeesA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-2

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									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	5.00	5.49	110	5.00	5.22	104	5.4	108	CV
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)

Lab Name: Analytical Services CorpContract: NeosaLab Code: NACase #: NASAS #: NASDG #: CLS-055-2Initial Calibration Source: NISTContinuing 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									
Manganese									
Mercury				5.00	5.37	107	5.41	108	CV
Molybdenum									
Nickel									
Selenium									
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)

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

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

SAS #: *NA*

SDG #: *CLT-685-2*

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								
Barium				402	393	97.8	397	98.8
Beryllium								
Boron								
Cadmium				10.8	10.2	94.0	10.0	92.1
Chromium				21.0	21.8	104	20.5	97.7
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver				22.0	24.1	109	24.5	111
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

00026

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

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>10.4</i>	<i>104</i>					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

00027

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

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

SAS #: *NA*

SDG #: *CLI-CSS-*

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>9.0</i>	<i>90</i>					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B) 00028

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLS-CSS-2

AA CRDL Standard Source: Ventures

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	3.0	2.0	67					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B) 00029

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

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

SAS #: *NA*

SDG #: *CLS-LSS-*

AA CRDL Standard Source: *Ventures*

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	<i>3.0</i>	<i>2.5</i>	<i>83.3</i>					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

00030

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLS-LSS-2

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								
Molybdenum								
Nickel								
Selenium	5.1	5.2	102					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

00031

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: NA Case #: NA

SAS #: NA

SDG #: GLJ-655-2

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	0.2	.123	61.3					
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								



## BLANKS (3)

Lab Name: *Analytical Services Corp*Contract: *Neesa*Lab Code: *NA*Case #: *NA*SAS #: *NA*SDG #: *CLF-CSE*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											
Barium	<i>0.9</i>	<i>4</i>	<i>1.4</i>	<i>B</i>	<i>0.9</i>	<i>4</i>			<i>0.9</i>	<i>4</i>	<i>P</i>
Beryllium											
Boron											
Cadmium	<i>1.0</i>	<i>4</i>	<i>0.4</i>	<i>4</i>	<i>0.6</i>	<i>4</i>			<i>0.9</i>	<i>4</i>	<i>P</i>
Chromium	<i>-0.6</i>	<i>4</i>	<i>0.5</i>	<i>4</i>	<i>0.7</i>	<i>4</i>			<i>1.9</i>	<i>4</i>	<i>P</i>
Cobalt											
Copper											
Iron											
Lead											
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium											
Silver	<i>-5.2</i>	<i>4</i>	<i>2.7</i>	<i>4</i>	<i>-0.5</i>	<i>4</i>			<i>1.6</i>	<i>4</i>	<i>P</i>
Strontium											
Thallium											
Vanadium											
Zinc											

# BLANKS (3)

00033

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CL3-655-7*

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	<i>-1.6</i>	<i>B</i>	<i>-0.83</i>	<i>U</i>	<i>-1.8</i>	<i>B</i>	<i>-1.4</i>	<i>B</i>	<i>-1.4</i>	<i>U</i>	<i>F</i>
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	<i>1.3</i> <del><i>-2.3</i></del>	<i>U</i> <del><i>B</i></del>	<i>-1.5</i>	<i>U</i>	<i>-1.4</i>	<i>U</i>	<i>-1.5</i>	<i>U</i>	<i>-1.4</i>	<i>U</i>	<i>F</i>
Manganese											
Mercury	<i>-0.12</i>	<i>U</i>	<i>-0.07</i>	<i>U</i>	<i>-0.04</i>	<i>U</i>	<i>-0.06</i>	<i>U</i>	<i>-0.07</i>	<i>U</i>	<i>CV</i>
Molybdenum											
Nickel											
Selenium	<i>1.0</i>	<i>U</i>	<i>-0.7</i>	<i>U</i>	<i>-1.0</i>	<i>U</i>	<i>-1.0</i>	<i>U</i>	<i>0.1</i>	<i>U</i>	<i>F</i>
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

## BLANKS (3)

Lab Name: *Analytical Services Corp*Contract: *Neesa*Lab Code: *NA*Case #: *NA*SAS #: *NA*SDG #: *CLJ-655-*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			-1.1	u							
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium			0.5	u							
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

# BLANKS (3)

00035

Lab Name: *Analytical Services Corp*

Contract: *NESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLJ-ESS-2*

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
		C	1	C	2	C	3	C	C		
Aluminum											
Antimony											
Arsenic	<i>-1.8</i>	<i>U</i>	<i>-0.2</i>	<i>U</i>	<i>.01</i>	<i>U</i>					
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	<i>-2.3</i>	<i>B</i>	<i>-2.0</i>	<i>B</i>							
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium											
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

# ICP INTERFERENCE CHECK SAMPLE (4) 00036

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLJ-CSS-*

ICP ID #: *61*

ISC Source: *Ventur*

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>2.1</i>	<i>476</i>	<i>101</i>	<i>1.6</i>	<i>472</i>	<i>100</i>
Beryllium								
Boron								
Cadmium	<i>φ</i>	<i>874</i>	<i>-9.5</i>	<i>894</i>	<i>102</i>	<i>-10.1</i>	<i>891</i>	<i>102</i>
Chromium	<i>φ</i>	<i>462</i>	<i>-4.4</i>	<i>467</i>	<i>101</i>	<i>-5.8</i>	<i>464</i>	<i>101</i>
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	<i>φ</i>	<i>923</i>	<i>4.3</i>	<i>940</i>	<i>102</i>	<i>-5.4</i>	<i>931</i>	<i>101</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# SPIKE SAMPLE RECOVERY (5A)

00037

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLJ-CSS-  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-CSS-2  
 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	23.2	-1.4	4	20.0	116	F
Barium	75-125	9293	142		10400	88.0	P
Beryllium							
Boron							
Cadmium	75-125	932	0.7	4	1050	88.8	P
Chromium	75-125	4890	3.7	4	5430	90.1	P
Cobalt							
Copper							
Iron							
Lead	75-125	21.2	0.9	4	20.0	106	F
Manganese							
Mercury	75-125	1.94	-0.06	4	2.00	97	CV
Molybdenum							
Nickel							
Selenium	75-125	17.8	0.2	4	20.0	89	F
Silver	75-125	90.7	1.1	4	93.5	97	P
Strontium							
Thallium							
Vanadium							
Zinc							

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

# POST DIGEST SPIKE SAMPLE RECOVERY (5B) 00038

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLJ-CSS-3  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-CSS-2  
 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							
Barium		10400	290	10400	97.2		P
Beryllium							
Boron							
Cadmium		1030	0.7	1050	98.1		P
Chromium		5320	6.4	5430	97.9		P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver		103	-1.5	93.5	110		P
Srontium							
Thallium							
Vanadium							
Zinc							

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

## DUPLICATES (6)

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA Sample #: *CLJ-CSS-*  
 Lab Code: *NA* Case #: *NA* SAS #: *CLJ-NA* SDG #: *CLJ-CSS-*  
 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		-1.4	B	-0.9	U			F
Barium		142		141		0.7		P
Beryllium								
Boron								
Cadmium		0.7	U	0.2	U			P
Chromium		3.7	U	4.1	U			P
Cobalt								
Copper								
Iron								
Lead		0.9	U	0.1	U			F
Manganese								
Mercury		-0.1	U	0.1	U			CV
Molybdenum								
Nickel								
Selenium		0.2	U	-0.6	U			F
Silver		1.1	U	-0.2	U			P
Strontium								
Thallium								
Vanadium								
Zinc								



## LABORATORY CONTROL SAMPLE (7)

Lab Name: Analytical Services CorpContract: NeesaLab Code: NA Case #: NASAS #: IVASDG #: CL3-665-2Liquid LCS Source: Ventures

Aqueous LCS Source: \_\_\_\_\_

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium	10400	9740	93.7					
Beryllium								
Boron								
Cadmium	1050	960	91.4					
Chromium	5430	5090	93.7					
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium		<sup>213</sup> 9/31/94						
Silver	93.5	95.6	102					
Strontium								
Thallium								
Vanadium								
Zinc								

00041

## LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp*Contract: *NEOSA*Lab Code: *NA*Case #: *NA*SAS #: *NA*SDG #: *CLS-CSS-2*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	<i>20.0</i>	<i>20.1</i>	<i>101</i>					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	<i>20.0</i>	<i>20.5</i>	<i>103</i>					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	<i>20.0</i>	<i>22.6</i>	<i>113</i>					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# LABORATORY CONTROL SAMPLE (7) 00042

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLJ-CSS-*

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								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	<i>2.00</i>	<i>2.21</i>	<i>111</i>					
Molybdenum								
Nickel								
Selenium	<i>20.0</i>	<i>22.6</i>	<i>113</i>					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

## ICP SERIAL DILUTIONS (9)

Lab Name: *Analytical Services Corp*      Lab Code: NA      EPA SAMPLE #: CLI-CSS-3  
 Contract: Neesa      Case #: NA      SAS #: NA      SDG #: CLI-CSS-2  
 Matrix (soil/water): WATER      Level (low/med): LOW

Concentration Units: ug/L

ANALYTE	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum							
Antimony							
Arsenic							
Barium	290		271		6.8		P
Beryllium							
Boron							
Cadmium	0.7	U	Ø	U			P
Chromium	6.4	B	22.0	U			P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	-0.5	U	0.5	U			P
Strontium							
Thallium							
Vanadium							
Zinc							

# 00044

## INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa

Case #: NA      SAS #: NA      SDG #: CLJ-CSS-23 ICP ID #: 61

Date: 2-15-94      Flame AA ID #: \_\_\_\_\_      Furnace AA ID #: 41

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic	193.7	BZ	10	1.4	F
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			3		
Manganese			15		
Mercury	253.7	BD	0.2	0.14	CV
Molybdenum					
Nickel			40		
Selenium			5		
Silver	328.07		10	8.0	P
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

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

00045

## INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp*Lab Code: NAContract: NeesACase #: NASAS #: NASDG #: C1J-655-23 ICP ID #: \_\_\_\_\_Date: 2-12-94

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			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	196.0	BZ	5	1.3	F
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

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

# 00046

## ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12A)

Lab Name: Analytical Services Corp    Lab Code: NA    Contract: Neesa  
 Case #: NA    SAS #: NA    SDG #: CN-65-23 ICP ID #: 61  
 Date: \_\_\_\_\_

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	✓
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium	214.44	.00007		.000046		-.00021
Chromium	267.72					.00008
Cobalt						
Copper						
Iron						
Lead						
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07					-.00242
Strontium						
Thallium						
Vanadium						
Zinc						

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

# ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12B)

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa  
 Case #: NA      SAS #: NA      SDG #: CLJ-CSS-23 ICP ID #: 61  
 Date: \_\_\_\_\_

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Mo	Mn	Cr		
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium	214.44					
Chromium	267.72	-.00048	.00022			
Cobalt						
Copper						
Iron						
Lead						
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07	-.00084	.00011			
Strontium						
Thallium						
Vanadium						
Zinc						

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



## PREPARATION LOG (13)

Lab Name: Analytical Services CorpLab Code: NAContract: NeesaCase #: NASAS #: NASDG #: CLS-CSS-23 Method: P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	3/1/94		50
LCW			
CLJ-CSS-23			
CLJ-CSS-23D			
CLJ-CSS-24			
CLJ-CSS-25			
CLJ-CSS-26			
CLJ-CSS-27			
CLJ-CSS-28			
CLS-CSS-29			
CLJ-CSS-30			
CLJ-CSS-31			
CLJ-CSS-32			
CLS-CSS-33			
CLS-CSS-23S			
CLS-CSS-23S			
TCLP BLANK			
			3/10/94

# PREPARATION LOG (13)

00049

Lab Name: Analytical Services Corp

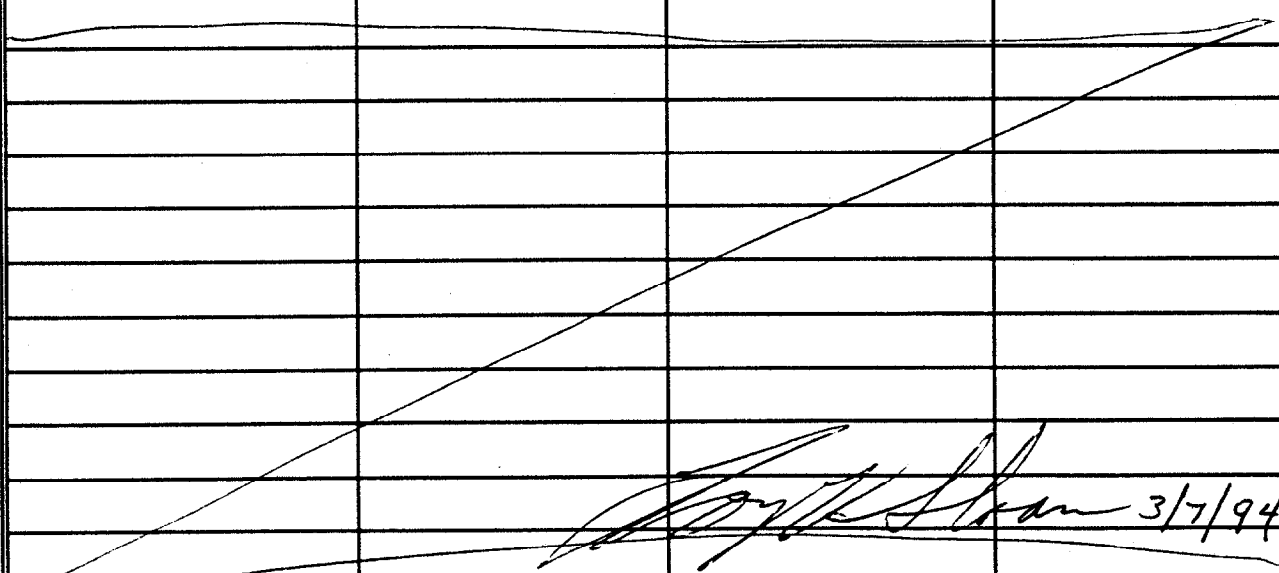
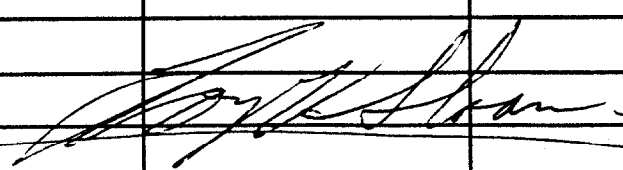
Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-23 Method: F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	03/01/94		50
LCSW			
CLJ-CSS-23			
CLJ-CSS-23D			
CLJ-CSS-24			
CLJ-CSS-25			
CLJ-CSS-26			
CLJ-CSS-27			
CLJ-CSS-28			
CLJ-CSS-29			
CLJ-CSS-30			
CLJ-CSS-31			
CLJ-CSS-32			
CLJ-CSS-33			
CLJ-CSS-23B			
CLJ-CSS-23S			
TCLP Blank	✓		✓
			
			3/7/94

# PREPARATION LOG (13)

00050

Lab Name: *Analytical Services Corp*

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLS-CSS-23 Method: CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	3/1/94	8.00	50
LCSW			
CLS-CSS-23			
CLS-CSS-23A			
CLS-CSS-24			
CLS-CSS-25			
CLS-CSS-26			
CLS-CSS-27			
CLS-CSS-28			
CLS-CSS-29			
CLS-CSS-30			
CLS-CSS-31			
CLS-CSS-32			
CLS-CSS-33			
CLS-CSS-23S			
CLS-CSS-23S			
TCLP BLANK			



# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLS-CSS-23

Method: P

Instrument ID Number: 61

Start Date: 03/04/94

End Date: 03/07/94

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-23S		1012					X				X	X												X				
CLS-CSS-23		1016					X				X	X												X				
CLS-CSS-23D		1019					X				X	X												X				
CLS-CSS-24		1023					X				X	X												X				
CLS-CSS-25		1027					X				X	X												X				
CLS-CSS-26		1031					X				X	X												X				
CCV		1034					X				X	X												X				
CCB		1037					X				X	X												X				
CLT-CSS-27		1041					X				X	X												X				
CLJ-CSS-28		1045					X				X	X												X				
CLS-CSS-29		1049					X				X	X												X				
CLS-CSS-30		1052					X				X	X												X				
CLS-CSS-31		1056					X				X	X												X				
CLS-CSS-32		1100					X				X	X												X				
CLS-CSS-33		1104					X				X	X												X				



# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAB #: NA

SDG #: CLS-655-23

Method: F

Instrument ID Number: 41

Start Date: 03/08/94

End Date: 03/08/94

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 BIK		1304				X																			
STD1		1311				X																			
STD2		1318				X																			
STD3		1325				X																			
STD4		1331				X																			
STD5		1338				X																			
STD6		1345				X																			
LCV		1357				X																			
LCB		1404				X																			
CRA		1410				X																			
PBW		1417				X																			
PBW A		1424	100			X																			
LC5W		1431				X																			
LC5W A		1438	102			X																			
CLS-655-235		1446				X																			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLS-CSS-23

Method: F

Instrument ID Number: 41

Start Date: 03/08/94

End Date: 03/08/94

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-23B		1453				X																			
CLS-CSS-23		1500				X																			
CLS-CSS-23A		1507	107			X																			
CLS-CSS-23D		1514				X																			
CLS-CSS-23A		1521	108			X																			
CCV		1528				X																			
CCB		1535				X																			
CLS-CSS-24		1541																							
CLS-CSS-24		1551																							
CLS-CSS-24		1558																							
CCV		1606				X																			
CCB		1612				X																			
CLS-CSS-24		1619				X																			
CLS-CSS-24A		1626	105			X																			
CLS-CSS-25		1633				X																			



# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

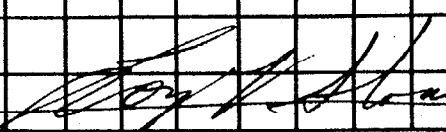
SDG #: CW-CSS-23

Method: F

Instrument ID Number: 41

Start Date: 03/08/94

End Date: 03/08/94

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
CW-CSS-25A		1640	101			X																			
CW-CSS-26		1647				X																			
CW-CSS-26A		1654	104			X																			
CW-CSS-27		1701				X																			
CW-CSS-27A		1708	102			X																			
CW-CSS-28		1715				X																			
CW-CSS-28A		1722	102			X																			
CCV		1728				X																			
CCB		1735				X																			
																									
																						3/9/94			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-23

Method: F

Instrument ID Number: 41

Start Date: 03/09/94

End Date: 03/09/94

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 BIK		703				X																			
ST01		710				X																			
ST02		717				X																			
ST03		724				X																			
ST04		731				X																			
ST05		738				X																			
ST06		744				X																			
ICV		753				X																			
ICB		800				X																			
CRA		807				X																			
CLJ-CSS-29		814				X																			
CLJ-CSS-29A		820	103			X																			
CLJ-CSS-30		827				X																			
CLJ-CSS-30A		834	105			X																			
CLJ-CSS-31		841				X																			

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAB #: NA

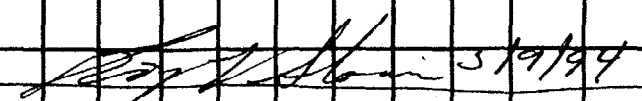
SDG #: CLS-GSS 23

Method: F

Instrument ID Number: 41

Start Date: 03/09/94

End Date: 03/09/94

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-GSS-31A		848	102			X																							
CLS-GSS-32		854				X																							
CLS-GSS-32A		901	107			X																							
CLS-GSS-33		908				X																							
CLS-GSS-33A		915	100			X																							
CCV		922				X																							
CCB		929				X																							
TCLPBK		935				X																							
TCLPBK A		942	104			X																							
CCV		949				X																							
CCB		956				X																							
																													



# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp      Lab Code: NA      Contract: Neesa  
 Case #: NA      SAB #: NA      BDG #: CLJ-CSS-23      Method: F  
 Instrument ID Number: 51      Start Date: 03/03/94      End Date: 03/03/94

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-23S		1623													X										
CLJ-CSS-23		1629													X										
CLJ-CSS-23A		1636	102												X										
CLJ-CSS-23D		1643													X										
CLJ-CSS-23A		1650	99.5												X										
CCV		1656													X										
CCB		1703													X										
CLJ-CSS-24		1709													X										
CLJ-CSS-24A		1716	99.5												X										
CLJ-CSS-25		1723													X										
CLJ-CSS-25A		1729	90.8												X										
CLJ-CSS-26		1736													X										
CLJ-CSS-26A		1743	93.6												X										
CLJ-CSS-27		1749													X										
CLJ-CSS-27A		1756	89.6												X										

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAB #: NA

BDG #: CLS-CSS-23

Method: F

Instrument ID Number: 51

Start Date: 03/03/94

End Date: 03/03/94

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-28		1802													X											
CLS-CSS-28A		1809	90.6												X											
CCV		1816													X											
CCB		1822													X											
CLS-CSS-29		1829													X											
CLS-CSS-29A		1835	91.6												X											
CLS-CSS-30		1842													X											
CLS-CSS-30A		1849	87.3												X											
CLS-CSS-31		1855																								
CLS-CSS-31A		1901																								
CLS-CSS-32		1908													X											
CLS-CSS-32A		1914	87.1												X											
CLS-CSS-33		1921																								
CLS-CSS-33A		1927																								
CCV		1934													X											









# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-23

Method: \_\_\_\_\_

Instrument ID Number: 51

Start Date: 03/04/94

End Date: 03/04/94

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		1236																	X						
STD 1		1243																	X						
STD 2		1249																	X						
STD 3		1256																	X						
STD 4		1303																	X						
STD 5		1310																	X						
STD 6		1317																	X						
LCV		1344																	X						
LCB		1351																	X						
CRA		1357																	X						
PBW		1404																							
PBW A		1411																							
PBW		1419																		X					
PBW A		1426																	X						
LC5W		1433																	X						

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAS #: NA

SDG #: CLS-CSS-23

Method: \_\_\_\_\_

Instrument ID Number: 51

Start Date: 03/04/94

End Date: 03/04/94

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
LC5W A		1440																		X					
CLS-CSS-23S		1447																		X					
CLS-CSS-23S		1454																		X					
CLS-CSS-23		1501																		X					
CLS-CSS-23A		1508	78																	X					
CCV		1525																		X					
CCB		1522																		X					
CLS-CSS-23D		1529																		X					
CLS-CSS-23A		1536	88																	X					
CLS-CSS-24		1543																		X					
CLS-CSS-24A		1550	83																	X					
CLS-CSS-25		1557																		X					
CLS-CSS-25A		1603	81																	X					
CLS-CSS-26		1610																		X					
CLS-CSS-26A		1617	89																	X					





# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAB #: NA

BDG #: CLS-CSS-23

Method: \_\_\_\_\_

Instrument ID Number: \_\_\_\_\_

Start Date: 01/03/94

End Date: 01/03/94

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	
STD 1 R1		0855																								
STD 1 R2		0858																								
STD 1 R3		0902																								
STD 2 R1		0905																								
STD 2 R2		0908																								
STD 2 R3		0912																								
STD 3 R1		0915																								
STD 3 R2		0918																								
SDD 3 R3		0922																								
STD 4 R1		0925																								
STD 4 R2		0929																								
STD 4 R3		0932																								
STD 5 R1		0935																								
STD 5 R2		0939																								
STD 5 R3		0942																								

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neosa

Case #: NA

SAB #: NA

BDG #: CLS-CSS-23

Method: \_\_\_\_\_

Instrument ID Number: \_\_\_\_\_

Start Date: 01/03/94

End Date: 01/03/94

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				
STD 6 R1		0945																									X		
STD 6 R2		0949																									X		
STD 6 R3		0952																									X		
ICB		0956																									X		
ICV		0959																									X		
		1002																									X		
PBW		1006																									X		
LC5W		1009																									X		
CLS-CSS-23S		1012																									X		
CLS-CSS-23S		1016																									X		
CLS-CSS-23		1019																									X		
CLS-CSS-23D		1022																									X		
CLS-CSS-24		1025																									X		
CLS-CSS-25		1029																									X		
CLS-CSS-26		1032																									X		

# ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: Neesa

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-23

Method: \_\_\_\_\_

Instrument ID Number: \_\_\_\_\_

Start Date: 01/03/94

End Date: 01/03/94

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-27		1035																							
CCB		1039																							
CCV		1042																							
CLJ-CSS-28		1045																							
CLJ-CSS-29		1049																							
CLJ-CSS-30		1052																							
CLJ-CSS-31		1055																							
CLJ-CSS-32		1058																							
CLJ-CSS-33		1102																							
TCLP BIK		1105																							
TCLP BIK		1111																							
CCB		1116																							
CCV		1120																							
CLJ-CSS-27		1123																							
TCLP BIK		1126																							





A0621136

7N/CLPmet/TCLP 00075

QC BATCH # N7M 3869

0034

Analyst: RJF

Date: 3/1/94

Method #: 3010

Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> G41050

H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_

NH<sub>2</sub>OH HCL \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HCl NX0100372

KMNO<sub>4</sub> \_\_\_\_\_

NaCl \_\_\_\_\_

HGA \_\_\_\_\_ mL \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> \_\_\_\_\_

SnCl<sub>2</sub> \_\_\_\_\_

Stock Hg \_\_\_\_\_

DI \_\_\_\_\_

TCLP 0770 mL 5.0m

ASC #	Job #	Sample ID	V <sub>i</sub> W <sub>i</sub>	V <sub>f</sub>	F	Filtered	Comments
MTH BLK		3869 N	50	50			
MTH SPK		↓ MS					
1M3815	15226N	CJ03523					
2	3816	24					
3	3817	25					
4	3818	26					
5	3819	27					
6	3820	28					
7	3821	29					
8	3822	30					
9	3823	31					
10	3824	32					
11	3825	↓ 33					
12	3815	↓ 23					Replicate
13	—	TCLP BLANK	↓	↓			
14							
15							
16							
17							
18							
19							
20							Rem of Juvesterne
MTX SPK	15226N	CJ03523	50	50			3-1-94
1M3815							
MTX SPK DLP	↓	↓	↓	↓			

Hg Standard	mL Stock	V <sub>f</sub>	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: \_\_\_\_\_

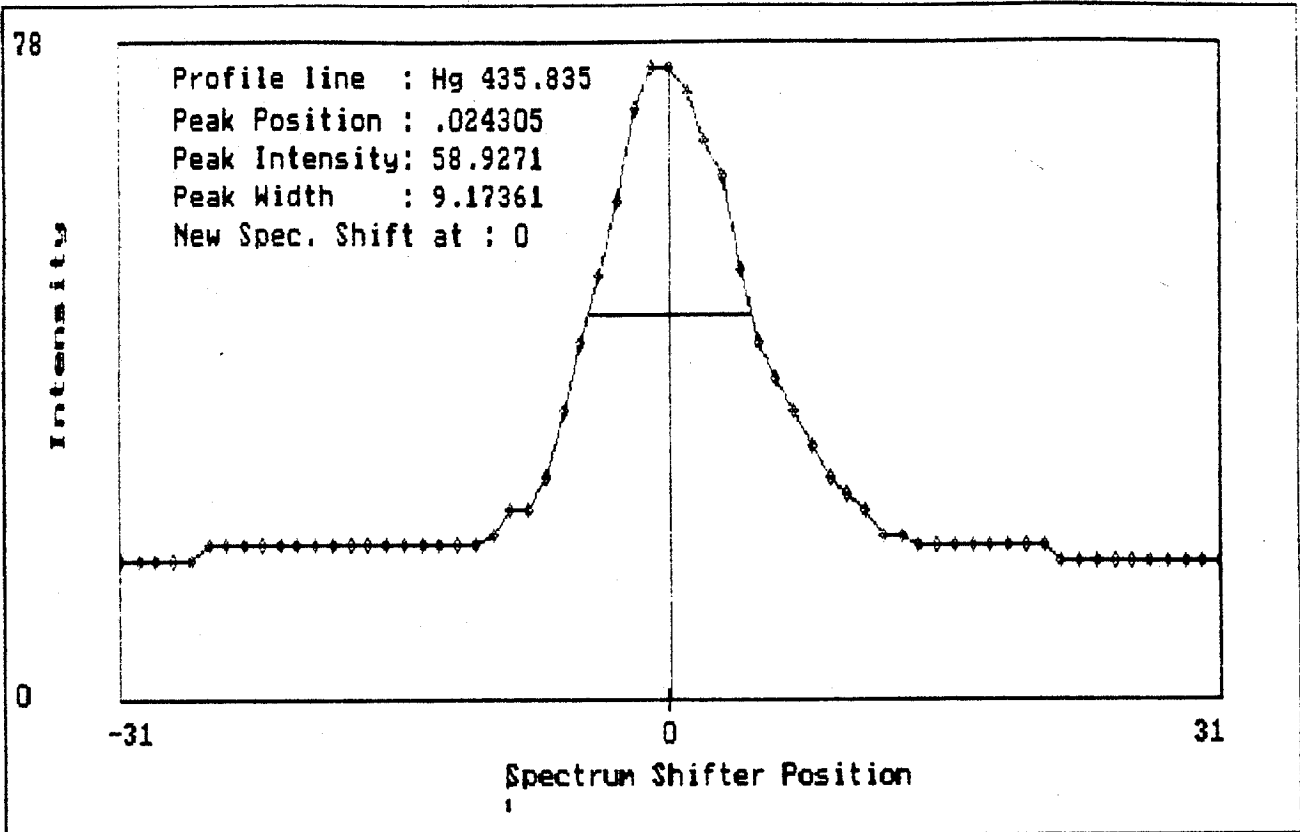
Read and Understood By \_\_\_\_\_

Date \_\_\_\_\_

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	A030494	ICAP3	03/04/94	09:07		X	IR
2	STD3 0729	A030494	ICAP3	03/04/94	09:10		X	IR
3	STD3 0729	A030494	ICAP3	03/04/94	09:14		X	IR
4	STD2 0761	A030494	ICAP3	03/04/94	09:18		X	IR
5	STD4 0775	A030494	ICAP3	03/04/94	09:22		X	IR
6	ICV,0772	A030494	ICAP3	03/04/94	09:25	SBB	Q	CONC
7	ICB	A030494	ICAP3	03/04/94	09:29	SBB	S	CONC
8	CRI,0784	A030494	ICAP3	03/04/94	09:33	SBB	Q	CONC
9	CRI,0784	A030494	ICAP3	03/04/94	09:37	SBB	Q	CONC
10	ICSA,0775	A030494	ICAP3	03/04/94	09:41	SBB	Q	CONC
11	ICSAB,0786	A030494	ICAP3	03/04/94	09:45	SBB	Q	CONC
12	STD #3	A030494	ICAP3	03/04/94	09:48	SBB	S	CONC
13	PBL,N7M3869 MET BLK	A030494	ICAP3	03/04/94	09:56	SBB	S	CONC
14	LCSL,N7M3869 MET SPK	A030494	ICAP3	03/04/94	10:02	SBB	S	CONC
15	SM, JM3815 MIX SPK	A030494	ICAP3	03/04/94	10:08	SBB	S	CONC
16	SD, JM3815 MIX REP	A030494	ICAP3	03/04/94	10:12	SBB	S	CONC
17	XX, JM3815 CLJ-CSS-23	A030494	ICAP3	03/04/94	10:16	SBB	S	CONC
18	XX, JM3815 DUPLICATE	A030494	ICAP3	03/04/94	10:19	SBB	S	CONC
19	XX, JM3816 CLJ-CSS-24	A030494	ICAP3	03/04/94	10:23	SBB	S	CONC
20	XX, JM3817 CLJ-CSS-25	A030494	ICAP3	03/04/94	10:27	SBB	S	CONC
21	XX, JM3818 CLJ-CSS-26	A030494	ICAP3	03/04/94	10:31	SBB	S	CONC
22	CCV,0777	A030494	ICAP3	03/04/94	10:34	SBB	Q	CONC
23	CCB	A030494	ICAP3	03/04/94	10:37	SBB	S	CONC
24	XX, JM3819 CLJ-CSS-27	A030494	ICAP3	03/04/94	10:41	SBB	S	CONC
25	XX, JM3820 CLJ-CSS-28	A030494	ICAP3	03/04/94	10:45	SBB	S	CONC
26	XX, JM3821 CLJ-CSS-29	A030494	ICAP3	03/04/94	10:49	SBB	S	CONC
27	XX, JM3822 CLJ-CSS-30	A030494	ICAP3	03/04/94	10:52	SBB	S	CONC
28	XX, JM3823 CLJ-CSS-31	A030494	ICAP3	03/04/94	10:56	SBB	S	CONC
29	XX, JM3824 CLJ-CSS-32	A030494	ICAP3	03/04/94	11:00	SBB	S	CONC
30	XX, JM3825 CLJ-CSS-33	A030494	ICAP3	03/04/94	11:04	SBB	S	CONC
31	LD, JM3824 X5	A030494	ICAP3	03/04/94	11:07	SBB	S	CONC
32	AS, JM3824,0770 9:1PS	A030494	ICAP3	03/04/94	11:12	SBB	S	CONC
33	TCLP BLK	A030494	ICAP3	03/04/94	11:15	SBB	S	CONC
34	CCV,0777	A030494	ICAP3	03/04/94	11:18	SBB	Q	CONC
35	CCB	A030494	ICAP3	03/04/94	11:21	SBB	S	CONC
36	CRI,0784	A030494	ICAP3	03/04/94	11:26	SBB	Q	CONC
37	ICSA,0775	A030494	ICAP3	03/04/94	11:29	SBB	Q	CONC
38	ICSAB,0786	A030494	ICAP3	03/04/94	11:33	SBB	Q	CONC
39	STD1-Blank	B030494	ICAP3	03/04/94	12:38		X	IR
40	STD3 0729	B030494	ICAP3	03/04/94	12:44		X	IR
41	STD2 0761	B030494	ICAP3	03/04/94	12:47		X	IR
42	STD4 0775	B030494	ICAP3	03/04/94	12:49		X	IR
43	ICV,0772	B030494	ICAP3	03/04/94	12:51	SBB	Q	CONC
44	ICB	B030494	ICAP3	03/04/94	12:55	SBB	S	CONC
45	CRI,0784	B030494	ICAP3	03/04/94	12:59	SBB	Q	CONC
46	ICSA,0775	B030494	ICAP3	03/04/94	13:03	SBB	Q	CONC
47	ICSAB,0786	B030494	ICAP3	03/04/94	13:06	SBB	Q	CONC
48	STD #3	B030494	ICAP3	03/04/94	13:11	SBB	S	CONC
49	PBL,N7M3858 MET BLK	B030494	ICAP3	03/04/94	13:15	SBB	S	CONC
50	LCSL,N7M3858 MET SPK	B030494	ICAP3	03/04/94	13:18	SBB	S	CONC
51	SM, JM3563 MIX SPK	B030494	ICAP3	03/04/94	13:22	SBB	S	CONC
52	SD, JM3563 MIX REP	B030494	ICAP3	03/04/94	13:25	SBB	S	CONC
53	XX, JM3563 CLJ-DS-09	B030494	ICAP3	03/04/94	13:29	SBB	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	XX, JM3563 DUPLICATE	B030494	ICAP3	03/04/94	13:32	SBB	S	CONC
55	XX, JM3557 C6528	B030494	ICAP3	03/04/94	13:36	SBB	S	CONC
56	XX, JM3558 C6529	B030494	ICAP3	03/04/94	13:40	SBB	S	CONC
57	XX, JM3559 CLJ-DS-06	B030494	ICAP3	03/04/94	13:43	SBB	S	CONC
58	CCV, 0777	B030494	ICAP3	03/04/94	13:46	SBB	Q	CONC
59	CCB	B030494	ICAP3	03/04/94	13:49	SBB	S	CONC
60	XX, JM3560 CLJ-DS-07	B030494	ICAP3	03/04/94	13:53	SBB	S	CONC
61	XX, JM3561 CLJ-DS-07D	B030494	ICAP3	03/04/94	13:56	SBB	S	CONC
62	XX, JM3562 CLJ-DS-08	B030494	ICAP3	03/04/94	14:00	SBB	S	CONC
63	LD, JM3562 X5	B030494	ICAP3	03/04/94	14:04	SBB	S	CONC
64	AS, JM3562, 0770 9:1PS	B030494	ICAP3	03/04/94	14:07	SBB	S	CONC
65	TCLP BLK	B030494	ICAP3	03/04/94	14:11	SBB	S	CONC
66	CCV, 0777	B030494	ICAP3	03/04/94	14:14	SBB	Q	CONC
67	CCB	B030494	ICAP3	03/04/94	14:16	SBB	S	CONC
68	CRI, 0784	B030494	ICAP3	03/04/94	14:21	SBB	Q	CONC
69	ICSA, 0775	B030494	ICAP3	03/04/94	14:24	SBB	Q	CONC
70	ICSAB, 0786	B030494	ICAP3	03/04/94	14:27	SBB	Q	CONC
71	CCV, 0777	C030494	ICAP3	03/04/94	14:51	SBB	Q	CONC
72	CCB	C030494	ICAP3	03/04/94	14:54	SBB	S	CONC
73	PBS, QZM3839 MET BLK	C030494	ICAP3	03/04/94	14:58	SBB	S	CONC
74	LCSS, QZM3839 MET SPK	C030494	ICAP3	03/04/94	15:03	SBB	S	CONC
75	XX, JM3198 P006-143-1	C030494	ICAP3	03/04/94	15:06	SBB	S	CONC
76	XX, JM3199 X10	C030494	ICAP3	03/04/94	15:22	SBB	S	CONC
77	XX, JM3200 X10	C030494	ICAP3	03/04/94	15:28	SBB	S	CONC
78	XX, JM3201 P006-143-4	C030494	ICAP3	03/04/94	15:40	SBB	S	CONC
79	XX, JM3202 P006-140-1	C030494	ICAP3	03/04/94	15:51	SBB	S	CONC
80	XX, JM3203 P006-140-2	C030494	ICAP3	03/04/94	15:58	SBB	S	CONC
81	XX, JM3204 P006-141-3	C030494	ICAP3	03/04/94	16:05	SBB	S	CONC
82	XX, JM3205 P006-140-4	C030494	ICAP3	03/04/94	16:12	SBB	S	CONC
83	CCV, 0777	C030494	ICAP3	03/04/94	16:14	SBB	Q	CONC
84	CCB	C030494	ICAP3	03/04/94	16:18	SBB	S	CONC
85	PEP, Q5M3840 MET BLK	C030494	ICAP3	03/04/94	16:21	SBB	S	CONC
86	LCSP, Q5M3840 MET SPK	C030494	ICAP3	03/04/94	16:24	SBB	S	CONC
87	XX, JM3206 W006-136-1	C030494	ICAP3	03/04/94	16:28	SBB	S	CONC
88	XX, JM3207 W006-135-2	C030494	ICAP3	03/04/94	16:32	SBB	S	CONC
89	XX, JM3207 W006-135-2	C030494	ICAP3	03/04/94	16:36	SBB	S	CONC
90	XX, JM3208 W006-136-3	C030494	ICAP3	03/04/94	16:40	SBB	S	CONC
91	XX, JM3209 W006-136-3	C030494	ICAP3	03/04/94	16:48	SBB	S	CONC
92	XX, JM3210 BLK	C030494	ICAP3	03/04/94	16:52	SBB	S	CONC
93	CCV, 0777	C030494	ICAP3	03/04/94	16:56	SBB	Q	CONC
94	CCB	C030494	ICAP3	03/04/94	16:59	SBB	S	CONC
95	CRI, 0784	C030494	ICAP3	03/04/94	17:02	SBB	Q	CONC
96	ICSA, 0775	C030494	ICAP3	03/04/94	17:05	SBB	Q	CONC
97	ICSAB, 0786	C030494	ICAP3	03/04/94	17:09	SBB	Q	CONC
98	ICSAB, 0786	C030494	ICAP3	03/04/94	17:12	SBB	Q	CONC

JP  
3-5-94 XX, JM3201 P006-143-4



Method: ICAP3 Standard: STD1-Blank

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Avgc	-.0007	.0002	-.0016	.0012	.0041	.0020	.0014
SDev	.0009	.0004	.0031	.0003	.0023	.0045	.0001
%RSD	132.3	275.4	192.0	20.83	56.10	225.5	6.928
#1	-.0013	.0000	-.0048	.0012	.0037	.0017	.0013
#2	-.0010	.0007	-.0013	.0015	.0065	.0067	.0013
#3	.0003	-.0002	.0013	.0010	.0020	-.0023	.0015
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Fe	Al3082
Avgc	.0002	.0012	-.0014	.0005	-.0948	.0029	.0077
SDev	.0004	.0003	.0004	.0003	.0022	.0002	.0094
%RSD	173.2	20.10	27.99	57.74	2.342	6.662	121.3
#1	.0000	.0015	-.0018	.0003	-.0967	.0030	-.0012
#2	.0007	.0010	-.0011	.0003	-.0953	.0030	.0175
#3	.0000	.0012	-.0013	.0008	-.0923	.0027	.0068
Elem	Be3130	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179
Avgc	.0007	.0009	.0010	.0006	.0007	.0018	.0013
SDev	.0000	.0004	.0003	.0002	.0020	.0011	.0005
%RSD	.0000	43.30	33.33	34.64	303.1	62.98	37.65
#1	.0007	.0007	.0007	.0003	.0018	.0005	.0010
#2	.0007	.0013	.0013	.0007	.0018	.0025	.0018
#3	.0007	.0007	.0010	.0007	-.0017	.0025	.0010
Elem	Na5889	Sr4215	Co2286	K_7664	V_2924	B_1826	
Avgc	.8199	.0002	.0002	.0199	-.0014	.2348	
SDev	.0050	.0002	.0020	.0009	.0004	.0010	
%RSD	.6065	86.60	1026.	4.288	26.65	.4337	
#1	.8167	.0003	-.0003	.0190	-.0017	.2337	
#2	.8257	.0003	.0024	.0207	-.0010	.2350	
#3	.8175	.0000	-.0015	.0202	-.0017	.2357	

Method: ICAP3 Standard: STD3 0729

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Avgc	2.318	13.03	43.95	2.381	3.517	3.876	.6086
SDev	.023	.18	.09	.032	.052	.062	.0087
%RSD	.9918	1.370	.2071	1.344	1.466	1.605	1.434
#1	2.302	12.90	44.05	2.360	3.482	3.833	.6022
#2	2.308	12.96	43.88	2.366	3.494	3.847	.6050
#3	2.344	13.24	43.93	2.418	3.576	3.947	.6185
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Avgc	.4871	2.583	3.997	1.926	4.275	5.434	.6294
SDev	.0078	.038	.060	.029	.058	.084	.0090
%RSD	1.611	1.476	1.513	1.517	1.347	1.549	1.431
#1	.4813	2.556	3.960	1.903	4.235	5.381	.6227
#2	.4838	2.567	3.964	1.916	4.250	5.390	.6260
#3	.4960	2.627	4.067	1.959	4.341	5.531	.6397

SB 3-4-94  
 RSD's > 1%  
 Return  
 ↓

Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avg	8.289	1.485	8.873	20.34	18.38	8.066	.3777
SDev	.123	.020	.137	.28	.26	.112	.0033
%RSD	1.490	1.353	1.543	1.399	1.388	1.393	.8762
#1	8.212	1.470	8.779	20.14	18.19	7.983	.3753
#2	8.223	1.478	8.811	20.22	18.27	8.022	.3763
#3	8.431	1.508	9.031	20.67	18.67	8.194	.3815
Elem	V_2924						
Avg	2.461						
SDev	.035						
%RSD	1.431						
#1	2.436						
#2	2.446						
#3	2.501						

Method: ICAP3      Standard: STD3 0729

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avg	2.334	13.13	44.25	2.400	3.550	3.897	.6139
SDev	.014	.05	.17	.011	.014	.029	.0029
%RSD	.6079	.3973	.3775	.4456	.3910	.7481	.4641
#1	2.338	13.18	44.41	2.411	3.560	3.922	.6158
#2	2.318	13.08	44.27	2.390	3.534	3.865	.6107
#3	2.345	13.14	44.08	2.399	3.557	3.903	.6153
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Avg	.4942	2.603	4.029	1.949	4.312	5.481	.6352
SDev	.0021	.008	.024	.009	.018	.026	.0022
%RSD	.4306	.3077	.5900	.4699	.4164	.4820	.3530
#1	.4960	2.608	4.042	1.955	4.325	5.502	.6370
#2	.4918	2.594	4.001	1.938	4.291	5.451	.6327
#3	.4947	2.608	4.042	1.953	4.318	5.488	.6358
Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avg	8.327	1.498	8.961	20.52	18.57	8.134	.3771
SDev	.022	.008	.045	.09	.07	.040	.0022
%RSD	.2688	.5182	.5032	.4427	.3900	.4858	.5969
#1	8.343	1.503	8.994	20.59	18.64	8.162	.3748
#2	8.301	1.489	8.910	20.42	18.49	8.089	.3793
#3	8.336	1.501	8.979	20.55	18.58	8.152	.3770
Elem	V_2924						
Avg	2.484						
SDev	.010						
%RSD	.4187						
#1	2.492						
#2	2.472						
#3	2.487						

Method: ICAP3      Standard: STD2 0761

Elem	Ti3349	Mo2020	Sr4215	B_1826
Avge	4.086	.4897	2.110	7.271
SDev	.011	.0009	.006	.019
%RSD	.2722	.1801	.2964	.2682
#1	4.099	.4907	2.116	7.290
#2	4.078	.4890	2.104	7.251
#3	4.082	.4893	2.110	7.271

Method: ICAP3      Standard: STD4 0775

Elem	Fe
Avge	10.84
SDev	.10
%RSD	.9516
#1	10.75
#2	10.82
#3	10.95

Method: ICAP3      Slope = Conc(SIR)/TR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
As1890	189.042	STD3 0729	STD1-Blank	4.28398	.002856	03/04/94 09:22:37
Ba4934	493.409	STD3 0729	STD1-Blank	1.52303	-.000247	03/04/94 09:22:37
Cd2144	214.423	STD3 0729	STD1-Blank	.112980	.000182	03/04/94 09:22:37
Cr2677	267.716	STD3 0729	STD1-Blank	.833739	-.001019	03/04/94 09:22:37
Pb2203	220.353	STD3 0729	STD1-Blank	2.81977	-.011436	03/04/94 09:22:37
Sel960	196.026	STD3 0729	STD1-Blank	2.56769	-.005135	03/04/94 09:22:37
Ag3280	328.068	STD3 0729	STD1-Blank	4.08126	-.005668	03/04/94 09:22:37
Cu3247	324.754	STD3 0729	STD1-Blank	5.06130	-.001125	03/04/94 09:22:37
Zn2138	213.856	STD3 0729	STD1-Blank	1.92140	-.002348	03/04/94 09:22:37
Ni2316	231.604	STD3 0729	STD1-Blank	1.24073	.001720	03/04/94 09:22:37
Tl1908	190.864	STD3 0729	STD1-Blank	5.13259	-.002566	03/04/94 09:22:37
Fe	259.940	STD3 0729	STD1-Blank	2.32084	-.006705	03/04/94 09:22:37
Fe	385.958	STD4 0775	STD1-Blank	18.2927	1.73374	03/04/94 09:22:37
Al3082	308.215	STD3 0729	STD1-Blank	3.65441	-.028220	03/04/94 09:22:37
Be3130	313.042	STD3 0729	STD1-Blank	.788022	-.000525	03/04/94 09:22:37
Ti3349	334.941	STD2 0761	STD1-Blank	2.44771	-.002176	03/04/94 09:22:37
Mn2576	257.610	STD3 0729	STD1-Blank	.600549	-.000601	03/04/94 09:22:37
Mo2020	202.030	STD2 0761	STD1-Blank	2.41254	-.001340	03/04/94 09:22:37
Sb2068	206.838	STD3 0729	STD1-Blank	6.67904	-.004453	03/04/94 09:22:37
Mg2790	279.079	STD3 0729	STD1-Blank	5.58095	-.010232	03/04/94 09:22:37
Ca3179	317.933	STD3 0729	STD1-Blank	2.43690	-.003114	03/04/94 09:22:37
Na5889	588.995	STD3 0729	STD1-Blank	2.81684	-2.30965	03/04/94 09:22:37
Sr4215	421.552	STD2 0761	STD1-Blank	2.36998	-.000527	03/04/94 09:22:37
Co2286	228.616	STD3 0729	STD1-Blank	.614726	-.000120	03/04/94 09:22:37
K_7664	766.491	STD3 0729	STD1-Blank	140.012	-2.79247	03/04/94 09:22:37
V_2924	292.402	STD3 0729	STD1-Blank	2.01194	.002906	03/04/94 09:22:37



Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
B_1826	182.640	STD2 0761	STD1-Blank	.710631	-.166840	03/04/94 09:22:37

Method: ICAP3      Sample Name: ICV,0772      Operator: SBB  
 Run Time: 03/04/94 09:25:50  
 Comment: IA,N7M3869  
 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	4.781	9.593	2.559	.9989	4.723	4.767	1.296
SDev	.043	.103	.013	.0075	.027	.051	.005
%RSD	.9005	1.070	.4997	.7500	.5808	1.073	.3572
#1	4.829	9.694	2.548	1.005	4.732	4.817	1.301
#2	4.769	9.597	2.573	1.001	4.744	4.769	1.295
#3	4.745	9.489	2.557	.9907	4.692	4.715	1.292

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
Avg	1.333	2.550	2.618	4.541	4.836	9.940	.2541
SDev	.012	.020	.007	.019	.041	.073	.0020
%RSD	.9345	.7661	.2842	.4282	.8382	.7363	.7916
#1	1.343	2.566	2.624	4.552	4.871	10.01	.2559
#2	1.338	2.555	2.620	4.553	4.845	9.945	.2544
#3	1.319	2.528	2.610	4.519	4.791	9.864	.2520

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
Avg	4.804	2.597	.2597	4.758	23.84	24.37	24.48
SDev	.042	.018	.0006	.037	.14	.16	.25
%RSD	.8805	.6752	.2336	.7780	.5925	.6723	1.033
#1	4.844	2.614	.2602	4.799	23.92	24.50	24.68
#2	4.806	2.599	.2590	4.751	23.92	24.43	24.57
#3	4.760	2.579	.2599	4.726	23.68	24.18	24.19

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
Avg	2.608	2.585	23.76	4.856	2.369
SDev	.026	.020	.30	.044	.018
%RSD	1.007	.7596	1.267	.9033	.7710
#1	2.634	2.601	24.09	4.897	2.387

#2	2.608	2.590	23.67	4.860	2.368
#3	2.582	2.563	23.51	4.810	2.351
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: SBB  
 Run Time: 03/04/94 09:29:30  
 Comment: IC,N7M3869  
 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	-.0038	.0009	.0010	-.0006	-.0133	-.0242	-.0052
SDev	.0130	.0001	.0008	.0010	.0065	.0149	.0039
%RSD	341.0	15.18	75.09	160.6	48.88	61.65	75.39

#1	-.0057	.0009	.0018	-.0019	-.0208	-.0415	-.0098
#2	-.0157	.0008	.0002	-.0000	-.0091	-.0158	-.0030
#3	.0100	.0010	.0010	-.0000	-.0100	-.0154	-.0029

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0031	.0005	.0012	-.0110	.0101	-.0406	.0001
SDev	.0056	.0005	.0045	.0050	.0033	.0414	.0001
%RSD	181.6	89.72	365.2	45.44	32.70	101.9	96.04

#1	-.0096	.0003	-.0016	-.0159	.0076	-.0881	.0000
#2	-.0003	.0002	-.0012	-.0059	.0088	-.0117	.0001
#3	.0006	.0011	.0065	-.0112	.0138	-.0221	.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	-.0004	-.0005	-.0024	-.0070	-.0161	.0041	-.0343
SDev	.0008	.0002	.0009	.0207	.0207	.0033	.0697
%RSD	208.2	49.50	38.49	295.0	128.5	80.21	203.5

#1	-.0014	-.0006	-.0029	-.0289	-.0400	.0009	-.1120
#2	.0003	-.0002	-.0029	-.0044	-.0028	.0038	.0227
#3	-.0001	-.0006	-.0013	.0123	-.0056	.0074	-.0135

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0000	-.0023	-.3345	-.0020	.0089
SDev	.0005	.0018	.2602	.0039	.0010
%RSD	2351e6	75.91	77.79	195.3	11.34

#1	.0003	-.0041	-.5289	-.0065	.0093
#2	-.0005	-.0021	-.4356	-.0004	.0096
#3	.0003	-.0007	-.0389	.0009	.0077

Method: ICAP3      Sample Name: CRI,0784      Operator: SBB  
 Run Time: 03/04/94 09:33:10

Failed for Ag  
 Reran / SB  
 3-4-94

Comment: IL,N7M3869

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	.1960	.4020	.0104	.0214	.1339	.1903	Q.0148
SDev	.0107	.0034	.0005	.0032	.0159	.0275	.0113
%RSD	5.460	.8524	4.671	15.17	11.87	14.46	76.65
#1	.1955	.4023	.0104	.0243	.1460	.1853	.0252
#2	.1855	.3984	.0109	.0179	Q.1159	.1656	Q.0027
#3	.2069	.4053	.0100	.0220	.1399	.2199	Q.0164

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
Avgc	.1021	.0386	.0822	.1915	.2003	.3678	.0101
SDev	.0098	.0011	.0070	.0246	.0050	.0733	.0003
%RSD	9.578	2.937	8.570	12.84	2.518	19.94	3.001

#1	.1086	.0380	.0883	.2195	.2043	.4276	.0099
#2	.0908	.0380	.0745	.1735	.1946	Q.2860	.0099
#3	.1069	.0399	.0839	.1815	.2019	.3897	.0104

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
Avgc	-.0012	.0247	.0184	.1066	1.957	10.08	10.02
SDev	.0023	.0006	.0036	.0355	.066	.12	.17
%RSD	189.5	2.310	19.65	33.32	3.369	1.208	1.722

#1	.0007	.0251	.0187	.1207	2.003	10.11	10.12
#2	-.0038	.0240	Q.0147	Q.0662	1.882	9.948	9.825
#3	-.0005	.0248	.0219	Q.1329	1.988	10.19	10.13

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
Avgc	.0000	.0497	9.466	.1016	.0157
SDev	.0005	.0050	.350	.0048	.0024
%RSD	2351e6	9.987	3.700	4.738	15.62

#1	-.0005	.0534	9.669	.1051	.0183
#2	.0003	.0440	9.062	.0961	Q.0134
#3	.0003	.0516	9.669	.1035	.0153

Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB  
 Run Time: 03/04/94 09:37:44  
 Comment: IL,N7M3869  
 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	.1955	.3932	.0102	.0218	.1440	.2051	.0241
SDev	.0094	.0033	.0004	.0015	.0018	.0194	.0028
%RSD	4.788	.8491	3.888	6.810	1.231	9.471	11.78

#1	.1941	.3896	.0097	.0226	.1427	.2152	.0232
#2	.1869	.3937	.0105	.0201	.1432	.1827	.0218
#3	.2055	.3963	.0103	.0227	.1460	.2174	.0272

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
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	.1055	.0393	.0778	.1955	.1983	.4016	.0101
SDev	.0024	.0009	.0029	.0033	.0012	.0021	.0001
%RSD	2.309	2.402	3.787	1.711	.5946	.5203	1.503

#1	.1069	.0388	.0788	.1937	.1981	.3996	.0101
#2	.1069	.0387	.0802	.1993	.1996	.4037	.0099
#3	.1027	.0404	.0745	.1933	.1973	.4014	.0101

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	-.0005	.0242	.0192	0.1315	1.955	9.938	9.887
SDev	.0007	.0004	.0019	.0198	.011	.068	.097
%RSD	129.9	1.652	9.664	15.06	.5576	.6868	.9781

#1	.0003	.0238	.0171	0.1530	1.951	9.864	9.778
#2	-.0010	.0246	.0203	.1140	1.947	9.952	9.923
#3	-.0010	.0242	.0203	0.1273	1.967	9.999	9.961

Errors	NOCHECK	QC Pass	QC Pass	QC Fail	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	.0003	.0528	9.700	.1030	0.0139
SDev	.0000	.0007	.239	.0013	.0004
%RSD	.0000	1.335	2.469	1.232	2.952

#1	.0003	.0536	9.762	.1021	0.0141
#2	.0003	.0525	9.435	.1025	0.0134

#3	.0003	.0523	9.902	.1045	0.0141
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3      Sample Name: ICSA,0775      Operator: SBB  
 Run Time: 03/04/94 09:41:12  
 Comment: IF,N7M3869  
 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	-.0108	.0021	-.0095	-.0044	-.0307	-.0059	-.0043
SDev	.0304	.0002	.0015	.0004	.0122	.0127	.0054
%RSD	283.0	9.085	15.87	9.020	39.88	216.0	125.4

#1	-.0350	.0023	-.0107	-.0049	-.0286	-.0196	-.0104
#2	-.0207	.0019	-.0078	-.0042	-.0196	-.0033	-.0002
#3	.0234	.0020	-.0100	-.0042	-.0438	.0053	-.0023

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0261	.0277	.0021	.0080	179.5	491.2	.0000
SDev	.0052	.0027	.0074	.0090	1.6	4.9	.0000
%RSD	19.71	9.678	359.0	112.5	.8693	1.007	148.7

#1	.0318	.0307	.0100	.0143	178.5	488.4	.0000
#2	.0250	.0268	-.0047	-.0023	178.7	488.3	-.0000
#3	.0216	.0255	.0009	.0120	181.3	497.0	.0000

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					177.0	487.0	
Range					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
Avg	-.0031	-.0029	.0026	.0288	243.4	186.9	-.0343
SDev	.0010	.0003	.0024	.0077	2.2	1.7	.0353
%RSD	32.83	9.117	90.84	26.78	.8885	.8888	102.9

#1	-.0022	-.0028	.0032	.0238	241.9	185.8	-.0318
#2	-.0030	-.0032	.0000	.0249	242.4	186.2	-.0003
#3	-.0042	-.0027	.0047	.0376	245.9	188.8	-.0707

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0071	-.0035	-.3111	-.0015	.1747

SDev	.0005	.0008	.3618	.0024	.0015
%RSD	6.415	23.22	116.3	156.0	.8466
#1	.0066	-.0028	-.3189	-.0041	.1764
#2	.0074	-.0033	.0544	.0006	.1736
#3	.0074	-.0044	-.6689	-.0010	.1743
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value					
Range					

Method: ICAP3      Sample Name: ICSAB,0786      Operator: SBB  
 Run Time: 03/04/94 09:45:08  
 Comment: IG,N7M3869  
 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	.9363	.4755	.8939	.4673	.8526	.9255	.9397
SDev	.0411	.0022	.0064	.0008	.0069	.0109	.0071
%RSD	4.386	.4565	.7166	.1794	.8099	1.179	.7565
#1	.9489	.4762	.8985	.4672	.8530	.9175	.9431
#2	.9696	.4772	.8866	.4681	.8593	.9210	.9444
#3	.8904	.4731	.8966	.4665	.8455	.9379	.9315
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
Avg	.5074	.9467	.8901	.8739	176.1	489.0	.4694
SDev	.0010	.0037	.0007	.0087	.5	1.8	.0015
%RSD	.1921	.3869	.0828	.9989	.2995	.3615	.3274
#1	.5085	.9463	.8909	.8786	176.3	489.7	.4701
#2	.5068	.9505	.8898	.8638	176.4	490.3	.4706
#3	.5068	.9432	.8895	.8792	175.5	487.0	.4677
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
Avg	.9100	.4535	.9414	.9236	498.9	228.9	.9565
SDev	.0036	.0016	.0032	.0112	1.4	.6	.0102
%RSD	.3985	.3493	.3355	1.217	.2747	.2701	1.063
#1	.9112	.4539	.9404	.9121	499.7	229.3	.9551
#2	.9129	.4549	.9449	.9243	499.7	229.3	.9471
#3	.9059	.4518	.9388	.9346	497.3	228.2	.9673
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	.9454	.4438	.4823	.4486	1.084		
SDev	.0037	.0011	.1151	.0023	.002		
%RSD	.3949	.2384	23.87	.5134	.1694		
#1	.9467	.4446	0.4045	.4488	1.086		
#2	.9483	.4441	0.4278	.4508	1.084		
#3	.9411	.4426	.6145	.4462	1.082		
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: STD #3      Operator: SEB  
 Run Time: 03/04/94 09:48:51  
 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
Avge	10.03	20.04	5.061	2.001	10.14	10.10	2.525
SDev	.07	.28	.033	.022	.09	.09	.028
%RSD	.7264	1.382	.6587	1.078	.9181	.8710	1.120

#1	10.06	20.15	5.061	2.006	10.15	10.11	2.532
#2	9.948	19.72	5.028	1.977	10.04	10.00	2.494
#3	10.08	20.24	5.095	2.019	10.22	10.17	2.549

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.499	4.971	5.059	9.942	10.03	20.26	.4990
SDev	.033	.056	.056	.121	.12	.26	.0059
%RSD	1.331	1.127	1.116	1.219	1.166	1.265	1.177

#1	2.505	4.982	5.078	9.987	10.08	20.37	.5011
#2	2.463	4.911	4.996	9.804	9.896	19.96	.4924
#3	2.529	5.021	5.104	10.03	10.11	20.44	.5036

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0000	5.001	-.0037	9.996	50.34	50.07	50.22
SDev	.0006	.066	.0013	.106	.54	.55	.72
%RSD	1168e6	1.325	36.60	1.064	1.074	1.093	1.427

#1	-.0001	5.023	-.0046	10.02	50.48	50.27	50.45
#2	-.0005	4.926	-.0021	9.881	49.75	49.46	49.42
#3	.0007	5.053	-.0043	10.09	50.80	50.50	50.80

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0150	5.030	50.27	5.030	.0373		
SDev	.0005	.058	.79	.061	.0017		
%RSD	3.039	1.150	1.572	1.209	4.604		

#1	.0153	5.049	49.88	5.053	.0390
#2	.0145	4.965	49.76	4.961	.0356
#3	.0153	5.076	51.18	5.076	.0373

Method: ICAP3 Sample Name: PBL,N7M3869 MET BLK Operator: SBB  
 Run Time: 03/04/94 09:56:24  
 Comment: N7M3869M,N7M3869,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	.0086	.0009	.0009	.0019	-.0030	-.0148	.0016
SDev	.0057	.0003	.0002	.0034	.0143	.0157	.0021
%RSD	66.67	31.26	20.64	177.5	477.2	105.7	130.9

#1	.0029	.0008	.0009	-.0002	-.0105	-.0312	-.0002
#2	.0086	.0013	.0010	.0059	.0135	-.0133	.0011
#3	.0143	.0008	.0006	.0001	-.0119	-.0000	.0039

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0180	.0072	.0012	-.0051	.0037	.0244	-.0000
SDev	.0005	.0006	.0042	.0042	.0012	.0202	.0000
%RSD	2.708	8.819	336.9	83.14	31.03	82.49	122.1

#1	.0183	.0072	.0059	-.0099	.0049	.0078	-.0000
#2	.0174	.0066	-.0019	-.0028	.0026	.0187	.0000
#3	.0183	.0079	-.0003	-.0025	.0037	.0468	-.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	-.0005	-.0001	-.0007	-.0045	.0152	.0445	-.0418
SDev	.0008	.0000	.0002	.0078	.0120	.0012	.0309
%RSD	150.0	.1846	33.71	174.5	78.72	2.786	73.86

#1	-.0014	-.0001	-.0009	.0000	.0065	.0456	-.0750
#2	-.0005	-.0001	-.0005	-.0135	.0102	.0432	-.0365
#3	.0003	-.0001	-.0005	.0000	.0288	.0448	-.0139

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	-.0005	.0008	-.0700	.0012	.0119
SDev	.0000	.0010	.3311	.0015	.0014
%RSD	.0000	125.4	473.0	125.1	11.64

#1	-.0005	-.0001	-.1322	.0009	.0103
#2	-.0005	.0006	.2878	-.0001	.0129
#3	-.0005	.0018	-.3656	.0029	.0125

Method: ICAP3 Sample Name: LCSL,N7M3869 MET SPK Operator: SBB  
 Run Time: 03/04/94 10:02:13  
 Comment: N7M3869MS,N7M3869,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	4.756	9.736	.9596	5.086	4.779	.9375	.0956
SDev	.072	.171	.0106	.070	.058	.0420	.0037
%RSD	1.516	1.761	1.104	1.376	1.222	4.480	3.920

#1	4.690	9.553	.9474	5.011	4.717	.8908	.0974
#2	4.833	9.892	.9670	5.150	4.834	.9720	.0981
#3	4.746	9.764	.9642	5.097	4.785	.9498	.0913

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	5.123	4.694	4.937	4.808	.0154	-.0149	.9485
SDev	.080	.066	.064	.070	.0010	.0099	.0143
%RSD	1.564	1.400	1.303	1.455	6.519	66.68	1.511

#1	5.034	4.625	4.866	4.740	.0166	-.0134	.9333
#2	5.190	4.756	4.993	4.880	.0148	-.0255	.9618
#3	5.144	4.700	4.950	4.803	.0149	-.0058	.9504

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0012	.9737	1.004	.8909	.0028	.0632	-.0177
SDev	.0006	.0133	.012	.0097	.0043	.0017	.0037
%RSD	50.92	1.367	1.227	1.086	152.8	2.675	20.74

#1	.0019	.9604	.9910	.8892	.0065	.0627	-.0135
#2	.0007	.9870	1.015	.9013	.0037	.0651	-.0200
#3	.0011	.9737	1.007	.8821	-.0019	.0619	-.0196

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0058	.9853	-.3267	.9684	.0273
SDev	.0000	.0163	.2242	.0134	.0008
%RSD	.0000	1.649	68.64	1.382	2.787

#1	.0058	.9681	-.0856	.9547	.0265
#2	.0058	1.000	-.5289	.9815	.0279
#3	.0058	.9874	-.3656	.9691	.0276

Method: ICAP3      Sample Name: SM, JM3815 MIX SPK      Operator: SBB  
 Run Time: 03/04/94 10:08:45  
 Comment: JM3815MS, N7M3869, 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	4.751	9.293	.9392	4.892	4.599	.9758	.0907
SDev	.043	.054	.0022	.040	.048	.0249	.0029
%RSD	.9056	.5793	.2388	.8100	1.047	2.557	3.137

#1	4.727	9.231	.9393	4.847	4.560	.9610	.0898
#2	4.725	9.324	.9369	4.907	4.583	.9618	.0885
#3	4.801	9.325	.9413	4.922	4.653	1.005	.0939

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
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Avge	.0020	.9393	.9843	.8817	.0198	.4315	S3717.
SDev	.0006	.0069	.0077	.0289	.0116	.0024	.
%RSD	30.55	.7292	.7777	3.282	58.61	.5648	.0021
#1	.0019	.9418	.9895	.8590	.0279	.4290	S3717.
#2	.0015	.9446	.9879	.9143	.0251	.4339	S3717.
#3	.0027	.9316	.9755	.8719	.0065	.4315	S3718.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0084	.9595	.0622	.9521	.0641		
SDev	.0005	.0067	.9039	.0063	.0004		
%RSD	5.413	.6960	1453.	.6579	.6399		
#1	.0090	.9639	1.105	.9541	.0644		
#2	.0082	.9627	-.4123	.9571	.0644		
#3	.0082	.9518	-.5056	.9451	.0636		

Method: ICAP3 Sample Name: XX, JM3815 CLJ-CSS-23 Operator: SBB  
 Run Time: 03/04/94 10:16:10  
 Comment: JM3815M,N7M3869,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	.1416	.0007	.0037	-.0087	-.0078	.0011
SDev	.0218	.0023	.0005	.0019	.0101	.0081	.0036
%RSD	611.8	1.628	69.37	50.99	115.8	103.3	316.9
#1	.0285	.1417	.0003	.0058	-.0038	-.0021	.0025
#2	-.0114	.1439	.0012	.0023	-.0020	-.0043	-.0029
#3	-.0064	.1393	.0005	.0029	-.0203	-.0171	.0039
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0124	.0596	.0074	-.0019	.0098	.7299	.0003
SDev	.0017	.0020	.0066	.0029	.0018	.0114	.0001
%RSD	13.64	3.418	89.33	155.9	18.24	1.557	43.05
#1	.0141	.0619	.0070	-.0028	.0118	.7429	.0005
#2	.0107	.0581	.0142	.0014	.0088	.7245	.0003
#3	.0124	.0588	.0010	-.0042	.0088	.7222	.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	-.0004	.0013	.0008	.0040	.0279	.5668	S3718.
SDev	.0006	.0002	.0012	.0101	.0084	.0060	.
%RSD	152.8	18.23	154.0	250.7	30.00	1.056	.0063
#1	-.0005	.0014	.0011	.0055	.0279	.5647	S3718.
#2	-.0010	.0014	.0019	.0133	.0195	.5736	S3718.
#3	.0003	.0010	-.0005	-.0067	.0363	.5622	S3717.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0037	-.0000	-.0778	.0010	.0467		

SDev	.0005	.0009	.7002	.0017	.0019
%RSD	12.37	7947.	900.2	168.2	4.127

#1	.0042	.0011	.6145	.0026	.0459
#2	.0034	-.0005	-.0622	-.0008	.0490
#3	.0034	-.0006	-.7856	.0012	.0454

Method: ICAP3 Sample Name: XX, JM3815 DUPLICATE Operator: SBB

Run Time: 03/04/94 10:19:52

Comment: JM3815MM, N7M3869, 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	.0038	.1406	.0002	.0041	-.0071	.0118	-.0007
SDev	.0184	.0015	.0004	.0010	.0063	.0039	.0046
%RSD	483.8	1.085	165.6	25.82	88.49	32.60	680.3

#1	.0114	.1423	.0003	.0029	-.0090	.0158	-.0043
#2	.0171	.1402	.0006	.0045	-.0001	.0081	-.0023
#3	-.0172	.1394	-.0002	.0048	-.0123	.0116	.0045

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0084	.0573	.0070	-.0070	.0067	.7447	.0002
SDev	.0026	.0012	.0018	.0072	.0012	.0214	.0001
%RSD	30.55	2.162	25.20	102.7	17.60	2.878	85.14

#1	.0090	.0587	.0086	-.0127	.0064	.7269	.0000
#2	.0056	.0566	.0073	-.0095	.0057	.7386	.0003
#3	.0107	.0566	.0051	.0011	.0080	.7685	.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	.0003	.0012	.0008	-.0042	.0257	.4615	S3718.
SDev	.0004	.0003	.0024	.0209	.0149	.0022	.
%RSD	150.0	24.77	307.3	502.8	58.09	.4657	.0072

#1	.0003	.0010	.0003	-.0145	.0149	.4640	S3718.
#2	-.0001	.0010	-.0013	-.0179	.0195	.4599	S3718.
#3	.0007	.0015	.0035	.0199	.0428	.4607	S3718.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0042	.0009	-.0078	-.0009	.0603
SDev	.0000	.0015	.2560	.0028	.0019
%RSD	.0000	173.8	3291.	310.9	3.067

#1	.0042	-.0003	-.1556	-.0031	.0615
#2	.0042	.0004	-.1556	-.0018	.0613
#3	.0042	.0026	.2878	.0022	.0582

Method: ICAP3 Sample Name: XX, JM3816 CLJ-CSS-24 Operator: SBB

Run Time: 03/04/94 10:23:53

Comment: JM3816M,N7M3869,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	-.0038	.2642	.0031	.0030	-.0112	-.0040	.0025
SDev	.0042	.0021	.0001	.0010	.0097	.0078	.0036
%RSD	110.3	.7906	2.016	35.60	87.25	194.6	144.6

#1	-.0007	.2621	.0031	.0037	-.0183	-.0009	.0011
#2	-.0021	.2663	.0032	.0018	-.0001	.0017	-.0002
#3	-.0086	.2642	.0032	.0034	-.0151	-.0128	.0066

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0098	.4162	.0102	-.0028	.0165	.6814	.0001
SDev	.0022	.0026	.0044	.0038	.0024	.0290	.0001
%RSD	22.68	.6216	42.64	136.4	14.58	4.263	177.5

#1	.0090	.4133	.0110	-.0070	.0138	.6479	.0003
#2	.0082	.4182	.0142	.0001	.0173	.6972	-.0000
#3	.0124	.4171	.0055	-.0013	.0185	.6992	-.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	.0027	.0390	-.0016	.0082	.0493	.4108	S3714.
SDev	.0008	.0005	.0012	.0171	.0264	.0041	.
%RSD	30.00	1.293	76.33	209.8	53.50	1.004	.0077

#1	.0019	.0384	-.0030	-.0034	.0195	.4063	S3715.
#2	.0027	.0394	-.0005	.0000	.0586	.4116	S3714.
#3	.0035	.0390	-.0013	.0278	.0698	.4144	S3714.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0118	-.0002	-.1322	.0016	.1271
SDev	.0005	.0012	.2034	.0018	.0025
%RSD	3.849	628.3	153.8	113.6	1.960

#1	.0121	-.0011	.1011	.0002	.1245
#2	.0113	-.0006	-.2256	.0009	.1295
#3	.0121	.0012	-.2722	.0036	.1272

Method: ICAP3 Sample Name: XX, JM3817 CLJ-CSS-25 Operator: SBB

Run Time: 03/04/94 10:27:35

Comment: JM3817M,N7M3869,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	.0045	.4322	.0015	.0121	.0039	-.0045	-.0000
SDev	.0096	.0039	.0002	.0008	.0098	.0077	.0024
%RSD	211.8	.9037	16.53	6.939	253.1	169.5	17530.

#1	.0086	.4290	.0017	.0122	.0124	.0043	-.0023
#2	-.0064	.4310	.0016	.0112	.0062	-.0089	.0025
#3	.0114	.4366	.0012	.0128	-.0069	-.0089	-.0002

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0188	.9215	.0081	-.0030	.2380	.9510	.0001
SDev	.0034	.0091	.0054	.0089	.0055	.0198	.0001
%RSD	18.10	.9916	66.94	293.1	2.296	2.087	172.2
#1	.0183	.9151	.0077	-.0101	.2347	.9421	.0003
#2	.0157	.9174	.0029	-.0059	.2350	.9371	-.0000
#3	.0225	.9320	.0136	.0069	.2443	.9737	.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	.0061	.1279	.0011	.0064	.0989	1.807	S3718.
SDev	.0013	.0012	.0016	.0186	.0264	.017	.
%RSD	21.43	.9389	150.1	290.8	26.67	.9601	.0021
#1	.0056	.1267	-.0005	.0031	.0856	1.791	S3718.
#2	.0052	.1279	.0027	-.0103	.0819	1.805	S3718.
#3	.0076	.1291	.0011	.0264	.1293	1.825	S3718.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0163	.0023	.5289	-.0003	.1489		
SDev	.0005	.0015	.2168	.0008	.0020		
%RSD	2.794	65.80	40.99	302.2	1.369		
#1	.0161	.0025	.4278	.0002	.1465		
#2	.0169	.0007	.3811	.0002	.1497		
#3	.0161	.0038	.7778	-.0012	.1503		

Method: ICAP3 Sample Name: XX, JM3818 CLJ-CSS-26 Operator: SEB  
 Run Time: 03/04/94 10:31:28  
 Comment: JM3818M, N7M3869, 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	.0035	.3932	.0010	.0060	.0158	.0154	.0009
SDev	.0115	.0020	.0005	.0033	.0198	.0056	.0075
%RSD	323.9	.5086	50.35	55.45	125.0	36.05	827.2
#1	-.0086	.3909	.0007	.0052	.0024	.0124	.0018
#2	.0050	.3942	.0008	.0031	.0066	.0120	.0079
#3	.0142	.3946	.0017	.0097	.0386	.0219	-.0070
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0087	1.374	.0148	.0080	.1458	.6610	.0002
SDev	.0013	.008	.0050	.0037	.0012	.0282	.0001
%RSD	14.78	.5471	33.59	46.40	.8088	4.268	87.17
#1	.0073	1.365	.0091	.0058	.1448	.6320	-.0000
#2	.0098	1.377	.0174	.0122	.1471	.6626	.0003
#3	.0090	1.379	.0180	.0058	.1456	.6884	.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	.0048	.0120	.0035	-.0009	.0726	2.456	S3718.
SDev	.0007	.0003	.0042	.0222	.0089	.013	.
%RSD	14.85	2.207	119.7	2478.	12.23	.5254	.0064

#1	.0044	.0118	.0011	-.0224	.0623	2.441	S3718.
#2	.0056	.0123	.0011	-.0023	.0772	2.464	S3718.
#3	.0044	.0119	.0083	.0220	.0781	2.463	S3717.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0153	.0024	.8790	.0005	.1446
SDev	.0000	.0019	1.249	.0034	.0012
%RSD	.0000	79.38	142.1	634.3	.8082

#1	.0153	.0009	.0778	.0012	.1454
#2	.0153	.0017	.2411	.0036	.1451
#3	.0153	.0045	2.318	-.0032	.1432

Method: ICAP3 Sample Name: CCV,0777

Operator: SBB

Run Time: 03/04/94 10:34:30

Comment: IB,N7M3869

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	2.338	4.743	1.270	.4911	2.381	2.377	.6106
SDev	.025	.058	.004	.0062	.019	.022	.0029
%RSD	1.073	1.222	.2768	1.265	.8185	.9407	.4735

#1	2.364	4.802	1.274	.4982	2.402	2.402	.6138
#2	2.335	4.686	1.267	.4868	2.364	2.358	.6083
#3	2.314	4.740	1.270	.4882	2.377	2.371	.6097

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
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	.6363	1.238	1.299	2.283	2.380	4.780	.1228
SDev	.0034	.010	.015	.045	.022	.045	.0014
%RSD	.5327	.7963	1.162	1.977	.9223	.9424	1.159

#1	.6397	1.246	1.314	2.328	2.402	4.807	.1243
#2	.6329	1.227	1.284	2.237	2.358	4.728	.1215
#3	.6363	1.241	1.301	2.284	2.379	4.805	.1228

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
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	2.386	1.269	.1231	2.370	12.26	12.03	12.28

SDev	.027	.011	.0022	.039	.14	.12	.16
%RSD	1.146	.8895	1.781	1.632	1.125	.9748	1.290
#1	2.413	1.279	.1252	2.397	12.39	12.14	12.46
#2	2.359	1.256	.1209	2.326	12.12	11.91	12.18
#3	2.386	1.271	.1233	2.387	12.29	12.03	12.20
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
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	1.278	1.285	12.40	2.407	1.159		
SDev	.015	.013	.23	.025	.010		
%RSD	1.177	.9841	1.815	1.038	.8667		
#1	1.293	1.296	12.66	2.432	1.167		
#2	1.263	1.271	12.24	2.382	1.148		
#3	1.277	1.287	12.31	2.409	1.161		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.310	1.280	11.92	2.410	1.210		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3      Sample Name: CCB  
 Run Time: 03/04/94 10:37:46  
 Comment: ID,N7M3869  
 Mode: CONC      Corr. Factor: 1

Operator: SEB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0067	.0014	.0004	.0005	.0019	-.0120	.0027
SDev	.0281	.0004	.0004	.0012	.0139	.0108	.0027
%RSD	420.8	32.09	83.69	243.1	736.4	90.14	101.0
#1	.0214	.0015	.0009	.0009	.0017	-.0193	-.0002
#2	-.0257	.0009	.0002	-.0009	-.0119	-.0171	.0032
#3	.0243	.0017	.0003	.0015	.0158	.0004	.0052
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0045	.0032	.0047	-.0038	.0111	.0111	.0001
SDev	.0026	.0011	.0024	.0080	.0015	.0152	.0000
%RSD	57.26	34.15	51.40	211.0	13.93	137.1	.3465
#1	.0039	.0039	.0065	-.0048	.0111	.0115	.0001
#2	.0023	.0037	.0020	-.0112	.0095	-.0043	.0001
#3	.0073	.0019	.0057	.0046	.0126	.0261	.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	.0007	.0001	-.0025	.0149	.0146	.0050	.1002
SDev	.0007	.0004	.0011	.0072	.0014	.0014	.0147
%RSD	103.9	622.5	41.72	48.10	9.750	28.09	14.64



#1	.0011	.0004	-.0034	.0067	.0149	.0042	.0926
#2	-.0001	-.0004	-.0029	.0201	.0130	.0042	.0908
#3	.0011	.0002	-.0013	.0178	.0158	.0066	.1171

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	-.0005	.0012	-.0700	.0018	.0048		
SDev	.0000	.0016	.1482	.0005	.0022		
%RSD	.0000	138.3	211.7	28.62	45.92		

#1	-.0005	.0015	-.1556	.0012	.0069		
#2	-.0005	-.0006	.1011	.0019	.0049		
#3	-.0005	.0026	-.1556	.0022	.0025		

Method: ICAP3 Sample Name: XX, JM3819 CLJ-CSS-27 Operator: SBB

Run Time: 03/04/94 10:41:21

Comment: JM3819M, N7M3869, 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	.0095	.3085	-.0001	.0026	-.0086	-.0061	.0007
SDev	.0120	.0022	.0004	.0006	.0068	.0065	.0126
%RSD	125.8	.6992	721.8	21.44	78.58	106.0	1868.

#1	.0171	.3078	.0002	.0031	-.0163	-.0073	.0066
#2	.0157	.3110	.0002	.0026	-.0060	.0009	-.0138
#3	-.0043	.3069	-.0005	.0020	-.0036	-.0120	.0093

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0059	.1718	.0071	-.0040	.0151	1.316	.0002
SDev	.0046	.0010	.0033	.0100	.0018	.024	.0001
%RSD	78.69	.5918	46.71	251.8	12.11	1.839	83.46

#1	.0090	.1708	.0081	-.0153	.0165	1.343	.0003
#2	.0006	.1728	.0034	-.0005	.0130	1.296	.0000
#3	.0082	.1718	.0097	.0038	.0157	1.310	.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	.0024	.0027	-.0013	.0026	.0496	.9259	S3717.
SDev	.0013	.0005	.0012	.0198	.0215	.0070	.
%RSD	50.92	18.54	89.74	772.5	43.26	.7564	.0055

#1	.0027	.0027	-.0013	.0167	.0586	.9197	S3717.
#2	.0011	.0022	-.0025	-.0201	.0251	.9335	S3718.
#3	.0035	.0032	-.0001	.0111	.0651	.9245	S3717.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0100	.0008	.1478	-.0006	.1394		
SDev	.0005	.0018	.4873	.0054	.0012		
%RSD	4.558	237.9	329.7	965.5	.8595		

#1	.0097	.0015	.7078	.0022	.1400		
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Avge	.0048	.3365	-.0004	.0032	-.0015	-.0172	-.0007
SDev	.0090	.0052	.0007	.0006	.0152	.0198	.0083
%RSD	189.1	1.546	152.2	17.87	990.5	115.3	1218.
#1	-.0036	.3398	.0001	.0034	.0086	.0001	.0066
#2	.0036	.3392	-.0012	.0026	-.0191	-.0389	-.0098
#3	.0143	.3305	-.0003	.0037	.0058	-.0128	.0011
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0025	.2095	.0062	-.0131	.2671	.4887	.0001
SDev	.0054	.0027	.0038	.0082	.0046	.0470	.0001
%RSD	211.6	1.290	60.81	62.44	1.713	9.612	97.82
#1	.0056	.2087	.0080	-.0063	.2724	.5134	.0003
#2	-.0037	.2125	.0019	-.0223	.2643	.4346	.0000
#3	.0056	.2073	.0087	-.0109	.2647	.5183	.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	.0031	.0196	-.0016	-.0142	.0375	1.273	S3718.
SDev	.0008	.0006	.0012	.0345	.0271	.011	.
%RSD	26.09	3.083	77.17	243.4	72.26	.8369	.0039
#1	.0039	.0202	-.0005	-.0134	.0493	1.283	S3718.
#2	.0023	.0190	-.0029	-.0491	.0065	1.275	S3717.
#3	.0031	.0195	-.0013	.0200	.0567	1.262	S3718.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0126	.0009	.3734	.0002	.1349		
SDev	.0005	.0025	.5484	.0041	.0026		
%RSD	3.608	270.6	146.9	2087.	1.935		
#1	.0129	.0023	.9179	.0022	.1375		
#2	.0129	-.0019	-.1789	-.0045	.1347		
#3	.0121	.0024	.3811	.0029	.1323		

Method: ICAP3      Sample Name: XX,JM3822 CLJ-CSS-30      Operator: SEB  
Run Time: 03/04/94 10:52:59  
Comment: JM3822M,N7M3869,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	.2624	.0017	.0045	.0072	-.0048	-.0002
SDev	.0046	.0031	.0004	.0019	.0102	.0072	.0048
%RSD	484.8	1.163	22.41	42.06	142.6	148.1	2053.
#1	-.0043	.2652	.0013	.0027	-.0005	-.0086	-.0057
#2	.0043	.2592	.0020	.0065	.0188	.0034	.0018
#3	-.0028	.2627	.0019	.0043	.0032	-.0094	.0032
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	1.474	.0072	-.0085	.0243	1.498	.0002

SDev	.0015	.018	.0016	.0026	.0009	.011	.0001
%RSD	22.57	1.221	21.64	30.97	3.656	.7363	85.38
#1	.0082	1.490	.0063	-.0079	.0254	1.508	.0000
#2	.0056	1.455	.0090	-.0113	.0238	1.486	.0003
#3	.0056	1.478	.0063	-.0062	.0238	1.501	.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	.0044	.0456	.0001	.0051	.0716	.8694	S3716.
SDev	.0000	.0005	.0030	.0202	.0185	.0094	.
%RSD	.0000	1.014	2301.	394.8	25.88	1.076	.0065
#1	.0044	.0458	.0035	.0199	.0930	.8774	S3716.
#2	.0044	.0450	-.0022	.0133	.0614	.8591	S3716.
#3	.0044	.0458	-.0009	-.0179	.0605	.8717	S3716.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0088	.0021	.3423	-.0002	.1440		
SDev	.0002	.0006	.3045	.0021	.0017		
%RSD	2.585	26.29	88.99	888.0	1.155		
#1	.0090	.0027	.1011	-.0025	.1442		
#2	.0086	.0022	.6845	.0016	.1423		
#3	.0090	.0016	.2411	.0002	.1456		

Method: ICAP3 Sample Name: XX, JM3823 CLJ-CSS-31 Operator: SBB  
 Run Time: 03/04/94 10:56:43  
 Comment: JM3823M, N7M3869, 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	.0057	.3266	.0038	.0010	.0062	-.0091	-.0064
SDev	.0187	.0012	.0006	.0029	.0126	.0138	.0084
%RSD	325.8	.3794	15.08	287.6	203.9	150.8	131.6
#1	.0143	.3280	.0031	-.0021	-.0018	-.0248	-.0159
#2	.0186	.3257	.0042	.0036	.0207	.0009	-.0002
#3	-.0157	.3262	.0040	.0016	-.0004	-.0034	-.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	.0166	1.434	.0050	-.0144	.0454	.1829	.0001
SDev	.0075	.005	.0053	.0094	.0047	.0722	.0001
%RSD	45.20	.3614	107.2	65.37	10.34	39.45	80.53
#1	.0082	1.439	-.0012	-.0222	.0400	.1020	.0000
#2	.0225	1.429	.0079	-.0172	.0485	.2405	.0001
#3	.0191	1.433	.0082	-.0039	.0478	.2063	.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	.0004	.0505	-.0023	-.0033	.0177	.4076	S3717.
SDev	.0023	.0006	.0020	.0230	.0468	.0083	.

%RSD	568.6	1.129	86.93	686.0	264.6	2.035	.0065
#1	-.0022	.0498	-.0045	-.0289	-.0353	.3982	S3717.
#2	.0023	.0509	-.0009	.0033	.0530	.4112	S3717.
#3	.0011	.0506	-.0013	.0156	.0353	.4136	S3718.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0097	-.0007	-.3423	-.0020	.1628		
SDev	.0000	.0028	.4089	.0044	.0001		
%RSD	.0000	383.3	119.5	219.4	.0840		
#1	.0097	-.0039	-.7623	-.0068	.1627		
#2	.0097	.0011	.0544	.0019	.1629		
#3	.0097	.0007	-.3189	-.0011	.1629		

Method: ICAP3 Sample Name: XX, JM3824 CLJ-CSS-32 Operator: SBB  
 Run Time: 03/04/94 11:00:22  
 Comment: JM3824M, N7M3869, 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	.0009	.2901	.0007	.0064	.0148	.0019	-.0005
SDev	.0036	.0027	.0007	.0031	.0266	.0247	.0024
%RSD	387.3	.9343	95.60	47.82	180.2	1298.	526.3

#1	.0014	.2927	.0015	.0100	.0453	.0253	-.0002
#2	.0043	.2873	.0002	.0051	-.0031	.0043	-.0029
#3	-.0029	.2904	.0005	.0043	.0021	-.0239	.0018

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0037	1.251	.0104	-.0024	.2510	.8951	.0001
SDev	.0034	.011	.0020	.0087	.0006	.0186	.0001
%RSD	93.28	.8805	18.88	359.8	.2352	2.080	99.89

#1	-.0003	1.260	.0099	-.0122	.2512	.8799	-.0000
#2	.0056	1.239	.0126	.0047	.2504	.8896	.0001
#3	.0056	1.255	.0088	.0002	.2515	.9159	.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	.0004	.0153	.0010	.0032	.0347	.7357	S3717.
SDev	.0008	.0003	.0008	.0308	.0159	.0032	.
%RSD	208.2	1.992	87.38	969.7	45.80	.4312	.0134

#1	-.0005	.0150	.0019	-.0214	.0242	.7377	S3718.
#2	.0011	.0154	.0007	-.0068	.0270	.7320	S3718.
#3	.0007	.0156	.0003	.0377	.0530	.7373	S3717.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0074	.0021	.8401	.0001	.1252		
SDev	.0004	.0004	.5553	.0005	.0027		
%RSD	5.357	19.11	66.10	612.7	2.158		

#1	.0078	.0020	1.338	.0002	.1276
#2	.0074	.0018	.2411	-.0005	.1223
#3	.0070	.0025	.9412	.0005	.1257

Method: ICAP3 Sample Name: XX, JM3825 CLJ-CSS-33 Operator: SBB  
 Run Time: 03/04/94 11:04:00  
 Comment: JM3825M, N7M3869, 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	-.0062	.3566	.0001	.0029	.0024	-.0016	.0009
SDev	.0103	.0011	.0003	.0008	.0021	.0096	.0027
%RSD	166.9	.3102	183.9	27.89	87.92	611.4	303.1

#1	-.0114	.3579	.0004	.0023	.0044	-.0120	-.0023
#2	-.0129	.3561	.0002	.0038	.0002	.0068	.0025
#3	.0057	.3559	-.0001	.0026	.0026	.0004	.0025

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.1884	.0142	-.0055	.0272	.9011	.0002
SDev	.0015	.0006	.0051	.0115	.0011	.0062	.0001
%RSD	103.9	.3219	35.77	210.0	4.100	.6858	35.57

#1	.0006	.1883	.0085	-.0177	.0285	.9054	.0003
#2	.0031	.1878	.0159	.0051	.0265	.9038	.0001
#3	.0006	.1890	.0181	-.0038	.0265	.8940	.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	.0015	.0021	-.0009	.0037	.0375	.4382	S3717.
SDev	.0008	.0004	.0014	.0100	.0124	.0020	.
%RSD	54.55	17.75	154.5	271.6	33.02	.4665	.0083

#1	.0007	.0023	.0007	.0044	.0233	.4363	S3717.
#2	.0023	.0024	-.0013	-.0067	.0437	.4404	S3717.
#3	.0015	.0017	-.0021	.0134	.0456	.4380	S3717.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0071	.0017	.2567	.0008	.1341
SDev	.0002	.0011	.1327	.0020	.0014
%RSD	3.208	69.66	51.69	259.8	1.003

#1	.0070	.0004	.1478	-.0011	.1335
#2	.0074	.0027	.2178	.0029	.1357
#3	.0070	.0018	.4045	.0006	.1332

Method: ICAP3 Sample Name: LD, JM3824 X5 Operator: SBB  
 Run Time: 03/04/94 11:07:50  
 Comment: JM3824ML, N7M3869, 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
Avge	-.0010	.0541	.0000	.0044	-.0084	-.0067	.0005
SDev	.0130	.0002	.0003	.0019	.0023	.0106	.0041
%RSD	1344.	.3119	33250.	42.43	28.03	158.4	915.3

#1	.0043	.0540	-.0004	.0033	-.0107	-.0188	-.0023
#2	-.0157	.0539	.0001	.0066	-.0084	-.0021	-.0016
#3	.0086	.0543	.0003	.0034	-.0060	.0009	.0052

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	.2449	.0045	-.0001	.0553	.2183	.0001
SDev	.0045	.0021	.0024	.0053	.0063	.0404	.0001
%RSD	793.6	.8619	51.85	5340.	11.34	18.51	87.99

#1	-.0011	.2429	.0064	-.0059	.0513	.1977	.0001
#2	-.0028	.2471	.0053	.0010	.0625	.1923	.0001
#3	.0056	.2446	.0019	.0046	.0521	.2648	-.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	.0005	.0029	-.0000	.0025	.0298	.1650	275.8
SDev	.0005	.0003	.0017	.0123	.0187	.0022	2.1
%RSD	86.60	10.35	63320.	490.6	62.73	1.302	.7743

#1	.0003	.0029	-.0013	-.0090	.0167	.1642	276.6
#2	.0003	.0026	-.0005	.0010	.0214	.1634	277.4
#3	.0011	.0032	.0019	.0155	.0512	.1675	273.4

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0034	.0016	.4123	-.0002	.0642
SDev	.0000	.0025	.1174	.0017	.0039
%RSD	.0000	154.0	28.49	728.6	6.011

#1	.0034	.0005	.5212	-.0018	.0625
#2	.0034	-.0001	.2878	-.0005	.0686
#3	.0034	.0045	.4278	.0016	.0615

Method: ICAP3 Sample Name: AS, JM3824, 0770 9:1PS Operator: SEB

Run Time: 03/04/94 11:12:03

Comment: JM3824MP, N7M3869, 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	5.191	10.36	1.028	5.315	5.031	1.036	.1033
SDev	.015	.03	.009	.013	.011	.015	.0034
%RSD	.2821	.3288	.9003	.2536	.2244	1.429	3.313

#1	5.183	10.33	1.024	5.302	5.022	1.023	.1064
#2	5.182	10.36	1.022	5.329	5.044	1.052	.1037
#3	5.208	10.40	1.039	5.315	5.029	1.032	.0996

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
------	--------	--------	--------	--------	----	--------	--------





Avge	-.0010	-.0000	.0001	.0010	.0090	.1344	S3734.
SDev	.0014	.0001	.0010	.0088	.0056	.0020	.
%RSD	148.5	172.8	791.7	841.6	62.36	1.521	.0034
#1	.0007	.0000	.0003	.0077	.0037	.1366	S3734.
#2	-.0018	-.0000	.0011	-.0090	.0149	.1325	S3734.
#3	-.0018	-.0001	-.0009	.0044	.0084	.1342	S3734.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0018	.0008	.1478	-.0006	.0531		
SDev	.0000	.0011	.3592	.0012	.0012		
%RSD	.0000	134.3	243.1	210.0	2.291		
#1	.0018	.0011	.2411	.0006	.0544		
#2	.0018	-.0004	-.2489	-.0018	.0527		
#3	.0018	.0017	.4512	-.0004	.0520		

Method: ICAP3 Sample Name: CCV,0777 Operator: SEB  
 Run Time: 03/04/94 11:18:35  
 Comment: IB,N7M3869  
 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	2.361	4.779	1.285	.4868	2.381	2.374	.6097
SDev	.020	.021	.002	.0009	.003	.035	.0012
%RSD	.8500	.4414	.1693	.1909	.1301	1.474	.1969
#1	2.340	4.755	1.282	.4876	2.378	2.334	.6083
#2	2.363	4.790	1.285	.4871	2.381	2.398	.6104
#3	2.380	4.793	1.287	.4858	2.384	2.389	.6104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
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	.6369	1.240	1.309	2.298	2.390	4.809	.1237
SDev	.0010	.007	.004	.016	.008	.013	.0004
%RSD	.1536	.5625	.3047	.7086	.3142	.2658	.3168
#1	.6363	1.232	1.305	2.279	2.381	4.799	.1233
#2	.6363	1.241	1.313	2.308	2.392	4.805	.1238
#3	.6380	1.246	1.308	2.306	2.396	4.823	.1241
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
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	2.403	1.277	.1218	2.343	12.37	12.12	12.27
SDev	.010	.006	.0027	.018	.05	.06	.01
%RSD	.4076	.4940	2.251	.7683	.4253	.4547	.0598

#1	2.392	1.271	.1249	2.340	12.33	12.06	12.27
#2	2.407	1.277	.1208	2.363	12.36	12.13	12.27
#3	2.410	1.283	.1196	2.327	12.43	12.17	12.26
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
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	1.286	1.289	12.03	2.417	1.166		
SDev	.006	.003	.31	.010	.008		
%RSD	.4444	.2049	2.538	.4284	.6595		
#1	1.279	1.287	12.38	2.405	1.158		
#2	1.289	1.287	11.89	2.423	1.168		
#3	1.290	1.292	11.82	2.423	1.173		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.310	1.280	11.92	2.410	1.210		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB  
 Run Time: 03/04/94 11:21:44  
 Comment: ID,N7M3869  
 Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0024	.0009	.0006	.0007	-.0076	.0097	-.0005
SDev	.0108	.0006	.0005	.0004	.0054	.0011	.0010
%RSD	453.9	70.87	84.66	64.26	70.99	11.11	230.2
#1	.0100	.0016	.0008	.0005	-.0058	.0086	.0005
#2	-.0100	.0005	.0000	.0012	-.0034	.0098	-.0016
#3	.0071	.0005	.0009	.0004	-.0137	.0107	-.0002
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	.0032	.0005	-.0108	.0049	-.0363	.0001
SDev	.0013	.0022	.0041	.0087	.0008	.0171	.0000
%RSD	229.2	66.71	770.4	81.25	15.78	47.09	.4828
#1	-.0003	.0057	-.0009	-.0180	.0049	-.0166	.0001
#2	.0006	.0021	-.0027	-.0132	.0041	-.0446	.0001
#3	-.0020	.0019	.0052	-.0011	.0057	-.0476	.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	-.0005	-.0001	-.0011	-.0059	-.0099	-.0001	.0765
SDev	.0004	.0001	.0026	.0047	.0014	.0031	.0047
%RSD	75.00	86.72	240.8	78.57	14.32	2272.	6.206
#1	-.0001	.0000	.0019	-.0112	-.0084	.0034	.0795
#2	-.0010	-.0002	-.0030	-.0044	-.0102	-.0015	.0710



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	.0003	.0525	9.871	.1044	Q.0123
SDev	.0000	.0004	.634	.0034	.0011
%RSD	.0000	.7854	6.419	3.219	8.882

#1	.0003	.0530	10.60	.1018	Q.0129
#2	.0003	.0524	9.482	.1031	Q.0129
#3	.0003	.0522	9.529	.1082	Q.0111

Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3      Sample Name: ICSA,0775      Operator: SBB  
 Run Time: 03/04/94 11:29:58  
 Comment: IF,N7M3869  
 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	.0154	.0016	-.0101	-.0058	-.0407	.0107	-.0054
SDev	.0121	.0004	.0015	.0012	.0139	.0172	.0022
%RSD	78.60	23.18	15.24	21.54	34.04	161.2	40.22

#1	.0064	.0016	-.0086	-.0044	-.0247	.0223	-.0063
#2	.0292	.0013	-.0101	-.0064	-.0494	-.0091	-.0070
#3	.0106	.0020	-.0117	-.0066	-.0480	.0188	-.0029

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0028	.0228	-.0018	.0054	179.4	492.3	.0003
SDev	.0018	.0003	.0019	.0041	1.1	3.5	.0000
%RSD	62.51	1.355	104.8	75.12	.6234	.7109	.6151

#1	.0022	.0228	-.0028	.0008	178.2	488.3	.0003
#2	.0014	.0225	-.0031	.0086	179.7	493.5	.0003
#3	.0048	.0231	.0004	.0069	180.4	495.0	.0003

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					177.0	487.0	
Range					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	-.0038	-.0021	.0014	.0240	245.3	187.3	-.0114
SDev	.0000	.0001	.0029	.0156	1.7	1.3	.0113
%RSD	.0000	5.405	207.3	64.98	.6804	.6703	99.00

#1	-.0038	-.0020	.0048	.0060	243.5	185.9	-.0167
#2	-.0038	-.0022	.0001	.0325	245.6	187.7	-.0191
#3	-.0038	-.0022	-.0006	.0335	246.8	188.4	.0016
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0071	-.0040	.1400	.0003	.1732		
SDev	.0002	.0013	.2012	.0016	.0017		
%RSD	3.208	31.44	143.7	586.4	.9608		
#1	.0074	-.0032	.3578	-.0014	.1747		
#2	.0070	-.0055	.1011	.0005	.1714		
#3	.0070	-.0033	-.0389	.0017	.1733		
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK		
Value							
Range							

Method: ICAP3      Sample Name: ICSAB,0786      Operator: SBB  
 Run Time: 03/04/94 11:33:30  
 Comment: IG,N7M3869  
 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	.9578	.4719	.8912	.4642	.8612	.8983	.9315
SDev	.0142	.0048	.0057	.0053	.0227	.0332	.0126
%RSD	1.482	1.021	.6428	1.134	2.639	3.696	1.354
#1	.9526	.4678	.8949	.4605	.8367	.8905	.9267
#2	.9469	.4706	.8942	.4619	.8816	.8697	.9220
#3	.9738	.4772	.8846	.4702	.8653	.9348	.9458
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	.4874	.9351	.8861	.8797	175.2	487.1	.4698
SDev	.0080	.0103	.0112	.0249	1.6	5.6	.0043
%RSD	1.651	1.099	1.262	2.827	.9007	1.143	.9145
#1	.4799	.9250	.8761	.8540	173.8	482.2	.4661
#2	.4866	.9348	.8840	.8815	174.9	485.9	.4688
#3	.4959	.9455	.8982	.9037	176.9	493.1	.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	.9081	.4537	.9407	.9127	501.8	228.7	1.020
SDev	.0097	.0039	.0092	.0537	4.4	2.0	.015
%RSD	1.072	.8614	.9758	5.885	.8824	.8878	1.456
#1	.9002	.4499	.9354	.8671	497.7	226.9	1.024
#2	.9051	.4535	.9355	.8992	501.3	228.4	1.032
#3	.9190	.4577	.9513	.9719	506.5	230.9	1.003

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	.9392	.4400	0.8634	.4474	1.073
SDev	.0103	.0044	.4111	.0043	.012
%RSD	1.102	.9906	47.61	.9615	1.139
#1	.9305	.4354	0.4045	.4437	1.066
#2	.9364	.4404	01.198	.4463	1.067
#3	.9506	.4441	0.9879	.4521	1.088

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.9516	.4323	.5666	.4458	1.083
Range	20.00	20.00	20.00	20.00	20.00

7N/CCLP40, F, TCLP  
 7N/CCLP PB/F/TCLP 0011  
 7N/CCLP ~~54~~ F/TCLP  
 0014

QC BATCH # N7M3870

Analyst: BJF Date: 3/1/94 Method #: 3020 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> G41050

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> G17802

H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_

KMNO<sub>4</sub> \_\_\_\_\_

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> \_\_\_\_\_

NH<sub>2</sub>OH HCL \_\_\_\_\_

NaCl \_\_\_\_\_

SnCl<sub>2</sub> \_\_\_\_\_

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA \_\_\_\_\_ mL \_\_\_\_\_

Stock Hg \_\_\_\_\_

TCLP 0770mL 5.0m

ASC #	Job #	Sample ID	Vf	Wf	F	Filtered	Comments
MTH BLK			30	50			0
MTH SPK							18.54
1	TCLP	BLK					0
2	JM3815	15226N C105823					
3	3816	24					
4	3817	25					
5	3818	26					
6	3819	27					
7	3820	28					
8	3821	29					
9	3822	30					
10	3823	31					
11	3824	32					
12	3825	33					
13	3815	23	↓	↓		↓	duplicate
14							
15							
16							
17							
18							
19							
20							
MTX SPK	15226N	C105823	30	50			3-1-94 2492
JM3815	↓	↓	↓	↓			
MTX SPK DCP							20.18

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: \_\_\_\_\_

Read and Understood By \_\_\_\_\_ Date \_\_\_\_\_

Element File: RAS.GEL  
 Element: AS  
 Print Data: Main+Suppl.  
 Print: Calib. Curve+Elem. Params.

Analyst: rls  
 Peak Storage: 1 Repl./Sample

-----  
 INSTRUMENT: 4100 ZL                      Technique: HGA                      Version: 7.20  
 Wavelength: 193.7 Peak                      Slit: 0.70 Low  
 Signal Type: Zeeman AA                      Signal Measurement: Peak Area  
 Read Time: 3.0                      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	Modifier	
						#1	#2
Calib. Blank	cal blk	-----	0	20	5	5	
Standard 1	Std #1 IN-0781	5.00	40	2	23	5	
Standard 2	Std #2	10.00	40	4	21	5	
Standard 3	Std #3	20.00	40	8	17	5	
Standard 4	Std #4	30.00	40	12	13	5	
Standard 5	Std #5	40.00	40	16	9	5	
Standard 6	Std #6	50.00	40	20	5	5	
Samples				20	5	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	25	250		Alt
2	130	5	30	250		Alt
3	140	20	20	250		Alt
4	1300	10	20	250		Alt
5	12100	0	3	0	*	Alt
6	12300	1	2	250		Alt

Injection Temp: 20

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; 4                      then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

5 uL of 100 ug/L Standard at Location 34 Gives                      25.00 ug/L

Measure Recovery on Samples: 1-2, 5-19, 22-30

Add to QC Samples: No

% Recovery Limits: 85 to 115



## QC:

#	A/S	QC Sample	Conc.	Limits	After	Periodic	At	Count	As
1	Loc.	ID	Lower	Upper	Calibr	Check	End	Sample	
1	37	ICV-0788	29.5	36.1	X				
2	0	ICB			X				
3	38	CCV-0787	18.4	22.6		X	X		
4	0	CCB				X	X		
5	36	CRA-0789	7.50	12.5	X			X	

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

## Matrix Check Calculations:

% Difference for Dupls: No

Locations: 3,4

% Recovery for Spike: No

Locations: 1,2

Conc: 20 ug/L

```

-----
Element File: RAS.GEL      Element: As      Wavelength: 193.7
Date: 03/04/94           Time: 09:33     Slit: 0.70 L
Data File: AL030494.DAT  ID/Wt File: AL030494.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: 03/04/94

```

```

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 1      Time: 09:36
Peak Area (A-s): 0.001      Peak Height (A): 0.013
Background Pk Area (A-s): 0.014      Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L ): -1.45

```

```

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored)      Time: 09:39
Peak Area (A-s): 0.003      Peak Height (A): 0.010
Background Pk Area (A-s): 0.011      Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): -0.68

```

```

Mean Conc (ug/L ):      -1.06      SD: 0.549      RSD(%): 51.54

```

Auto-zero performed.

```

-----
As ID: Std #1 IN-0781      Seq. No.: 00002  A/S Pos.: 40  Date: 03/04/94

```

```

uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 1      Time: 09:42
Peak Area (A-s): 0.015      Peak Height (A): 0.074
Background Pk Area (A-s): 0.013      Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L ): 6.10

```

```

uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 2 (Peak Stored)      Time: 09:46
Peak Area (A-s): 0.011      Peak Height (A): 0.062
Background Pk Area (A-s): 0.014      Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L ): 4.00

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Mean Conc (ug/L ):      5.05      SD: 1.482      RSD(%): 29.33

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As ID: Std #1 IN-0781      Seq. No.: 00003  A/S Pos.: 40  Date: 03/04/94

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uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 1      Time: 09:49
Peak Area (A-s): 0.012      Peak Height (A): 0.076
Background Pk Area (A-s): 0.013      Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L ): 4.67

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uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 2 (Peak Stored)      Time: 09:53
Peak Area (A-s): 0.012      Peak Height (A): 0.060

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Background Pk Area (A-s): 0.013  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 4.42

Background Pk Height (A): 0.046

Mean Conc (ug/L ): 4.54 SD: 0.172 RSD(%): 3.79

Standard number 1 applied. [5.00]

Correlation coefficient: 1.00000 Slope: 0.0021 Int: -0.000

As ID: Std #2 Seq. No.: 00004 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 21 from 0, 5 from 39, 4 from 40

Replicate 1 Time: 09:56

Peak Area (A-s): 0.027 Peak Height (A): 0.119

Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.058

Blank Corrected Pk Area (A-s): 0.025

Concentration (ug/L ): 12.19

uL dispensed: 21 from 0, 5 from 39, 4 from 40

Replicate 2 (Peak Stored) Time: 10:00

Peak Area (A-s): 0.023 Peak Height (A): 0.132

Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.054

Blank Corrected Pk Area (A-s): 0.021

Concentration (ug/L ): 10.42

Mean Conc (ug/L ): 11.31 SD: 1.252 RSD(%): 11.07

Standard number 2 applied. [10.00]

Correlation coefficient: 0.99777 Slope: 0.0023 Int: -0.000

As ID: Std #3 Seq. No.: 00005 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 17 from 0, 5 from 39, 8 from 40

Replicate 1 Time: 10:03

Peak Area (A-s): 0.038 Peak Height (A): 0.188

Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.080

Blank Corrected Pk Area (A-s): 0.036

Concentration (ug/L ): 15.70

uL dispensed: 17 from 0, 5 from 39, 8 from 40

Replicate 2 (Peak Stored) Time: 10:06

Peak Area (A-s): 0.044 Peak Height (A): 0.198

Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.082

Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L ): 18.37

Mean Conc (ug/L ): 17.03 SD: 1.892 RSD(%): 11.10

Standard number 3 applied. [20.00]

Correlation coefficient: 0.99454 Slope: 0.0020 Int: 0.001

As ID: Std #4 Seq. No.: 00006 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 13 from 0, 5 from 39, 12 from 40

Replicate 1 Time: 10:10

Peak Area (A-s): 0.056 Peak Height (A): 0.242

Background Pk Area (A-s): 0.022      Background Pk Height (A): 0.097  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 26.95

uL dispensed: 13 from 0, 5 from 39, 12 from 40  
 Replicate 2 (Peak Stored)      Time: 10:13  
 Peak Area (A-s): 0.057      Peak Height (A): 0.252  
 Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.098  
 Blank Corrected Pk Area (A-s): 0.055  
 Concentration (ug/L ): 27.21

Mean Conc (ug/L ):      27.08      SD: 0.183      RSD(%): 0.68

Standard number 4 applied. [30.00]  
 Correlation coefficient: 0.99490      Slope: 0.0018      Int: 0.002

-----  
 As    ID: Std #5      Seq. No.: 00007      A/S Pos.: 40      Date: 03/04/94

uL dispensed: 9 from 0, 5 from 39, 16 from 40  
 Replicate 1      Time: 10:17  
 Peak Area (A-s): 0.075      Peak Height (A): 0.285  
 Background Pk Area (A-s): 0.017      Background Pk Height (A): 0.092  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 39.24

uL dispensed: 9 from 0, 5 from 39, 16 from 40  
 Replicate 2 (Peak Stored)      Time: 10:20  
 Peak Area (A-s): 0.075      Peak Height (A): 0.279  
 Background Pk Area (A-s): 0.015      Background Pk Height (A): 0.106  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 39.40

Mean Conc (ug/L ):      39.32      SD: 0.114      RSD(%): 0.29

Standard number 5 applied. [40.00]  
 Correlation coefficient: 0.99735      Slope: 0.0018      Int: 0.002

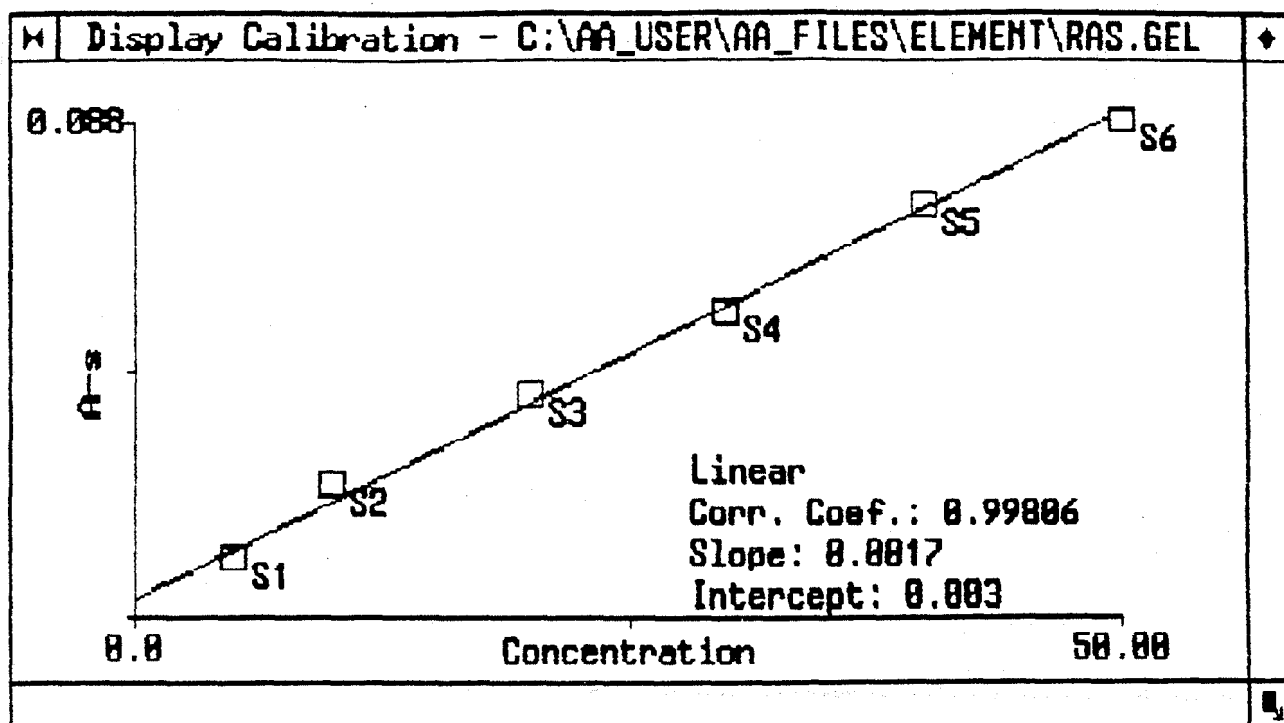
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 As    ID: Std #6      Seq. No.: 00008      A/S Pos.: 40      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 40  
 Replicate 1      Time: 10:23  
 Peak Area (A-s): 0.089      Peak Height (A): 0.320  
 Background Pk Area (A-s): 0.016      Background Pk Height (A): 0.107  
 Blank Corrected Pk Area (A-s): 0.087  
 Concentration (ug/L ): 47.87

uL dispensed: 5 from 0, 5 from 39, 20 from 40  
 Replicate 2 (Peak Stored)      Time: 10:27  
 Peak Area (A-s): 0.091      Peak Height (A): 0.308  
 Background Pk Area (A-s): 0.014      Background Pk Height (A): 0.102  
 Blank Corrected Pk Area (A-s): 0.089  
 Concentration (ug/L ): 48.67

Mean Conc (ug/L ):      48.27      SD: 0.564      RSD(%): 1.17

Standard number 6 applied. [50.00]  
 Correlation coefficient: 0.99806      Slope: 0.0017      Int: 0.003



As ID: ICV-0788 Seq. No.: 00009 A/S Pos.: 37 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 1

Time: 10:34

Peak Area (A-s): 0.057

Peak Height (A): 0.199

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.095

Blank Corrected Pk Area (A-s): 0.055

Concentration (ug/L ): 30.02

uL dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 2 (Peak Stored)

Time: 10:37

Peak Area (A-s): 0.059

Peak Height (A): 0.191

Background Pk Area (A-s): 0.025

Background Pk Height (A): 0.089

Blank Corrected Pk Area (A-s): 0.057

Concentration (ug/L ): 31.29

Mean Conc (ug/L ): 30.66 SD: 0.901 RSD(%): 2.94

QC sample is within range 29.5 - 36.1

As ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1

Time: 10:41

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.014

Background Pk Height (A): 0.027

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -2.05

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 10:44

Peak Area (A-s): -0.001  
 Background Pk Area (A-s): 0.011  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -3.00

Peak Height (A): 0.010  
 Background Pk Height (A): 0.019

Mean Conc (ug/L ): -2.52 SD: 0.670 RSD(%): 26.59

QC sample is within range

As ID: CRA-0789 Seq. No.: 00011 A/S Pos.: 36 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 36

Replicate 1 Time: 10:48  
 Peak Area (A-s): 0.019 Peak Height (A): 0.067  
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.098  
 Blank Corrected Pk Area (A-s): 0.017  
 Concentration (ug/L ): 8.22

uL dispensed: 5 from 0, 5 from 39, 20 from 36

Replicate 2 (Peak Stored) Time: 10:51  
 Peak Area (A-s): 0.020 Peak Height (A): 0.068  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.101  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 9.11

Mean Conc (ug/L ): 8.66 SD: 0.633 RSD(%): 7.30

QC sample is within range 7.50 - 12.5

As ID: PBL-N7R3870 Seq. No.: 00012 A/S Pos.: 1 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 1

Replicate 1 Time: 10:55  
 Peak Area (A-s): 0.000 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.094  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -2.53

uL dispensed: 5 from 0, 5 from 39, 20 from 1

Replicate 2 (Peak Stored) Time: 10:58  
 Peak Area (A-s): 0.001 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.098  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.18

Mean Conc (ug/L ): -2.36 Q SD: 0.248 RSD(%): 10.50

As ID: PBL-N7R3870 Seq. No.: 00013 A/S Pos.: 1 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 1

Replicate 1 Time: 11:02  
 Peak Area (A-s): 0.048 Peak Height (A): 0.173  
 Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.100  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 24.79

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
Replicate 2 (Peak Stored) Time: 11:05  
Peak Area (A-s): 0.052 Peak Height (A): 0.187  
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.094  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 27.28

Mean Conc (ug/L ): 26.04 SD: 1.767 RSD(%): 6.79

Recovery is ~~113.6%~~ 104.2% <sup>50</sup> 3-4-94

~~~~~  
As ID: LC~~SL~~<sup>50</sup>-N7E3870 Seq. No.: 00014 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
Replicate 1 Time: 11:09  
Peak Area (A-s): 0.034 Peak Height (A): 0.127  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.102  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 16.85

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
Replicate 2 (Peak Stored) Time: 11:12  
Peak Area (A-s): 0.040 Peak Height (A): 0.161  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 20.22

Mean Conc (ug/L ): 18.54 <sup>Q</sup> SD: 2.386 RSD(%): 12.87

~~~~~  
As ID: LC~~SL~~<sup>50</sup>-N7E3870 <sup>3-4-94</sup> Seq. No.: 00015 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
Replicate 1 Time: 11:16  
Peak Area (A-s): 0.098 Peak Height (A): 0.394  
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.096  
Concentration (ug/L ): 53.70

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
Replicate 2 (Peak Stored) Time: 11:19  
Peak Area (A-s): 0.097 Peak Height (A): 0.502  
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.095  
Concentration (ug/L ): 53.22

Mean Conc (ug/L ): 53.46 SD: 0.340 RSD(%): 0.64

Recovery is 139.7% (outside of specified limits) <sup>OK</sup> NOT REQUIRED by CLP <sup>50</sup> 3-4-94

~~~~~  
As ID: 7SM-JM3815 MTXS Seq. No.: 00016 A/S Pos.: 3 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 3  
Replicate 1 Time: 11:23  
Peak Area (A-s): 0.041 Peak Height (A): 0.137  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.084  
Blank Corrected Pk Area (A-s): 0.039

SB 3-4-94  
Automatic  
Recan

Concentration (ug/L ): 20.87

uL dispensed: 5 from 0, 5 from 39, 20 from 3

Replicate 2 (Peak Stored)

Time: 11:26

Peak Area (A-s): 0.097

Peak Height (A): 0.126

Background Pk Area (A-s): 0.319

Background Pk Height (A): 0.191

Blank Corrected Pk Area (A-s): 0.095

Concentration (ug/L ): 53.04

Mean Conc (ug/L ): 36.95

SD: 22.744

RSD(%): 61.55

As ID: 7SM-JM3815 MTXS Seq. No.: 00017 A/S Pos.: 3 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 3

Replicate 1

Time: 11:30

Peak Area (A-s): 0.046

Peak Height (A): 0.121

Background Pk Area (A-s): 0.040

Background Pk Height (A): 0.076

Blank Corrected Pk Area (A-s): 0.044

Concentration (ug/L ): 23.71

uL dispensed: 5 from 0, 5 from 39, 20 from 3

Replicate 2 (Peak Stored)

Time: 11:33

Peak Area (A-s): 0.050

Peak Height (A): 0.143

Background Pk Area (A-s): 0.030

Background Pk Height (A): 0.081

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 26.12

Mean Conc (ug/L ): 24.92

SD: 1.708

RSD(%): 6.85

As ID: 7SD-JM3815 MTXR Seq. No.: 00018 A/S Pos.: 4 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 1

Time: 11:37

Peak Area (A-s): 0.042

Peak Height (A): 0.142

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.074

Blank Corrected Pk Area (A-s): 0.040

Concentration (ug/L ): 21.36

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 2 (Peak Stored)

Time: 11:40

Peak Area (A-s): 0.038

Peak Height (A): 0.132

Background Pk Area (A-s): 0.029

Background Pk Height (A): 0.072

Blank Corrected Pk Area (A-s): 0.036

Concentration (ug/L ): 19.00

Mean Conc (ug/L ): 20.18

SD: 1.674

RSD(%): 8.29

As ID: 7XX-JM3815 SS23 Seq. No.: 00019 A/S Pos.: 5 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 5

Replicate 1

Time: 11:44

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.067

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -2.06



uL dispensed: 5 from 0, 5 from 39, 20 from 5  
 Replicate 2 (Peak Stored) Time: 11:47  
 Peak Area (A-s): 0.000 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.069  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.32

Mean Conc (ug/L ): -2.19 *Q* SD: 0.183 RSD(%): 8.37

As ID: 7XX-JM3815 SS23 Seq. No.: 00020 A/S Pos.: 5 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 5  
 Replicate 1 Time: 11:51  
 Peak Area (A-s): 0.049 Peak Height (A): 0.165  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 25.78

uL dispensed: 5 from 39, 5 from 34, 20 from 5  
 Replicate 2 (Peak Stored) Time: 11:54  
 Peak Area (A-s): 0.049 Peak Height (A): 0.175  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.047  
 Concentration (ug/L ): 25.40

Mean Conc (ug/L ): 25.59 SD: 0.263 RSD(%): 1.03

Recovery is ~~111.1%~~ 102.4% <sup>SB</sup>  
 3-4-94

As ID: 7XX-JM3815 DUP Seq. No.: 00021 A/S Pos.: 6 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
 Replicate 1 Time: 11:58  
 Peak Area (A-s): 0.000 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.069  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.33

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
 Replicate 2 (Peak Stored) Time: 12:01  
 Peak Area (A-s): 0.003 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.074  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -0.74

Mean Conc (ug/L ): -1.53 *Q* SD: 1.126 RSD(%): 73.52

As ID: 7XX-JM3815 DUP Seq. No.: 00022 A/S Pos.: 6 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
 Replicate 1 Time: 12:05  
 Peak Area (A-s): 0.050 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 26.02

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
Replicate 2 (Peak Stored) Time: 12:08  
Peak Area (A-s): 0.049 Peak Height (A): 0.151  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.068  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 25.52

Mean Conc (ug/L ): 25.77 SD: 0.351 RSD(%): 1.36

Recovery is ~~100.2%~~ 103.1% <sup>SB</sup> 34.94

As ID: CCV-0787 Seq. No.: 00023 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 1 Time: 12:12  
Peak Area (A-s): 0.038 Peak Height (A): 0.141  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.080  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 19.42

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 12:15  
Peak Area (A-s): 0.036 Peak Height (A): 0.129  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.078  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 18.03

Mean Conc (ug/L ): 18.73 SD: 0.985 RSD(%): 5.26

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1 Time: 12:19  
Peak Area (A-s): 0.003 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -1.14

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 12:22  
Peak Area (A-s): 0.001 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.98

Mean Conc (ug/L ): -1.56 SD: 0.592 RSD(%): 37.95

QC sample is within range

As ID: 7XX-JM3816 SS24 Seq. No.: 00025 A/S Pos.: 7 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 1 Time: 12:25  
Peak Area (A-s): 0.000 Peak Height (A): 0.011

Background Pk Area (A-s): 0.014      Background Pk Height (A): 0.059  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.57

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 2 (Peak Stored)      Time: 12:29  
Peak Area (A-s): 0.042      Peak Height (A): 0.061  
Background Pk Area (A-s): 0.114      Background Pk Height (A): 0.090  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 21.58 - continuation *SB 3-4-94*

Mean Conc (ug/L ):      9.51      SD: 17.079      RSD(%): 179.68

*SB 3-4-94  
Automatic  
Rerun*

As ID: 7XX-JM3816 SS24      Seq. No.: 00026      A/S Pos.: 7      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 1      Time: 12:32  
Peak Area (A-s): 0.000      Peak Height (A): 0.010  
Background Pk Area (A-s): 0.024      Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.55

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 2 (Peak Stored)      Time: 12:36  
Peak Area (A-s): 0.001      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.77

Mean Conc (ug/L ):      -2.16 *Q*      SD: 0.555      RSD(%): 25.69

As ID: 7XX-JM3816 SS24      Seq. No.: 00027      A/S Pos.: 7      Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 7  
Replicate 1      Time: 12:39  
Peak Area (A-s): 0.052      Peak Height (A): 0.185  
Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 27.04

uL dispensed: 5 from 39, 5 from 34, 20 from 7  
Replicate 2 (Peak Stored)      Time: 12:43  
Peak Area (A-s): 0.052      Peak Height (A): 0.183  
Background Pk Area (A-s): 0.016      Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 27.09

Mean Conc (ug/L ):      27.07      SD: 0.034      RSD(%): 0.12

Recovery is *108.3%* (outside of specified limits) *OK SB 3-4-94*

As ID: 7XX-JM3817 SS25      Seq. No.: 00028      A/S Pos.: 8      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 8  
Replicate 1      Time: 12:46  
Peak Area (A-s): -0.002      Peak Height (A): 0.011

Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -3.73

uL dispensed: 5 from 0, 5 from 39, 20 from 8  
Replicate 2 (Peak Stored) Time: 12:50  
Peak Area (A-s): -0.001 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -3.08

Mean Conc (ug/L ): -3.41 Q SD: 0.460 RSD(%): 13.50

As ID: 7XX-JM3817 SS25 Seq. No.: 00029 A/S Pos.: 8 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
Replicate 1 Time: 12:53  
Peak Area (A-s): 0.053 Peak Height (A): 0.187  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 27.66

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
Replicate 2 (Peak Stored) Time: 12:57  
Peak Area (A-s): 0.053 Peak Height (A): 0.188  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 27.81

Mean Conc (ug/L ): 27.73 SD: 0.105 RSD(%): 0.38

Recovery is ~~124.6%~~ (outside of specified limits) 110.9% 3-4-94

As ID: 7XX-JM3818 SS26 Seq. No.: 00030 A/S Pos.: 9 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 9  
Replicate 1 Time: 13:00  
Peak Area (A-s): 0.003 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.75

uL dispensed: 5 from 0, 5 from 39, 20 from 9  
Replicate 2 (Peak Stored) Time: 13:04  
Peak Area (A-s): 0.001 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.92

Mean Conc (ug/L ): -1.33 Q SD: 0.825 RSD(%): 61.91

As ID: 7XX-JM3818 SS26 Seq. No.: 00031 A/S Pos.: 9 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 9  
Replicate 1 Time: 13:07  
Peak Area (A-s): 0.052 Peak Height (A): 0.175

Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 27.34

uL dispensed: 5 from 39, 5 from 34, 20 from 9  
Replicate 2 (Peak Stored) Time: 13:11  
Peak Area (A-s): 0.056 Peak Height (A): 0.191  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.054  
Concentration (ug/L ): 29.32

Mean Conc (ug/L ): 28.33 SD: 1.402 RSD(%): 4.95

Recovery is ~~118.6%~~ (outside of specified limits) <sup>58.24-74</sup> <sub>113.0%</sub>

As ID: 7XX-JM3819 SS27 Seq. No.: 00032 A/S Pos.: 10 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 10  
Replicate 1 Time: 13:14  
Peak Area (A-s): 0.001 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.062  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.86

uL dispensed: 5 from 0, 5 from 39, 20 from 10  
Replicate 2 (Peak Stored) Time: 13:17  
Peak Area (A-s): -0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -3.05

Mean Conc (ug/L ): -2.46 <sup>Q</sup> SD: 0.840 RSD(%): 34.21

As ID: 7XX-JM3819 SS27 Seq. No.: 00033 A/S Pos.: 10 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
Replicate 1 Time: 13:21  
Peak Area (A-s): 0.054 Peak Height (A): 0.172  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.055  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 28.19

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
Replicate 2 (Peak Stored) Time: 13:24  
Peak Area (A-s): 0.051 Peak Height (A): 0.158  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 26.67

Mean Conc (ug/L ): 27.43 SD: 1.079 RSD(%): 3.93

Recovery is ~~119.5%~~ (outside of specified limits) <sup>109.7%</sup> <sub>58.34-44</sub>

As ID: 7XX-JM3820 SS28 Seq. No.: 00034 A/S Pos.: 11 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 11

Replicate 1  
 Peak Area (A-s): 0.000  
 Background Pk Area (A-s): 0.018  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.38

Time: 13:28  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.051

uL dispensed: 5 from 0, 5 from 39, 20 from 11

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.000  
 Background Pk Area (A-s): 0.017  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -2.47

Time: 13:31  
 Peak Height (A): 0.011  
 Background Pk Height (A): 0.057

Mean Conc (ug/L ): -2.43  $\text{\textcircled{Q}}$  SD: 0.064 RSD(%): 2.63

As ID: 7XX-JM3820 SS28 Seq. No.: 00035 A/S Pos.: 11 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 11

Replicate 1  
 Peak Area (A-s): 0.050  
 Background Pk Area (A-s): 0.017  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 26.22

Time: 13:35  
 Peak Height (A): 0.173  
 Background Pk Height (A): 0.053

uL dispensed: 5 from 39, 5 from 34, 20 from 11

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.051  
 Background Pk Area (A-s): 0.016  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 26.79

Time: 13:38  
 Peak Height (A): 0.189  
 Background Pk Height (A): 0.055

Mean Conc (ug/L ): 26.50 SD: 0.407 RSD(%): 1.53

~~Recovery is 115.7% (outside of specified limits)~~ *126.0%*

As ID: CCV-0787 Seq. No.: 00036 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1  
 Peak Area (A-s): 0.039  
 Background Pk Area (A-s): 0.021  
 Blank Corrected Pk Area (A-s): 0.038  
 Concentration (ug/L ): 20.09

Time: 13:42  
 Peak Height (A): 0.126  
 Background Pk Height (A): 0.067

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.042  
 Background Pk Area (A-s): 0.021  
 Blank Corrected Pk Area (A-s): 0.040  
 Concentration (ug/L ): 21.67

Time: 13:45  
 Peak Height (A): 0.143  
 Background Pk Height (A): 0.068

Mean Conc (ug/L ): 20.88 SD: 1.121 RSD(%): 5.37

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00037 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1 Time: 13:48  
Peak Area (A-s): 0.001 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -2.27

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 13:52  
Peak Area (A-s): 0.001 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.88

Mean Conc (ug/L ): -2.08 SD: 0.281 RSD(%): 13.56

QC sample is within range

As ID: 7XX-JM3821 SS29 Seq. No.: 00038 A/S Pos.: 12 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 12

Replicate 1 Time: 13:55  
Peak Area (A-s): 0.000 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.056  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.56

uL dispensed: 5 from 0, 5 from 39, 20 from 12

Replicate 2 (Peak Stored) Time: 13:58  
Peak Area (A-s): 0.000 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.45

Mean Conc (ug/L ): -2.50 Q SD: 0.080 RSD(%): 3.18

As ID: 7XX-JM3821 SS29 Seq. No.: 00039 A/S Pos.: 12 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 12

Replicate 1 Time: 14:02  
Peak Area (A-s): 0.046 Peak Height (A): 0.149  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.057  
Blank Corrected Pk Area (A-s): 0.044  
Concentration (ug/L ): 24.03

uL dispensed: 5 from 39, 5 from 34, 20 from 12

Replicate 2 (Peak Stored) Time: 14:05  
Peak Area (A-s): 0.053 Peak Height (A): 0.178  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.057  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 28.01

Mean Conc (ug/L ): 26.02 SD: 2.816 RSD(%): 10.82

30 3-24-94  
 Recovery is ~~114.1%~~ 104.1%

As ID: 7XX-JM3822 SS30 Seq. No.: 00040 A/S Pos.: 13 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 13

Replicate 1

Time: 14:09

Peak Area (A-s): 0.000

Peak Height (A): 0.009

Background Pk Area (A-s): 0.019

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -2.56

uL dispensed: 5 from 0, 5 from 39, 20 from 13

Replicate 2 (Peak Stored)

Time: 14:12

Peak Area (A-s): 0.001

Peak Height (A): 0.010

Background Pk Area (A-s): 0.020

Background Pk Height (A): 0.052

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -2.10

Mean Conc (ug/L ): -2.33

SD: 0.327

RSD(%): 14.04

As ID: 7XX-JM3822 SS30 Seq. No.: 00041 A/S Pos.: 13 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 13

Replicate 1

Time: 14:15

Peak Area (A-s): 0.050

Peak Height (A): 0.152

Background Pk Area (A-s): 0.019

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 26.13

uL dispensed: 5 from 39, 5 from 34, 20 from 13

Replicate 2 (Peak Stored)

Time: 14:19

Peak Area (A-s): 0.050

Peak Height (A): 0.178

Background Pk Area (A-s): 0.020

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 25.91

Mean Conc (ug/L ): 26.02

SD: 0.154

RSD(%): 0.59

Recovery is ~~113.4%~~ 107.7% 58.744

As ID: 7XX-JM3823 SS31 Seq. No.: 00042 A/S Pos.: 14 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 14

Replicate 1

Time: 14:22

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.013

Background Pk Height (A): 0.052

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -1.84

uL dispensed: 5 from 0, 5 from 39, 20 from 14

Replicate 2 (Peak Stored)

Time: 14:26

Peak Area (A-s): -0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.015

Background Pk Height (A): 0.054

Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -3.23



Mean Conc (ug/L ): -2.54 <sup>Q</sup> SD: 0.986 RSD(%): 38.90

As ID: 7XX-JM3823 SS31 Seq. No.: 00043 A/S Pos.: 14 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
 Replicate 1 Time: 14:29  
 Peak Area (A-s): 0.048 Peak Height (A): 0.147  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.054  
 Blank Corrected Pk Area (A-s): 0.047  
 Concentration (ug/L ): 25.21

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
 Replicate 2 (Peak Stored) Time: 14:33  
 Peak Area (A-s): 0.047 Peak Height (A): 0.164  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.056  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 24.67

Mean Conc (ug/L ): 24.94 SD: 0.378 RSD(%): 1.51

Recovery is ~~100%~~ 99.8% <sup>3-1-94</sup>

As ID: 7XX-JM3824 SS32 Seq. No.: 00044 A/S Pos.: 15 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
 Replicate 1 Time: 14:36  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.052  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.74

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
 Replicate 2 (Peak Stored) Time: 14:39  
 Peak Area (A-s): 0.000 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.050  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -2.40

Mean Conc (ug/L ): -2.07 <sup>Q</sup> SD: 0.464 RSD(%): 22.44

As ID: 7XX-JM3824 SS32 Seq. No.: 00045 A/S Pos.: 15 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
 Replicate 1 Time: 14:43  
 Peak Area (A-s): 0.052 Peak Height (A): 0.164  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 27.17

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
 Replicate 2 (Peak Stored) Time: 14:46  
 Peak Area (A-s): 0.053 Peak Height (A): 0.176  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.052  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 27.81

Mean Conc (ug/L ): 27.49 SD: 0.453 RSD(%): 1.65

Recovery is ~~118.2%~~ (outside of specified limits) <sup>58 3-4-94</sup> 110.0%

As ID: 7XX-JM3825 SS33 Seq. No.: 00046 A/S Pos.: 16 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 16

Replicate 1 Time: 14:50  
 Peak Area (A-s): -0.002 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -3.63

uL dispensed: 5 from 0, 5 from 39, 20 from 16

Replicate 2 (Peak Stored) Time: 14:53  
 Peak Area (A-s): 0.002 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.053  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.61

Mean Conc (ug/L ): -2.62 SD: 1.427 RSD(%): 54.51

As ID: 7XX-JM3825 SS33 Seq. No.: 00047 A/S Pos.: 16 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 16

Replicate 1 Time: 14:56  
 Peak Area (A-s): 0.053 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 27.58

uL dispensed: 5 from 39, 5 from 34, 20 from 16

Replicate 2 (Peak Stored) Time: 15:00  
 Peak Area (A-s): 0.054 Peak Height (A): 0.164  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.052  
 Concentration (ug/L ): 28.18

Mean Conc (ug/L ): 27.88 SD: 0.423 RSD(%): 1.52

Recovery is ~~122.0%~~ (outside of specified limits) <sup>58 3-4-94</sup> 111.5%

As ID: CCV-0787 Seq. No.: 00048 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1 Time: 15:03  
 Peak Area (A-s): 0.044 Peak Height (A): 0.139  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.062  
 Blank Corrected Pk Area (A-s): 0.042  
 Concentration (ug/L ): 22.57

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored) Time: 15:07  
 Peak Area (A-s): 0.043 Peak Height (A): 0.149  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.071  
 Blank Corrected Pk Area (A-s): 0.041

Concentration (ug/L ): 22.26

Mean Conc (ug/L ): 22.41 SD: 0.221 RSD(%): 0.99

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00049 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1 Time: 15:10  
 Peak Area (A-s): -0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.018  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -3.41

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 15:13  
 Peak Area (A-s): -0.001 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -3.43

Mean Conc (ug/L ): -3.42 SD: 0.015 RSD(%): 0.44

QC sample is within range

As ID: TCLP BLK 3870 Seq. No.: 00050 A/S Pos.: 17 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 17

Replicate 1 Time: 15:17  
 Peak Area (A-s): -0.002 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -3.55

uL dispensed: 5 from 0, 5 from 39, 20 from 17

Replicate 2 (Peak Stored) Time: 15:20  
 Peak Area (A-s): -0.000 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -2.73

Mean Conc (ug/L ): -3.14 SD: 0.577 RSD(%): 18.38

As ID: TCLP BLK 3870 Seq. No.: 00051 A/S Pos.: 17 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 17

Replicate 1 Time: 15:24  
 Peak Area (A-s): 0.053 Peak Height (A): 0.168  
 Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.052  
 Concentration (ug/L ): 28.07

uL dispensed: 5 from 39, 5 from 34, 20 from 17

Replicate 2 (Peak Stored) Time: 15:27  
 Peak Area (A-s): 0.052 Peak Height (A): 0.174

Background Pk Area (A-s): 0.007      Background Pk Height (A): 0.056  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 27.44

Mean Conc (ug/L ): 27.76      SD: 0.444      RSD(%): 1.60

Recovery is ~~123.6%~~ (outside of specified limits)

*50 3-4-94  
111 096*

As ID: PBL-N7R3859      Seq. No.: 00052      A/S Pos.: 18      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
Replicate 1      Time: 15:31  
Peak Area (A-s): -0.002      Peak Height (A): 0.010  
Background Pk Area (A-s): 0.011      Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -3.54

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
Replicate 2 (Peak Stored)      Time: 15:34  
Peak Area (A-s): 0.000      Peak Height (A): 0.009  
Background Pk Area (A-s): 0.012      Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.41

Mean Conc (ug/L ): -2.97      SD: 0.802      RSD(%): 26.96

*SB 3-4-94  
Autosampler  
failed PBL  
on poststep  
Rerun*

As ID: PBL-N7R3859      Seq. No.: 00053      A/S Pos.: 18      Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 18  
Replicate 1      Time: 15:38  
Peak Area (A-s): 0.058      Peak Height (A): 0.362  
Background Pk Area (A-s): 0.008      Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.056  
Concentration (ug/L ): 30.81

uL dispensed: 5 from 39, 5 from 34, 20 from 18

As ID: PBL-N7R3859      Seq. No.: 00054      A/S Pos.: 18      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
Replicate 1      Time: 15:44  
Peak Area (A-s): 0.001      Peak Height (A): 0.009  
Background Pk Area (A-s): 0.007      Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -2.05

uL dispensed: 5 from 0, 5 from 39, 20 from 18

As ID: CCV-0787      Seq. No.: 00055      A/S Pos.: 38      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

As ID: CCV-0787      Seq. No.: 00056      A/S Pos.: 38      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

*SB 3-  
Autosampler  
failed*

As ID: CCV-0787 Seq. No.: 00057 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

As ID: CCV-0787 Seq. No.: 00058 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

As ID: CCV-0787 Seq. No.: 00059 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1

Time: 16:23

Peak Area (A-s): 0.069

Peak Height (A): 0.118

Background Pk Area (A-s): 0.072

Background Pk Height (A): 0.083

Blank Corrected Pk Area (A-s): 0.067

Concentration (ug/L ): 37.00

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 16:27

Peak Area (A-s): 0.041

Peak Height (A): 0.146

Background Pk Area (A-s): 0.025

Background Pk Height (A): 0.065

Blank Corrected Pk Area (A-s): 0.039

Concentration (ug/L ): 20.90

Mean Conc (ug/L ): 28.95

SD: 11.385

RSD(%): 39.33

As ID: CCV-0787

Seq. No.: 00060

A/S Pos.: 38

Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1

Time: 16:34

Peak Area (A-s): 0.076

Peak Height (A): 0.105

Background Pk Area (A-s): 0.039

Background Pk Height (A): 0.038

Blank Corrected Pk Area (A-s): 0.074

Concentration (ug/L ): 40.92

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 16:38

Peak Area (A-s): 0.048

Peak Height (A): 0.171

Background Pk Area (A-s): 0.014

Background Pk Height (A): 0.026

Blank Corrected Pk Area (A-s): 0.046

Concentration (ug/L ): 24.86

Mean Conc (ug/L ): 32.89

SD: 11.359

RSD(%): 34.53

As ID: CCV-0787

Seq. No.: 00061

A/S Pos.: 38

Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1

Time: 16:41

Peak Area (A-s): 0.040

Peak Height (A): 0.121

Background Pk Area (A-s): 0.017

Background Pk Height (A): 0.042

Blank Corrected Pk Area (A-s): 0.038

Concentration (ug/L ): 20.42

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 16:44

Peak Area (A-s): 0.040

Peak Height (A): 0.110

SB 3-4-90  
Auto sample  
failed  
out of  
alignment.

Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.044  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 20.27

Mean Conc (ug/L ):      20.35      SD: 0.103      RSD(%): 0.51

QC sample is within range 18.4 - 22.6

-----  
As    1D: CCB                              Seq. No.: 00062      A/S Pos.: 0      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1                              Time: 16:48  
Peak Area (A-s): 0.004                  Peak Height (A): 0.011  
Background Pk Area (A-s): 0.011        Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.49

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored)              Time: 16:51  
Peak Area (A-s): 0.002                  Peak Height (A): 0.011  
Background Pk Area (A-s): 0.011        Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.65

Mean Conc (ug/L ):      -1.07      SD: 0.816      RSD(%): 76.32

QC sample is within range

-----  
As    1D: PBL-N7R3859                      Seq. No.: 00063      A/S Pos.: 18      Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
Replicate 1                              Time: 16:54  
Peak Area (A-s): -0.001                  Peak Height (A): 0.008  
Background Pk Area (A-s): 0.013        Background Pk Height (A): 0.034  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -2.99

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
Replicate 2 (Peak Stored)              Time: 16:58  
Peak Area (A-s): 0.002                  Peak Height (A): 0.010  
Background Pk Area (A-s): 0.010        Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.67

Mean Conc (ug/L ):      -2.33<sup>Q</sup>      SD: 0.931      RSD(%): 39.92

-----  
As    1D: PBL-N7R3859                      Seq. No.: 00064      A/S Pos.: 18      Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 18  
Replicate 1                              Time: 17:01  
Peak Area (A-s): 0.051                  Peak Height (A): 0.298  
Background Pk Area (A-s): 0.011        Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 26.74

uL dispensed: 5 from 39, 5 from 34, 20 from 18

Replicate 2 (Peak Stored) Time: 17:05  
 Peak Area (A-s): 0.053 Peak Height (A): 0.300  
 Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 28.05

Mean Conc (ug/L ): 27.39 SD: 0.928 RSD(%): 3.39

Recovery is ~~118.9%~~ (outside of specified limits) <sup>503-4-94</sup> 109.6%

As ID: LC SL-N7R3859 Seq. No.: 00065 A/S Pos.: 19 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 19

Replicate 1 Time: 17:08  
 Peak Area (A-s): 0.040 Peak Height (A): 0.146  
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.039  
 Concentration (ug/L ): 20.65

uL dispensed: 5 from 0, 5 from 39, 20 from 19

Replicate 2 (Peak Stored) Time: 17:12  
 Peak Area (A-s): 0.042 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.041  
 Concentration (ug/L ): 21.76

Mean Conc (ug/L ): 21.21 Q SD: 0.784 RSD(%): 3.70

As ID: LC SL-N7R3859 Seq. No.: 00066 A/S Pos.: 19 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 19

Replicate 1 Time: 17:15  
 Peak Area (A-s): 0.092 Peak Height (A): 0.419  
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): 0.090  
 Concentration (ug/L ): 50.42

uL dispensed: 5 from 39, 5 from 34, 20 from 19

Replicate 2 (Peak Stored) Time: 17:19  
 Peak Area (A-s): 0.087 Peak Height (A): 0.391  
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.085  
 Concentration (ug/L ): 47.55

Mean Conc (ug/L ): 48.99 SD: 2.031 RSD(%): 4.15

Recovery is 111.1%

As ID: 7SM-JM3563 MTXS Seq. No.: 00067 A/S Pos.: 20 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 20

Replicate 1 Time: 17:22  
 Peak Area (A-s): 0.042 Peak Height (A): 0.138  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.040  
 Concentration (ug/L ): 21.51

uL dispensed: 5 from 0, 5 from 39, 20 from 20  
 Replicate 2 (Peak Stored) Time: 17:26  
 Peak Area (A-s): 0.039 Peak Height (A): 0.152  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.064  
 Blank Corrected Pk Area (A-s): 0.037  
 Concentration (ug/L ): 19.81

Mean Conc (ug/L ): 20.66 Q SD: 1.206 RSD(%): 5.84

As ID: 7SD-JM3563 MTXR Seq. No.: 00068 A/S Pos.: 21 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 21  
 Replicate 1 Time: 17:29  
 Peak Area (A-s): 0.042 Peak Height (A): 0.147  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.040  
 Concentration (ug/L ): 21.35

uL dispensed: 5 from 0, 5 from 39, 20 from 21  
 Replicate 2 (Peak Stored) Time: 17:33  
 Peak Area (A-s): 0.043 Peak Height (A): 0.148  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.064  
 Blank Corrected Pk Area (A-s): 0.042  
 Concentration (ug/L ): 22.33

Mean Conc (ug/L ): 21.84 Q SD: 0.697 RSD(%): 3.19

As ID: 7XX-JM3563 DS09 Seq. No.: 00069 A/S Pos.: 22 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 22  
 Replicate 1 Time: 17:36  
 Peak Area (A-s): 0.002 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -1.24

uL dispensed: 5 from 0, 5 from 39, 20 from 22  
 Replicate 2 (Peak Stored) Time: 17:40  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -0.32

Mean Conc (ug/L ): -0.78 Q SD: 0.652 RSD(%): 83.47

As ID: 7XX-JM3563 DS09 Seq. No.: 00070 A/S Pos.: 22 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 22  
 Replicate 1 Time: 17:43  
 Peak Area (A-s): 0.037 Peak Height (A): 0.145  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.054  
 Blank Corrected Pk Area (A-s): 0.035  
 Concentration (ug/L ): 18.70

uL dispensed: 5 from 39, 5 from 34, 20 from 22  
 Replicate 2 (Peak Stored) Time: 17:47



Peak Area (A-s): 0.034  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 17.08

Peak Height (A): 0.141  
Background Pk Height (A): 0.052

Mean Conc (ug/L ): 17.89 SD: 1.148 RSD(%): 6.42

Recovery is <sup>71.6%</sup>~~74.7%~~ (outside of specified limits)

<sup>SB</sup> 3 5 94

As ID: 7XX-JM3563 DUP Seq. No.: 00071 A/S Pos.: 23 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 23

Replicate 1 Time: 17:50  
Peak Area (A-s): 0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.063  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -2.24

W

uL dispensed: 5 from 0, 5 from 39, 20 from 23

Replicate 2 (Peak Stored) Time: 17:54  
Peak Area (A-s): 0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.059  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.91

Mean Conc (ug/L ): -2.07 Q SD: 0.233 RSD(%): 11.25

As ID: 7XX-JM3563 DUP Seq. No.: 00072 A/S Pos.: 23 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 23

Replicate 1 Time: 17:58  
Peak Area (A-s): 0.039 Peak Height (A): 0.139  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 19.92

uL dispensed: 5 from 39, 5 from 34, 20 from 23

Replicate 2 (Peak Stored) Time: 18:01  
Peak Area (A-s): 0.039 Peak Height (A): 0.143  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.059  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 19.83

Mean Conc (ug/L ): 19.87 SD: 0.062 RSD(%): 0.31

Recovery is <sup>79.5%</sup>~~87.0%~~ <sup>SB</sup> 3-5-94

As ID: CCV-0787 Seq. No.: 00073 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1 Time: 18:05  
Peak Area (A-s): 0.039 Peak Height (A): 0.131  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 19.96

00137

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 18:08  
Peak Area (A-s): 0.037 Peak Height (A): 0.130  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.073  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 18.89

Mean Conc (ug/L ): 19.43 SD: 0.758 RSD(%): 3.90

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00074 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1 Time: 18:11  
Peak Area (A-s): -0.000 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.64

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 18:15  
Peak Area (A-s): 0.000 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -2.51

Mean Conc (ug/L ): -2.57 SD: 0.091 RSD(%): 3.53

QC sample is within range

As ID: 7XX-JM3557 6528 Seq. No.: 00075 A/S Pos.: 24 Date: 03/04/94

uL dispensed: 5 from 0, 5 from 39, 20 from 24  
Replicate 1 Time: 18:18  
Peak Area (A-s): 0.004 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.062  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -0.02

uL dispensed: 5 from 0, 5 from 39, 20 from 24  
Replicate 2 (Peak Stored) Time: 18:22  
Peak Area (A-s): 0.005 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.38

Mean Conc (ug/L ): 0.18 SD: 0.282 RSD(%): 157.93

As ID: 7XX-JM3557 6528 Seq. No.: 00076 A/S Pos.: 24 Date: 03/04/94

uL dispensed: 5 from 39, 5 from 34, 20 from 24  
Replicate 1 Time: 18:25  
Peak Area (A-s): 0.042 Peak Height (A): 0.160  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.040

*SB 3-5-94  
Autosampler  
failed  
before  
next  
CCV*

Element File: PBDK.GEL

Element: Pb

Print Data: Main+Suppl.

Print: Calib. Curve+Elem. Params.

Analyst: RLS

Peak Storage: 1 Repl./Sample

-----

|                        |                                  |               |
|------------------------|----------------------------------|---------------|
| INSTRUMENT: 5100       | Technique: HGA                   | Version: 7.10 |
| Wavelength: 283.3 Peak | Slit: 0.7 Low                    |               |
| Signal Type: Zeeman AA | Signal Measurement: Peak Area    |               |
| Read Time: 7.0         | 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<br>Volume | Modifier |    |
|--------------|--------------|------|----------|--------|-------------------|----------|----|
|              |              |      |          |        |                   | #1       | #2 |
| Calib. Blank | CAL BLK      |      | 0        | 25     | 10                | 5        |    |
| Standard 1   | STD 1 IN0785 | 4.0  | 40       | 2      | 10                | 5        |    |
| Standard 2   | STD 2        | 10.0 | 40       | 5      | 10                | 5        |    |
| Standard 3   | STD 3        | 20.0 | 40       | 10     | 10                | 5        |    |
| Standard 4   | STD 4        | 30.0 | 40       | 15     | 10                | 5        |    |
| Standard 5   | STD 5        | 40.0 | 40       | 20     | 10                | 5        |    |
| Standard 6   | STD 6        | 50.0 | 40       | 25     | 10                | 5        |    |
| Samples      |              |      |          | 25     | 10                | 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  | 10   | 30   | 300      |      | Alt      |
| 2    | 150  | 5    | 10   | 300      |      | Alt      |
| 3    | 600  | 10   | 40   | 300      |      | Alt      |
| 4    | 20   | 1    | 10   | 300      |      | Alt      |
| 5    | 1750 | 0    | 5    | 0        | *    | Alt      |
| 6    | 2500 | 1    | 5    | 300      |      | Alt      |

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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4.0 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L

Measure Recovery on Samples: 1-2,5-19,22-30

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-0791  | 31.8         | 38.8  | X     |          |     |          |
| 2 | 0    | ICB       |              |       | X     |          |     |          |
| 3 | 38   | CCV-0790  | 19.1         | 23.3  |       | X        | X   |          |
| 4 | 0    | CCB       |              |       |       | X        | X   |          |
| 5 | 36   | CRA-0792  | 2.25         | 3.75  | 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: PBDK.DEL

Element: Pb

Analyst: RLS

Print Data: Main+Suppl.

Peak Storage: 1 Repl./Sample

Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100

Technique: HGA

Version: 7.10

Wavelength: 283.3 Peak

Slit: 0.7 Low

Signal Type: Zeeman AA

Signal Measurement: Peak Area

Read Time: 7.0

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<br>Volume | Modifier |    |
|--------------|--------------|------|----------|--------|-------------------|----------|----|
|              |              |      |          |        |                   | #1       | #2 |
| Calib. Blank | CAL BLK      |      | 0        | 25     | 10                | 5        |    |
| Standard 1   | STD 1 IN0785 | 4.0  | 40       | 2      | 10                | 5        |    |
| Standard 2   | STD 2        | 10.0 | 40       | 5      | 10                | 5        |    |
| Standard 3   | STD 3        | 20.0 | 40       | 10     | 10                | 5        |    |
| Standard 4   | STD 4        | 30.0 | 40       | 15     | 10                | 5        |    |
| Standard 5   | STD 5        | 40.0 | 40       | 20     | 10                | 5        |    |
| Standard 6   | STD 6        | 50.0 | 40       | 25     | 10                | 5        |    |
| Samples      |              |      |          | 25     | 10                | 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  | 10   | 30   | 300      |      | Alt      |
| 2    | 130  | 5    | 10   | 300      |      | Alt      |
| 3    | 600  | 10   | 40   | 300      |      | Alt      |
| 4    | 20   | 1    | 10   | 300      |      | Alt      |
| 5    | 1750 | 0    | 5    | 0        | *    | Alt      |
| 6    | 2500 | 1    | 5    | 300      |      | Alt      |

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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4.0 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L

Measure Recovery on Samples: 1-2,5-19,22-30

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

| # | A/S | QC Sample<br>ID | Conc. Limits |       | After<br>Calib | Periodic<br>Check | At<br>End | Count As<br>Sample |
|---|-----|-----------------|--------------|-------|----------------|-------------------|-----------|--------------------|
|   |     |                 | Lower        | Upper |                |                   |           |                    |
| 1 | 37  | ICV-0791        | 31.8         | 38.8  | X              |                   |           |                    |
| 2 | 0   | ICB             |              |       | X              |                   |           |                    |
| 3 | 38  | CCV-0790        | 19.1         | 23.3  |                | X                 | X         |                    |
| 4 | 0   | CCB             |              |       |                | X                 | X         |                    |
| 5 | 36  | CRA-0792        | 2.25         | 3.75  | 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: PBDK.GEL      Element: Pb      Wavelength: 283.3
Date: 03/03/94            Time: 14:23     Slit: 0.7 L
Data File: B030394.DAT    ID/Wt File: B030394.IDW  Lamp Current: 10
Technique: HGA            Calib. Type: Linear      Energy: 61
-----

```

```

Pb   ID: CAL BLK          Seq. No.: 00001   A/S Pos.: 0     Date: 03/03/94

```

```

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 1                Time: 14:26
Peak Area (A-s): 0.007     Peak Height (A): 0.014
Background Pk Area (A-s): 0.008   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.007

```

```

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored)   Time: 14:29
Peak Area (A-s): 0.005     Peak Height (A): 0.008
Background Pk Area (A-s): 0.006   Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.005

```

```

Mean Pk Area (A-s):      0.006          SD: 0.0013          RSD(%): 21.74

```

Auto-zero performed.

```

-----
Pb   ID: STD 1 IN0785     Seq. No.: 00002   A/S Pos.: 40    Date: 03/03/94

```

```

uL dispensed: 5 from 39, 10 from 0, 2 from 40
Replicate 1                Time: 14:33
Peak Area (A-s): 0.035     Peak Height (A): 0.055
Background Pk Area (A-s): 0.009   Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.029

```

```

uL dispensed: 5 from 39, 10 from 0, 2 from 40
Replicate 2 (Peak Stored)   Time: 14:36
Peak Area (A-s): 0.033     Peak Height (A): 0.054
Background Pk Area (A-s): 0.012   Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.027

```

```

Mean Pk Area (A-s):      0.028          SD: 0.0013          RSD(%): 4.68

```

```

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000   Slope: 0.0071      Int: 0.000

```

```

-----
Pb   ID: STD 2           Seq. No.: 00003   A/S Pos.: 40    Date: 03/03/94

```

```

uL dispensed: 5 from 39, 10 from 0, 5 from 40
Replicate 1                Time: 14:39
Peak Area (A-s): 0.073     Peak Height (A): 0.118
Background Pk Area (A-s): 0.024   Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L ): 9.5

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uL dispensed: 5 from 39, 10 from 0, 5 from 40
Replicate 2 (Peak Stored)   Time: 14:43
Peak Area (A-s): 0.073     Peak Height (A): 0.123
Background Pk Area (A-s): 0.022   Background Pk Height (A): 0.033

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Blank Corrected Pk Area (A-s): 0.067  
 Concentration (ug/L ): 9.5

Mean Conc (ug/L ): 9.5 SD: 0.02 RSD(%): 0.19

Standard number 2 applied. [10.0]  
 Correlation coefficient: 0.99970 Slope: 0.0067 Int: 0.001

Pb ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 10 from 40

Replicate 1 Time: 14:46  
 Peak Area (A-s): 0.132 Peak Height (A): 0.208  
 Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 18.8

uL dispensed: 5 from 39, 10 from 0, 10 from 40  
 Replicate 2 (Peak Stored) Time: 14:50  
 Peak Area (A-s): 0.127 Peak Height (A): 0.208  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.056  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 18.0

Mean Conc (ug/L ): 18.4 SD: 0.52 RSD(%): 2.85

Standard number 3 applied. [20.0]  
 Correlation coefficient: 0.99883 Slope: 0.0062 Int: 0.002

Pb ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 15 from 40

Replicate 1 Time: 14:53  
 Peak Area (A-s): 0.190 Peak Height (A): 0.301  
 Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.083  
 Blank Corrected Pk Area (A-s): 0.184  
 Concentration (ug/L ): 29.4

uL dispensed: 5 from 39, 10 from 0, 15 from 40  
 Replicate 2 (Peak Stored) Time: 14:56  
 Peak Area (A-s): 0.189 Peak Height (A): 0.304  
 Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.083  
 Blank Corrected Pk Area (A-s): 0.184  
 Concentration (ug/L ): 29.4

Mean Conc (ug/L ): 29.4 SD: 0.01 RSD(%): 0.05

Standard number 4 applied. [30.0]  
 Correlation coefficient: 0.99943 Slope: 0.0061 Int: 0.003

Pb ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 20 from 40

Replicate 1 Time: 15:00  
 Peak Area (A-s): 0.236 Peak Height (A): 0.375  
 Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.105



Blank Corrected Pk Area (A-s): 0.230  
Concentration (ug/L ): 37.5

uL dispensed: 5 from 39, 10 from 0, 20 from 40  
Replicate 2 (Peak Stored) Time: 15:03  
Peak Area (A-s): 0.237 Peak Height (A): 0.382  
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.107  
Blank Corrected Pk Area (A-s): 0.231  
Concentration (ug/L ): 37.6

Mean Conc (ug/L ): 37.6 SD: 0.09 RSD(%): 0.25

Standard number 5 applied. [40.0]  
Correlation coefficient: 0.99859 Slope: 0.0058 Int: 0.005

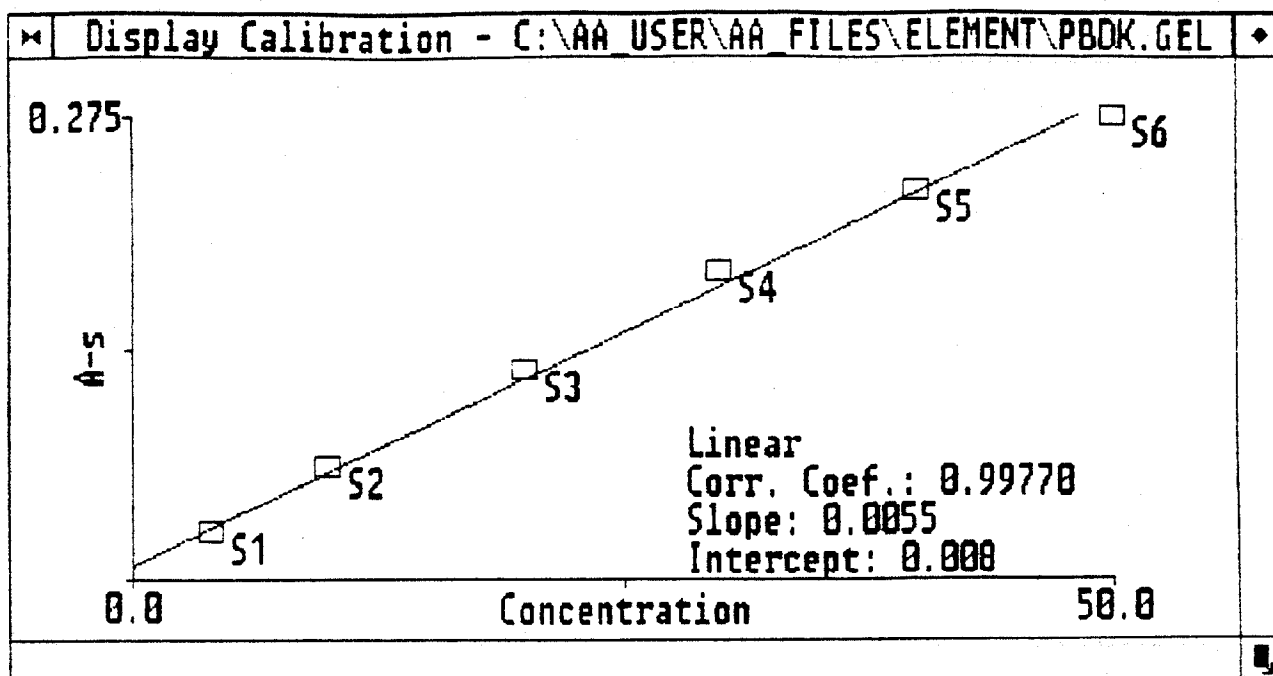
~~~~~  
Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
Replicate 1 Time: 15:06  
Peak Area (A-s): 0.279 Peak Height (A): 0.441  
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.128  
Blank Corrected Pk Area (A-s): 0.273  
Concentration (ug/L ): 46.3

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
Replicate 2 (Peak Stored) Time: 15:10  
Peak Area (A-s): 0.283 Peak Height (A): 0.443  
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.130  
Blank Corrected Pk Area (A-s): 0.277  
Concentration (ug/L ): 47.0

Mean Conc (ug/L ): 46.6 SD: 0.49 RSD(%): 1.05

Standard number 6 applied. [50.0]  
Correlation coefficient: 0.99770 Slope: 0.0055 Int: 0.008



Pb ID: ICV-0791 Seq. No.: 00008 A/S Pos.: 37 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
Replicate 1 Time: 15:29  
Peak Area (A-s): 0.205 Peak Height (A): 0.360  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.104  
Blank Corrected Pk Area (A-s): 0.199  
Concentration (ug/L ): 34.5

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
Replicate 2 (Peak Stored) Time: 15:32  
Peak Area (A-s): 0.203 Peak Height (A): 0.358  
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.103  
Blank Corrected Pk Area (A-s): 0.197  
Concentration (ug/L ): 34.1

Mean Conc (ug/L ): 34.3 SD: 0.29 RSD(%): 0.86

QC sample is within range 31.8 - 38.8

Pb ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 15:35  
Peak Area (A-s): 0.006 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.005  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 15:38  
Peak Area (A-s): 0.008 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.005

Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.1

Mean Conc (ug/L ): -1.3 SD: 0.19 RSD(%): 15.22

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00010 A/S Pos.: 36 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1 Time: 15:42  
 Peak Area (A-s): 0.026 Peak Height (A): 0.042  
 Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.011  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 2.2

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 15:45  
 Peak Area (A-s): 0.024 Peak Height (A): 0.043  
 Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.012  
 Blank Corrected Pk Area (A-s): 0.018  
 Concentration (ug/L ): 1.8

Mean Conc (ug/L ): 2.0 SD: 0.29 RSD(%): 14.22

~~QC sample is out of range 2.25 - 3.75~~ *2.25* *3.75* *3.94*

Pb ID: PBL-N7R3870 Seq. No.: 00011 A/S Pos.: 1 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 1 Time: 15:49  
 Peak Area (A-s): 0.006 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 2 (Peak Stored) Time: 15:52  
 Peak Area (A-s): 0.006 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -1.4

Mean Conc (ug/L ): -1.4 SD: 0.02 RSD(%): 1.36

Pb ID: PBL-N7R3870 Seq. No.: 00012 A/S Pos.: 1 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
 Replicate 1 Time: 15:55  
 Peak Area (A-s): 0.124 Peak Height (A): 0.204  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.118  
 Concentration (ug/L ): 19.9

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
 Replicate 2 (Peak Stored) Time: 15:59

Peak Area (A-s): 0.123  
 Background Pk Area (A-s): 0.034  
 Blank Corrected Pk Area (A-s): 0.117  
 Concentration (ug/L ): 19.7

Peak Height (A): 0.204  
 Background Pk Height (A): 0.054

Mean Conc (ug/L ): 19.8 SD: 0.17 RSD(%): 0.84

Recovery is 106.1%

-----  
 Pb ID: LCSL-N7R3870 Seq. No.: 00013 A/S Pos.: 2 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 1

Time: 16:02

Peak Area (A-s): 0.127

Peak Height (A): 0.211

Background Pk Area (A-s): 0.035

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): 0.121

Concentration (ug/L ): 20.5

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 2 (Peak Stored)

Time: 16:06

Peak Area (A-s): 0.127

Peak Height (A): 0.208

Background Pk Area (A-s): 0.038

Background Pk Height (A): 0.055

Blank Corrected Pk Area (A-s): 0.122

Concentration (ug/L ): 20.5

Mean Conc (ug/L ): 20.5 Q SD: 0.02 RSD(%): 0.12

-----  
 Pb ID: LCSL-N7R3870 Seq. No.: 00014 A/S Pos.: 2 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2

Replicate 1

Time: 16:09

Peak Area (A-s): 0.232

Peak Height (A): 0.366

Background Pk Area (A-s): 0.067

Background Pk Height (A): 0.103

Blank Corrected Pk Area (A-s): 0.226

Concentration (ug/L ): 39.4

uL dispensed: 5 from 39, 10 from 40, 25 from 2

Replicate 2 (Peak Stored)

Time: 16:12

Peak Area (A-s): 0.231

Peak Height (A): 0.363

Background Pk Area (A-s): 0.067

Background Pk Height (A): 0.103

Blank Corrected Pk Area (A-s): 0.225

Concentration (ug/L ): 39.3

Mean Conc (ug/L ): 39.4 SD: 0.10 RSD(%): 0.27

Recovery is 94.3%

-----  
 Pb ID: 7SM-JM3815 MTXS Seq. No.: 00015 A/S Pos.: 3 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 3

Replicate 1

Time: 16:16

Peak Area (A-s): 0.139

Peak Height (A): 0.284

Background Pk Area (A-s): 0.443

Background Pk Height (A): 0.262

Blank Corrected Pk Area (A-s): 0.133

Concentration (ug/L ): 22.6

uL dispensed: 5 from 39, 10 from 0, 25 from 3  
Replicate 2 (Peak Stored) Time: 16:19  
Peak Area (A-s): 0.123 Peak Height (A): 0.264  
Background Pk Area (A-s): 0.483 Background Pk Height (A): 0.282  
Blank Corrected Pk Area (A-s): 0.118  
Concentration (ug/L ): 19.8

Mean Conc (ug/L ): 21.2 Q SD: 1.98 RSD(%): 9.37

Pb ID: 7SD-JM3815 MTXR Seq. No.: 00016 A/S Pos.: 4 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
Replicate 1 Time: 16:23  
Peak Area (A-s): 0.118 Peak Height (A): 0.255  
Background Pk Area (A-s): 0.478 Background Pk Height (A): 0.204  
Blank Corrected Pk Area (A-s): 0.113  
Concentration (ug/L ): 18.9

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
Replicate 2 (Peak Stored) Time: 16:26  
Peak Area (A-s): 0.130 Peak Height (A): 0.266  
Background Pk Area (A-s): 0.487 Background Pk Height (A): 0.249  
Blank Corrected Pk Area (A-s): 0.124  
Concentration (ug/L ): 20.9

Mean Conc (ug/L ): 19.9 Q SD: 1.42 RSD(%): 7.14

Pb ID: 7XX-JM3815 SS23 Seq. No.: 00017 A/S Pos.: 5 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
Replicate 1 Time: 16:29  
Peak Area (A-s): 0.020 Peak Height (A): 0.038  
Background Pk Area (A-s): 0.471 Background Pk Height (A): 0.209  
Blank Corrected Pk Area (A-s): 0.014  
Concentration (ug/L ): 1.0

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
Replicate 2 (Peak Stored) Time: 16:33  
Peak Area (A-s): 0.018 Peak Height (A): 0.032  
Background Pk Area (A-s): 0.462 Background Pk Height (A): 0.205  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 0.7

Mean Conc (ug/L ): 0.9 Q SD: 0.26 RSD(%): 30.15

Pb ID: 7XX-JM3815 SS23 Seq. No.: 00018 A/S Pos.: 5 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 1 Time: 16:36  
Peak Area (A-s): 0.125 Peak Height (A): 0.208  
Background Pk Area (A-s): 0.499 Background Pk Height (A): 0.246  
Blank Corrected Pk Area (A-s): 0.120  
Concentration (ug/L ): 20.1

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 2 (Peak Stored) Time: 16:39

Peak Area (A-s): 0.127  
 Background Pk Area (A-s): 0.503  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 20.5

Peak Height (A): 0.201  
 Background Pk Height (A): 0.245

Mean Conc (ug/L ): 20.3 SD: 0.25 RSD(%): 1.24

Recovery is 97.3%

Pb ID: 7XX-JM3815 DUP Seq. No.: 00019 A/S Pos.: 6 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 6  
 Replicate 1 Time: 16:43  
 Peak Area (A-s): 0.015 Peak Height (A): 0.026  
 Background Pk Area (A-s): 0.467 Background Pk Height (A): 0.202  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 0.2

uL dispensed: 5 from 39, 10 from 0, 25 from 6  
 Replicate 2 (Peak Stored) Time: 16:46  
 Peak Area (A-s): 0.014 Peak Height (A): 0.022  
 Background Pk Area (A-s): 0.458 Background Pk Height (A): 0.196  
 Blank Corrected Pk Area (A-s): 0.008  
 Concentration (ug/L ): -0.1

Mean Conc (ug/L ): 0.1 Q SD: 0.21 RSD(%): 275.08

Pb ID: 7XX-JM3815 DUP Seq. No.: 00020 A/S Pos.: 6 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
 Replicate 1 Time: 16:50  
 Peak Area (A-s): 0.126 Peak Height (A): 0.196  
 Background Pk Area (A-s): 0.496 Background Pk Height (A): 0.239  
 Blank Corrected Pk Area (A-s): 0.120  
 Concentration (ug/L ): 20.3

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
 Replicate 2 (Peak Stored) Time: 16:53  
 Peak Area (A-s): 0.122 Peak Height (A): 0.192  
 Background Pk Area (A-s): 0.489 Background Pk Height (A): 0.237  
 Blank Corrected Pk Area (A-s): 0.116  
 Concentration (ug/L ): 19.5

Mean Conc (ug/L ): 19.9 SD: 0.50 RSD(%): 2.51

Recovery is 99.1%

Pb ID: CCV-0790 Seq. No.: 00021 A/S Pos.: 38 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 1 Time: 16:56  
 Peak Area (A-s): 0.140 Peak Height (A): 0.250  
 Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.068  
 Blank Corrected Pk Area (A-s): 0.134  
 Concentration (ug/L ): 22.7

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 17:00  
 Peak Area (A-s): 0.138 Peak Height (A): 0.245  
 Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.132  
 Concentration (ug/L ): 22.3

Mean Conc (ug/L ): 22.5 SD: 0.27 RSD(%): 1.20

QC sample is within range 19.1 - 23.3

-----  
 Pb ID: CCB Seq. No.: 00022 A/S Pos.: 0 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1 Time: 17:03  
 Peak Area (A-s): 0.006 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 17:06  
 Peak Area (A-s): 0.006 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.005  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.5

Mean Conc (ug/L ): -1.5 SD: 0.07 RSD(%): 4.64

QC sample is within range

-----  
 Pb ID: 7XX-JM3816 SS24 Seq. No.: 00023 A/S Pos.: 7 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 7  
 Replicate 1 Time: 17:09  
 Peak Area (A-s): 0.022 Peak Height (A): 0.032  
 Background Pk Area (A-s): 0.428 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 1.5

uL dispensed: 5 from 39, 10 from 0, 25 from 7  
 Replicate 2 (Peak Stored) Time: 17:13  
 Peak Area (A-s): 0.018 Peak Height (A): 0.032  
 Background Pk Area (A-s): 0.435 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.013  
 Concentration (ug/L ): 0.8

Mean Conc (ug/L ): 1.1<sup>Q</sup> SD: 0.50 RSD(%): 45.05

-----  
 Pb ID: 7XX-JM3816 SS24 Seq. No.: 00024 A/S Pos.: 7 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 7  
 Replicate 1 Time: 17:16  
 Peak Area (A-s): 0.125 Peak Height (A): 0.196  
 Background Pk Area (A-s): 0.487 Background Pk Height (A): 0.236  
 Blank Corrected Pk Area (A-s): 0.119

Concentration (ug/L ): 20.0

uL dispensed: 5 from 39, 10 from 40, 25 from 7  
Replicate 2 (Peak Stored) Time: 17:19  
Peak Area (A-s): 0.124 Peak Height (A): 0.193  
Background Pk Area (A-s): 0.476 Background Pk Height (A): 0.232  
Blank Corrected Pk Area (A-s): 0.118  
Concentration (ug/L ): 19.8

Mean Conc (ug/L ): 19.9 SD: 0.13 RSD(%): 0.63

Recovery is 94.0%

-----  
Pb ID: 7XX-JM3817 SS25 Seq. No.: 00025 A/S Pos.: 8 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 8  
Replicate 1 Time: 17:23  
Peak Area (A-s): 0.076 Peak Height (A): 0.122  
Background Pk Area (A-s): 0.475 Background Pk Height (A): 0.217  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 11.2

uL dispensed: 5 from 39, 10 from 0, 25 from 8  
Replicate 2 (Peak Stored) Time: 17:26  
Peak Area (A-s): 0.077 Peak Height (A): 0.122  
Background Pk Area (A-s): 0.475 Background Pk Height (A): 0.217  
Blank Corrected Pk Area (A-s): 0.071  
Concentration (ug/L ): 11.4

Mean Conc (ug/L ): 11.3 Q SD: 0.10 RSD(%): 0.84

-----  
Pb ID: 7XX-JM3817 SS25 Seq. No.: 00026 A/S Pos.: 8 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 8  
Replicate 1 Time: 17:29  
Peak Area (A-s): 0.176 Peak Height (A): 0.272  
Background Pk Area (A-s): 0.509 Background Pk Height (A): 0.260  
Blank Corrected Pk Area (A-s): 0.170  
Concentration (ug/L ): 29.2

uL dispensed: 5 from 39, 10 from 40, 25 from 8  
Replicate 2 (Peak Stored) Time: 17:33  
Peak Area (A-s): 0.178 Peak Height (A): 0.274  
Background Pk Area (A-s): 0.499 Background Pk Height (A): 0.263  
Blank Corrected Pk Area (A-s): 0.172  
Concentration (ug/L ): 29.7

Mean Conc (ug/L ): 29.5 SD: 0.36 RSD(%): 1.21

Recovery is 90.8%

-----  
Pb ID: 7XX-JM3818 SS26 Seq. No.: 00027 A/S Pos.: 9 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 9  
Replicate 1 Time: 17:36  
Peak Area (A-s): 0.059 Peak Height (A): 0.099



Background Pk Area (A-s): 0.458      Background Pk Height (A): 0.216  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 8.1

uL dispensed: 5 from 39, 10 from 0, 25 from 9  
 Replicate 2 (Peak Stored)      Time: 17:39  
 Peak Area (A-s): 0.059      Peak Height (A): 0.095  
 Background Pk Area (A-s): 0.473      Background Pk Height (A): 0.204  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 8.2

Mean Conc (ug/L ):      8.2<sup>Q</sup>      SD: 0.03      RSD(%): 0.34

Pb    ID: 7XX-JM3818 SS26    Seq. No.: 00028    A/S Pos.: 9    Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 9  
 Replicate 1      Time: 17:43  
 Peak Area (A-s): 0.162      Peak Height (A): 0.255  
 Background Pk Area (A-s): 0.493      Background Pk Height (A): 0.256  
 Blank Corrected Pk Area (A-s): 0.156  
 Concentration (ug/L ): 26.8

uL dispensed: 5 from 39, 10 from 40, 25 from 9  
 Replicate 2 (Peak Stored)      Time: 17:46  
 Peak Area (A-s): 0.163      Peak Height (A): 0.259  
 Background Pk Area (A-s): 0.505      Background Pk Height (A): 0.255  
 Blank Corrected Pk Area (A-s): 0.157  
 Concentration (ug/L ): 27.0

Mean Conc (ug/L ):      26.9      SD: 0.14      RSD(%): 0.51

Recovery is 93.6%

Pb    ID: 7XX-JM3819 SS27    Seq. No.: 00029    A/S Pos.: 10    Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 10  
 Replicate 1      Time: 17:49  
 Peak Area (A-s): 0.027      Peak Height (A): 0.041  
 Background Pk Area (A-s): 0.474      Background Pk Height (A): 0.196  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 2.3

uL dispensed: 5 from 39, 10 from 0, 25 from 10  
 Replicate 2 (Peak Stored)      Time: 17:53  
 Peak Area (A-s): 0.026      Peak Height (A): 0.041  
 Background Pk Area (A-s): 0.457      Background Pk Height (A): 0.188  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 2.2

Mean Conc (ug/L ):      2.2<sup>Q</sup>      SD: 0.06      RSD(%): 2.81

Pb    ID: 7XX-JM3819 SS27    Seq. No.: 00030    A/S Pos.: 10    Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
 Replicate 1      Time: 17:56  
 Peak Area (A-s): 0.128      Peak Height (A): 0.206

Background Pk Area (A-s): 0.499      Background Pk Height (A): 0.252  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 20.6

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
 Replicate 2 (Peak Stored)      Time: 17:59  
 Peak Area (A-s): 0.123      Peak Height (A): 0.204  
 Background Pk Area (A-s): 0.480      Background Pk Height (A): 0.254  
 Blank Corrected Pk Area (A-s): 0.117  
 Concentration (ug/L ): 19.7

Mean Conc (ug/L ):      20.1      SD: 0.68      RSD(%): 3.37

Recovery is 89.6%

Pb ID: 7XX-JM3820 SS28      Seq. No.: 00031      A/S Pos.: 11      Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 11  
 Replicate 1      Time: 18:02  
 Peak Area (A-s): 0.063      Peak Height (A): 0.106  
 Background Pk Area (A-s): 0.469      Background Pk Height (A): 0.217  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 8.9

uL dispensed: 5 from 39, 10 from 0, 25 from 11  
 Replicate 2 (Peak Stored)      Time: 18:06  
 Peak Area (A-s): 0.064      Peak Height (A): 0.107  
 Background Pk Area (A-s): 0.479      Background Pk Height (A): 0.222  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 9.1

Mean Conc (ug/L ):      9.0 Q      SD: 0.11      RSD(%): 1.23

Pb ID: 7XX-JM3820 SS28      Seq. No.: 00032      A/S Pos.: 11      Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 11  
 Replicate 1      Time: 18:09  
 Peak Area (A-s): 0.163      Peak Height (A): 0.270  
 Background Pk Area (A-s): 0.490      Background Pk Height (A): 0.258  
 Blank Corrected Pk Area (A-s): 0.157  
 Concentration (ug/L ): 27.0

uL dispensed: 5 from 39, 10 from 40, 25 from 11  
 Replicate 2 (Peak Stored)      Time: 18:12  
 Peak Area (A-s): 0.165      Peak Height (A): 0.275  
 Background Pk Area (A-s): 0.499      Background Pk Height (A): 0.268  
 Blank Corrected Pk Area (A-s): 0.159  
 Concentration (ug/L ): 27.3

Mean Conc (ug/L ):      27.1      SD: 0.22      RSD(%): 0.81

Recovery is 90.6%

Pb ID: CCV-0790      Seq. No.: 00033      A/S Pos.: 38      Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1  
 Peak Area (A-s): 0.138  
 Background Pk Area (A-s): 0.059  
 Blank Corrected Pk Area (A-s): 0.132  
 Concentration (ug/L ): 22.4

Time: 18:16  
 Peak Height (A): 0.242  
 Background Pk Height (A): 0.069

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.136  
 Background Pk Area (A-s): 0.060  
 Blank Corrected Pk Area (A-s): 0.130  
 Concentration (ug/L ): 22.0

Time: 18:19  
 Peak Height (A): 0.240  
 Background Pk Height (A): 0.068

Mean Conc (ug/L ): 22.2 SD: 0.23 RSD(%): 1.05

QC sample is within range 19.1 - 23.3

~~~~~  
 Pb ID: CCB Seq. No.: 00034 A/S Pos.: 0 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1  
 Peak Area (A-s): 0.007  
 Background Pk Area (A-s): 0.008  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.3

Time: 18:22  
 Peak Height (A): 0.010  
 Background Pk Height (A): 0.006

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.006  
 Background Pk Area (A-s): 0.012  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.6

Time: 18:25  
 Peak Height (A): 0.010  
 Background Pk Height (A): 0.007

Mean Conc (ug/L ): -1.4 SD: 0.21 RSD(%): 14.81

QC sample is within range

~~~~~  
 Pb ID: 7XX-JM3821 SS29 Seq. No.: 00035 A/S Pos.: 12 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 12  
 Replicate 1  
 Peak Area (A-s): 0.045  
 Background Pk Area (A-s): 0.427  
 Blank Corrected Pk Area (A-s): 0.040  
 Concentration (ug/L ): 5.7

Time: 18:29  
 Peak Height (A): 0.071  
 Background Pk Height (A): 0.203

uL dispensed: 5 from 39, 10 from 0, 25 from 12  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.044  
 Background Pk Area (A-s): 0.436  
 Blank Corrected Pk Area (A-s): 0.038  
 Concentration (ug/L ): 5.4

Time: 18:32  
 Peak Height (A): 0.069  
 Background Pk Height (A): 0.194

Mean Conc (ug/L ): 5.5<sub>Q</sub> SD: 0.23 RSD(%): 4.11

Pb ID: 7XX-JM3821 SS29 Seq. No.: 00036 A/S Pos.: 12 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 12

Replicate 1

Time: 18:35

Peak Area (A-s): 0.144

Peak Height (A): 0.235

Background Pk Area (A-s): 0.469

Background Pk Height (A): 0.247

Blank Corrected Pk Area (A-s): 0.138

Concentration (ug/L ): 23.4

uL dispensed: 5 from 39, 10 from 40, 25 from 12

Replicate 2 (Peak Stored)

Time: 18:38

Peak Area (A-s): 0.148

Peak Height (A): 0.246

Background Pk Area (A-s): 0.501

Background Pk Height (A): 0.265

Blank Corrected Pk Area (A-s): 0.142

Concentration (ug/L ): 24.2

Mean Conc (ug/L ): 23.8

SD: 0.57

RSD(%): 2.39

Recovery is 91.6%

Pb ID: 7XX-JM3822 SS30 Seq. No.: 00037 A/S Pos.: 13 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 13

Replicate 1

Time: 18:42

Peak Area (A-s): 0.047

Peak Height (A): 0.075

Background Pk Area (A-s): 0.464

Background Pk Height (A): 0.205

Blank Corrected Pk Area (A-s): 0.041

Concentration (ug/L ): 6.0

uL dispensed: 5 from 39, 10 from 0, 25 from 13

Replicate 2 (Peak Stored)

Time: 18:45

Peak Area (A-s): 0.047

Peak Height (A): 0.075

Background Pk Area (A-s): 0.455

Background Pk Height (A): 0.201

Blank Corrected Pk Area (A-s): 0.041

Concentration (ug/L ): 6.0

Mean Conc (ug/L ): 6.0

SD: 0.02

RSD(%): 0.30

Pb ID: 7XX-JM3822 SS30 Seq. No.: 00038 A/S Pos.: 13 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 13

Replicate 1

Time: 18:48

Peak Area (A-s): 0.139

Peak Height (A): 0.252

Background Pk Area (A-s): 0.527

Background Pk Height (A): 0.233

Blank Corrected Pk Area (A-s): 0.133

Concentration (ug/L ): 22.6

uL dispensed: 5 from 39, 10 from 40, 25 from 13

Replicate 2 (Peak Stored)

Time: 18:51

Peak Area (A-s): 0.148

Peak Height (A): 0.246

Background Pk Area (A-s): 0.486

Background Pk Height (A): 0.262

Blank Corrected Pk Area (A-s): 0.143

Concentration (ug/L ): 24.3

Mean Conc (ug/L ): 23.4

SD: 1.22

RSD(%): 5.22

Recovery is 87.3%

Pb ID: 7XX-JM3823 SS31 Seq. No.: 00039 A/S Pos.: 14 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
 Replicate 1 Time: 18:55  
 Peak Area (A-s): 0.132 Peak Height (A): 0.219  
 Background Pk Area (A-s): 0.503 Background Pk Height (A): 0.247  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 21.4

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
 Replicate 2 (Peak Stored) Time: 18:58  
 Peak Area (A-s): 0.133 Peak Height (A): 0.213  
 Background Pk Area (A-s): 0.500 Background Pk Height (A): 0.239  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 21.4

Mean Conc (ug/L ): 21.4 SD: 0.01 RSD(%): 0.03

Pb ID: 7XX-JM3823 SS31 Seq. No.: 00040 A/S Pos.: 14 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 1 Time: 19:01  
 Peak Area (A-s): 0.224 Peak Height (A): 0.358  
 Background Pk Area (A-s): 0.501 Background Pk Height (A): 0.279  
 Blank Corrected Pk Area (A-s): 0.218  
 Concentration (ug/L ): 37.9

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 19:04  
 Peak Area (A-s): 0.216 Peak Height (A): 0.398  
 Background Pk Area (A-s): 0.568 Background Pk Height (A): 0.239  
 Blank Corrected Pk Area (A-s): 0.210  
 Concentration (ug/L ): 36.5

Mean Conc (ug/L ): 37.2 SD: 0.99 RSD(%): 2.65

Recovery is 79.1% (outside of specified limits)

Pb ID: 7XX-JM3824 SS32 Seq. No.: 00041 A/S Pos.: 15 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 15  
 Replicate 1 Time: 19:08  
 Peak Area (A-s): 0.032 Peak Height (A): 0.052  
 Background Pk Area (A-s): 0.458 Background Pk Height (A): 0.195  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 3.2

uL dispensed: 5 from 39, 10 from 0, 25 from 15  
 Replicate 2 (Peak Stored) Time: 19:11  
 Peak Area (A-s): 0.033 Peak Height (A): 0.059  
 Background Pk Area (A-s): 0.475 Background Pk Height (A): 0.161  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 3.4

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Mean Conc (ug/L ): 3.3 Q SD: 0.09 RSD(%): 2.80

Pb ID: 7XX-JM3824 SS32 Seq. No.: 00042 A/S Pos.: 15 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 1 Time: 19:14  
 Peak Area (A-s): 0.131 Peak Height (A): 0.220  
 Background Pk Area (A-s): 0.471 Background Pk Height (A): 0.241  
 Blank Corrected Pk Area (A-s): 0.125  
 Concentration (ug/L ): 21.2

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 2 (Peak Stored) Time: 19:17  
 Peak Area (A-s): 0.126 Peak Height (A): 0.261  
 Background Pk Area (A-s): 0.471 Background Pk Height (A): 0.171  
 Blank Corrected Pk Area (A-s): 0.120  
 Concentration (ug/L ): 20.3

Mean Conc (ug/L ): 20.7 SD: 0.64 RSD(%): 3.10

Recovery is 87.1%

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00043 A/S Pos.: 16 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 16

Replicate 1 Time: 19:21  
 Peak Area (A-s): 0.078 Peak Height (A): 0.123  
 Background Pk Area (A-s): 0.484 Background Pk Height (A): 0.221  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 11.6

uL dispensed: 5 from 39, 10 from 0, 25 from 16

Replicate 2 (Peak Stored) Time: 19:24  
 Peak Area (A-s): 0.075 Peak Height (A): 0.123  
 Background Pk Area (A-s): 0.472 Background Pk Height (A): 0.222  
 Blank Corrected Pk Area (A-s): 0.070  
 Concentration (ug/L ): 11.1

Mean Conc (ug/L ): 11.3 SD: 0.39 RSD(%): 3.44

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00044 A/S Pos.: 16 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16

Replicate 1 Time: 19:27  
 Peak Area (A-s): 0.156 Peak Height (A): 0.315  
 Background Pk Area (A-s): 0.509 Background Pk Height (A): 0.228  
 Blank Corrected Pk Area (A-s): 0.150  
 Concentration (ug/L ): 25.7

uL dispensed: 5 from 39, 10 from 40, 25 from 16

Replicate 2 (Peak Stored) Time: 19:31  
 Peak Area (A-s): 0.169 Peak Height (A): 0.307  
 Background Pk Area (A-s): 0.532 Background Pk Height (A): 0.229  
 Blank Corrected Pk Area (A-s): 0.163  
 Concentration (ug/L ): 28.0

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Mean Conc (ug/L ): 26.8 SD: 1.62 RSD(%): 6.04

Recovery is 77.3% (outside of specified limits)

Pb ID: CCV-0790 Seq. No.: 00045 A/S Pos.: 38 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 1 Time: 19:34  
Peak Area (A-s): 0.134 Peak Height (A): 0.232  
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.064  
Blank Corrected Pk Area (A-s): 0.128  
Concentration (ug/L ): 21.7

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 19:37  
Peak Area (A-s): 0.134 Peak Height (A): 0.231  
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.128  
Concentration (ug/L ): 21.8

Mean Conc (ug/L ): 21.7 SD: 0.02 RSD(%): 0.07

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00046 A/S Pos.: 0 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 19:40  
Peak Area (A-s): 0.007 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -1.3

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 19:44  
Peak Area (A-s): 0.005 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.7

Mean Conc (ug/L ): -1.5 SD: 0.25 RSD(%): 16.39

QC sample is within range

Pb ID: TCLP BLK 3870 Seq. No.: 00047 A/S Pos.: 17 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 17  
Replicate 1 Time: 19:47  
Peak Area (A-s): 0.007 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.409 Background Pk Height (A): 0.189  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 10 from 0, 25 from 17  
Replicate 2 (Peak Stored) Time: 19:50  
Peak Area (A-s): 0.012 Peak Height (A): 0.020

Background Pk Area (A-s): 0.403  
 Blank Corrected Pk Area (A-s): 0.006  
 Concentration (ug/L ): -0.4

Background Pk Height (A): 0.146

Mean Conc (ug/L ): -0.8 Q SD: 0.58 RSD(%): 70.36

Pb ID: TCLP BLK 3870 Seq. No.: 00048 A/S Pos.: 17 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 17

Replicate 1 Time: 19:54  
 Peak Area (A-s): 0.112 Peak Height (A): 0.184  
 Background Pk Area (A-s): 0.455 Background Pk Height (A): 0.229  
 Blank Corrected Pk Area (A-s): 0.106  
 Concentration (ug/L ): 17.7

uL dispensed: 5 from 39, 10 from 40, 25 from 17

Replicate 2 (Peak Stored) Time: 19:57  
 Peak Area (A-s): 0.115 Peak Height (A): 0.173  
 Background Pk Area (A-s): 0.453 Background Pk Height (A): 0.223  
 Blank Corrected Pk Area (A-s): 0.110  
 Concentration (ug/L ): 18.3

Mean Conc (ug/L ): 18.0 SD: 0.46 RSD(%): 2.55

Recovery is 94.1%

Pb ID: PBL-N7R3859 Seq. No.: 00049 A/S Pos.: 18 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 18

Replicate 1 Time: 20:00  
 Peak Area (A-s): 0.005 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.6

uL dispensed: 5 from 39, 10 from 0, 25 from 18

Replicate 2 (Peak Stored) Time: 20:03  
 Peak Area (A-s): 0.006 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.6

Mean Conc (ug/L ): -1.6 Q SD: 0.03 RSD(%): 1.89

Pb ID: PBL-N7R3859 Seq. No.: 00050 A/S Pos.: 18 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 18

Replicate 1 Time: 20:07  
 Peak Area (A-s): 0.115 Peak Height (A): 0.182  
 Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.109  
 Concentration (ug/L ): 18.2

uL dispensed: 5 from 39, 10 from 40, 25 from 18

Replicate 2 (Peak Stored) Time: 20:10  
 Peak Area (A-s): 0.115 Peak Height (A): 0.186



Background Pk Area (A-s): 0.042  
 Blank Corrected Pk Area (A-s): 0.109  
 Concentration (ug/L ): 18.2

Background Pk Height (A): 0.051

Mean Conc (ug/L ): 18.2 SD: 0.04 RSD(%): 0.21

Recovery is 99.0%

Pb ID: LCSSL-N7R3859 Seq. No.: 00051 A/S Pos.: 19 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 19  
 Replicate 1 Time: 20:13  
 Peak Area (A-s): 0.129 Peak Height (A): 0.198  
 Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.124  
 Concentration (ug/L ): 20.9

uL dispensed: 5 from 39, 10 from 0, 25 from 19  
 Replicate 2 (Peak Stored) Time: 20:17  
 Peak Area (A-s): 0.132 Peak Height (A): 0.201  
 Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.056  
 Blank Corrected Pk Area (A-s): 0.126  
 Concentration (ug/L ): 21.3

Mean Conc (ug/L ): 21.1 Q SD: 0.32 RSD(%): 1.50

Pb ID: LCSSL-N7R3859 Seq. No.: 00052 A/S Pos.: 19 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 19  
 Replicate 1 Time: 20:20  
 Peak Area (A-s): 0.222 Peak Height (A): 0.345  
 Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.097  
 Blank Corrected Pk Area (A-s): 0.216  
 Concentration (ug/L ): 37.6

uL dispensed: 5 from 39, 10 from 40, 25 from 19  
 Replicate 2 (Peak Stored) Time: 20:23  
 Peak Area (A-s): 0.222 Peak Height (A): 0.344  
 Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.099  
 Blank Corrected Pk Area (A-s): 0.216  
 Concentration (ug/L ): 37.6

Mean Conc (ug/L ): 37.6 SD: 0.04 RSD(%): 0.11

Recovery is 82.5% (outside of specified limits) *0.25 3.3-44*

Pb ID: 7SM-JM3563 MTXS Seq. No.: 00053 A/S Pos.: 20 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 20  
 Replicate 1 Time: 20:27  
 Peak Area (A-s): 0.156 Peak Height (A): 0.252  
 Background Pk Area (A-s): 0.457 Background Pk Height (A): 0.257  
 Blank Corrected Pk Area (A-s): 0.150  
 Concentration (ug/L ): 25.6

uL dispensed: 5 from 39, 10 from 0, 25 from 20

Replicate 2 (Peak Stored) Time: 20:30  
 Peak Area (A-s): 0.135 Peak Height (A): 0.290  
 Background Pk Area (A-s): 0.453 Background Pk Height (A): 0.211  
 Blank Corrected Pk Area (A-s): 0.129  
 Concentration (ug/L ): 21.9

Mean Conc (ug/L ): 23.8<sup>Q</sup> SD: 2.61 RSD(%): 11.01

Pb ID: 7SD-JM3563 MTRX Seq. No.: 00054 A/S Pos.: 21 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 21  
 Replicate 1 Time: 20:34  
 Peak Area (A-s): 0.137 Peak Height (A): 0.262  
 Background Pk Area (A-s): 0.519 Background Pk Height (A): 0.217  
 Blank Corrected Pk Area (A-s): 0.131  
 Concentration (ug/L ): 22.3

uL dispensed: 5 from 39, 10 from 0, 25 from 21  
 Replicate 2 (Peak Stored) Time: 20:37  
 Peak Area (A-s): 0.123 Peak Height (A): 0.267  
 Background Pk Area (A-s): 0.475 Background Pk Height (A): 0.175  
 Blank Corrected Pk Area (A-s): 0.117  
 Concentration (ug/L ): 19.7

Mean Conc (ug/L ): 21.0<sup>Q</sup> SD: 1.77 RSD(%): 8.44

Pb ID: 7XX-JM3563 DS09 Seq. No.: 00055 A/S Pos.: 22 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 22  
 Replicate 1 Time: 20:40  
 Peak Area (A-s): 0.026 Peak Height (A): 0.044  
 Background Pk Area (A-s): 0.482 Background Pk Height (A): 0.200  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 22  
 Replicate 2 (Peak Stored) Time: 20:44  
 Peak Area (A-s): 0.026 Peak Height (A): 0.051  
 Background Pk Area (A-s): 0.474 Background Pk Height (A): 0.171  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 2.1

Mean Conc (ug/L ): 2.1<sup>Q</sup> SD: 0.02 RSD(%): 1.07

Pb ID: 7XX-JM3563 DS09 Seq. No.: 00056 A/S Pos.: 22 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 40, 25 from 22  
 Replicate 1 Time: 20:47  
 Peak Area (A-s): 0.122 Peak Height (A): 0.236  
 Background Pk Area (A-s): 0.500 Background Pk Height (A): 0.207  
 Blank Corrected Pk Area (A-s): 0.116  
 Concentration (ug/L ): 19.5

uL dispensed: 5 from 39, 10 from 40, 25 from 22  
 Replicate 2 (Peak Stored) Time: 20:51  
 Peak Area (A-s): 0.135 Peak Height (A): 0.206

Background Pk Area (A-s): 0.513  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 21.9

Background Pk Height (A): 0.248

Mean Conc (ug/L ): 20.7 SD: 1.69 RSD(%): 8.14

Recovery is 93.2%

Pb ID: CCV-0790 Seq. No.: 00057 A/S Pos.: 38 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 1 Time: 20:54  
Peak Area (A-s): 0.134 Peak Height (A): 0.228  
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.128  
Concentration (ug/L ): 21.7

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 20:57  
Peak Area (A-s): 0.136 Peak Height (A): 0.231  
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.064  
Blank Corrected Pk Area (A-s): 0.130  
Concentration (ug/L ): 22.1

Mean Conc (ug/L ): 21.9 SD: 0.29 RSD(%): 1.34

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00058 A/S Pos.: 0 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 21:01  
Peak Area (A-s): 0.007 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 21:04  
Peak Area (A-s): 0.004 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -1.6 SD: 0.45 RSD(%): 28.91

QC sample is within range

Pb ID: 7XX-JM3563 DUP Seq. No.: 00059 A/S Pos.: 23 Date: 03/03/94

uL dispensed: 5 from 39, 10 from 0, 25 from 23  
Replicate 1 Time: 21:07  
Peak Area (A-s): 0.028 Peak Height (A): 0.044  
Background Pk Area (A-s): 0.409 Background Pk Height (A): 0.195  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 2.5

00163

ID/Weight File: A030494.IDW  
Sample Volume: 100 mL

Analyst: SBE  
Nominal Weight: 1.0 g

Loc.	Sample ID	Weight	Dilution
1	7XX-JM3823 SS31		2
2	7XX-JM3825 SS33		2

Element File: PBDK.GEL

Element: Pb

Print Data: Main+Suppl.

Print: Calib. Curve+Elem. Params.

Analyst: RLS

Peak Storage: 1 Repl./Sample

INSTRUMENT: 5100

Technique: HGA

Version: 7.10

Wavelength: 283.3 Peak

Slit: 0.7 Low

Signal Type: Zeeman AA

Signal Measurement: Peak Area

Read Time: 7.0

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 BLK		0	25	10	5	
Standard 1	STD 1 IN0785	4.0	40	2	10	5	
Standard 2	STD 2	10.0	40	5	10	5	
Standard 3	STD 3	20.0	40	10	10	5	
Standard 4	STD 4	30.0	40	15	10	5	
Standard 5	STD 5	40.0	40	20	10	5	
Standard 6	STD 6	50.0	40	25	10	5	
Samples				25	10	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	10	30	300		Alt
2	150	5	10	300		Alt
3	600	10	40	300		Alt
4	20	1	10	300		Alt
5	1750	0	5	0	*	Alt
6	2500	1	5	300		Alt

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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4.0 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L

Measure Recovery on Samples: 1-2,5-19,22-30

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-0791	31.8	38.8	X			
2	0 ICB			X			
3	38 CCV-0790	19.1	23.3		X		X
4	0 CCB				X		X
5	36 CRA-0792	2.25	3.75	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: PBDK.GEL      Element: Pb      Wavelength: 283.3  
 Date: 03/04/94      Time: 08:14      Slit: 0.7 L  
 Data File: A030494.DAT      ID/Wt File: A030494.IDW      Lamp Current: 10  
 Technique: HGA      Calib. Type: Linear      Energy: 61  
 -----

Pb    ID: CAL BLK      Seq. No.: 00001      A/S Pos.: 0      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1      Time: 08:17  
 Peak Area (A-s): 0.004      Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.020      Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.9

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored)      Time: 08:20  
 Peak Area (A-s): 0.003      Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.009      Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -2.0

Mean Conc (ug/L ):      -2.0      SD: 0.08      RSD(%): 4.17

Auto-zero performed.

-----  
 Pb    ID: STD 1 IN0785      Seq. No.: 00002      A/S Pos.: 40      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
 Replicate 1      Time: 08:24  
 Peak Area (A-s): 0.033      Peak Height (A): 0.049  
 Background Pk Area (A-s): 0.022      Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 3.8

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
 Replicate 2 (Peak Stored)      Time: 08:27  
 Peak Area (A-s): 0.037      Peak Height (A): 0.057  
 Background Pk Area (A-s): 0.029      Background Pk Height (A): 0.018  
 Blank Corrected Pk Area (A-s): 0.033  
 Concentration (ug/L ): 4.5

Mean Conc (ug/L ):      4.2      SD: 0.50      RSD(%): 12.02

Standard number 1 applied. [4.0]  
 Correlation coefficient: 1.00000      Slope: 0.0079      Int: 0.000

-----  
 Pb    ID: STD 2      Seq. No.: 00003      A/S Pos.: 40      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40  
 Replicate 1      Time: 08:30  
 Peak Area (A-s): 0.076      Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.034      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 9.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40  
 Replicate 2 (Peak Stored) Time: 08:34  
 Peak Area (A-s): 0.077 Peak Height (A): 0.112  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.073  
 Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 9.3 SD: 0.07 RSD(%): 0.70

Standard number 2 applied. [10.0]  
 Correlation coefficient: 0.99934 Slope: 0.0073 Int: 0.001

~~~~~  
 Pb ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 10 from 40  
 Replicate 1 Time: 08:37  
 Peak Area (A-s): 0.130 Peak Height (A): 0.194  
 Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.053  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 17.3

uL dispensed: 5 from 39, 10 from 0, 10 from 40  
 Replicate 2 (Peak Stored) Time: 08:40  
 Peak Area (A-s): 0.131 Peak Height (A): 0.190  
 Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.054  
 Blank Corrected Pk Area (A-s): 0.128  
 Concentration (ug/L ): 17.5

Mean Conc (ug/L ): 17.4 SD: 0.15 RSD(%): 0.83

Standard number 3 applied. [20.0]  
 Correlation coefficient: 0.99658 Slope: 0.0063 Int: 0.004

~~~~~  
 Pb ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 15 from 40  
 Replicate 1 Time: 08:44  
 Peak Area (A-s): 0.186 Peak Height (A): 0.269  
 Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.077  
 Blank Corrected Pk Area (A-s): 0.182  
 Concentration (ug/L ): 28.2

uL dispensed: 5 from 39, 10 from 0, 15 from 40  
 Replicate 2 (Peak Stored) Time: 08:47  
 Peak Area (A-s): 0.187 Peak Height (A): 0.270  
 Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.077  
 Blank Corrected Pk Area (A-s): 0.183  
 Concentration (ug/L ): 28.4

Mean Conc (ug/L ): 28.3 SD: 0.12 RSD(%): 0.41

Standard number 4 applied. [30.0]  
 Correlation coefficient: 0.99773 Slope: 0.0060 Int: 0.006

~~~~~  
 Pb ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 03/04/94



uL dispensed: 5 from 39, 10 from 0, 20 from 40  
 Replicate 1 Time: 08:51  
 Peak Area (A-s): 0.234 Peak Height (A): 0.352  
 Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.102  
 Blank Corrected Pk Area (A-s): 0.231  
 Concentration (ug/L ): 37.5

uL dispensed: 5 from 39, 10 from 0, 20 from 40  
 Replicate 2 (Peak Stored) Time: 08:54  
 Peak Area (A-s): 0.233 Peak Height (A): 0.338  
 Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.099  
 Blank Corrected Pk Area (A-s): 0.230  
 Concentration (ug/L ): 37.3

Mean Conc (ug/L ): 37.4 SD: 0.15 RSD(%): 0.39

Standard number 5 applied. [40.0]  
 Correlation coefficient: 0.99747 Slope: 0.0057 Int: 0.009

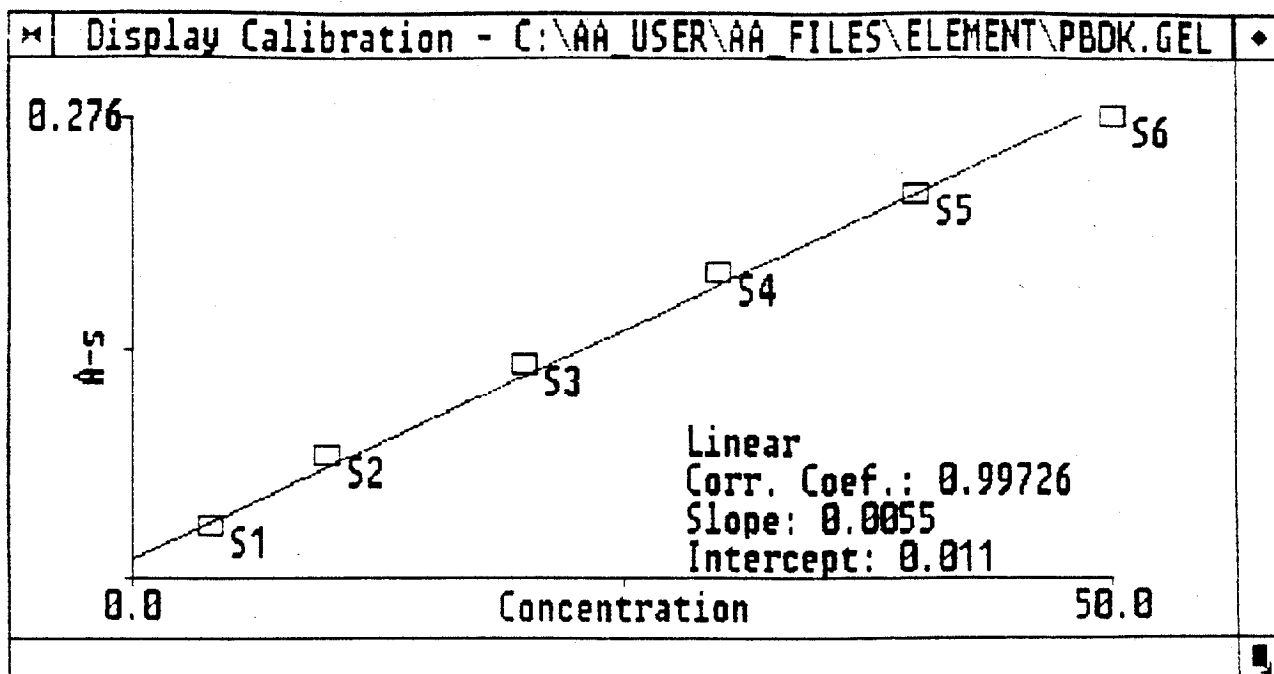
-----  
 Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
 Replicate 1 Time: 08:57  
 Peak Area (A-s): 0.280 Peak Height (A): 0.407  
 Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.125  
 Blank Corrected Pk Area (A-s): 0.277  
 Concentration (ug/L ): 47.1

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
 Replicate 2 (Peak Stored) Time: 09:01  
 Peak Area (A-s): 0.279 Peak Height (A): 0.400  
 Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.118  
 Blank Corrected Pk Area (A-s): 0.276  
 Concentration (ug/L ): 46.8

Mean Conc (ug/L ): 46.9 SD: 0.17 RSD(%): 0.36

Standard number 6 applied. [50.0]  
 Correlation coefficient: 0.99726 Slope: 0.0055 Int: 0.011



Pb ID: ICV-0791 Seq. No.: 00008 A/S Pos.: 37 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
Replicate 1 Time: 09:05  
Peak Area (A-s): 0.201 Peak Height (A): 0.321  
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.095  
Blank Corrected Pk Area (A-s): 0.198  
Concentration (ug/L ): 34.1

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
Replicate 2 (Peak Stored) Time: 09:09  
Peak Area (A-s): 0.202 Peak Height (A): 0.325  
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.095  
Blank Corrected Pk Area (A-s): 0.199  
Concentration (ug/L ): 34.3

Mean Conc (ug/L ): 34.2 SD: 0.10 RSD(%): 0.31

QC sample is within range 31.8 - 38.8

Pb ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 09:12  
Peak Area (A-s): 0.003 Peak Height (A): 0.005  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 09:15  
Peak Area (A-s): 0.001 Peak Height (A): 0.006  
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.005

Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -2.5

Mean Conc (ug/L ): -2.3 SD: 0.27 RSD(%): 11.60

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00010 A/S Pos.: 36 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1 Time: 09:18  
 Peak Area (A-s): 0.031 Peak Height (A): 0.043  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.013  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 3.0

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 09:22  
 Peak Area (A-s): 0.025 Peak Height (A): 0.036  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.011  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 1.9

Mean Conc (ug/L ): 2.5 SD: 0.83 RSD(%): 33.58

QC sample is within range 2.25 - 3.75

Pb ID: 7XX-JM3823 SS31 Seq. No.: 00011 A/S Pos.: 1 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 1 Time: 09:25  
 Peak Area (A-s): 0.078 Peak Height (A): 0.129  
 Background Pk Area (A-s): 0.243 Background Pk Height (A): 0.171  
 Blank Corrected Pk Area (A-s): 0.074  
 Concentration (ug/L ): 11.5 Corrected Conc (ug/L ): 23.1

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 2 (Peak Stored) Time: 09:29  
 Peak Area (A-s): 0.074 Peak Height (A): 0.134  
 Background Pk Area (A-s): 0.250 Background Pk Height (A): 0.174  
 Blank Corrected Pk Area (A-s): 0.070  
 Concentration (ug/L ): 10.8 Corrected Conc (ug/L ): 21.7

Mean Conc (ug/L ): 11.2<sup>Q</sup> SD: 0.50 RSD(%): 4.45  
 Corrected Conc (ug/L ): 22.4

Pb ID: 7XX-JM3823 SS31 Seq. No.: 00012 A/S Pos.: 1 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
 Replicate 1 Time: 09:32  
 Peak Area (A-s): 0.180 Peak Height (A): 0.282  
 Background Pk Area (A-s): 0.283 Background Pk Height (A): 0.205  
 Blank Corrected Pk Area (A-s): 0.177  
 Concentration (ug/L ): 30.3 Corrected Conc (ug/L ): 60.5

uL dispensed: 5 from 39, 10 from 40, 25 from 1

Replicate 2 (Peak Stored) Time: 09:35  
 Peak Area (A-s): 0.178 Peak Height (A): 0.280  
 Background Pk Area (A-s): 0.286 Background Pk Height (A): 0.197  
 Blank Corrected Pk Area (A-s): 0.175  
 Concentration (ug/L ): 29.9 Corrected Conc (ug/L ): 59.8  
 Mean Conc (ug/L ): 30.1 SD: 0.25 RSD(%): 0.83  
 Corrected Conc (ug/L ): 60.2

Recovery is 94.5%

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00013 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 1 Time: 09:39  
 Peak Area (A-s): 0.017 Peak Height (A): 0.032  
 Background Pk Area (A-s): 0.239 Background Pk Height (A): 0.150  
 Blank Corrected Pk Area (A-s): 0.014  
 Concentration (ug/L ): 0.5 Corrected Conc (ug/L ): 1.0

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 2 (Peak Stored) Time: 09:42  
 Peak Area (A-s): 0.025 Peak Height (A): 0.043  
 Background Pk Area (A-s): 0.360 Background Pk Height (A): 0.210  
 Blank Corrected Pk Area (A-s): 0.022  
 Concentration (ug/L ): 2.0 Corrected Conc (ug/L ): 4.0  
 Mean Conc (ug/L ): 1.2 SD: 1.04 RSD(%): 83.24  
 Corrected Conc (ug/L ): 2.5

SB 34-94  
 Re-run  
 1x  
 dilution

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00015 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 1 Time: 09:49  
 Peak Area (A-s): 0.027 Peak Height (A): 0.046  
 Background Pk Area (A-s): 0.291 Background Pk Height (A): 0.212  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 2.3

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 2 (Peak Stored) Time: 09:52  
 Peak Area (A-s): 0.022 Peak Height (A): 0.043  
 Background Pk Area (A-s): 0.275 Background Pk Height (A): 0.154  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 1.4

Mean Conc (ug/L ): 1.8 Q SD: 0.62 RSD(%): 33.97

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00016 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 1 Time: 09:55  
 Peak Area (A-s): 0.133 Peak Height (A): 0.206  
 Background Pk Area (A-s): 0.415 Background Pk Height (A): 0.256  
 Blank Corrected Pk Area (A-s): 0.130  
 Concentration (ug/L ): 21.7

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 2 (Peak Stored) Time: 09:59  
 Peak Area (A-s): 0.108 Peak Height (A): 0.219  
 Background Pk Area (A-s): 0.335 Background Pk Height (A): 0.147  
 Blank Corrected Pk Area (A-s): 0.105  
 Concentration (ug/L ): 17.1

Mean Conc (ug/L ): 19.4 SD: 3.23 RSD(%) 16.66

Recovery is 87.7%

*SB 3-4-94  
 automatic  
 rerun*  
 ↓

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00017 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 1 Time: 10:02  
 Peak Area (A-s): 0.106 Peak Height (A): 0.203  
 Background Pk Area (A-s): 0.337 Background Pk Height (A): 0.178  
 Blank Corrected Pk Area (A-s): 0.102  
 Concentration (ug/L ): 16.7

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 2 (Peak Stored) Time: 10:05  
 Peak Area (A-s): 0.137 Peak Height (A): 0.196  
 Background Pk Area (A-s): 0.425 Background Pk Height (A): 0.253  
 Blank Corrected Pk Area (A-s): 0.133  
 Concentration (ug/L ): 22.3

Mean Conc (ug/L ): 19.5 SD: 3.99 RSD(%) : 20.47

Recovery is 88.3%

Pb ID: CCV-0790 Seq. No.: 00018 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 1 Time: 10:09  
 Peak Area (A-s): 0.111 Peak Height (A): 0.163  
 Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.047  
 Blank Corrected Pk Area (A-s): 0.107  
 Concentration (ug/L ): 17.5

*SB 3-4-94  
 Autosampler  
 failed*

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Pb ID: CCV-0790 Seq. No.: 00019 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 1 Time: 10:14  
 Peak Area (A-s): 0.135 Peak Height (A): 0.204  
 Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.060  
 Blank Corrected Pk Area (A-s): 0.132  
 Concentration (ug/L ): 22.0

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 10:17  
 Peak Area (A-s): 0.139 Peak Height (A): 0.214  
 Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.061  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 22.8

Mean Conc (ug/L ): 22.4 SD: 0.57 RSD(%): 2.55

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00020 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1 Time: 10:20  
 Peak Area (A-s): 0.004 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.008  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 10:24  
 Peak Area (A-s): 0.002 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.006  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.2

Mean Conc (ug/L ): -2.0 SD: 0.26 RSD(%): 12.70

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00021 A/S Pos.: 36 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1 Time: 10:27  
 Peak Area (A-s): 0.024 Peak Height (A): 0.036  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.011  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 10:30  
 Peak Area (A-s): 0.023 Peak Height (A): 0.038  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.012  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 1.5

Mean Conc (ug/L ): 1.6 SD: 0.10 RSD(%): 5.91

QC sample is out of range 2.25 - 3.75

Pb ID: 7XX-JM3825 SS33 Seq. No.: 00022 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 1 Time: 10:34  
 Peak Area (A-s): 0.003 Peak Height (A): 0.005  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.007  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -2.0

uL dispensed: 5 from 39, 10 from 0, 25 from 2

003 3-4-94

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<br>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    | 300  | 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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 10

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 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: 1-2,5-19,22-30

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

| Loc. | QC Sample ID | Conc. | Limits Lower | Upper | After Calib | Periodic Check | At End | Count As Sample |
|------|--------------|-------|--------------|-------|-------------|----------------|--------|-----------------|
| 1    | 07 ICV-0790  | 35.2  | 35.2         | 43.0  | X           |                |        |                 |
| 2    | 0 ICB        |       |              |       | X           |                |        |                 |
| 3    | 08 CCV-0793  | 21.1  | 21.1         | 25.8  |             | X              | X      |                 |
| 4    | 0 CCB        |       |              |       |             | X              | X      |                 |
| 5    | 06 CRA-0795  | 3.81  | 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





Standard number 2 applied. [10.000]

Correlation coefficient: 0.99593

Slope: 0.0031

Int: 0.001

Se ID: STD 3

Seq. No.: 00004

A/S Pos.: 40

Date: 03/04/94

Replicate 1 (Peak Stored)

Time: 12:56

Peak Area (A-s): 0.066

Peak Height (A): 0.133

Background Pk Area (A-s): 0.219

Background Pk Height (A): 0.098

Blank Corrected Pk Area (A-s): 0.062

Replicate 2 (Peak Stored)

Time: 13:00

Peak Area (A-s): 0.065

Peak Height (A): 0.146

Background Pk Area (A-s): 0.144

Background Pk Height (A): 0.085

Blank Corrected Pk Area (A-s): 0.061

Mean Pk Area (A-s): 0.062

RSD(%): 1.27

Standard number 3 applied. [20.000]

Correlation coefficient: 0.99907

Slope: 0.0030

Int: 0.001

Se ID: STD 4

Seq. No.: 00005

A/S Pos.: 40

Date: 03/04/94

Replicate 1 (Peak Stored)

Time: 13:03

Peak Area (A-s): 0.098

Peak Height (A): 0.197

Background Pk Area (A-s): 0.184

Background Pk Height (A): 0.101

Blank Corrected Pk Area (A-s): 0.094

Replicate 2 (Peak Stored)

Time: 13:06

Peak Area (A-s): 0.097

Peak Height (A): 0.203

Background Pk Area (A-s): 0.145

Background Pk Height (A): 0.081

Blank Corrected Pk Area (A-s): 0.093

Mean Pk Area (A-s): 0.094

RSD(%): 0.77

Standard number 4 applied. [30.000]

Correlation coefficient: 0.99961

Slope: 0.0031

Int: 0.001

Se ID: STD 5

Seq. No.: 00006

A/S Pos.: 40

Date: 03/04/94

Replicate 1 (Peak Stored)

Time: 13:10

Peak Area (A-s): 0.130

Peak Height (A): 0.265

Background Pk Area (A-s): 0.106

Background Pk Height (A): 0.070

Blank Corrected Pk Area (A-s): 0.126

Replicate 2 (Peak Stored)

Time: 13:13

Peak Area (A-s): 0.133

Peak Height (A): 0.268

Background Pk Area (A-s): 0.084

Background Pk Height (A): 0.063

Blank Corrected Pk Area (A-s): 0.129

Mean Pk Area (A-s): 0.128

RSD(%): 1.75

Standard number 5 applied. [40.000]

Correlation coefficient: 0.99961

Slope: 0.0031

Int: 0.000

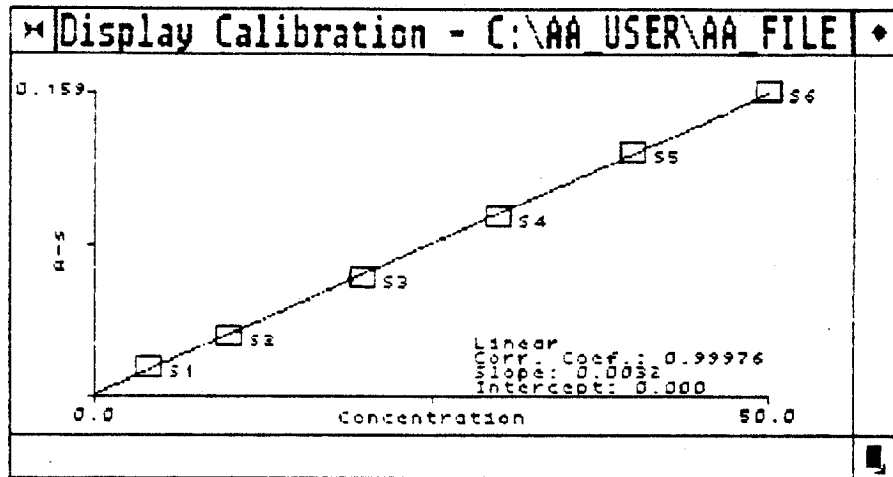
Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 13:17  
 Peak Area (A-s): 0.167 Peak Height (A): 0.323  
 Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.078  
 Blank Corrected Pk Area (A-s): 0.163

Replicate 2 (Peak Stored) Time: 13:20  
 Peak Area (A-s): 0.158 Peak Height (A): 0.338  
 Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.078  
 Blank Corrected Pk Area (A-s): 0.154

Mean Pk Area (A-s): 0.159 RSD(%): 4.11

Standard number 6 applied. [50.000]  
 Correlation coefficient: 0.99976 Slope: 0.0032 Int: 0.000



Se ID: ICV-0793 Seq. No.: 00008 A/S Pos.: 37 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 13:44  
 Peak Area (A-s): 0.135 Peak Height (A): 0.286  
 Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.062  
 Blank Corrected Pk Area (A-s): 0.132  
 Concentration (ug/L ): 41.7

Replicate 2 (Peak Stored) Time: 13:47  
 Peak Area (A-s): 0.131 Peak Height (A): 0.270  
 Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.128  
 Concentration (ug/L ): 40.3

Mean Conc (ug/L ): 41.0 SD: 0.98 RSD(%): 2.40

Se ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 13:51  
 Peak Area (A-s): 0.006 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.7

Replicate 2 (Peak Stored) Time: 13:54  
 Peak Area (A-s): 0.008 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.3

Mean Conc (ug/L ): 1.0 SD: 0.45 RSD(%): 43.86

Se ID: CRA-0795 Seq. No.: 00010 A/S Pos.: 36 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 13:57  
 Peak Area (A-s): 0.019 Peak Height (A): 0.042  
 Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 4.9

Replicate 2 (Peak Stored) Time: 14:01  
 Peak Area (A-s): 0.021 Peak Height (A): 0.045  
 Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.042  
 Blank Corrected Pk Area (A-s): 0.017  
 Concentration (ug/L ): 5.5

Mean Conc (ug/L ): 5.2 SD: 0.40 RSD(%): 7.71

Se ID: PBL-N7R3870 Seq. No.: 00011 A/S Pos.: 1 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 14:04  
 Peak Area (A-s): 0.007 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.1

Replicate 2 (Peak Stored) Time: 14:08  
 Peak Area (A-s): 0.002 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.4

Mean Conc (ug/L ): 0.3 SD: 1.06 RSD(%): 315.7

Se ID: PBL-N7R3870 Seq. No.: 00012 A/S Pos.: 1 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 14:11  
 Peak Area (A-s): 0.044 Peak Height (A): 0.084  
 Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.041

603  
3-4-94

Concentration (ug/L ): 12.9

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.040  
Background Pk Area (A-s): 0.048  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 11.6

Time: 14:15  
Peak Height (A): 0.088  
Background Pk Height (A): 0.034

Mean Conc (ug/L ): 12.2 SD: 0.90 RSD(%): 7.39

Recovery is 119.0%

Se ID: PBL-N7R3870 Seq. No.: 00013 A/S Pos.: 1 Date: 03/04/94

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.042  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.2

Time: 14:19  
Peak Height (A): 0.012  
Background Pk Height (A): 0.032

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.038  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): 0.1

Time: 14:22  
Peak Height (A): 0.012  
Background Pk Height (A): 0.028

Mean Conc (ug/L ): 0.1 Q SD: 0.05 RSD(%): 37.67

Se ID: PBL-N7R3870 Seq. No.: 00014 A/S Pos.: 1 Date: 03/04/94

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.036  
Background Pk Area (A-s): 0.048  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 10.2

Time: 14:26  
Peak Height (A): 0.082  
Background Pk Height (A): 0.035

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.040  
Background Pk Area (A-s): 0.047  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 11.5

Time: 14:30  
Peak Height (A): 0.081  
Background Pk Height (A): 0.035

Mean Conc (ug/L ): 10.8 SD: 0.93 RSD(%): 8.61

Recovery is 106.9%

Se ID: LCSL-N7R3870 Seq. No.: 00015 A/S Pos.: 2 Date: 03/04/94

Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.074  
Background Pk Area (A-s): 0.072  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 22.2

Time: 14:33  
Peak Height (A): 0.152  
Background Pk Height (A): 0.047

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3-4-94

UO

uL dispensed: 5 from 39, 15 from 0, 25 from 2  
Replicate 2 (Peak Stored) Time: 14:37  
Peak Area (A-s): 0.076 Peak Height (A): 0.149  
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.073  
Concentration (ug/L ): 22.9

Mean Conc (ug/L ): 22.6  $\text{\textcircled{Q}}$  SD: 0.49 RSD(%): 2.17

-----  
Se ID: LCSL-N7R3870 Seq. No.: 00016 A/S Pos.: 2 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2  
Replicate 1 (Peak Stored) Time: 14:40  
Peak Area (A-s): 0.113 Peak Height (A): 0.223  
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.058  
Blank Corrected Pk Area (A-s): 0.109  
Concentration (ug/L ): 34.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2  
Replicate 2 (Peak Stored) Time: 14:44  
Peak Area (A-s): 0.108 Peak Height (A): 0.225  
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.104  
Concentration (ug/L ): 32.9

Mean Conc (ug/L ): 33.7 SD: 1.11 RSD(%): 3.30

Recovery is 111.2%

-----  
Se ID: 7SM-JM3815 MTXS Seq. No.: 00017 A/S Pos.: 3 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3  
Replicate 1 (Peak Stored) Time: 14:47  
Peak Area (A-s): 0.059 Peak Height (A): 0.137  
Background Pk Area (A-s): 0.591 Background Pk Height (A): 0.186  
Blank Corrected Pk Area (A-s): 0.056  
Concentration (ug/L ): 17.5

uL dispensed: 5 from 39, 15 from 0, 25 from 3  
Replicate 2 (Peak Stored) Time: 14:51  
Peak Area (A-s): 0.061 Peak Height (A): 0.129  
Background Pk Area (A-s): 0.599 Background Pk Height (A): 0.192  
Blank Corrected Pk Area (A-s): 0.058  
Concentration (ug/L ): 18.1

Mean Conc (ug/L ): 17.8  $\text{\textcircled{Q}}$  SD: 0.44 RSD(%): 2.46

-----  
Se ID: 7SD-JM3815 MTXR Seq. No.: 00018 A/S Pos.: 4 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 4  
Replicate 1 (Peak Stored) Time: 14:54  
Peak Area (A-s): 0.060 Peak Height (A): 0.131  
Background Pk Area (A-s): 0.593 Background Pk Height (A): 0.191  
Blank Corrected Pk Area (A-s): 0.056  
Concentration (ug/L ): 17.8

uL dispensed: 5 from 39, 15 from 0, 25 from 4  
 Replicate 2 (Peak Stored) Time: 14:57  
 Peak Area (A-s): 0.057 Peak Height (A): 0.131  
 Background Pk Area (A-s): 0.596 Background Pk Height (A): 0.192  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 16.9

Mean Conc (ug/L ): 17.4<sub>Q</sub> SD: 0.59 RSD(%): 3.42

-----  
 Se ID: 7XX-JM3815 SS23 Seq. No.: 00019 A/S Pos.: 5 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 5  
 Replicate 1 (Peak Stored) Time: 15:01  
 Peak Area (A-s): 0.008 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.589 Background Pk Height (A): 0.188  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L ): 1.3

uL dispensed: 5 from 39, 15 from 0, 25 from 5  
 Replicate 2 (Peak Stored) Time: 15:04  
 Peak Area (A-s): 0.000 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.591 Background Pk Height (A): 0.193  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.0

Mean Conc (ug/L ): 0.2<sub>Q</sub> SD: 1.61 RSD(%): 991.84

-----  
 Se ID: 7XX-JM3815 SS23 Seq. No.: 00020 A/S Pos.: 5 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5  
 Replicate 1 (Peak Stored) Time: 15:08  
 Peak Area (A-s): 0.027 Peak Height (A): 0.066  
 Background Pk Area (A-s): 0.584 Background Pk Height (A): 0.191  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 7.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5  
 Replicate 2 (Peak Stored) Time: 15:12  
 Peak Area (A-s): 0.030 Peak Height (A): 0.071  
 Background Pk Area (A-s): 0.579 Background Pk Height (A): 0.190  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 8.2

Mean Conc (ug/L ): 7.8 SD: 0.52 RSD(%): 6.68

Recovery is 76.9% (outside of specified limits)

-----  
 Se ID: CCV-0793 Seq. No.: 00021 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 15:15  
 Peak Area (A-s): 0.078 Peak Height (A): 0.151  
 Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.085  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 23.6

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 15:19  
 Peak Area (A-s): 0.087 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.084  
 Concentration (ug/L ): 26.4

Mean Conc (ug/L ): 25.0 SD: 2.00 RSD(%): 8.00

QC sample is within range 21.1 - 25.8

-----  
 Se ID: CCB Seq. No.: 00022 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 15:22  
 Peak Area (A-s): -0.000 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 15:25  
 Peak Area (A-s): 0.003 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.2

Mean Conc (ug/L ): -0.7 SD: 0.73 RSD(%): 105.30

QC sample is within range

-----  
 Se ID: 7XX-JM3815 DUP Seq. No.: 00023 A/S Pos.: 6 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 1 (Peak Stored) Time: 15:29  
 Peak Area (A-s): -0.001 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.557 Background Pk Height (A): 0.188  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 2 (Peak Stored) Time: 15:32  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.571 Background Pk Height (A): 0.188  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.3

Mean Conc (ug/L ): -0.6<sup>6</sup> SD: 1.17 RSD(%): 211.44

-----  
 Se ID: 7XX-JM3815 DUP Seq. No.: 00024 A/S Pos.: 6 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6  
 Replicate 1 (Peak Stored) Time: 15:36  
 Peak Area (A-s): 0.031 Peak Height (A): 0.073  
 Background Pk Area (A-s): 0.605 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.027



Concentration (ug/L ): 8.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6

Replicate 2 (Peak Stored)

Time: 15:39

Peak Area (A-s): 0.032

Peak Height (A): 0.070

Background Pk Area (A-s): 0.574

Background Pk Height (A): 0.191

Blank Corrected Pk Area (A-s): 0.029

Concentration (ug/L ): 9.0

Mean Conc (ug/L ):

8.8

SD: 0.32

RSD(%): 3.61

Recovery is ~~99.3%~~ <sup>100.4%</sup> 88.0%

Se ID: 7XX-JM3816 SS24 Seq. No.: 00025 A/S Pos.: 7 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7

Replicate 1 (Peak Stored)

Time: 15:43

Peak Area (A-s): 0.002

Peak Height (A): 0.014

Background Pk Area (A-s): 0.575

Background Pk Height (A): 0.186

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.4

uL dispensed: 5 from 39, 15 from 0, 25 from 7

Replicate 2 (Peak Stored)

Time: 15:46

Peak Area (A-s): 0.003

Peak Height (A): 0.014

Background Pk Area (A-s): 0.591

Background Pk Height (A): 0.189

Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L ): -0.1

Mean Conc (ug/L ):

-0.2

SD: 0.23

RSD(%): 104.17

Se ID: 7XX-JM3816 SS24 Seq. No.: 00026 A/S Pos.: 7 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7

Replicate 1 (Peak Stored)

Time: 15:50

Peak Area (A-s): 0.028

Peak Height (A): 0.066

Background Pk Area (A-s): 0.606

Background Pk Height (A): 0.192

Blank Corrected Pk Area (A-s): 0.025

Concentration (ug/L ): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7

Replicate 2 (Peak Stored)

Time: 15:53

Peak Area (A-s): 0.031

Peak Height (A): 0.058

Background Pk Area (A-s): 0.643

Background Pk Height (A): 0.206

Blank Corrected Pk Area (A-s): 0.028

Concentration (ug/L ): 8.7

Mean Conc (ug/L ):

8.3

SD: 0.64

RSD(%): 7.71

Recovery is ~~85.0%~~ <sup>100.4%</sup> 93.0%

Se ID: 7XX-JM3817 SS25 Seq. No.: 00027 A/S Pos.: 8 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8

Replicate 1 (Peak Stored)

Time: 15:57

Peak Area (A-s): 0.003

Peak Height (A): 0.017

Background Pk Area (A-s): 0.639      Background Pk Height (A): 0.213  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.2

uL dispensed: 5 from 39, 15 from 0, 25 from 8  
 Replicate 2 (Peak Stored)      Time: 16:00  
 Peak Area (A-s): -0.001      Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.632      Background Pk Height (A): 0.198  
 Blank Corrected Pk Area (A-s): -0.005  
 Concentration (ug/L ): -1.5

Mean Conc (ug/L ):      -0.8  $\text{Q}$       SD: 0.95      RSD(%): 111.98

-----  
 Se ID: 7XX-JM3817 SS25      Seq. No.: 00028      A/S Pos.: 8      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8  
 Replicate 1 (Peak Stored)      Time: 16:03  
 Peak Area (A-s): 0.030      Peak Height (A): 0.071  
 Background Pk Area (A-s): 0.635      Background Pk Height (A): 0.200  
 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 8  
 Replicate 2 (Peak Stored)      Time: 16:07  
 Peak Area (A-s): 0.028      Peak Height (A): 0.061  
 Background Pk Area (A-s): 0.643      Background Pk Height (A): 0.225  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 7.7

Mean Conc (ug/L ):      8.1      SD: 0.52      RSD(%): 6.51

Recovery is ~~89.0%~~ 81.0%

-----  
 Se ID: 7XX-JM3818 SS26      Seq. No.: 00029      A/S Pos.: 9      Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 1 (Peak Stored)      Time: 16:10  
 Peak Area (A-s): -0.000      Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.653      Background Pk Height (A): 0.249  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
 Replicate 2 (Peak Stored)      Time: 16:14  
 Peak Area (A-s): -0.000      Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.664      Background Pk Height (A): 0.254  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.2

Mean Conc (ug/L ):      -1.2  $\text{Q}$       SD: 0.08      RSD(%): 6.68

-----  
 Se ID: 7XX-JM3818 SS26      Seq. No.: 00030      A/S Pos.: 9      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 1 (Peak Stored)      Time: 16:17  
 Peak Area (A-s): 0.033      Peak Height (A): 0.063

Background Pk Area (A-s): 0.658      Background Pk Height (A): 0.268  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 9.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
 Replicate 2 (Peak Stored)      Time: 16:21  
 Peak Area (A-s): 0.030      Peak Height (A): 0.066  
 Background Pk Area (A-s): 0.672      Background Pk Height (A): 0.266  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.4

Mean Conc (ug/L ):      8.9      SD: 0.74      RSD(%): 8.30

Recovery is ~~100.0%~~ 89%

Se ID: 7XX-JM3819 SS27      Seq. No.: 00031      A/S Pos.: 10      Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 10  
 Replicate 1 (Peak Stored)      Time: 16:24  
 Peak Area (A-s): -0.002      Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.680      Background Pk Height (A): 0.211  
 Blank Corrected Pk Area (A-s): -0.005  
 Concentration (ug/L ): -1.7

uL dispensed: 5 from 39, 15 from 0, 25 from 10  
 Replicate 2 (Peak Stored)      Time: 16:27  
 Peak Area (A-s): -0.001      Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.679      Background Pk Height (A): 0.240  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -1.3

Mean Conc (ug/L ):      -1.5 *Q*      SD: 0.22      RSD(%): 14.92

Se ID: 7XX-JM3819 SS27      Seq. No.: 00032      A/S Pos.: 10      Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
 Replicate 1 (Peak Stored)      Time: 16:31  
 Peak Area (A-s): 0.024      Peak Height (A): 0.063  
 Background Pk Area (A-s): 0.701      Background Pk Height (A): 0.263  
 Blank Corrected Pk Area (A-s): 0.021  
 Concentration (ug/L ): 6.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
 Replicate 2 (Peak Stored)      Time: 16:34  
 Peak Area (A-s): 0.028      Peak Height (A): 0.067  
 Background Pk Area (A-s): 0.701      Background Pk Height (A): 0.308  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 7.6

Mean Conc (ug/L ):      7.1      SD: 0.75      RSD(%): 10.58

Recovery is ~~86.1%~~ 71%

Se ID: CCV-0793      Seq. No.: 00033      A/S Pos.: 38      Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 1 (Peak Stored) Time: 16:38  
 Peak Area (A-s): 0.089 Peak Height (A): 0.147  
 Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): 0.085  
 Concentration (ug/L ): 26.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 16:41  
 Peak Area (A-s): 0.072 Peak Height (A): 0.134  
 Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): 0.068  
 Concentration (ug/L ): 21.6

Mean Conc (ug/L ): 24.2 SD: 3.81 RSD(%): 15.70

-----  
 Se ID: CCV-0793 Seq. No.: 00034 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 16:50  
 Peak Area (A-s): 0.077 Peak Height (A): 0.136  
 Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.074  
 Concentration (ug/L ): 23.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 16:54  
 Peak Area (A-s): 0.079 Peak Height (A): 0.137  
 Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.075  
 Concentration (ug/L ): 23.8

Mean Conc (ug/L ): 23.5 SD: 0.34 RSD(%): 1.45

QC sample is within range 21.1 - 25.8

-----  
 Se ID: CCB Seq. No.: 00035 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 16:57  
 Peak Area (A-s): 0.000 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.018  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 17:00  
 Peak Area (A-s): 0.001 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -0.8

Mean Conc (ug/L ): -1.0 SD: 0.20 RSD(%): 20.85

QC sample is within range

SP 3-4.9  
 Re-run

Se ID: 7XX-JM3820 SS28 Seq. No.: 00036 A/S Pos.: 11 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11  
 Replicate 1 (Peak Stored) Time: 17:04  
 Peak Area (A-s): 0.011 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.655 Background Pk Height (A): 0.205  
 Blank Corrected Pk Area (A-s): 0.007  
 Concentration (ug/L ): 2.2

uL dispensed: 5 from 39, 15 from 0, 25 from 11  
 Replicate 2 (Peak Stored) Time: 17:07  
 Peak Area (A-s): 0.005 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.680 Background Pk Height (A): 0.210  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.4

Mean Conc (ug/L ): 1.3<sup>Q</sup> SD: 1.30 RSD(%): 98.22

Se ID: 7XX-JM3820 SS28 Seq. No.: 00037 A/S Pos.: 11 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11  
 Replicate 1 (Peak Stored) Time: 17:10  
 Peak Area (A-s): 0.030 Peak Height (A): 0.061  
 Background Pk Area (A-s): 0.709 Background Pk Height (A): 0.219  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 8.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11  
 Replicate 2 (Peak Stored) Time: 17:14  
 Peak Area (A-s): 0.030 Peak Height (A): 0.064  
 Background Pk Area (A-s): 0.719 Background Pk Height (A): 0.273  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.4

Mean Conc (ug/L ): 8.3 SD: 0.12 RSD(%): 1.40

Recovery is 69.8% (outside of specified limits)

Se ID: 7XX-JM3821 SS29 Seq. No.: 00038 A/S Pos.: 12 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12  
 Replicate 1 (Peak Stored) Time: 17:17  
 Peak Area (A-s): 0.004 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.712 Background Pk Height (A): 0.278  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 12  
 Replicate 2 (Peak Stored) Time: 17:20  
 Peak Area (A-s): 0.004 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.721 Background Pk Height (A): 0.285  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.2

Mean Conc (ug/L ): 0.1<sup>Q</sup> SD: 0.04 RSD(%): 34.10

Se ID: 7XX-JM3821 SS29 Seq. No.: 00039 A/S Pos.: 12 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 1 (Peak Stored) Time: 17:24  
Peak Area (A-s): 0.028 Peak Height (A): 0.058  
Background Pk Area (A-s): 0.717 Background Pk Height (A): 0.280  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12  
Replicate 2 (Peak Stored) Time: 17:27  
Peak Area (A-s): 0.024 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.869 Background Pk Height (A): 0.342  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 6.6

Mean Conc (ug/L ): 7.2 SD: 0.88 RSD(%): 12.19

Recovery is 70.7% (outside of specified limits)

Se ID: 7XX-JM3822 SS30 Seq. No.: 00040 A/S Pos.: 13 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
Replicate 1 (Peak Stored) Time: 17:31  
Peak Area (A-s): 0.012 Peak Height (A): 0.029  
Background Pk Area (A-s): 0.874 Background Pk Height (A): 0.329  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 2.5

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
Replicate 2 (Peak Stored) Time: 17:34  
Peak Area (A-s): 0.008 Peak Height (A): 0.030  
Background Pk Area (A-s): 0.905 Background Pk Height (A): 0.408  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.3

Mean Conc (ug/L ): 1.9Q SD: 0.84 RSD(%): 43.56

Se ID: 7XX-JM3822 SS30 Seq. No.: 00041 A/S Pos.: 13 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 13  
Replicate 1 (Peak Stored) Time: 17:37  
Peak Area (A-s): 0.036 Peak Height (A): 0.059  
Background Pk Area (A-s): 0.917 Background Pk Height (A): 0.351  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 10.3

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 13  
Replicate 2 (Peak Stored) Time: 17:41  
Peak Area (A-s): 0.031 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.916 Background Pk Height (A): 0.387  
Blank Corrected Pk Area (A-s): 0.027  
Concentration (ug/L ): 8.6

Mean Conc (ug/L ): 9.5 SD: 1.18 RSD(%): 12.47

Recovery is 75.3% (outside of specified limits)

-----  
 Se ID: 7XX-JM3823 SS31 Seq. No.: 00042 A/S Pos.: 14 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 1 (Peak Stored) Time: 17:44  
 Peak Area (A-s): 0.006 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.891 Background Pk Height (A): 0.381  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 2 (Peak Stored) Time: 17:47  
 Peak Area (A-s): 0.003 Peak Height (A): 0.036  
 Background Pk Area (A-s): 0.892 Background Pk Height (A): 0.399  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.2

Mean Conc (ug/L ): 0.2<sup>Q</sup> SD: 0.60 RSD(%): 241.81

-----  
 Se ID: 7XX-JM3823 SS31 Seq. No.: 00043 A/S Pos.: 14 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 17:51  
 Peak Area (A-s): 0.033 Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.920 Background Pk Height (A): 0.386  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 9.3

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 17:54  
 Peak Area (A-s): 0.027 Peak Height (A): 0.054  
 Background Pk Area (A-s): 0.816 Background Pk Height (A): 0.351  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 7.3

Mean Conc (ug/L ): 8.3 SD: 1.45 RSD(%): 17.52

Recovery is 80.5% (outside of specified limits)

-----  
 Se ID: 7XX-JM3823 SS31 Seq. No.: 00044 A/S Pos.: 14 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 17:58  
 Peak Area (A-s): 0.034 Peak Height (A): 0.060  
 Background Pk Area (A-s): 0.830 Background Pk Height (A): 0.355  
 Blank Corrected Pk Area (A-s): 0.031  
 Concentration (ug/L ): 9.7

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 18:01  
 Peak Area (A-s): 0.031 Peak Height (A): 0.053  
 Background Pk Area (A-s): 0.823 Background Pk Height (A): 0.347  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 8.7

SB 3-4-94  
 W

SB 3-4-94  
 Automatic  
 Recur

Mean Conc (ug/L ): 9.2 SD: 0.73 RSD(%): 7.92

Recovery is 89.4%

Se ID: 7XX-JM3824 SS32 Seq. No.: 00045 A/S Pos.: 15 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
Replicate 1 (Peak Stored) Time: 18:05  
Peak Area (A-s): -0.000 Peak Height (A): 0.020  
Background Pk Area (A-s): 0.819 Background Pk Height (A): 0.333  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.2

W

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
Replicate 2 (Peak Stored) Time: 18:08  
Peak Area (A-s): 0.005 Peak Height (A): 0.023  
Background Pk Area (A-s): 0.837 Background Pk Height (A): 0.342  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.4

Mean Conc (ug/L ): -0.4 Q SD: 1.11 RSD(%): 284.97

Se ID: 7XX-JM3824 SS32 Seq. No.: 00046 A/S Pos.: 15 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
Replicate 1 (Peak Stored) Time: 18:11  
Peak Area (A-s): 0.027 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.873 Background Pk Height (A): 0.345  
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 15  
Replicate 2 (Peak Stored) Time: 18:15  
Peak Area (A-s): 0.029 Peak Height (A): 0.057  
Background Pk Area (A-s): 0.862 Background Pk Height (A): 0.352  
Blank Corrected Pk Area (A-s): 0.026  
Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 7.8 SD: 0.35 RSD(%): 4.46

Recovery is ~~82.0%~~<sup>280%</sup> (outside of specified limits)  
50.4-94

Se ID: CCV-0793 Seq. No.: 00047 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored) Time: 18:18  
Peak Area (A-s): 0.075 Peak Height (A): 0.124  
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.034  
Blank Corrected Pk Area (A-s): 0.071  
Concentration (ug/L ): 22.5

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 18:22  
Peak Area (A-s): 0.068 Peak Height (A): 0.133  
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): 0.065



Concentration (ug/L ): 20.4

Mean Conc (ug/L ): 21.4 SD: 1.54 RSD(%): 7.20

QC sample is within range 21.1 - 25.8

-----  
 Se ID: CCB Seq. No.: 00048 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 18:25  
 Peak Area (A-s): 0.000 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 18:28  
 Peak Area (A-s): 0.000 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.014  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.0

Mean Conc (ug/L ): -1.0 SD: 0.03 RSD(%): 3.39

QC sample is within range

-----  
 Se ID: 7XX-JM3825 SS33 Seq. No.: 00049 A/S Pos.: 16 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
 Replicate 1 (Peak Stored) Time: 18:32  
 Peak Area (A-s): 0.013 Peak Height (A): 0.039  
 Background Pk Area (A-s): 0.846 Background Pk Height (A): 0.451  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L ): 2.9

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
 Replicate 2 (Peak Stored) Time: 18:35  
 Peak Area (A-s): 0.006 Peak Height (A): 0.017  
 Background Pk Area (A-s): 0.805 Background Pk Height (A): 0.352  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 0.8

Mean Conc (ug/L ): 1.9 *Q* SD: 1.47 RSD(%): 78.38

-----  
 Se ID: 7XX-JM3825 SS33 Seq. No.: 00050 A/S Pos.: 16 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
 Replicate 1 (Peak Stored) Time: 18:38  
 Peak Area (A-s): 0.031 Peak Height (A): 0.057  
 Background Pk Area (A-s): 0.862 Background Pk Height (A): 0.365  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 8.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
 Replicate 2 (Peak Stored) Time: 18:42  
 Peak Area (A-s): 0.036 Peak Height (A): 0.064

Background Pk Area (A-s): 0.882      Background Pk Height (A): 0.497  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 10.4

Mean Conc (ug/L ):                    9.6                    SD: 1.11                    RSD(%): 11.58

Recovery is 77.5% (outside of specified limits)

-----  
Se    ID: TCLP BLK 3870            Seq. No.: 00051            A/S Pos.: 17            Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 1 (Peak Stored)            Time: 18:45  
Peak Area (A-s): 0.012            Peak Height (A): 0.031  
Background Pk Area (A-s): 0.836      Background Pk Height (A): 0.508  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 2.7

*W*

uL dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 2 (Peak Stored)            Time: 18:48  
Peak Area (A-s): 0.008            Peak Height (A): 0.027  
Background Pk Area (A-s): 0.842      Background Pk Height (A): 0.486  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.4

Mean Conc (ug/L ):                    2.0 *Q*                    SD: 0.92                    RSD(%): 45.63

-----  
Se    ID: TCLP BLK 3870            Seq. No.: 00052            A/S Pos.: 17            Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored)            Time: 18:52  
Peak Area (A-s): 0.026            Peak Height (A): 0.054  
Background Pk Area (A-s): 0.856      Background Pk Height (A): 0.507  
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 17  
Replicate 2 (Peak Stored)            Time: 18:55  
Peak Area (A-s): 0.039            Peak Height (A): 0.062  
Background Pk Area (A-s): 0.867      Background Pk Height (A): 0.602  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 11.3

Mean Conc (ug/L ):                    9.2                    SD: 3.02                    RSD(%) 32.90

*SB 3-5-94*  
*automatic*  
*run*

Recovery is 71.6% (outside of specified limits)

-----  
Se    ID: TCLP BLK 3870            Seq. No.: 00053            A/S Pos.: 17            Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored)            Time: 18:59  
Peak Area (A-s): 0.034            Peak Height (A): 0.067  
Background Pk Area (A-s): 0.911      Background Pk Height (A): 0.543  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 9.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17

Replicate 2 (Peak Stored) Time: 19:02  
Peak Area (A-s): 0.035 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.851 Background Pk Height (A): 0.411  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 10.0

Mean Conc (ug/L ): 9.8 SD: 0.27 RSD(%): 2.74

Recovery is 78.1% (outside of specified limits)

-----  
Se ID: PBL-N7R3859 Seq. No.: 00054 A/S Pos.: 18 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
Replicate 1 (Peak Stored) Time: 19:06  
Peak Area (A-s): 0.003 Peak Height (A): 0.013  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 18  
Replicate 2 (Peak Stored) Time: 19:09  
Peak Area (A-s): 0.004 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.1 Q SD: 0.26 RSD(%): 365.31

-----  
Se ID: PBL-N7R3859 Seq. No.: 00055 A/S Pos.: 18 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18  
Replicate 1 (Peak Stored) Time: 19:13  
Peak Area (A-s): 0.039 Peak Height (A): 0.069  
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 11.3

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18  
Replicate 2 (Peak Stored) Time: 19:16  
Peak Area (A-s): 0.036 Peak Height (A): 0.075  
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 10.2

Mean Conc (ug/L ): 10.7 SD: 0.73 RSD(%): 6.78

Recovery is 106.8%

-----  
Se ID: LC SL-N7R3859 Seq. No.: 00056 A/S Pos.: 19 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 19  
Replicate 1 (Peak Stored) Time: 19:19  
Peak Area (A-s): 0.086 Peak Height (A): 0.139  
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 25.9

*high due to evaporation  
run*

uL dispensed: 5 from 39, 15 from 0, 25 from 19  
 Replicate 2 (Peak Stored) Time: 19:23  
 Peak Area (A-s): 0.085 Peak Height (A): 0.134  
 Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): 0.081  
 Concentration (ug/L ): 25.7

Mean Conc (ug/L ): 25.8 SD: 0.19 RSD(%): 0.72

Se ID: LC SL-N7R3859 Seq. No.: 00057 A/S Pos.: 19 Date: 03/04/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 1 (Peak Stored) Time: 19:26  
 Peak Area (A-s): 0.124 Peak Height (A): 0.214  
 Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.061  
 Blank Corrected Pk Area (A-s): 0.120  
 Concentration (ug/L ): 38.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 2 (Peak Stored) Time: 19:30  
 Peak Area (A-s): 0.125 Peak Height (A): 0.203  
 Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 38.5

Mean Conc (ug/L ): 38.2 SD: 0.38 RSD(%): 1.00

Recovery is 124.3% (outside of specified limits)

Se ID: 7SM-JM3563 MTXS Seq. No.: 00058 A/S Pos.: 20 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 1 (Peak Stored) Time: 19:33  
 Peak Area (A-s): 0.054 Peak Height (A): 0.119  
 Background Pk Area (A-s): 0.812 Background Pk Height (A): 0.499  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 15.9

uL dispensed: 5 from 39, 15 from 0, 25 from 20  
 Replicate 2 (Peak Stored) Time: 19:37  
 Peak Area (A-s): 0.065 Peak Height (A): 0.133  
 Background Pk Area (A-s): 0.951 Background Pk Height (A): 0.499  
 Blank Corrected Pk Area (A-s): 0.061  
 Concentration (ug/L ): 19.3

Mean Conc (ug/L ): 17.6 Q SD: 2.35 RSD(%): 13.33

Se ID: CCV-0793 Seq. No.: 00059 A/S Pos.: 38 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 19:40  
 Peak Area (A-s): 0.066 Peak Height (A): 0.127  
 Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.063  
 Concentration (ug/L ): 19.9

*SRB*  
*Revan*  
*3-5-94*

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 19:44  
 Peak Area (A-s): 0.075 Peak Height (A): 0.146  
 Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.071  
 Concentration (ug/L ): 22.4

Mean Conc (ug/L ): 21.2 SD: 1.81 RSD(%): 8.57

QC sample is within range 21.1 - 25.8

-----  
 Se ID: CCB Seq. No.: 00060 A/S Pos.: 0 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 19:47  
 Peak Area (A-s): 0.005 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 19:50  
 Peak Area (A-s): 0.005 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.018  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.6

Mean Conc (ug/L ): 0.5 SD: 0.04 RSD(%): 6.80

QC sample is within range

-----  
 Se ID: 7SD-JM3563 MTXR Seq. No.: 00061 A/S Pos.: 21 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
 Replicate 1 (Peak Stored) Time: 19:54  
 Peak Area (A-s): 0.060 Peak Height (A): 0.113  
 Background Pk Area (A-s): 0.970 Background Pk Height (A): 0.452  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 17.8

uL dispensed: 5 from 39, 15 from 0, 25 from 21  
 Replicate 2 (Peak Stored) Time: 19:57  
 Peak Area (A-s): 0.055 Peak Height (A): 0.106  
 Background Pk Area (A-s): 0.923 Background Pk Height (A): 0.446  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 16.1

Mean Conc (ug/L ): 17.0 *Q* SD: 1.19 RSD(%): 6.98

-----  
 Se ID: 7XX-JM3563 DS09 Seq. No.: 00062 A/S Pos.: 22 Date: 03/04/94

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 1 (Peak Stored) Time: 20:01  
 Peak Area (A-s): 0.013 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.901 Background Pk Height (A): 0.493  
 Blank Corrected Pk Area (A-s): 0.010

00197  
0027

QC BATCH # N703871

Analyst: RJF Date: 3/1/94 Method #: 7470 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> \_\_\_\_\_  
HCl \_\_\_\_\_  
H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

H<sub>2</sub>SO<sub>4</sub> 30350  
KMNO<sub>4</sub> 613718  
K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 003710

NH<sub>2</sub>OH HCL E38717  
NaCl F49704  
SnCl<sub>2</sub> 926783  
DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL  
HGA \_\_\_\_\_ mL  
Stock Hg 0798  
TCLP \_\_\_\_\_ mL

| ASC #       | Job #  | Sample ID       | Vi/Wi | Vf | F | Filtered | Comments                          |
|-------------|--------|-----------------|-------|----|---|----------|-----------------------------------|
| MTH BLK     |        |                 | 50    | 50 |   |          | 0                                 |
| MTH SPK     |        |                 |       |    |   |          | 2.21                              |
| 1           | 3815   | 15226N CLJCS523 |       |    |   |          | 0                                 |
| 2           | ↓      | ↓               | ↓     | ↓  |   |          | 0                                 |
| 3           | 3816   | 24              |       |    |   |          | 0                                 |
| 4           | 3817   | 25              |       |    |   |          | 0                                 |
| 5           | 3818   | 26              |       |    |   |          | 0                                 |
| 6           | 3819   | 27              |       |    |   |          | 1.13                              |
| 7           | 3820   | 28              |       |    |   |          | 0                                 |
| 8           | 3821   | 29              |       |    |   |          | 0                                 |
| 9           | 3822   | 30              |       |    |   |          | 0.106                             |
| 10          | 3823   | 31              |       |    |   |          | 0                                 |
| 11          | 3824   | 32              |       |    |   |          | 0                                 |
| 12          | 3825   | 33              |       |    |   |          | 0                                 |
| 13          | TCLP   | BLK             | ↓     | ↓  |   |          | 0                                 |
| 14          | /      |                 |       |    |   |          |                                   |
| 15          | /      |                 |       |    |   |          |                                   |
| 16          | /      |                 |       |    |   |          |                                   |
| 17          | /      |                 |       |    |   |          |                                   |
| 18          | /      |                 |       |    |   |          |                                   |
| 19          | /      |                 |       |    |   |          |                                   |
| 20          | /      |                 |       |    |   |          |                                   |
| MTX SPK     | 15226N | CLJCS523        | 50    | 50 |   |          | Remedy Finestone<br>3-0-94 2-2820 |
| JM 3815     | ↓      | ↓               | ↓     | ↓  |   |          |                                   |
| MTX SPK DLP | ↓      | ↓               | ↓     | ↓  |   |          |                                   |

| Hg Standard | mL Stock | Vf | ug/L | ug/kg | Comments                                                                                                                                |
|-------------|----------|----|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| #1          |          |    |      |       | JM 3819 + the TCLP Blank were prepared to confirm <sup>58</sup> assumptions <sup>58</sup> 3-1-94 contamination in 1 <sup>st</sup> runs. |
| #2          |          |    |      |       |                                                                                                                                         |
| #3          |          |    |      |       |                                                                                                                                         |
| #4          |          |    |      |       |                                                                                                                                         |
| #5          |          |    |      |       |                                                                                                                                         |

Water Bath Temp: \_\_\_\_\_

Read and Understood By \_\_\_\_\_ Date \_\_\_\_\_

(Revised: 2/24/93)

|                  |                           |            |                         |             |
|------------------|---------------------------|------------|-------------------------|-------------|
| Protocol: ASCHG  |                           | Rev: 2.008 | Time: 07:58:28          | 01 Mar 1994 |
| Folder: HG022894 | Seq: 93                   | Print: On  |                         |             |
| User:            | Batch:                    | Id: Ck3    | Cup: 2 11 Gas: 0.30 LPM |             |
| State: Idle      | Xmit: Off Autosampler: On |            |                         |             |

| AUTOSAMPLER: Rack entry |             | Rack FRED   |        |                  |
|-------------------------|-------------|-------------|--------|------------------|
| cup Id                  | Extended id | Weight      | Volume | Macro check Help |
| 1                       | N7G3871G    | MET BLK     | 1.0000 | 1.0000           |
| 2                       | N7G3871GS   | MET SPK     | 1.0000 | 1.0000           |
| 3                       | JM3815GS    | MTX SPK     | 1.0000 | 1.0000           |
| 4                       | JM3815GR    | MTX SPK REP | 1.0000 | 1.0000           |
| 5                       | JM3815G     | CLJ-CSS-23  | 1.0000 | 1.0000           |
| 6                       | JM3815GG    | DUPLICATE   | 1.0000 | 1.0000           |
| 7                       | JM3816G     | CLJ-CSS-24  | 1.0000 | 1.0000           |
| 8                       | JM3817G     | CLJ-CSS-25  | 1.0000 | 1.0000           |
| 9                       | JM3818G     | CLJ-CSS-26  | 1.0000 | 1.0000           |
| 10                      | JM3819G     | CLJ-CSS-27  | 1.0000 | 1.0000           |
| 11                      | JM3820G     | CLJ-CSS-28  | 1.0000 | 1.0000           |
| 12                      | JM3821G     | CLJ-CSS-29  | 1.0000 | 1.0000           |
| 13                      | JM3822G     | CLJ-CSS-30  | 1.0000 | 1.0000           |
| 14                      | JM3823G     | CLJ-CSS-31  | 1.0000 | 1.0000           |
| 15                      | JM3824G     | CLJ-CSS-32  | 1.0000 | 1.0000           |

PgDn

|                            |                           |
|----------------------------|---------------------------|
| Cup 1 extended ID: MET BLK | Cell entry, Ins to switch |
|----------------------------|---------------------------|

|                  |         |            |                |                 |
|------------------|---------|------------|----------------|-----------------|
| Protocol: ASCHG  |         | Rev: 2.008 | Time: 07:58:30 | 01 Mar 1994     |
| Folder: HG022894 | Seq: 93 | Print: On  |                |                 |
| User:            | Batch:  | Id: Ck3    | Cup: 2 11 Gas: | 0.30 LPM        |
| State: Idle      |         |            | Xmit: Off      | Autosampler: On |

|                         |             |           |        |             |      |
|-------------------------|-------------|-----------|--------|-------------|------|
| AUTOSAMPLER: Rack entry |             | Rack FRED |        |             | PgUp |
| cup Id                  | Extended id | Weight    | Volume | Macro check | Help |
| 16 JM3825G              | CLJ-CSS-33  | 1.0000    | 1.0000 |             |      |
| 17 TCLP BLK             | 3-1-94      | 1.0000    | 1.0000 |             |      |
| 18 Q7G3866G             | MET BLK     | 1.0000    | 1.0000 |             |      |
| 19 Q7G3866GS            | MET SPK     | 1.0000    | 1.0000 |             |      |
| 20 JM3855GS             | MTX SPK     | 1.0000    | 1.0000 |             |      |
| 21 JM3855GR             | MTX SPK REP | 1.0000    | 1.0000 |             |      |
| 22 JM3855G              | B-8         | 1.0000    | 1.0000 |             |      |
| 23 JM3855GG             | DUPLICATE   | 1.0000    | 1.0000 |             |      |
| 24 JM3828G              | LANDFILL    | 1.0000    | 1.0000 |             |      |
| 25 TCLP BLK             | 3-1-94      | 1.0000    | 1.0000 |             |      |
| 26                      |             | 1.0000    | 1.0000 |             |      |
| 27                      |             | 1.0000    | 1.0000 |             |      |
| 28                      |             | 1.0000    | 1.0000 |             |      |
| 29                      |             | 1.0000    | 1.0000 |             |      |
| 30                      |             | 1.0000    | 1.0000 |             |      |

|                                |                           |
|--------------------------------|---------------------------|
| Cup 16 extended ID: CLJ-CSS-33 | Cell entry, Ins to switch |
|--------------------------------|---------------------------|



08:55:21 01 Mar 1994

Folder: HG030194

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Protocol: ASCHG

| Line                   | Conc. | Units | SD/RSD      | 1      | 2       | 3 | 4 | 5                       |
|------------------------|-------|-------|-------------|--------|---------|---|---|-------------------------|
| -----                  |       |       |             |        |         |   |   |                         |
| *** Standard: 1 Rep: 1 |       |       |             | Seq: 1 |         |   |   | 08:55:21 01 Mar 1994 HG |
| Hg                     | .000  | ppb   | -56         |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | -56    | S. D. = |   |   | 0                       |
| *** Standard: 1 Rep: 2 |       |       |             | Seq: 2 |         |   |   | 08:58:44 01 Mar 1994 HG |
| Hg                     | .000  | ppb   | 139         |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 139    | S. D. = |   |   | 0                       |
| *** Standard: 1 Rep: 3 |       |       |             | Seq: 3 |         |   |   | 09:02:06 01 Mar 1994 HG |
| Hg                     | .000  | ppb   | -33         |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | -33    | S. D. = |   |   | 0                       |
| *** Standard: 2 Rep: 1 |       |       |             | Seq: 4 |         |   |   | 09:05:28 01 Mar 1994 HG |
| Hg                     | .200  | ppb   | 4440        |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 4440   | S. D. = |   |   | 0                       |
| *** Standard: 2 Rep: 2 |       |       |             | Seq: 5 |         |   |   | 09:08:51 01 Mar 1994 HG |
| Hg                     | .200  | ppb   | 4583        |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 4583   | S. D. = |   |   | 0                       |
| *** Standard: 2 Rep: 3 |       |       |             | Seq: 6 |         |   |   | 09:12:13 01 Mar 1994 HG |
| Hg                     | .200  | ppb   | 4356        |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 4356   | S. D. = |   |   | 0                       |
| *** Standard: 3 Rep: 1 |       |       |             | Seq: 7 |         |   |   | 09:15:35 01 Mar 1994 HG |
| Hg                     | .500  | ppb   | 10315       |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 10315  | S. D. = |   |   | 0                       |
| *** Standard: 3 Rep: 2 |       |       |             | Seq: 8 |         |   |   | 09:18:57 01 Mar 1994 HG |
| Hg                     | .500  | ppb   | 10576       |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 10576  | S. D. = |   |   | 0                       |
| *** Standard: 3 Rep: 3 |       |       |             | Seq: 9 |         |   |   | 09:22:20 01 Mar 1994 HG |
| Hg                     | .500  | ppb   | 10556       |        |         |   |   |                         |
|                        |       |       | Ave. Int. = | 10556  | S. D. = |   |   | 0                       |

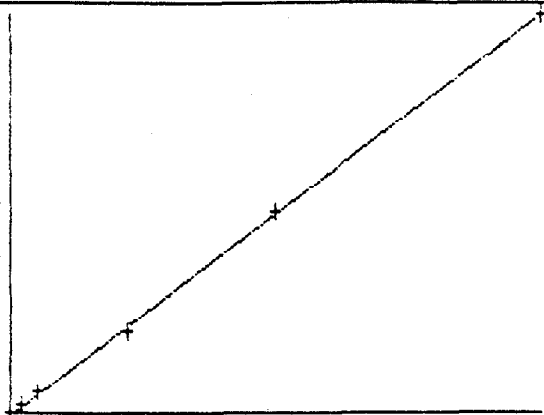
09:25:42 01 Mar 1994

Folder: HG030194  
Protocol: ASCHG

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| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 4 Rep: 1 |       |       |             | Seq: 10 |         |   | 09:25:42 01 Mar 1994 | HG |
| Hg                     | 2.00  | ppb   | 44066       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 44066   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 2 |       |       |             | Seq: 11 |         |   | 09:29:04 01 Mar 1994 | HG |
| Hg                     | 2.00  | ppb   | 44184       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 44184   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 3 |       |       |             | Seq: 12 |         |   | 09:32:26 01 Mar 1994 | HG |
| Hg                     | 2.00  | ppb   | 43582       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 43582   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 1 |       |       |             | Seq: 13 |         |   | 09:35:48 01 Mar 1994 | HG |
| Hg                     | 5.00  | ppb   | 99520       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 99520   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 2 |       |       |             | Seq: 14 |         |   | 09:39:11 01 Mar 1994 | HG |
| Hg                     | 5.00  | ppb   | 98059       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 98059   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 3 |       |       |             | Seq: 15 |         |   | 09:42:34 01 Mar 1994 | HG |
| Hg                     | 5.00  | ppb   | 98307       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 98307   | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 1 |       |       |             | Seq: 16 |         |   | 09:45:59 01 Mar 1994 | HG |
| Hg                     | 10.0  | ppb   | 197013      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 197013  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 2 |       |       |             | Seq: 17 |         |   | 09:49:23 01 Mar 1994 | HG |
| Hg                     | 10.0  | ppb   | 197362      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 197362  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 3 |       |       |             | Seq: 18 |         |   | 09:52:47 01 Mar 1994 | HG |
| Hg                     | 10.0  | ppb   | 196554      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 196554  | S. D. = |   | 0                    |    |

|                                      |               |                     |                |                 |  |
|--------------------------------------|---------------|---------------------|----------------|-----------------|--|
| Protocol: ASCHG                      |               | Rev: 2.008          | Time: 09:52:57 | 01 Mar 1994     |  |
| Folder: HG830194                     | Seq: 19       | Print: On           |                |                 |  |
| User:                                | Batch:        | Id: Std6Rep3        | Cup: 2 11      | Gas: 0.30 LPM   |  |
| State: Idle                          | Macro ASCLP   | 109 : F3 Print      | Xmit: Off      | Autosampler: On |  |
| <b>CALIBRATION: Line Calibration</b> |               |                     |                |                 |  |
| Line: Hg                             | Accepted      |                     |                |                 |  |
| Conc.                                | Calc.         | Dev.                | LiNear         |                 |  |
| S1 .000                              | -.061         | -.061               | Quadratic      |                 |  |
| S2 .200                              | .165          | -.035               | WtdLinear      |                 |  |
| S3 .500                              | .472          | -.028               |                | C               |  |
| S4 2.00                              | 2.18          | .178                | Accept         | o               |  |
| S5 5.00                              | 4.97          | -.034               |                | n               |  |
| S6 10.0                              | 9.98          | -.020               | StdAdd         | c               |  |
| A .0000000                           | r .999747     |                     |                |                 |  |
| B 5.89798e-5                         | C -6.28767e-2 |                     |                |                 |  |
| Mean                                 | %RSD          | Relative Absorbance |                |                 |  |
| S1 16                                | 639.4         | -56                 | 139            | -33             |  |
| S2 4459                              | 2.57          | 4448                | 4583           | 4356            |  |
| S3 18482                             | 1.39          | 18315               | 18576          | 18556           |  |
| S4 43944                             | 0.73          | 44066               | 44184          | 43582           |  |
| S5 98628                             | 0.79          | 99520               | 98659          | 98307           |  |
| S6 196976                            | 0.21          | 197013              | 197362         | 196554          |  |
| New cal coefficients stored          |               |                     |                |                 |  |



09:56:10 01 Mar 1994

Folder: HG030194  
Protocol: ASCHG

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| Line  | Conc.                | Units | SD/RSD     | 1       | 2      | 3        | 4           | 5  |
|-------|----------------------|-------|------------|---------|--------|----------|-------------|----|
| ----- |                      |       |            |         |        |          |             |    |
| ***   | Check Standard: 1    | Ck1   |            | Seq: 19 |        | 09:56:10 | 01 Mar 1994 | HG |
| Line  | Flag                 | Found | Range(+/-) | Units   | SD/RSD |          |             |    |
| Hg    |                      | -.118 | .200       | ppb     | .000   |          |             |    |
| ***   | Check Standard: 2    | Ck2   |            | Seq: 20 |        | 09:59:30 | 01 Mar 1994 | HG |
| Line  | Flag                 | %Rcv. | Found      | True    | Units  | SD/RSD   |             |    |
| Hg    |                      | 110.  | 5.49       | 5.00    | ppb    | .000     |             |    |
| ***   | Check Standard: 3    | Ck3   |            | Seq: 21 |        | 10:02:50 | 01 Mar 1994 | HG |
| Line  | Flag                 | %Rcv. | Found      | True    | Units  | SD/RSD   |             |    |
| Hg    |                      | 61.3  | .123       | .200    | ppb    | .000     |             |    |
| ***   | Sample ID: N7G3871G  |       |            | Seq: 22 |        | 10:06:09 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.066                | ppb   | .000       | -.066   |        |          |             |    |
| ***   | Sample ID: N7G3871GS |       |            | Seq: 23 |        | 10:09:26 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | 2.21                 | ppb   | .000       | 2.21    |        |          |             |    |
| ***   | Sample ID: JM3815GS  |       |            | Seq: 24 |        | 10:12:44 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | 1.94                 | ppb   | .000       | 1.94    |        |          |             |    |
| ***   | Sample ID: JM3815GR  |       |            | Seq: 25 |        | 10:16:02 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | 2.01                 | ppb   | .000       | 2.01    |        |          |             |    |
| ***   | Sample ID: JM3815G   |       |            | Seq: 26 |        | 10:19:20 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.059                | ppb   | .000       | -.059   |        |          |             |    |
| ***   | Sample ID: JM3815GG  |       |            | Seq: 27 |        | 10:22:38 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.056                | ppb   | .000       | -.056   |        |          |             |    |
| ***   | Sample ID: JM3816G   |       |            | Seq: 28 |        | 10:25:56 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.054                | ppb   | .000       | -.054   |        |          |             |    |
| ***   | Sample ID: JM3817G   |       |            | Seq: 29 |        | 10:29:14 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.057                | ppb   | .000       | -.057   |        |          |             |    |
| ***   | Sample ID: JM3818G   |       |            | Seq: 30 |        | 10:32:32 | 01 Mar 1994 | HG |
|       |                      |       |            |         |        |          |             |    |
|       |                      |       |            |         |        |          |             |    |
| Hg    | -.052                | ppb   | .000       | -.052   |        |          |             |    |



11:20:14 01 Mar 1994

Folder: HG030194

Page 21

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                              |       | 108.  | 5.41       | 5.00  | ppb    | .000   |   |   |
| Seq: 43 11:20:14 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3819G          |       |       |            |       |        |        |   |   |
| CLJ-CSS-27                      |       |       |            |       |        |        |   |   |
| Hg                              | -.100 | ppb   | .000       | -.100 |        |        |   |   |
| Seq: 44 11:23:34 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: TCLP BLK         |       |       |            |       |        |        |   |   |
| 3-1-94                          |       |       |            |       |        |        |   |   |
| Hg                              | -.061 | ppb   | .000       | -.061 |        |        |   |   |
| Seq: 45 11:26:51 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Check Standard: 1 Ck1       |       |       |            |       |        |        |   |   |
| Line                            | Flag  | Found | Range(+/-) | Units | SD/RSD |        |   |   |
| Hg                              |       | -.060 | .200       | ppb   | .000   |        |   |   |
| Seq: 46 11:30:09 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Check Standard: 2 Ck2       |       |       |            |       |        |        |   |   |
| Line                            | Flag  | %Rcv. | Found      | True  | Units  | SD/RSD |   |   |
| Hg                              |       | 107.  | 5.37       | 5.00  | ppb    | .000   |   |   |
| Seq: 47 11:33:30 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: Q7G3866G         |       |       |            |       |        |        |   |   |
| MET BLK                         |       |       |            |       |        |        |   |   |
| Hg                              | -.067 | ppb   | .000       | -.067 |        |        |   |   |
| Seq: 48 11:42:36 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: Q7G3866GS        |       |       |            |       |        |        |   |   |
| MET SPK                         |       |       |            |       |        |        |   |   |
| Hg                              | 2.12  | ppb   | .000       | 2.12  |        |        |   |   |
| Seq: 49 11:45:52 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3855GS         |       |       |            |       |        |        |   |   |
| MTX SPK                         |       |       |            |       |        |        |   |   |
| Hg                              | 1.91  | ppb   | .000       | 1.91  |        |        |   |   |
| Seq: 50 11:49:09 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3855GR         |       |       |            |       |        |        |   |   |
| MTX SPK REP                     |       |       |            |       |        |        |   |   |
| Hg                              | 1.95  | ppb   | .000       | 1.95  |        |        |   |   |
| Seq: 51 11:52:26 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3855G          |       |       |            |       |        |        |   |   |
| B-8                             |       |       |            |       |        |        |   |   |
| Hg                              | -.041 | ppb   | .000       | -.041 |        |        |   |   |
| Seq: 52 11:55:42 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3855GG         |       |       |            |       |        |        |   |   |
| DUPLICATE                       |       |       |            |       |        |        |   |   |
| Hg                              | -.046 | ppb   | .000       | -.046 |        |        |   |   |
| Seq: 53 11:58:58 01 Mar 1994 HG |       |       |            |       |        |        |   |   |
| *** Sample ID: JM3828G          |       |       |            |       |        |        |   |   |
| LANDFILL                        |       |       |            |       |        |        |   |   |
| Hg                              | .010  | ppb   | .000       | .010  |        |        |   |   |
| Seq: 54 12:02:12 01 Mar 1994 HG |       |       |            |       |        |        |   |   |



# COVER PAGE CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: WA Case #: NA

SAS #: NA SDG #: CLJ-CSS-23

DW No.: \_\_\_\_\_

**EPA Sample No.**

**Lab Sample ID.**

CLJ-CSS-23  
CLJ-CSS-24  
CLJ-CSS-25  
CLJ-CSS-26  
CLJ-CSS-27  
CLJ-CSS-28  
CLJ-CSS-29  
CLJ-CSS-30  
CLJ-CSS-31  
CLJ-CSS-32  
CLJ-CSS-33  
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IM3815  
IM3816  
IM3817  
IM3818  
IM3819  
IM3820  
IM3821  
IM3822  
IM3823  
IM3824  
IM3825  
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COMMENTS: See SBT 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: Joe Hnatow

Date: 3/23/94

Title: OPS Manager



























pH

Sample ID                      Project #                      Sample Point CC Analyst CP Time 8:11 Date 3/7/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.01

Slope: 95.4 mV Temperature: 21.9 °C Ph Meter: Beckman

Comments: PH buffer #4 - 0.05M PH buffer #7 - CV 1050

Sample ID Am 3815 Project # 15226N Sample Point CLJ-CSS-23 Analyst CP Time 8:15 Date 3/7/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.16

Slope: 95.4 mV Temperature: 22.2 °C Ph Meter: Beckman

Comments:                     

Sample ID Am 3814 Project # 15226N Sample Point CLJ-CSS-24 Analyst CP Time 8:17 Date 3/7/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.17

Slope: 95.4 mV Temperature: 22.1 °C Ph Meter: Beckman

Comments:                     

Sample ID Am 3817 Project # 15226N Sample Point CLJ-CSS-25 Analyst CP Time 8:19 Date 3/7/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.14

Slope: 95.4 mV Temperature: 21.2 °C Ph Meter: Beckman

Comments:                     

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 3-9-94  
(C:\WP50\FORMS\pH.201)

pH

M3818    15226N    CH1.CSS.24    CP    8:25    3/7/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 5.83

Slope: 95.4 mV    Temperature: 22.4 °C    Ph Meter: Beckman

Comments: \_\_\_\_\_

M3819    15226N    CH1.CSS.27    CP    8:27    3/7/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 5.14

Slope: 95.4 mV    Temperature: 21.1 °C    Ph Meter: Beckman

Comments: \_\_\_\_\_

M3820    15226N    CH1.CSS.28    CP    8:30    3/7/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.34

Slope: 95.4 mV    Temperature: 20.1 °C    Ph Meter: Beckman

Comments: \_\_\_\_\_

M3821    15226N    CH1.CSS.29    CP    8:31    3/7/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

pH 4.0     pH 7.0     pH 10.0     Sample pH 4.64

Slope: 95.4 mV    Temperature: \_\_\_\_\_ °C    Ph Meter: Beckman

Comments: \_\_\_\_\_

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong    Date: 3-9-94  
(C:\WP50\FORMS\pH.201)

pH

JM3822 15226N CAJ-CSS-31 CP 8:34 3/7/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.44

Slope: 95.4 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3823 15226N CAJ-CSS-31 CP 8:37 3/7/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.33

Slope: 95.4 mV Temperature: 21.4 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3824 15226N CAJ-CSS-32 CP 8:29 3/7/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.93

Slope: 95.4 mV Temperature: 20.9 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3825 15226N CAJ-CSS-33 CP 8:41 3/7/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.03

Slope: 95.4 mV Temperature: 21.1 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 3-9-94  
(C:\WP50\FORMS\PH.201)

pH

MM4148 15713 APR21#1 CP 8:44 3/7/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.74

Slope: 95.4 mV Temperature: 22.5 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

MM4250 300136 327K CP 8:52 3/7/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.45

Slope: 95.4 mV Temperature: 12.2 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

CC CC CP 8:53 3/7/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.03

Slope: 95.4 mV Temperature: 21.1 °C Ph Meter: Beckman

Comments: pH buffer 7.00050, pH buffer #10 0V 6007

CC CC CP 8:56 3/7/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  7.02 pH 10.0  Sample pH 7.02

Slope: 94.3 mV Temperature: 22.3 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 3-9-94  
 (C:\WP50\FORMS\pH.201)





SECTION 1<sup>Vol</sup>a

CONFIRMATION SOIL SAMPLES

(CSS)

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

| <u>SAMPLE<br/>NUMBER</u> | <u>SAMPLE<br/>DATE</u> | <u>SAMPLE LOCATION</u>                   | <u>COC<br/>NUMBER</u> | <u>LAB<br/>ID</u> | <u>LAB<br/>SAMPLE ID</u> | <u>DQO<br/>LEVEL</u> | <u>PACKAGE<br/>ID</u> | <u>AIRBILL<br/>NUMBER</u> |
|--------------------------|------------------------|------------------------------------------|-----------------------|-------------------|--------------------------|----------------------|-----------------------|---------------------------|
| CLJ-CSS-001              | 2/4/94                 | S. EXCAV.; E. TRENCH; N. WALL            | 137081                | ASC               | JM3172                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-002              | 2/4/94                 | S. EXCAV.; E. TRENCH; E. WALL (1ST FLAG) | 137081                | ASC               | JM3173                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-003              | 2/4/94                 | S. EXCAV.; E. TRENCH; FLOOR (1ST FLAG)   | 137081                | ASC               | JM3174                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-004              | 2/4/94                 | S. EXCAV.; E. TRENCH; W. WALL (1ST FLAG) | 137081                | ASC               | JM3175                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-005              | 2/4/94                 | S. EXCAV.; E. TRENCH; E. WALL (2ND FLAG) | 137081                | ASC               | JM3176                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-006              | 2/4/94                 | S. EXCAV.; E. TRENCH; FLOOR (2ND FLAG)   | 137081                | ASC               | JM3177                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-007              | 2/4/94                 | S. EXCAV.; E. TRENCH; W. WALL (2ND FLAG) | 137081                | ASC               | JM3178                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-008              | 2/4/94                 | S. EXCAV.; E. TRENCH; E. WALL (3RD FLAG) | 137081                | ASC               | JM3179                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-009              | 2/4/94                 | S. EXCAV.; E. TRENCH; FLOOR (3RD FLAG)   | 137081                | ASC               | JM3180                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-010              | 2/4/94                 | S. EXCAV.; E. TRENCH; W. WALL (3RD FLAG) | 137081                | ASC               | JM3181                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-011              | 2/4/94                 | S. EXCAV.; E. TRENCH; E. WALL (4TH FLAG) | 137080                | ASC               | JM3182                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-012              | 2/4/94                 | S. EXCAV.; E. TRENCH; FLOOR (4TH FLAG)   | 137080                | ASC               | JM3183                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-013              | 2/4/94                 | S. EXCAV.; E. TRENCH; W. WALL (4TH FLAG) | 137080                | ASC               | JM3184                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-014              | 2/4/94                 | S. EXCAV.; E. TRENCH; S. WALL            | 137080                | ASC               | JM3185                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-015              | 2/4/94                 | S. EXCAV.; W. TRENCH; N. WALL            | 137080                | ASC               | JM3186                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-016              | 2/4/94                 | S. EXCAV.; W. TRENCH; E. WALL (1ST FLAG) | 137080                | ASC               | JM3187                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-017              | 2/4/94                 | S. EXCAV.; W. TRENCH; FLOOR (1ST FLAG)   | 137080                | ASC               | JM3188                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-018              | 2/4/94                 | S. EXCAV.; W. TRENCH; W. WALL (1ST FLAG) | 137080                | ASC               | JM3189                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-019              | 2/4/94                 | S. EXCAV.; W. TRENCH; E. WALL (2ND FLAG) | 137080                | ASC               | JM3190                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-020              | 2/4/94                 | S. EXCAV.; W. TRENCH; FLOOR (2ND FLAG)   | 137080                | ASC               | JM3191                   | IV                   | 615122                | 7526016746                |
| CLJ-CSS-021              | 2/4/94                 | S. EXCAV.; W. TRENCH; W. WALL (2ND FLAG) | 137079                | ASC               | JM3192                   | IV                   | 615122                | 7526016750                |
| CLJ-CSS-022              | 2/4/94                 | S. EXCAV.; W. TRENCH; S. WALL            | 137079                | ASC               | JM3193                   | IV                   | 615122                | 7526016750                |









# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

|                         |                   |                   |                   |                   |                   |                   |
|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Sample Point ID:</b> | <b>CLJ-CSS-17</b> | <b>CLJ-CSS-18</b> | <b>CLJ-CSS-19</b> | <b>CLJ-CSS-20</b> | <b>CLJ-CSS-21</b> | <b>CLJ-CSS-22</b> |
| ASC Sample Number:      | JM3188            | JM3189            | JM3190            | JM3191            | JM3192            | JM3193            |
| Sample Date:            | 940204            | 940204            | 940204            | 940204            | 940204            | 940204            |
| Facility Code:          | 015226N           | 015226N           | 015226N           | 015226N           | 015226N           | 015226N           |

|            |       |
|------------|-------|
| Parameters | Units |
|------------|-------|

**Conventional Data (CV10)**

|                            |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Flash Point, Seta Flash 60 | Deg C | >60   | >60   | >60   | >60   | >60   | >60   |
| Reactive Cyanide           | mg/kg | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| Reactive Sulfide           | mg/kg | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| pH (Test Strip)            | std   | 5.34  | 6.20  | 5.31  | 5.82  | 6.40  | 5.93  |

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

|                                 |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Light hydrocarbons (C2 - C10)   | mg/kg | <4.01 | <4.38 | <4.22 | <3.64 | <4.55 | <4.38 |
| Medium hydrocarbons (C10 - C21) | mg/kg | <3.32 | <3.33 | <3.31 | <3.32 | <3.32 | <3.32 |
| Heavy hydrocarbons (C21 - C40)  | mg/kg | <16.7 | <16.8 | <16.7 | <16.7 | <16.7 | <16.7 |

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

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

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

|                    |      |       |       |       |       |       |       |
|--------------------|------|-------|-------|-------|-------|-------|-------|
| Endrin             | mg/L | <.002 | <.002 | <.002 | <.002 | <.002 | <.002 |
| Heptachlor         | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| Heptachlor epoxide | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| Methoxychlor       | mg/L | <.01  | <.01  | <.01  | <.01  | <.01  | <.01  |
| Toxaphene          | mg/L | <.100 | <.100 | <.100 | <.100 | <.100 | <.100 |
| Gamma-BHC          | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| alpha-Chlordane    | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| gamma-Chlordane    | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |

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

|          |      |       |       |       |       |       |       |
|----------|------|-------|-------|-------|-------|-------|-------|
| Arsenic  | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| Barium   | mg/L | .434  | .470  | .493  | .381  | .635  | .539  |
| Cadmium  | mg/L | <.001 | .002  | <.001 | <.001 | <.001 | <.001 |
| Chromium | mg/L | <.004 | <.004 | <.004 | <.004 | <.004 | <.004 |
| Lead     | mg/L | .214  | .016  | <.002 | <.002 | .006  | <.002 |
| Mercury  | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| Selenium | mg/L | <.001 | <.001 | <.001 | <.001 | <.001 | .001  |
| Silver   | mg/L | <.008 | <.008 | <.008 | <.008 | <.008 | <.008 |





## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NA Case #: NASAS #: NA SDG #: CLJ-CSS-01

DW No.: \_\_\_\_\_

## EPA Sample No.

## Lab Sample ID.

CLJ-CSS-01JM 3172CLJ-CSS-02JM 3173CLJ-CSS-03JM 3174CLJ-CSS-04JM 3175CLJ-CSS-05JM 3176CLJ-CSS-06JM 3177CLJ-CSS-07JM 3178CLJ-CSS-08JM 3179CLJ-CSS-09JM 3180CLJ-CSS-10JM 3181

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 case 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: Joe HnatowDate: 2/28/94Title: Operations Manager

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA SDG #: CLJ-CSS-0

DW No.: \_\_\_\_\_

**EPA Sample No.**

CLJ-CSS-11

CLJ-CSS-12

CLJ-CSS-13

CLJ-CSS-14

CLJ-CSS-15

CLJ-CSS-16

CLJ-CSS-17

CLJ-CSS-18

CLJ-CSS-19

CLJ-CSS-20

**Lab Sample ID.**

Jm 3182

Jm 3183

Jm 3184

Jm 3185

Jm 3186

Jm 3187

Jm 3188

Jm 3189

Jm 3190

Jm 3191

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 Case Narrative

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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 Anatow

Name: Joe Anatow

Date: 2/28/94

Title: Operations Manager

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA SDG #: CLJ-CSS-0

DW No.: \_\_\_\_\_

**EPA Sample No.**

**Lab Sample ID.**

CLJ-CSS-21  
CLJ-CSS-22  
CLJ-DS-01  
CLJ-DS-01A  
CLJ-DS-01B

JM3192  
JM3193  
JM3169  
JM3170  
JM3171

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\_\_\_\_\_

Were ICP interelement corrections applied?

Yes/NO Yes

Were ICP background corrections applied?

Yes/NO Yes

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

Yes/NO No

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

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

Signature: [Handwritten Signature]

Name: Joe Hnatow

Date: 2/28/94

Title: Operations Manager

**SDG NARRATIVE****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.

A number of samples exhibited matrix interferences during the selenium analysis.

**CONVENTIONALS**

On Forms that required control limits, these spaces were left blank since the method requirements for the Reactive Cyanide and Reactive Sulfide indicate recoveries greater than 50 % as the only criteria.

The CLP SOW does not have method qualifiers for the four conventional parameters requested. Qualifiers were designated and are "RC" for Reactive Cyanide, "RS" for Reactive Sulfide, "FP" for Flash Point and "pH" for pH by Electrode.

No analytes of interest were found in the blank analyses.

Both the Reactive Cyanide and Reactive Sulfide Spike Sample and Laboratory Control Sample recoveries were within the QC limits.

All of the duplicate analyses were less than 10 % RPD.

## INORGANIC ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLS-CSS-01Lab Code: NA Case #: NA SAS #: NA SDG #: CLS-CSS-01Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3172% Solids: NA Date Received: 02/07/94Concentration Units (ug/L or mg/kg dry weight): ug/L

| 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     | 735           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.4           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 8.0           |   |   | F  |
| 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     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-CSS-02  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3173  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 533           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   | Ø  |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.20          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLS-CSS-01Lab Code: NA Case #: NA SAS #: NA SDG #: CLS-CSS-01Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3174% Solids: NA Date Received: 02/07/94Concentration Units (ug/L or mg/kg dry weight): ug/L

| 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     | 691           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.3           | B |   | F  |
| 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 |   | F  |
| 7440-22-4 | Silver     | 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)

0008

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA SAMPLE #:** CLJ-CSS-04  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-01  
**Matrix:** (soil/water) Water    **Level:** (low/med) Low    **Lab Sample ID:** JM3175  
**% Solids:** NA    **Date Received:** 02/07/94

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

| 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     | 495           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.30          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U |   | F  |
| 7440-22-4 | Silver     | 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)

0009

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA SAMPLE #:** CLJ-CSS-05  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-01  
**Matrix:** (soil/water) Water    **Level:** (low/med) Low    **Lab Sample ID:** JM3176  
**% Solids:** NA    **Date Received:** 02/07/94

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

| 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     | 664           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 4.2           |   |   | F  |
| 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     | 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)

0010

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA SAMPLE #:** CLJ-CSS-06  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-01  
**Matrix:** (soil/water) Water    **Level:** (low/med) Low    **Lab Sample ID:** JM3177  
**% Solids:** NA    **Date Received:** 02/07/94

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

| 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     | 485           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 8.1           |   |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.32          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.7           | B | W | F  |
| 7440-22-4 | Silver     | 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)

0011

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLS-CSS-07

Lab Code: NA Case #: NA SAS #: NA SDG #: CLS-CSS-01

Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3178

% Solids: NA Date Received: 02/07/94

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

| 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     | 927           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.51          | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 8.3           |   |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.40          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

0012

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA SAMPLE #:** CLS-CSS-08  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLS-CSS-01  
**Matrix:** (soil/water) Water    **Level:** (low/med) Low    **Lab Sample ID:** JM3179  
**% Solids:** NA    **Date Received:** 02/07/94

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

| 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     | 571           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.14          | U |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.9           | B | W | F  |
| 7440-22-4 | Silver     | 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) 0013

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-0  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-0  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3180  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 444           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 184           |   |   | F  |
| 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     | 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)

0014

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-10

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

Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3181

% Solids: NA Date Received: 02/07/94

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

| 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     | 724           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.9           | B |   | P  |
| 7440-47-3 | Chromium   | 7.3           | B |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 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     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-CSS-11  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM318Z  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 604           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.6           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 33.2          |   |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.57          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

0016

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-12  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: Jm3183  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 375           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.4           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.3           | B |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.14          | U |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 2.2           | B | W | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLS-CSS-13  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLS-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM 3184  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 321           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 6.5           |   |   |    |
| 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 | U | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-14  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3185  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 415           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.6           | B | W | F  |
| 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     | 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)

0019

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-15  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3186  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 461           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 5.3           |   |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.49          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

0020

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-15

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

Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3186

% Solids: NA Date Received: 02/07/94

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

| 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     | 461           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 5.3           |   | W | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.49          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-16  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3187  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 411           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.17          | B |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-CSS-17  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-0  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: 5m3188  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 434           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.14          |   |   | 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     | 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)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-18  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM 3189  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 470           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 2.4           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 15.6          |   |   | F  |
| 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     | 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)

0024

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLJ-CSS-19  
 Lab Code: WA    Case #: NA    SAS #: NA    SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water    Level: (low/med) Low    Lab Sample ID: Jm3190  
 % Solids: NA    Date Received: 02/07/94

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

| 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     | 493           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | u |   | P  |
| 7440-47-3 | Chromium   | 4.2           | u |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | u | W | F  |
| 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     | 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)

0025

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLJ-CSS-2c  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: CLJ-CSS-0  
 Matrix: (soil/water) Water    Level: (low/med) Low    Lab Sample ID: Jm3191  
 % Solids: NA    Date Received: 02/07/94

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

| 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     | 381           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | U |   | F  |
| 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     | 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)

0026

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLS-CSS-21  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: CLS-CSS-01  
 Matrix: (soil/water) Water    Level: (low/med) Low    Lab Sample ID: JM3192  
 % Solids: NA    Date Received: 02/07/94

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

| 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     | 635           |   |   | P |
| 7440-41-7 | Beryllium  |               |   |   |   |
| 7440-42-8 | Boron      |               |   |   |   |
| 7440-43-9 | Cadmium    | 1.1           | U |   | P |
| 7440-47-3 | Chromium   | 4.2           | U |   | P |
| 7440-48-4 | Cobalt     |               |   |   |   |
| 7439-50-8 | Copper     |               |   |   |   |
| 7439-89-6 | Iron       |               |   |   |   |
| 7439-92-1 | Lead       | 5.5           |   |   | F |
| 7439-96-5 | Manganese  |               |   |   |   |
| 7439-97-6 | Mercury    | 0.14          | U |   |   |
| 7439-98-7 | Molybdenum |               |   |   |   |
| 7440-02-0 | Nickel     |               |   |   |   |
| 7782-49-2 | Selenium   | 1.3           | U | W | F |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-CSS-22Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3193% Solids: NA Date Received: 02/07/94Concentration Units (ug/L or mg/kg dry weight): ug/L

| 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     | 539           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.1           | u |   | P  |
| 7440-47-3 | Chromium   | 4.2           | u |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 2.0           | u |   | F  |
| 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 | u | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DS-01  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3169  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 941           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.9           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 499           |   |   | P  |
| 7439-96-5 | Manganese  |               |   |   |    |
| 7439-97-6 | Mercury    | 0.51          |   |   | CV |
| 7439-98-7 | Molybdenum |               |   |   |    |
| 7440-02-0 | Nickel     |               |   |   |    |
| 7782-49-2 | Selenium   | 1.3           | U | W | F  |
| 7440-22-4 | Silver     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DS-01A  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: JM3170  
 % Solids: NA Date Received: 02/07/94

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

| 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     | 698           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 1.8           | B |   | P  |
| 7440-47-3 | Chromium   | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 133           |   |   | 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     | 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)

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DS-01BLab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01Matrix: (soil/water) Water Level: (low/med) Low Lab Sample ID: Jm3171% Solids: NA Date Received: 02/07/94

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

| 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     | 435           |   |   | P  |
| 7440-41-7 | Beryllium  |               |   |   |    |
| 7440-42-8 | Boron      |               |   |   |    |
| 7440-43-9 | Cadmium    | 2.1           | B |   | P  |
| 7440-47-3 | Chromium   | 42            | U |   | P  |
| 7440-48-4 | Cobalt     |               |   |   |    |
| 7439-50-8 | Copper     |               |   |   |    |
| 7439-89-6 | Iron       |               |   |   |    |
| 7439-92-1 | Lead       | 3770          |   |   | 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 |   | F  |
| 7440-22-4 | Silver     | 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: \_\_\_\_\_

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLT-CSS-CInitial Calibration Source: NISTContinuing 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     | 9240                | 9370  | 101   | 4520                   | 4750  | 105   | 4790  | 106   | P |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    | 2530                | 2560  | 101   | 1250                   | 1280  | 103   | 1300  | 104   | P |
| Chromium   | 973                 | 980   | 101   | 483                    | 469   | 97.2  | 487   | 101   | P |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       | 4680                | 4730  | 101   | 2350                   | 2420  | 103   | 2430  | 104   | P |
| Manganese  |                     |       |       |                        |       |       |       |       |   |
| Mercury    |                     |       |       |                        |       |       |       |       |   |
| Molybdenum |                     |       |       |                        |       |       |       |       |   |
| Nickel     |                     |       |       |                        |       |       |       |       |   |
| Selenium   |                     |       |       |                        |       |       |       |       |   |
| Silver     | 1260                | 1270  | 100   | 603                    | 607   | 101   | 616   | 102   | P |
| Strontium  |                     |       |       |                        |       |       |       |       |   |
| Thallium   |                     |       |       |                        |       |       |       |       |   |
| Vanadium   |                     |       |       |                        |       |       |       |       |   |
| Zinc       |                     |       |       |                        |       |       |       |       |   |

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-ESS-CInitial Calibration Source: NISTContinuing 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     |                     |       |       | 4520                   | 4770  | 106   | 4760  | 105   | P |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       | 1250                   | 1270  | 102   | 1270  | 102   | P |
| Chromium   |                     |       |       | 483                    | 477   | 98.8  | 475   | 98.4  | P |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       | 2350                   | 2400  | 102   | 239   | 102   | P |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| Manganese  |                     |       |       |                        |       |       |       |       |   |
| Mercury    |                     |       |       |                        |       |       |       |       |   |
| Molybdenum |                     |       |       |                        |       |       |       |       |   |
| Nickel     |                     |       |       |                        |       |       |       |       |   |
| Selenium   |                     |       |       |                        |       |       |       |       |   |
| Silver     |                     |       |       | 603                    | 609   | 101   | 606   | 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)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-0

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       | 4520                   | 4650  | 103   | 4730  | 105   | P |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       | 1250                   | 1240  | 99.5  | 1240  | 99.3  | P |
| Chromium   |                     |       |       | 483                    | 459   | 95.0  | 470   | 97.3  | P |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       | 2350                   | 2320  | 98.7  | 2350  | 100   | P |
| Manganese  |                     |       |       |                        |       |       |       |       |   |
| Mercury    |                     |       |       |                        |       |       |       |       |   |
| Molybdenum |                     |       |       |                        |       |       |       |       |   |
| Nickel     |                     |       |       |                        |       |       |       |       |   |
| Selenium   |                     |       |       |                        |       |       |       |       |   |
| Silver     |                     |       |       | 603                    | 602   | 99.8  | 604   | 100   | P |
| Strontium  |                     |       |       |                        |       |       |       |       |   |
| Thallium   |                     |       |       |                        |       |       |       |       |   |
| Vanadium   |                     |       |       |                        |       |       |       |       |   |
| Zinc       |                     |       |       |                        |       |       |       |       |   |

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

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS

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                | 33.9  | 103.4 | 20.5                   | 22.0  | 107.3 | 21.1  | 102.9 | F |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| 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)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSSInitial Calibration Source: NISTContinuing 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                   | 22.1  | 107.8 | 21.1  | 102.9 | F |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-0

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    |                     |       |       | 205                    | 20.9  | 102.0 | 200   | 97.6  | F |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| 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)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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                   | 21.3  | 103.9 | 21.9  | 106.8 | F |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| 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)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSSInitial Calibration Source: NISTContinuing 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                | 32.5  | 99.1  | 20.5                   | 20.6  | 100.5 |       |       | F |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       |                        |       |       |       |       |   |
| 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)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-01Initial Calibration Source: NISTContinuing 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       | 35.3                | 34.6  | 98.0  | 21.2                   | 21.8  | 102.8 |       |       | 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)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-01Initial Calibration Source: NISTContinuing 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       | 35.3                | 35.0  | 99.2  | 21.2                   | 21.5  | 98.6  | 21.3  | 100.5 | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       | 21.2                   | 21.8  | 102.8 | 21.7  | 102.4 | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       | 21.2                   | 20.5  | 96.7  | 22.5  | 106.1 | 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)

Lab Name: Analytical Services Corp

Contract: NEGSA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       | 21.2                   | 19.7  | 92.9  | 19.9  | 93.9  | 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)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       |                     |       |       | 21.2                   | 20.2  | 95.3  |       |       | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

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    |                     |       |       |                        |       |       |       |       |   |
| Barium     |                     |       |       |                        |       |       |       |       |   |
| Beryllium  |                     |       |       |                        |       |       |       |       |   |
| Boron      |                     |       |       |                        |       |       |       |       |   |
| Cadmium    |                     |       |       |                        |       |       |       |       |   |
| Chromium   |                     |       |       |                        |       |       |       |       |   |
| Cobalt     |                     |       |       |                        |       |       |       |       |   |
| Copper     |                     |       |       |                        |       |       |       |       |   |
| Iron       |                     |       |       |                        |       |       |       |       |   |
| Lead       | 35.3                | 34.2  | 96.9  | 21.2                   | 22.9  | 108.0 |       |       | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

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                | 37.2  | 95.1  | 23.5                   | 24.4  | 103.8 | 22.9  | 97.4  | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-1-C

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                | 40.3  | 103.1 | 23.5                   | 21.2  | 90.2  | 23.2  | 98.7  | 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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                | 42.2  | 107.9 | 23.5                   | 22.7  | 96.8  | 23.2  | 98.7  | 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)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLS-CSS-CInitial Calibration Source: APGContinuing 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                | 41.3  | 105.6 | 23.5                   | 24.7  | 105.1 | 22.3  | 94.9  | 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)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-0Initial Calibration Source: APGContinuing 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                   | 23.4  | 99.6  |       |       | 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)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-01Initial Calibration Source: NISTContinuing 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       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    | 5.0                 | 4.6   | 92.4  | 50                     | 4.6   | 92.7  | 4.6   | 92.5  | CV |
| 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CL5-CSS-0

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    |                     |       |       |                        |       |       |       |       |    |
| Barium     |                     |       |       |                        |       |       |       |       |    |
| Beryllium  |                     |       |       |                        |       |       |       |       |    |
| Boron      |                     |       |       |                        |       |       |       |       |    |
| Cadmium    |                     |       |       |                        |       |       |       |       |    |
| Chromium   |                     |       |       |                        |       |       |       |       |    |
| Cobalt     |                     |       |       |                        |       |       |       |       |    |
| Copper     |                     |       |       |                        |       |       |       |       |    |
| Iron       |                     |       |       |                        |       |       |       |       |    |
| Lead       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    |                     |       |       | 5.0                    | 4.6   | 91.6  |       |       | CV |
| 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

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    |                     |       |       |                        |       |       |       |       |    |
| Barium     |                     |       |       |                        |       |       |       |       |    |
| Beryllium  |                     |       |       |                        |       |       |       |       |    |
| Boron      |                     |       |       |                        |       |       |       |       |    |
| Cadmium    |                     |       |       |                        |       |       |       |       |    |
| Chromium   |                     |       |       |                        |       |       |       |       |    |
| Cobalt     |                     |       |       |                        |       |       |       |       |    |
| Copper     |                     |       |       |                        |       |       |       |       |    |
| Iron       |                     |       |       |                        |       |       |       |       |    |
| Lead       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    |                     |       |       | 5.0                    | 4.5   | 90.5  |       |       | CV |
| 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

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    |                     |       |       |                        |       |       |       |       |    |
| Barium     |                     |       |       |                        |       |       |       |       |    |
| Beryllium  |                     |       |       |                        |       |       |       |       |    |
| Boron      |                     |       |       |                        |       |       |       |       |    |
| Cadmium    |                     |       |       |                        |       |       |       |       |    |
| Chromium   |                     |       |       |                        |       |       |       |       |    |
| Cobalt     |                     |       |       |                        |       |       |       |       |    |
| Copper     |                     |       |       |                        |       |       |       |       |    |
| Iron       |                     |       |       |                        |       |       |       |       |    |
| Lead       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    | 5.0                 | 4.3   | 86.0  | 5.0                    | 4.4   | 87.2  | 4.5   | 89.0  | CV |
| 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)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

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    |                     |       |       |                        |       |       |       |       |    |
| Barium     |                     |       |       |                        |       |       |       |       |    |
| Beryllium  |                     |       |       |                        |       |       |       |       |    |
| Boron      |                     |       |       |                        |       |       |       |       |    |
| Cadmium    |                     |       |       |                        |       |       |       |       |    |
| Chromium   |                     |       |       |                        |       |       |       |       |    |
| Cobalt     |                     |       |       |                        |       |       |       |       |    |
| Copper     |                     |       |       |                        |       |       |       |       |    |
| Iron       |                     |       |       |                        |       |       |       |       |    |
| Lead       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    |                     |       |       | 5.0                    | 4.3   | 86.2  | 4.5   | 89.5  | CV |
| 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)

Lab Name: Analytical Services CorpContract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-0Initial Calibration Source: NISTContinuing 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       |                     |       |       |                        |       |       |       |       |    |
| Manganese  |                     |       |       |                        |       |       |       |       |    |
| Mercury    | 5.0                 | 4.7   | 93.9  | 5.0                    | 4.6   | 92.4  | 4.6   | 91.7  | CV |
| Molybdenum |                     |       |       |                        |       |       |       |       |    |
| Nickel     |                     |       |       |                        |       |       |       |       |    |
| Selenium   |                     |       |       |                        |       |       |       |       |    |
| 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)

0057

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: MS-CSS-C

AA CRDL Standard Source: NIST

ICP CRDL Standard Source: NIST

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     |                      |       |       | 402                   | 409           | 102           | 409         | 102         |
| Beryllium  |                      |       |       |                       |               |               |             |             |
| Boron      |                      |       |       |                       |               |               |             |             |
| Cadmium    |                      |       |       | 10.8                  | 11.1          | 103           | 10.6        | 98.2        |
| Chromium   |                      |       |       | 21.0                  | 19.6          | 93.5          | 16.6        | 79.2        |
| Cobalt     |                      |       |       |                       |               |               |             |             |
| Copper     |                      |       |       |                       |               |               |             |             |
| Iron       |                      |       |       |                       |               |               |             |             |
| Lead       |                      |       |       | 160                   | 158           | 98.6          | 146         | 91.5        |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       | 22.0                  | 21.6          | 98.0          | 18.3        | 83.1        |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

AA CRDL Standard Source: Inorganic Ventures

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    | 10.0                 | 10.8  | 108.0 |                       |               |               |             |             |
| Barium     |                      |       |       |                       |               |               |             |             |
| Beryllium  |                      |       |       |                       |               |               |             |             |
| Boron      |                      |       |       |                       |               |               |             |             |
| Cadmium    |                      |       |       |                       |               |               |             |             |
| Chromium   |                      |       |       |                       |               |               |             |             |
| Cobalt     |                      |       |       |                       |               |               |             |             |
| Copper     |                      |       |       |                       |               |               |             |             |
| Iron       |                      |       |       |                       |               |               |             |             |
| Lead       |                      |       |       |                       |               |               |             |             |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

0059

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

AA CRDL Standard Source: Inorganic Ventures

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    | 10.0                 | 10.1  | 100.9 |                       |               |               |             |             |
| Barium     |                      |       |       |                       |               |               |             |             |
| Beryllium  |                      |       |       |                       |               |               |             |             |
| Boron      |                      |       |       |                       |               |               |             |             |
| Cadmium    |                      |       |       |                       |               |               |             |             |
| Chromium   |                      |       |       |                       |               |               |             |             |
| Cobalt     |                      |       |       |                       |               |               |             |             |
| Copper     |                      |       |       |                       |               |               |             |             |
| Iron       |                      |       |       |                       |               |               |             |             |
| Lead       |                      |       |       |                       |               |               |             |             |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

0060

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

AA CRDL Standard Source: Ventures

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       | 3.0                  | 3.1   | 103.3 |                       |               |               |             |             |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CW-CSS-01

AA CRDL Standard Source: Ventures

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       | 3.0                  | 3.0   | 100.0 |                       |               |               |             |             |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

0062

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

AA CRDL Standard Source: Ventures

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       | 3.0                  | 2.3   | 76.7  |                       |               |               |             |             |
| Manganese  |                      |       |       |                       |               |               |             |             |
| Mercury    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

# CRDL STANDARD FOR AA AND ICP (2B)

0063

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

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    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   | 5.1                  | 4.7   | 92.2  |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

## CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-01AA 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    |                      |       |       |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   | 5.1                  | 3.8   | 74.5  |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |



## CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NA Case #: NASAS #: NASDG #: CLJ-CSS-CAA 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<br>True       | Found | %R(1) | Final<br>Found | %R(1) |
| Aluminum   |                      |       |       |                       |       |       |                |       |
| Antimony   |                      |       |       |                       |       |       |                |       |
| Arsenic    |                      |       |       |                       |       |       |                |       |
| Barium     |                      |       |       |                       |       |       |                |       |
| Beryllium  |                      |       |       |                       |       |       |                |       |
| Boron      |                      |       |       |                       |       |       |                |       |
| Cadmium    |                      |       |       |                       |       |       |                |       |
| Chromium   |                      |       |       |                       |       |       |                |       |
| Cobalt     |                      |       |       |                       |       |       |                |       |
| Copper     |                      |       |       |                       |       |       |                |       |
| Iron       |                      |       |       |                       |       |       |                |       |
| Lead       |                      |       |       |                       |       |       |                |       |
| Manganese  |                      |       |       |                       |       |       |                |       |
| Mercury    |                      |       |       |                       |       |       |                |       |
| Molybdenum |                      |       |       |                       |       |       |                |       |
| Nickel     |                      |       |       |                       |       |       |                |       |
| Selenium   | 51                   | 6.9   | 135   |                       |       |       |                |       |
| Silver     |                      |       |       |                       |       |       |                |       |
| Strontium  |                      |       |       |                       |       |       |                |       |
| Thallium   |                      |       |       |                       |       |       |                |       |
| Vanadium   |                      |       |       |                       |       |       |                |       |
| Zinc       |                      |       |       |                       |       |       |                |       |

## CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NA Case #: NASAS #: NASDG #: CLJ-CSS-CAA 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<br>True       | Found | %R(1) | Final<br>Found | %R(1) |
| Aluminum   |                      |       |       |                       |       |       |                |       |
| Antimony   |                      |       |       |                       |       |       |                |       |
| Arsenic    |                      |       |       |                       |       |       |                |       |
| Barium     |                      |       |       |                       |       |       |                |       |
| Beryllium  |                      |       |       |                       |       |       |                |       |
| Boron      |                      |       |       |                       |       |       |                |       |
| Cadmium    |                      |       |       |                       |       |       |                |       |
| Chromium   |                      |       |       |                       |       |       |                |       |
| Cobalt     |                      |       |       |                       |       |       |                |       |
| Copper     |                      |       |       |                       |       |       |                |       |
| Iron       |                      |       |       |                       |       |       |                |       |
| Lead       |                      |       |       |                       |       |       |                |       |
| Manganese  |                      |       |       |                       |       |       |                |       |
| Mercury    |                      |       |       |                       |       |       |                |       |
| Molybdenum |                      |       |       |                       |       |       |                |       |
| Nickel     |                      |       |       |                       |       |       |                |       |
| Selenium   | 5.1                  | 6.4   | 125.5 |                       |       |       |                |       |
| Silver     |                      |       |       |                       |       |       |                |       |
| Strontium  |                      |       |       |                       |       |       |                |       |
| Thallium   |                      |       |       |                       |       |       |                |       |
| Vanadium   |                      |       |       |                       |       |       |                |       |
| Zinc       |                      |       |       |                       |       |       |                |       |

# CRDL STANDARD FOR AA AND ICP (2B)

 Lab Name: *Analytical Services Corp*

 Contract: NEESA

 Lab Code: NA

 Case #: NA

 SAS #: NA

 SDG #: CLS-CSS-C

 AA CRDL Standard Source: Ventures

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

| ANALYTE    | CRDL Standard for AA |       |       | CRDL Standard for ICP |       |       |                |       |
|------------|----------------------|-------|-------|-----------------------|-------|-------|----------------|-------|
|            | True                 | Found | %R(1) | Initial<br>True       | Found | %R(1) | Final<br>Found | %R(1) |
| Aluminum   |                      |       |       |                       |       |       |                |       |
| Antimony   |                      |       |       |                       |       |       |                |       |
| Arsenic    |                      |       |       |                       |       |       |                |       |
| Barium     |                      |       |       |                       |       |       |                |       |
| Beryllium  |                      |       |       |                       |       |       |                |       |
| Boron      |                      |       |       |                       |       |       |                |       |
| Cadmium    |                      |       |       |                       |       |       |                |       |
| Chromium   |                      |       |       |                       |       |       |                |       |
| Cobalt     |                      |       |       |                       |       |       |                |       |
| Copper     |                      |       |       |                       |       |       |                |       |
| Iron       |                      |       |       |                       |       |       |                |       |
| Lead       |                      |       |       |                       |       |       |                |       |
| Manganese  |                      |       |       |                       |       |       |                |       |
| Mercury    | .200                 | .112  | 55.9  |                       |       |       |                |       |
| Molybdenum |                      |       |       |                       |       |       |                |       |
| Nickel     |                      |       |       |                       |       |       |                |       |
| Selenium   |                      |       |       |                       |       |       |                |       |
| Silver     |                      |       |       |                       |       |       |                |       |
| Strontium  |                      |       |       |                       |       |       |                |       |
| Thallium   |                      |       |       |                       |       |       |                |       |
| Vanadium   |                      |       |       |                       |       |       |                |       |
| Zinc       |                      |       |       |                       |       |       |                |       |

# CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

AA CRDL Standard Source: Ventures

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    | 200                  | .151  | 75.6  |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

## CRDL STANDARD FOR AA AND ICP (2B)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLS-CSS-AA CRDL Standard Source: Ventures

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    | .200                 | .190  | 95.2  |                       |               |               |             |             |
| Molybdenum |                      |       |       |                       |               |               |             |             |
| Nickel     |                      |       |       |                       |               |               |             |             |
| Selenium   |                      |       |       |                       |               |               |             |             |
| Silver     |                      |       |       |                       |               |               |             |             |
| Strontium  |                      |       |       |                       |               |               |             |             |
| Thallium   |                      |       |       |                       |               |               |             |             |
| Vanadium   |                      |       |       |                       |               |               |             |             |
| Zinc       |                      |       |       |                       |               |               |             |             |

## BLANKS (3)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-01Prep Blank Matrix: (soil/water) WATERPrep 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     | 1.4                              | B | 0.5                                 | U | 1.2  | B |   |   | 0.6               | U | P |
| Beryllium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cadmium    | 0.9                              | U | 0.2                                 | U | 0.3  | U |   |   | 0.2               | U | P |
| Chromium   | -1.5                             | U | -3.3                                | U | -2.4 | U |   |   | -∅                | U | P |
| Cobalt     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Lead       | -2.1                             | U | -13.3                               | U | 2.1  | U |   |   | 5.6               | U | P |
| Manganese  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Silver     | -2.3                             | U | -0.2                                | U | 2.3  | U |   |   | -0.9              | U | P |
| Strontium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |   |   |                   |   |   |

BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLI-CSS-

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                 |   |   |
| Aluminum   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Antimony   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Arsenic    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Barium     |                                  |   | 1.3                                 | B | 1.2  | B |   |   | -1.3              | U | P |
| Beryllium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cadmium    |                                  |   | 0.3                                 | U | 0.2  | U |   |   | -0.2              | U | P |
| Chromium   |                                  |   | -2.5                                | U | -1.6 | U |   |   | -4.8              | B | P |
| Cobalt     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Lead       |                                  |   | 12.5                                | U | -3.2 | U |   |   | -12.2             | U | P |
| Manganese  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Silver     |                                  |   | 2.8                                 | U | 3.3  | U |   |   | -10.3             |   | P |
| Strontium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |   |   |                   |   |   |

BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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                 |   |   |
| Aluminum   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Antimony   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Arsenic    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Barium     |                                  |   | 0.5                                 | U | 1.5  | B |   |   | 0.6               | U | P |
| Beryllium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cadmium    |                                  |   | 0.1                                 | U | 0.3  | U |   |   | 0.1               | U | P |
| Chromium   |                                  |   | -4.0                                | U | -2.7 | U |   |   | -1.8              | U | P |
| Cobalt     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Lead       |                                  |   | -2.5                                | U | -1.4 | U |   |   | -2.4              | U | P |
| Manganese  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Silver     |                                  |   | 3.5                                 | U | 0.7  | U |   |   | 2.1               | U | P |
| Strontium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |   |   |                   |   |   |



# BLANKS (3)

0073

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

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    | -1.0                             | U | -0.4                                | U | -1.5 | B | -0.8 | U | -0.7              | U | F |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |

# BLANKS (3)

0074

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

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    |                                  |   | -0.9                                | U | -0.9 | U | -1.3 | U | -1.2              | U | ✓ |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |

# BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS

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    |                                  |   | -1.0                                | U | -0.9 | U |   |   | -1.4              | U | F |
| Barium     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Lead       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |   |   |                   |   |   |

# BLANKS (3)

0076

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

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    | -1.9                             | B | -2.4                                | B |   |   |   |   |                   |   | F |
| Barium     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Lead       |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Silver     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |   |   |   |   |                   |   |   |

# BLANKS (3)

0077

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-SS-c

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 |
|------------|----------------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|---|
|            |                                  | C | 1                                   | C | 2 | C | 3 | C |                   | C |   |
| Aluminum   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Antimony   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Arsenic    |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Barium     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Lead       | -1.8                             | U | -1.8                                | U |   |   |   |   | -2.2              | B | F |
| Manganese  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Silver     |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |   |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |   |   |   |   |                   |   |   |

# BLANKS (3)

0078

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

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    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       | -1.8                             | u | -1.6                                | u | -1.7 | u | -1.5 | u | -1.6              | u | F |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |

# BLANKS (3)

0079

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       |                                  |   | -1.4                                | u | -1.5 | u | -1.5 | u | -1.1              | u | F |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |

# BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: ELS-CSS-C

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    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       |                                  |   | -1.6                                | u | -1.6 | u | -1.6 | u |                   | F |   |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |



## BLANKS (3)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-CPrep Blank Matrix: (soil/water) WaterPrep Blank Concentration Units: (ug/L or mg/kg) ug/L

| ANALYTE    | INITIAL<br>CALIBRATION<br>BLANK<br>(ug/L) | C | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation<br>Blank |  | M |
|------------|-------------------------------------------|---|-------------------------------------|---|---|---|---|---|----------------------|--|---|
|            |                                           |   | 1                                   | C | 2 | C | 3 | C | C                    |  |   |
| Aluminum   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Antimony   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Arsenic    |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Barium     |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Beryllium  |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Boron      |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Cadmium    |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Chromium   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Cobalt     |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Copper     |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Iron       |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Lead       | -1.9                                      | u | -1.5                                | u |   |   |   |   |                      |  | F |
| Manganese  |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Mercury    |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Molybdenum |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Nickel     |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Selenium   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Silver     |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Strontium  |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Thallium   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Vanadium   |                                           |   |                                     |   |   |   |   |   |                      |  |   |
| Zinc       |                                           |   |                                     |   |   |   |   |   |                      |  |   |

# BLANKS (3)

0082

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

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 |      |   |   |
|------------|----------------------------------|---|-------------------------------------|---|-----|---|---|---|-------------------|------|---|---|
|            |                                  |   | 1                                   | C | 2   | C | 3 | C | C                 | C    | M |   |
| Aluminum   |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Antimony   |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Arsenic    |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Barium     |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Beryllium  |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Boron      |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Cadmium    |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Chromium   |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Cobalt     |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Copper     |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Iron       |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Lead       |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Manganese  |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Mercury    |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Molybdenum |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Nickel     |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Selenium   | -0.4                             | u | -0.1                                | u | 0.2 | u |   |   |                   | -0.2 | u | F |
| Silver     |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Strontium  |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Thallium   |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Vanadium   |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |
| Zinc       |                                  |   |                                     |   |     |   |   |   |                   |      |   |   |

# BLANKS (3)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CL5-CSS-

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    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Barium     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Lead       |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Selenium   | -2.4                             | B | -2.6                                | B | -3.2 | B |   |   | -4.2              | B | F |
| Silver     |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |   |   |                   |   |   |

# BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

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    |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Barium     |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Boron      |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Copper     |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Iron       |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Lead       |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Selenium   | 1.9                              | B | 1.7                                 | B | 0.8 | U |   |   |                   |   | F |
| Silver     |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |     |   |   |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |     |   |   |   |                   |   |   |

### BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-0

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                 |   |   |
| Aluminum   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Antimony   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Arsenic    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Lead       |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Mercury    |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Selenium   | 1.2                              | u | -0.8                                | u | -0.2 | u | -0.9 | u | 0.6               | u | F |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |   |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |   |

## BLANKS (3)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLS-CSS-0Prep Blank Matrix: (soil/water) WaterPrep Blank Concentration Units: (ug/L or mg/kg) ug/L

| ANALYTE    | INITIAL<br>CALIBRATION<br>BLANK<br>(ug/L) | C | Continuing Calibration Blank (ug/L) |   |        |   |        |   | Preparation<br>Blank |   | M  |
|------------|-------------------------------------------|---|-------------------------------------|---|--------|---|--------|---|----------------------|---|----|
|            |                                           |   | 1                                   | C | 2      | C | 3      | C | C                    |   |    |
| Aluminum   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Antimony   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Arsenic    |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Barium     |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Beryllium  |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Boron      |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Cadmium    |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Chromium   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Cobalt     |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Copper     |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Iron       |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Lead       |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Manganese  |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Mercury    | - .155                                    | B | - .030                              | U | - .090 | U | - .038 | U | - .101               | B | CV |
| Molybdenum |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Nickel     |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Selenium   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Silver     |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Strontium  |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Thallium   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Vanadium   |                                           |   |                                     |   |        |   |        |   |                      |   |    |
| Zinc       |                                           |   |                                     |   |        |   |        |   |                      |   |    |

**BLANKS (3)**

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

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                 |   |    |
| Aluminum   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Antimony   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Arsenic    |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Barium     |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Beryllium  |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Boron      |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Cadmium    |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Chromium   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Cobalt     |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Copper     |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Iron       |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Lead       |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Manganese  |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Mercury    | .113                             | u | .094                                | u | .115 | u | .123 | u | .007              | u | CV |
| Molybdenum |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Nickel     |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Selenium   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Silver     |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Strontium  |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Thallium   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Vanadium   |                                  |   |                                     |   |      |   |      |   |                   |   |    |
| Zinc       |                                  |   |                                     |   |      |   |      |   |                   |   |    |

**BLANKS (3)**

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

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                 |  |    |
| Aluminum   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Antimony   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Arsenic    |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Barium     |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Beryllium  |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Boron      |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Cadmium    |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Chromium   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Cobalt     |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Copper     |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Iron       |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Lead       |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Manganese  |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Mercury    |                                  |   | -128                                | u |   |   |   |   |                   |  | CV |
| Molybdenum |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Nickel     |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Selenium   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Silver     |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Strontium  |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Thallium   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Vanadium   |                                  |   |                                     |   |   |   |   |   |                   |  |    |
| Zinc       |                                  |   |                                     |   |   |   |   |   |                   |  |    |



# BLANKS (3)

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

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       |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Manganese  |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Mercury    | <u>-.023</u>                     | <u>u</u> | <u>.010</u>                         | <u>u</u> | <u>-.087</u> | <u>u</u> | <u>.032</u> | <u>u</u> | <u>.002</u>       | <u>u</u> | <u>CV</u> |
| Molybdenum |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Nickel     |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Selenium   |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Silver     |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Strontium  |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Thallium   |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Vanadium   |                                  |          |                                     |          |              |          |             |          |                   |          |           |
| Zinc       |                                  |          |                                     |          |              |          |             |          |                   |          |           |

# ICP INTERFERENCE CHECK SAMPLE (4) 0090

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-255-01

ICP ID #: 61

ISC Source: VENTURI

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     | 2.0           | 464     | 98.5 | 2.2         | 465     | 98.7 |
| Beryllium  |        |         |               |         |      |             |         |      |
| Boron      |        |         |               |         |      |             |         |      |
| Cadmium    | φ      | 874     | -9.9          | 892     | 102  | -10.7       | 864     | 99.0 |
| Chromium   | φ      | 462     | -9.1          | 455     | 98.5 | -9.2        | 442     | 95.6 |
| Cobalt     |        |         |               |         |      |             |         |      |
| Copper     |        |         |               |         |      |             |         |      |
| Iron       |        |         |               |         |      |             |         |      |
| Lead       | φ      | 883     | 2.0           | 903     | 102  | 6.0         | 879     | 99.6 |
| Manganese  |        |         |               |         |      |             |         |      |
| Mercury    |        |         |               |         |      |             |         |      |
| Molybdenum |        |         |               |         |      |             |         |      |
| Nickel     |        |         |               |         |      |             |         |      |
| Selenium   |        |         |               |         |      |             |         |      |
| Silver     | φ      | 923     | -9.8          | 912     | 98.8 | -7.7        | 913     | 98.9 |
| Strontium  |        |         |               |         |      |             |         |      |
| Thallium   |        |         |               |         |      |             |         |      |
| Vanadium   |        |         |               |         |      |             |         |      |
| Zinc       |        |         |               |         |      |             |         |      |

# SPIKE SAMPLE RECOVERY (5A)

0091

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-CSS-0  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-CSS-01  
 Matrix: (soil/water) WATER      Level (low/med): LOW      % Solids for Sample: \_\_\_\_\_

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

| ANALYTE    | CONTROL<br>LIMIT %R       | SPIKE SAMPLE<br>RESULT (SSR) |   | SAMPLE RESULT<br>(SR) |   | SPIKE<br>ADDED<br>(SA) | %R   | Q | M |
|------------|---------------------------|------------------------------|---|-----------------------|---|------------------------|------|---|---|
|            |                           |                              | C |                       | C |                        |      |   |   |
| Aluminum   |                           |                              |   |                       |   |                        |      |   |   |
| Antimony   |                           |                              |   |                       |   |                        |      |   |   |
| Arsenic    |                           |                              |   |                       |   |                        |      |   |   |
| Barium     | 75-125                    | 10200                        |   | 927                   |   | 10400                  | 89.2 |   | P |
| Beryllium  |                           |                              |   |                       |   |                        |      |   |   |
| Boron      |                           |                              |   |                       |   |                        |      |   |   |
| Cadmium    | 75-125                    | 958                          |   | 1.5                   | B | 1050                   | 91.1 |   | P |
| Chromium   | 75-125                    | 4820                         |   | 4.1                   | U | 5430                   | 88.8 |   | P |
| Cobalt     |                           |                              |   |                       |   |                        |      |   |   |
| Copper     |                           |                              |   |                       |   |                        |      |   |   |
| Iron       |                           |                              |   |                       |   |                        |      |   |   |
| Lead       | <del>75-125</del><br>5-21 | 4702                         |   | 32.5                  |   | 5210                   | 89.6 |   | P |
| Manganese  |                           |                              |   |                       |   |                        |      |   |   |
| Mercury    |                           |                              |   |                       |   |                        |      |   |   |
| Molybdenum |                           |                              |   |                       |   |                        |      |   |   |
| Nickel     |                           |                              |   |                       |   |                        |      |   |   |
| Selenium   |                           |                              |   |                       |   |                        |      |   |   |
| Silver     | 75-125                    | 91.0                         |   | -1.2                  | U | 93.5                   | 97.3 |   | P |
| Strontium  |                           |                              |   |                       |   |                        |      |   |   |
| Thallium   |                           |                              |   |                       |   |                        |      |   |   |
| Vanadium   |                           |                              |   |                       |   |                        |      |   |   |
| Zinc       |                           |                              |   |                       |   |                        |      |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0092

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-655-1  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-655-0  
 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    |                  |                           |   |                    |   |                  |      |   |   |
| Barium     | 75-125           | 9800                      |   | 375                |   | 10400            | 90.6 |   | P |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |   |
| Boron      |                  |                           |   |                    |   |                  |      |   |   |
| Cadmium    | 75-125           | 957                       |   | 1.4                | B | 1050             | 91.0 |   | P |
| Chromium   | 75-125           | 4890                      |   | 3.0                | U | 5430             | 90.1 |   | P |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |   |
| Copper     |                  |                           |   |                    |   |                  |      |   |   |
| Iron       |                  |                           |   |                    |   |                  |      |   |   |
| Lead       | 75-125           | 4700                      |   | 27.1               |   | 5210             | 90.2 |   | P |
| Manganese  |                  |                           |   |                    |   |                  |      |   |   |
| Mercury    |                  |                           |   |                    |   |                  |      |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |   |
| Nickel     |                  |                           |   |                    |   |                  |      |   |   |
| Selenium   |                  |                           |   |                    |   |                  |      |   |   |
| Silver     | 75-125           | 92.0                      |   | 0.9                | U | 93.5             | 97.4 |   | P |
| Strontium  |                  |                           |   |                    |   |                  |      |   |   |
| Thallium   |                  |                           |   |                    |   |                  |      |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |   |
| Zinc       |                  |                           |   |                    |   |                  |      |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0093

Lab Name: *Analytical Services Corp*      Contract: NEESA      EPA Sample #: CLJ-255-2  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-255-0  
 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    |                  |                           |   |                    |   |                  |      |   |   |
| Barium     | 75-125           | 9890                      |   | 539                |   | 10400            | 89.9 |   | P |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |   |
| Boron      |                  |                           |   |                    |   |                  |      |   |   |
| Cadmium    | 75-125           | 953                       |   | 0.8                | U | 1050             | 90.8 |   | P |
| Chromium   | 75-125           | 4800                      |   | -1.7               | U | 5430             | 88.4 |   | P |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |   |
| Copper     |                  |                           |   |                    |   |                  |      |   |   |
| Iron       |                  |                           |   |                    |   |                  |      |   |   |
| Lead       | 75-125           | 4690                      |   | -2.3               | U | 5210             | 90.0 |   | P |
| Manganese  |                  |                           |   |                    |   |                  |      |   |   |
| Mercury    |                  |                           |   |                    |   |                  |      |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |   |
| Nickel     |                  |                           |   |                    |   |                  |      |   |   |
| Selenium   |                  |                           |   |                    |   |                  |      |   |   |
| Silver     | 75-125           | 95.2                      |   | 3.7                | U | 93.5             | 102  |   | P |
| Strontium  |                  |                           |   |                    |   |                  |      |   |   |
| Thallium   |                  |                           |   |                    |   |                  |      |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |   |
| Zinc       |                  |                           |   |                    |   |                  |      |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0094

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA Sample #:** CLJ-CSS-C  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-C  
**Matrix:** (soil/water) Water    **Level (low/med):** LOW    **% Solids for Sample:** NA

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           | 21.30                     |   | -1.04              | U | 20.00            | 106.5 |   | F |
| Barium     |                  |                           |   |                    |   |                  |       |   |   |
| Beryllium  |                  |                           |   |                    |   |                  |       |   |   |
| Boron      |                  |                           |   |                    |   |                  |       |   |   |
| Cadmium    |                  |                           |   |                    |   |                  |       |   |   |
| Chromium   |                  |                           |   |                    |   |                  |       |   |   |
| Cobalt     |                  |                           |   |                    |   |                  |       |   |   |
| Copper     |                  |                           |   |                    |   |                  |       |   |   |
| Iron       |                  |                           |   |                    |   |                  |       |   |   |
| Lead       |                  |                           |   |                    |   |                  |       |   |   |
| Manganese  |                  |                           |   |                    |   |                  |       |   |   |
| Mercury    |                  |                           |   |                    |   |                  |       |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |       |   |   |
| Nickel     |                  |                           |   |                    |   |                  |       |   |   |
| Selenium   |                  |                           |   |                    |   |                  |       |   |   |
| Silver     |                  |                           |   |                    |   |                  |       |   |   |
| Strontium  |                  |                           |   |                    |   |                  |       |   |   |
| Thallium   |                  |                           |   |                    |   |                  |       |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |       |   |   |
| Zinc       |                  |                           |   |                    |   |                  |       |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0095

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CL5-CSS-0  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CL5-CSS-0  
 Matrix: (soil/water) Water      Level (low/med): Low      % Solids for Sample: NA

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

| ANALYTE    | CONTROL<br>LIMIT %R | SPIKE SAMPLE<br>RESULT (SSR) |   | SAMPLE RESULT<br>(SR) |   | SPIKE<br>ADDED<br>(SA) | %R   | Q | M |
|------------|---------------------|------------------------------|---|-----------------------|---|------------------------|------|---|---|
|            |                     |                              | C |                       | C |                        |      |   |   |
| Aluminum   |                     |                              |   |                       |   |                        |      |   |   |
| Antimony   |                     |                              |   |                       |   |                        |      |   |   |
| Arsenic    |                     |                              |   |                       |   |                        |      |   |   |
| Barium     |                     |                              |   |                       |   |                        |      |   |   |
| Beryllium  |                     |                              |   |                       |   |                        |      |   |   |
| Boron      |                     |                              |   |                       |   |                        |      |   |   |
| Cadmium    |                     |                              |   |                       |   |                        |      |   |   |
| Chromium   |                     |                              |   |                       |   |                        |      |   |   |
| Cobalt     |                     |                              |   |                       |   |                        |      |   |   |
| Copper     |                     |                              |   |                       |   |                        |      |   |   |
| Iron       |                     |                              |   |                       |   |                        |      |   |   |
| Lead       | 75-125              | 27.8                         |   | 8.3                   |   | 20.0                   | 97.5 |   | F |
| Manganese  |                     |                              |   |                       |   |                        |      |   |   |
| Mercury    |                     |                              |   |                       |   |                        |      |   |   |
| Molybdenum |                     |                              |   |                       |   |                        |      |   |   |
| Nickel     |                     |                              |   |                       |   |                        |      |   |   |
| Selenium   |                     |                              |   |                       |   |                        |      |   |   |
| Silver     |                     |                              |   |                       |   |                        |      |   |   |
| Strontium  |                     |                              |   |                       |   |                        |      |   |   |
| Thallium   |                     |                              |   |                       |   |                        |      |   |   |
| Vanadium   |                     |                              |   |                       |   |                        |      |   |   |
| Zinc       |                     |                              |   |                       |   |                        |      |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0096

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLS-CSS-0  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLS-CSS-01  
 Matrix: (soil/water) Water      Level (low/med): Low      % Solids for Sample: NA

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    |                  |                           |   |                    |   |                  |      |   |   |
| Barium     |                  |                           |   |                    |   |                  |      |   |   |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |   |
| Boron      |                  |                           |   |                    |   |                  |      |   |   |
| Cadmium    |                  |                           |   |                    |   |                  |      |   |   |
| Chromium   |                  |                           |   |                    |   |                  |      |   |   |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |   |
| Copper     |                  |                           |   |                    |   |                  |      |   |   |
| Iron       |                  |                           |   |                    |   |                  |      |   |   |
| Lead       |                  |                           |   |                    |   |                  |      |   |   |
| Manganese  |                  |                           |   |                    |   |                  |      |   |   |
| Mercury    |                  |                           |   |                    |   |                  |      |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |   |
| Nickel     |                  |                           |   |                    |   |                  |      |   |   |
| Selenium   | 75-125           | 16.1                      |   | 0.6                | U | 20.0             | 80.5 |   | F |
| Silver     |                  |                           |   |                    |   |                  |      |   |   |
| Strontium  |                  |                           |   |                    |   |                  |      |   |   |
| Thallium   |                  |                           |   |                    |   |                  |      |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |   |
| Zinc       |                  |                           |   |                    |   |                  |      |   |   |

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



# SPIKE SAMPLE RECOVERY (5A)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-1  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-1  
 Matrix: (soil/water) Water Level (low/med): Low % Solids for Sample: NA

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           | 22.81                     |   | -1.30              | U | 20.00            | 114.1 |   | F |
| Barium     |                  |                           |   |                    |   |                  |       |   |   |
| Beryllium  |                  |                           |   |                    |   |                  |       |   |   |
| Boron      |                  |                           |   |                    |   |                  |       |   |   |
| Cadmium    |                  |                           |   |                    |   |                  |       |   |   |
| Chromium   |                  |                           |   |                    |   |                  |       |   |   |
| Cobalt     |                  |                           |   |                    |   |                  |       |   |   |
| Copper     |                  |                           |   |                    |   |                  |       |   |   |
| Iron       |                  |                           |   |                    |   |                  |       |   |   |
| Lead       |                  |                           |   |                    |   |                  |       |   |   |
| Manganese  |                  |                           |   |                    |   |                  |       |   |   |
| Mercury    |                  |                           |   |                    |   |                  |       |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |       |   |   |
| Nickel     |                  |                           |   |                    |   |                  |       |   |   |
| Selenium   |                  |                           |   |                    |   |                  |       |   |   |
| Silver     |                  |                           |   |                    |   |                  |       |   |   |
| Strontium  |                  |                           |   |                    |   |                  |       |   |   |
| Thallium   |                  |                           |   |                    |   |                  |       |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |       |   |   |
| Zinc       |                  |                           |   |                    |   |                  |       |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

**Lab Name:** Analytical Services Corp      **Contract:** NEESA      **EPA Sample #:** CLJ-CSS-1:  
**Lab Code:** NA      **Case #:** NA      **SAS #:** NA      **SDG #:** CLJ-CSS-C  
**Matrix:** (soil/water) Water      **Level (low/med):** Low      **% Solids for Sample:** NA

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

| ANALYTE    | CONTROL<br>LIMIT %R | SPIKE SAMPLE<br>RESULT (SSR) |   | SAMPLE RESULT<br>(SR) |   | SPIKE<br>ADDED<br>(SA) | %R  | Q | M |
|------------|---------------------|------------------------------|---|-----------------------|---|------------------------|-----|---|---|
|            |                     |                              | C |                       | C |                        |     |   |   |
| Aluminum   |                     |                              |   |                       |   |                        |     |   |   |
| Antimony   |                     |                              |   |                       |   |                        |     |   |   |
| Arsenic    |                     |                              |   |                       |   |                        |     |   |   |
| Barium     |                     |                              |   |                       |   |                        |     |   |   |
| Beryllium  |                     |                              |   |                       |   |                        |     |   |   |
| Boron      |                     |                              |   |                       |   |                        |     |   |   |
| Cadmium    |                     |                              |   |                       |   |                        |     |   |   |
| Chromium   |                     |                              |   |                       |   |                        |     |   |   |
| Cobalt     |                     |                              |   |                       |   |                        |     |   |   |
| Copper     |                     |                              |   |                       |   |                        |     |   |   |
| Iron       |                     |                              |   |                       |   |                        |     |   |   |
| Lead       | 75-125              | 21.1                         |   | 2.3                   | B | 20.0                   | 940 |   | F |
| Manganese  |                     |                              |   |                       |   |                        |     |   |   |
| Mercury    |                     |                              |   |                       |   |                        |     |   |   |
| Molybdenum |                     |                              |   |                       |   |                        |     |   |   |
| Nickel     |                     |                              |   |                       |   |                        |     |   |   |
| Selenium   |                     |                              |   |                       |   |                        |     |   |   |
| Silver     |                     |                              |   |                       |   |                        |     |   |   |
| Strontium  |                     |                              |   |                       |   |                        |     |   |   |
| Thallium   |                     |                              |   |                       |   |                        |     |   |   |
| Vanadium   |                     |                              |   |                       |   |                        |     |   |   |
| Zinc       |                     |                              |   |                       |   |                        |     |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA Sample #:** CLJ-CSS-1  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-0  
**Matrix:** (soil/water) Water    **Level (low/med):** Low    **% Solids for Sample:** NA

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    |                  |                           |   |                    |   |                  |      |   |   |
| Barium     |                  |                           |   |                    |   |                  |      |   |   |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |   |
| Boron      |                  |                           |   |                    |   |                  |      |   |   |
| Cadmium    |                  |                           |   |                    |   |                  |      |   |   |
| Chromium   |                  |                           |   |                    |   |                  |      |   |   |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |   |
| Copper     |                  |                           |   |                    |   |                  |      |   |   |
| Iron       |                  |                           |   |                    |   |                  |      |   |   |
| Lead       |                  |                           |   |                    |   |                  |      |   |   |
| Manganese  |                  |                           |   |                    |   |                  |      |   |   |
| Mercury    |                  |                           |   |                    |   |                  |      |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |   |
| Nickel     |                  |                           |   |                    |   |                  |      |   |   |
| Selenium   | 75-125           | 17.3                      |   | 2.2                | B | 20.0             | 75.5 |   | F |
| Silver     |                  |                           |   |                    |   |                  |      |   |   |
| Strontium  |                  |                           |   |                    |   |                  |      |   |   |
| Thallium   |                  |                           |   |                    |   |                  |      |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |   |
| Zinc       |                  |                           |   |                    |   |                  |      |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

0100

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-2

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

Matrix: (soil/water) Water Level (low/med): Low % Solids for Sample: NA

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 |                  |       |   |   |
| Aluminium  |                  |                           |   |                    |   |                  |       |   |   |
| Antimony   |                  |                           |   |                    |   |                  |       |   |   |
| Arsenic    | 75-125           | 20.33                     |   | -1.17              | U | 20.00            | 101.7 |   | F |
| Barium     |                  |                           |   |                    |   |                  |       |   |   |
| Beryllium  |                  |                           |   |                    |   |                  |       |   |   |
| Boron      |                  |                           |   |                    |   |                  |       |   |   |
| Cadmium    |                  |                           |   |                    |   |                  |       |   |   |
| Chromium   |                  |                           |   |                    |   |                  |       |   |   |
| Cobalt     |                  |                           |   |                    |   |                  |       |   |   |
| Copper     |                  |                           |   |                    |   |                  |       |   |   |
| Iron       |                  |                           |   |                    |   |                  |       |   |   |
| Lead       |                  |                           |   |                    |   |                  |       |   |   |
| Manganese  |                  |                           |   |                    |   |                  |       |   |   |
| Mercury    |                  |                           |   |                    |   |                  |       |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |       |   |   |
| Nickel     |                  |                           |   |                    |   |                  |       |   |   |
| Selenium   |                  |                           |   |                    |   |                  |       |   |   |
| Silver     |                  |                           |   |                    |   |                  |       |   |   |
| Strontium  |                  |                           |   |                    |   |                  |       |   |   |
| Thallium   |                  |                           |   |                    |   |                  |       |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |       |   |   |
| Zinc       |                  |                           |   |                    |   |                  |       |   |   |

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

# SPIKE SAMPLE RECOVERY (5A)

**Lab Name:** Analytical Services Corp      **Contract:** NEESA      **EPA Sample #:** CLJ-CSS-2  
**Lab Code:** NA      **Case #:** NA      **SAS #:** NA      **SDG #:** CLJ-CSS-C  
**Matrix:** (soil/water) Water      **Level (low/med):** Low      **% Solids for Sample:** NA

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    |                  |                             |                      |                  |       |   |   |
| Barium     |                  |                             |                      |                  |       |   |   |
| Beryllium  |                  |                             |                      |                  |       |   |   |
| Boron      |                  |                             |                      |                  |       |   |   |
| Cadmium    |                  |                             |                      |                  |       |   |   |
| Chromium   |                  |                             |                      |                  |       |   |   |
| Cobalt     |                  |                             |                      |                  |       |   |   |
| Copper     |                  |                             |                      |                  |       |   |   |
| Iron       |                  |                             |                      |                  |       |   |   |
| Lead       | 75-125           | 21.7                        | 0.6                  | u 20.0           | 108.5 |   | F |
| Manganese  |                  |                             |                      |                  |       |   |   |
| Mercury    |                  |                             |                      |                  |       |   |   |
| Molybdenum |                  |                             |                      |                  |       |   |   |
| Nickel     |                  |                             |                      |                  |       |   |   |
| Selenium   |                  |                             |                      |                  |       |   |   |
| Silver     |                  |                             |                      |                  |       |   |   |
| Strontium  |                  |                             |                      |                  |       |   |   |
| Thallium   |                  |                             |                      |                  |       |   |   |
| Vanadium   |                  |                             |                      |                  |       |   |   |
| Zinc       |                  |                             |                      |                  |       |   |   |

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

## SPIKE SAMPLE RECOVERY (5A)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-2  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water Level (low/med): Low % Solids for Sample: NA

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

| ANALYTE    | CONTROL<br>LIMIT %R | SPIKE SAMPLE<br>RESULT (SSR) C | SAMPLE RESULT<br>(SR) C | SPIKE<br>ADDED<br>(SA) | %R   | Q | M |
|------------|---------------------|--------------------------------|-------------------------|------------------------|------|---|---|
| Aluminum   |                     |                                |                         |                        |      |   |   |
| Antimony   |                     |                                |                         |                        |      |   |   |
| Arsenic    |                     |                                |                         |                        |      |   |   |
| Barium     |                     |                                |                         |                        |      |   |   |
| Beryllium  |                     |                                |                         |                        |      |   |   |
| Boron      |                     |                                |                         |                        |      |   |   |
| Cadmium    |                     |                                |                         |                        |      |   |   |
| Chromium   |                     |                                |                         |                        |      |   |   |
| Cobalt     |                     |                                |                         |                        |      |   |   |
| Copper     |                     |                                |                         |                        |      |   |   |
| Iron       |                     |                                |                         |                        |      |   |   |
| Lead       |                     |                                |                         |                        |      |   |   |
| Manganese  |                     |                                |                         |                        |      |   |   |
| Mercury    |                     |                                |                         |                        |      |   |   |
| Molybdenum |                     |                                |                         |                        |      |   |   |
| Nickel     |                     |                                |                         |                        |      |   |   |
| Selenium   | 75-125              | 14.5                           | 1.4                     | B 20.0                 | 65.5 | N | F |
| Silver     |                     |                                |                         |                        |      |   |   |
| Strontium  |                     |                                |                         |                        |      |   |   |
| Thallium   |                     |                                |                         |                        |      |   |   |
| Vanadium   |                     |                                |                         |                        |      |   |   |
| Zinc       |                     |                                |                         |                        |      |   |   |

COMMENTS:

# SPIKE SAMPLE RECOVERY (5A)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-  
 Matrix: (soil/water) Water Level (low/med): Low % Solids for Sample: NA

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    |                  |                             |                      |                  |      |   |    |
| Barium     |                  |                             |                      |                  |      |   |    |
| Beryllium  |                  |                             |                      |                  |      |   |    |
| Boron      |                  |                             |                      |                  |      |   |    |
| Cadmium    |                  |                             |                      |                  |      |   |    |
| Chromium   |                  |                             |                      |                  |      |   |    |
| Cobalt     |                  |                             |                      |                  |      |   |    |
| Copper     |                  |                             |                      |                  |      |   |    |
| Iron       |                  |                             |                      |                  |      |   |    |
| Lead       |                  |                             |                      |                  |      |   |    |
| Manganese  |                  |                             |                      |                  |      |   |    |
| Mercury    | 75-125           | 1.92                        | 0.404                | 2.00             | 75.8 |   | CV |
| Molybdenum |                  |                             |                      |                  |      |   |    |
| Nickel     |                  |                             |                      |                  |      |   |    |
| Selenium   |                  |                             |                      |                  |      |   |    |
| Silver     |                  |                             |                      |                  |      |   |    |
| Strontium  |                  |                             |                      |                  |      |   |    |
| Thallium   |                  |                             |                      |                  |      |   |    |
| Vanadium   |                  |                             |                      |                  |      |   |    |
| Zinc       |                  |                             |                      |                  |      |   |    |

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

# SPIKE SAMPLE RECOVERY (5A)

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-CSS-12  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-CSS-01  
 Matrix: (soil/water) Water      Level (low/med): Low      % Solids for Sample: NA

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    |                  |                           |   |                    |   |                  |      |   |    |
| Barium     |                  |                           |   |                    |   |                  |      |   |    |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |    |
| Boron      |                  |                           |   |                    |   |                  |      |   |    |
| Cadmium    |                  |                           |   |                    |   |                  |      |   |    |
| Chromium   |                  |                           |   |                    |   |                  |      |   |    |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |    |
| Copper     |                  |                           |   |                    |   |                  |      |   |    |
| Iron       |                  |                           |   |                    |   |                  |      |   |    |
| Lead       |                  |                           |   |                    |   |                  |      |   |    |
| Manganese  |                  |                           |   |                    |   |                  |      |   |    |
| Mercury    | 75-125           | 1.86                      |   | .073               | u | 2.00             | 93.0 |   | CV |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |    |
| Nickel     |                  |                           |   |                    |   |                  |      |   |    |
| Selenium   |                  |                           |   |                    |   |                  |      |   |    |
| Silver     |                  |                           |   |                    |   |                  |      |   |    |
| Strontium  |                  |                           |   |                    |   |                  |      |   |    |
| Thallium   |                  |                           |   |                    |   |                  |      |   |    |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |    |
| Zinc       |                  |                           |   |                    |   |                  |      |   |    |

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



## SPIKE SAMPLE RECOVERY (5A)

**Lab Name:** Analytical Services Corp      **Contract:** NEESA      **EPA Sample #:** CLJ-CSS-2  
**Lab Code:** NA      **Case #:** NA      **SAS #:** WA      **SDG #:** CLJ-CSS-01  
**Matrix: (soil/water)** Water      **Level (low/med):** Low      **% Solids for Sample:** NA

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    |                  |                           |   |                    |   |                  |       |   |    |
| Barium     |                  |                           |   |                    |   |                  |       |   |    |
| Beryllium  |                  |                           |   |                    |   |                  |       |   |    |
| Boron      |                  |                           |   |                    |   |                  |       |   |    |
| Cadmium    |                  |                           |   |                    |   |                  |       |   |    |
| Chromium   |                  |                           |   |                    |   |                  |       |   |    |
| Cobalt     |                  |                           |   |                    |   |                  |       |   |    |
| Copper     |                  |                           |   |                    |   |                  |       |   |    |
| Iron       |                  |                           |   |                    |   |                  |       |   |    |
| Lead       |                  |                           |   |                    |   |                  |       |   |    |
| Manganese  |                  |                           |   |                    |   |                  |       |   |    |
| Mercury    | 75-125           | 2.39                      |   | .029               | U | 2.00             | 119.5 |   | CV |
| Molybdenum |                  |                           |   |                    |   |                  |       |   |    |
| Nickel     |                  |                           |   |                    |   |                  |       |   |    |
| Selenium   |                  |                           |   |                    |   |                  |       |   |    |
| Silver     |                  |                           |   |                    |   |                  |       |   |    |
| Strontium  |                  |                           |   |                    |   |                  |       |   |    |
| Thallium   |                  |                           |   |                    |   |                  |       |   |    |
| Vanadium   |                  |                           |   |                    |   |                  |       |   |    |
| Zinc       |                  |                           |   |                    |   |                  |       |   |    |

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

# POST DIGEST SPIKE SAMPLE RECOVERY (5B) 0106

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-DS-0  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLS-CSS-0  
 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    |                  |                             |                      |                  |      |   |   |
| Barium     |                  | 10600                       | 941                  | 10400            | 92.9 |   | P |
| Beryllium  |                  |                             |                      |                  |      |   |   |
| Boron      |                  |                             |                      |                  |      |   |   |
| Cadmium    |                  | 998                         | 1.9                  | 1050             | 95.0 |   | P |
| Chromium   |                  | 5070                        | 2.5                  | 5430             | 93.4 |   | P |
| Cobalt     |                  |                             |                      |                  |      |   |   |
| Copper     |                  |                             |                      |                  |      |   |   |
| Iron       |                  |                             |                      |                  |      |   |   |
| Lead       |                  | 5340<br>42                  | 499                  | 5210             | 92.9 |   | P |
| Manganese  |                  |                             |                      |                  |      |   |   |
| Mercury    |                  |                             |                      |                  |      |   |   |
| Molybdenum |                  |                             |                      |                  |      |   |   |
| Nickel     |                  |                             |                      |                  |      |   |   |
| Selenium   |                  |                             |                      |                  |      |   |   |
| Silver     |                  | 97.2                        | -1.9                 | 93.5             | 104  |   | P |
| Srontium   |                  |                             |                      |                  |      |   |   |
| Thallium   |                  |                             |                      |                  |      |   |   |
| Vanadium   |                  |                             |                      |                  |      |   |   |
| Zinc       |                  |                             |                      |                  |      |   |   |

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

# POST DIGEST SPIKE SAMPLE RECOVERY (5B)

0107

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

EPA Sample #: *CLJ-CSS-1*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLJ-CSS-2*

IC Matrix: (soil/water) *WATER*

Level (low/med): *LOW*

Concentration Units: ug/L

| ANALYTE    | CONTROL<br>LIMIT %R | SPIKE SAMPLE<br>RESULT (SSR) |   | SAMPLE<br>RESULT (SR) |          | SPIKE<br>ADDED<br>(SA) | %R          | Q | M        |
|------------|---------------------|------------------------------|---|-----------------------|----------|------------------------|-------------|---|----------|
|            |                     |                              | C |                       | C        |                        |             |   |          |
| Aluminum   |                     |                              |   |                       |          |                        |             |   |          |
| Antimony   |                     |                              |   |                       |          |                        |             |   |          |
| Arsenic    |                     |                              |   |                       |          |                        |             |   |          |
| Barium     |                     | <i>10000</i>                 |   | <i>604</i>            |          | <i>10400</i>           | <i>90.3</i> |   | <i>P</i> |
| Beryllium  |                     |                              |   |                       |          |                        |             |   |          |
| Boron      |                     |                              |   |                       |          |                        |             |   |          |
| Cadmium    |                     | <i>969</i>                   |   | <i>1.6</i>            | <i>B</i> | <i>1050</i>            | <i>92.1</i> |   | <i>P</i> |
| Chromium   |                     | <i>4900</i>                  |   | <i>2.0</i>            | <i>U</i> | <i>5430</i>            | <i>90.2</i> |   | <i>P</i> |
| Cobalt     |                     |                              |   |                       |          |                        |             |   |          |
| Copper     |                     |                              |   |                       |          |                        |             |   |          |
| Iron       |                     |                              |   |                       |          |                        |             |   |          |
| Lead       |                     | <i>4770</i>                  |   | <i>42.4</i>           |          | <i>5210</i>            | <i>90.7</i> |   | <i>P</i> |
| Manganese  |                     |                              |   |                       |          |                        |             |   |          |
| Mercury    |                     |                              |   |                       |          |                        |             |   |          |
| Molybdenum |                     |                              |   |                       |          |                        |             |   |          |
| Nickel     |                     |                              |   |                       |          |                        |             |   |          |
| Selenium   |                     |                              |   |                       |          |                        |             |   |          |
| Silver     |                     | <i>93.9</i>                  |   | <i>5.9</i>            | <i>U</i> | <i>93.5</i>            | <i>100</i>  |   | <i>P</i> |
| Srontium   |                     |                              |   |                       |          |                        |             |   |          |
| Thallium   |                     |                              |   |                       |          |                        |             |   |          |
| Vanadium   |                     |                              |   |                       |          |                        |             |   |          |
| Zinc       |                     |                              |   |                       |          |                        |             |   |          |

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

**POST DIGEST SPIKE SAMPLE RECOVERY (5B)**

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-255-1  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-255-0  
 IC Matrix: (soil/water) WATER Level (low/med): LOW

Concentration Units: ug/L

| ANALYTE    | CONTROL LIMIT %R | SPIKE SAMPLE RESULT (SSR) |   | SAMPLE RESULT (SR) |   | SPIKE ADDED (SA) | %R   | Q | M |
|------------|------------------|---------------------------|---|--------------------|---|------------------|------|---|---|
|            |                  |                           | C |                    | C |                  |      |   |   |
| Aluminum   |                  |                           |   |                    |   |                  |      |   |   |
| Antimony   |                  |                           |   |                    |   |                  |      |   |   |
| Arsenic    |                  |                           |   |                    |   |                  |      |   |   |
| Barium     |                  | 9990                      |   | 434                |   | 10400            | 91.9 |   | P |
| Beryllium  |                  |                           |   |                    |   |                  |      |   |   |
| Boron      |                  |                           |   |                    |   |                  |      |   |   |
| Cadmium    |                  | 975                       |   | 0.7                | U | 1050             | 92.8 |   | P |
| Chromium   |                  | 4970                      |   | 0.3                | U | 5430             | 91.5 |   | P |
| Cobalt     |                  |                           |   |                    |   |                  |      |   |   |
| Copper     |                  |                           |   |                    |   |                  |      |   |   |
| Iron       |                  |                           |   |                    |   |                  |      |   |   |
| Lead       |                  | 4930                      |   | 215                |   | 5210             | 90.5 |   | P |
| Manganese  |                  |                           |   |                    |   |                  |      |   |   |
| Mercury    |                  |                           |   |                    |   |                  |      |   |   |
| Molybdenum |                  |                           |   |                    |   |                  |      |   |   |
| Nickel     |                  |                           |   |                    |   |                  |      |   |   |
| Selenium   |                  |                           |   |                    |   |                  |      |   |   |
| Silver     |                  | 95.5                      |   | 1.9                | U | 93.5             | 102  |   | P |
| Srontium   |                  |                           |   |                    |   |                  |      |   |   |
| Thallium   |                  |                           |   |                    |   |                  |      |   |   |
| Vanadium   |                  |                           |   |                    |   |                  |      |   |   |
| Zinc       |                  |                           |   |                    |   |                  |      |   |   |

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

# DUPLICATES (6)

Lab Name: *Analytical Services Corp*      Contract: *NEESA*      EPA Sample #: *CL5-ESS-1*  
 Lab Code: *NA*      Case #: *NA*      SAS #: *NA*      SDG #: *CL5-ESS-01*  
 Matrix: (soil/water) *WATER*      % Solids for Sample: *NA*  
 Level (low/med): *LOW*      % Solids for Duplicate: *NA*

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    |               |            |   |               |   |     |   |   |
| Barium     |               | 927        |   | 931           |   | 0.4 |   | P |
| Beryllium  |               |            |   |               |   |     |   |   |
| Boron      |               |            |   |               |   |     |   |   |
| Cadmium    |               | 1.5        | B | 0.4           | U |     |   | P |
| Chromium   |               | 4.1        | U | 0.7           | U |     |   | P |
| Cobalt     |               |            |   |               |   |     |   |   |
| Copper     |               |            |   |               |   |     |   |   |
| Iron       |               |            |   |               |   |     |   |   |
| Lead       |               | 32.5       |   | 17.0          | U |     |   | P |
| Manganese  |               |            |   |               |   |     |   |   |
| Mercury    |               |            |   |               |   |     |   |   |
| Molybdenum |               |            |   |               |   |     |   |   |
| Nickel     |               |            |   |               |   |     |   |   |
| Selenium   |               |            |   |               |   |     |   |   |
| Silver     |               | -1.2       | U | 0.7           | U |     |   | P |
| Strontium  |               |            |   |               |   |     |   |   |
| Thallium   |               |            |   |               |   |     |   |   |
| Vanadium   |               |            |   |               |   |     |   |   |
| Zinc       |               |            |   |               |   |     |   |   |

# DUPLICATES (6)

0110

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-655-1

Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-655-0

Matrix: (soil/water) WATER % Solids for Sample: NA

Level (low/med): LOW % Solids for Duplicate: NA

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    |               |                       |   |                       |   |     |   |   |
| Barium     |               | 375                   |   | 374                   |   | 0.3 |   | P |
| Beryllium  |               |                       |   |                       |   |     |   |   |
| Boron      |               |                       |   |                       |   |     |   |   |
| Cadmium    |               | 1.4                   | B | -φ                    |   |     |   | P |
| Chromium   |               | 3.0                   | U | -1.0                  | U |     |   | P |
| Cobalt     |               |                       |   |                       |   |     |   |   |
| Copper     |               |                       |   |                       |   |     |   |   |
| Iron       |               |                       |   |                       |   |     |   |   |
| Lead       |               | 27.1                  |   | 8.0                   | U |     |   | P |
| Manganese  |               |                       |   |                       |   |     |   |   |
| Mercury    |               |                       |   |                       |   |     |   |   |
| Molybdenum |               |                       |   |                       |   |     |   |   |
| Nickel     |               |                       |   |                       |   |     |   |   |
| Selenium   |               |                       |   |                       |   |     |   |   |
| Silver     |               | <sup>0.9</sup><br>3.7 | U | <sup>0.9</sup><br>3.5 | U |     |   | P |
| Strontium  |               |                       |   |                       |   |     |   |   |
| Thallium   |               |                       |   |                       |   |     |   |   |
| Vanadium   |               |                       |   |                       |   |     |   |   |
| Zinc       |               |                       |   |                       |   |     |   |   |