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02.08-03/01/97-02289

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 thorugh 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

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

Reviewed and Approved by: T E Gran *Date:* 5/31/94

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

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
Acids by IC (Cl, NO_3, PO_4 and SO_4)	CAWW	300.0
Test Bulking	ASTM	D5058
BTU/lb	ASTM	D240-76
Bulk Density	ASTM	D5057
RCRA Characteristics		
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
Metals		
Total Metals	SW-846	6010
Organics		
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
Total Petroleum Hydrocarbons (TPHC) by GC		
Total Volatile Hydrocarbons (TVH) by GC	SW-846	8015
Total Extractable Hydrocarbons (TEH) by GC	SW-846	8100
RCRA TCLP		
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

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)

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)

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)

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

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

Test Bulking Results

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

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

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~[illegible]~~ NA

DW No.: NA

EPA Sample No.	Lab Sample ID.
CL-528	JM 3557
CL-529	JM 3558
CLJ-DS-06	JM 3559
CLJ-DS-07	JM 3560
CLJ-DS-09D	JM 3561
CLJ-DS-08	JM 3562
CLJ-DS-09	JM 3563
CL-527	JM 3564

COMMENTS: See SDG Narrative

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

Signature: J. Hinatour **Name:** Joseph Hinatour

Date: 5/26/94 **Title:** Operations Manager

CONVENTIONAL ANALYSIS DATA SHEET (1) 0009

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** C1527

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA ~~C1528~~

Matrix: (soil/water) Soil **Level:** (low/med) MED **Lab Sample ID:** JM3564

% Solids: 74.3 **Date Received:** 02/18/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Chloride	31.5	B		IC
	Nitrate as N	2.50	B		IC
	Phosphate as P	3.26	U		IC
	Sulfate	169			IC
	BTU/lb	1110.			BTU
	Density gm/cc	.570			DE

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** LFESA **EPA SAMPLE #:** C1528

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA ~~C1528~~

Matrix: (soil/water) SOIL **Level:** (low/med) ~~LOW~~ MED **Lab Sample ID:** JM3557

% Solids: 74.5 **Date Received:** 02/18/9

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>160			FP
	pH (Electrode)	7.00			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** LEEA **EPA SAMPLE #:** C6529

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~[illegible]~~

Matrix: (soil/water) Soil **Level:** (low/med) ~~[illegible]~~ NA **Lab Sample ID:** JM3558

% Solids: 74.5 **Date Received:** 02/18/9[illegible]

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	6.56			PH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** LEBA **EPA SAMPLE #:** [illegible]

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** [illegible]

Matrix: (soil/water) soil **Level:** (low/med) MED **Lab Sample ID:** JM 3559

% Solids: 83.2 **Date Received:** 02 / 18 / 9[illegible]

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	7.00			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-0545

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

Matrix: (soil/water) Soil **Level:** (low/med) ~~LOW~~ MED **Lab Sample ID:** JM 3560

% Solids: 87.2 **Date Received:** 02 / 18 / 9

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		~~RC~~
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	7.03			PH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** [illegible]

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

Matrix: (soil/water) Soil **Level:** (low/med) ~~Low~~ MED **Lab Sample ID:** JM 3561

% Solids: 83.5 **Date Received:** 02/18/[illegible]

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	7.05			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** LEESA **EPA SAMPLE #:** [illegible]

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** [illegible]

Matrix: (soil/water) Soil **Level:** (low/med) MED **Lab Sample ID:** JM 3562

% Solids: 85.3 **Date Received:** 02/18/9[illegible]

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	[illegible]	U		RC
	Reactive Sulfide	[illegible]	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	6.40			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** WJ-DS-09

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

Matrix: (soil/water) Soil **Level:** (low/med) LOW **Lab Sample ID:** JM3563

% Solids: 98.8 **Date Received:** 02/18/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	5.63			PH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** C1558

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									0.000	U	RC
Reactive Sulfide									0.000	U	RS

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** [illegible]

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

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	50-100	299		.000		360	83		RS

COMMENTS:

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** 06528

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

Matrix: (soil/water) SOIL **Level** (low/med): MED **% Solids for Sample:** 94.5

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		144		.000	U	188	77		RC
Reactive Sulfide									

COMMENTS:

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEEA **EPA Sample #:** [illegible]

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		144		122.7	U	16		RC
Reactive Sulfide								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** [illegible]

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

Matrix: (soil/water) SOIL **% Solids for Sample:** 58.8

Level (low/med): MED **% Solids for Duplicate:** 58.8

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		200	U	0		RS

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** LEESA

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

Solid LCS Source: _____ **Aqueous LCS Source:** CU-005

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide	153	116	61.7						
Reactive Sulfide									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** DESF

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

Solid LCS Source: _____ **Aqueous LCS Source:** CU-0039

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide									
Reactive Sulfide	50.0	49.9	99.8						

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-12

Concentration Units: ug/L

Analyte	INITAL 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			IC
Nitrate as N	2.26	2.16	95.6	2.26	2.31	102			IC
Phosphate as P	3.26	3.05	93.6	3.26	3.12	95.7			IC
Sulfate	10.0	9.46	94.6	10.0	9.56	95.6			IC

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

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NESCA **Lab Code:** NA

Case #: NA **SAS #:** NA **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 1	C	2	C	3	C	Preparation Blank	C	M
Chloride									0	B	IC
Nitrate as N									0	U	IC
Phosphate as P									0	U	IC
Sulfate									.270	B	IC

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* **Contract:** [illegible] **EPA Sample #:** [illegible]

Lab Code: [illegible] **Case #:** [illegible] **SAS #:** [illegible] **SDG #:** [illegible]

Matrix: (soil/water) [illegible] **Level** (low/med): [illegible] **% Solids for Sample:** [illegible]

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		9.47		[illegible]	B	5.00	132		IC
Nitrate as N		1.30		[illegible]	B	1.13	169		IC
Phosphate as P		[illegible]		[illegible]	B	1.63	98.0		IC
Sulfate		[illegible]		[illegible]		5.00	[illegible]		IC

COMMENTS:

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** [illegible] **EPA Sample #:** [illegible]

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		IC
Nitrate as N		1.36		1.31		1.53		IC
Phosphate as P		1.70		1.70		0		IC
Sulfate		16.09		16.10		.061		IC

LABORATORY CONTROL SAMPLE (7)

0028

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~[illegible]~~

Liquid LCS Source: MTD SPIKE INVLM. **Aqueous LCS Source:** _____

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Chloride	5.00	5.66	113						
Nitrate as N	1.13	1.20	106						
Phosphate as P	1.63	1.66	102						
Sulfate	5.00	5.36	107						

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

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: Hnatow **Name:** Joseph Hnatow

Date: 5/26/94 **Title:** Operations Manager

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527

Lab Name: ANALYTICAL SERVICE CORP. Contract: NEESA

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	3170			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	~~758~~ 5.10-94			
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:

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 True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	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	9329	101	4790	4774	99.7			
Beryllium	248	249	100	125	125	100			
Cadmium	2530	2568	102	1290	1319	102			
Calcium	23,100	23940	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	24020	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 True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
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

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Analytical Services Corp Contract: NCESA

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 True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
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			E
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

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

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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) 1	C	2	C	3	C	Preparation Blank	C	M
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	2.7	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	0.4	U					1.7	U	P
Copper	5.1	U	0.8	U					32.3		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	CV
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 Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	487000	481000	490000	484000	101	497000	482000	100
Antimony		895	34.2	952	106	48.5	911	102
Arsenic								
Barium		471	1.9	467	99.2	1.8	464	98.5
Beryllium		465	0	464	99.8	-0.1	466	100
Cadmium		874	-9.5	906	104	-10.4	905	104
Calcium	184000	227000	187000	228000	100	191000	228000	100
Chromium		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	104
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	448	100
Zinc		923	24.8	937	102	27.0	934	101

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

C6527

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

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	∅	L	P
Lead	75-125	151		205		20	∅		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	∅		P
Cyanide									

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

C6527

Lab Name: Analytical Services Corp Contract: NeesA

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	75-125	870.7		39.4		892	97.6		P
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

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6
DUPLICATES

EPA SAMPLE NO.

C6527

Lab Name: Analytical Services Corp Contract: Neesa

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		P
Antimony	1.5	1.23		0.16	U			P
Arsenic	20	72.06		71.94		0.2		E
Barium	20	358		350		2.3		P
Beryllium	20	0.609		0.602		1.2		P
Cadmium	0.5	-0.025	U	-0.018	U			
Calcium	20	569		608		6.6		P
Chromium	20	4.76		4.24		11.6		P
Cobalt	20	1.46		1.25		15.5		P
Copper	20	13.1		11.8		10.4		P
Iron	20	3170		1762		57.1	*	P
Lead	20	205		165		21.6	*	E
Magnesium	20	168		171		1.8		P
Manganese	20	17.8		14.0		23.9	*	P
Mercury	20	1.58		1.45		8.6		CV
Nickel	20	3.47		2.64		27.2	*	P
Potassium	20	383		373		2.6		P
Selenium	20	15.0		17.0		12.5		E
Silver	1.0	0.066	U	-0.095	U			P
Sodium	20	87.0		88.1		1.3		P
Thallium	20	-0.028	U	-0.020	U			P
Vanadium	20	9.4		8.62		8.7		P
Zinc	20	87.9		56.5		43.5	*	P
Cyanide								

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

TVBLK01

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: N2W3324W

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

Level: (low/med) low Date Received: 03/01/94

% Moisture: not dec. 0 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	Q
----NA----	Light hydrocarbons (C2-C10)	~~0~~ 4.0	U

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

TVSPK01

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: N2W5324WS

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

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

% Moisture: not dec. 0 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	Q
----NA----	Light hydrocarbons(C2-C10)	2070	

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-06MS

Lab Name: ASC Contract: NEESA

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: 02/18/94

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

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----NA----	Light hydrocarbons(C2-C10)	417000	

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

FORM I TVH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-06MSD

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: 2002

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: NA

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

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

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

FORM I TVH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

TVBLK01

Lab Name: ASC Contract: NEESA

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: 03/01/94

% Moisture: not dec. 0 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	Q
----NA----	Light hydrocarbons (C2-C10)	~~B~~ 4.0	U

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

TVSPK01

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: N2W3322WS

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

Level: (low/med) low Date Received: 03/18/94

% Moisture: not dec. 0 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	Q
----NA----	Light hydrocarbons(C2-C10)	2170	

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

FORM I TVH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

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

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

Matrix: (soil/water) soil Lab Sample ID: JM3560WS

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) ug/Kg	Q
----NA----	Light hydrocarbons(C2-C10)	16700	

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

FORM I TVH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-87m50

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: JM3568WR

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: 03/01/94

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	Q
----NA----	Light hydrocarbons(C2-C10)	16200	

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

FORM I TVH

EPA SAMPLE NO.

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: 02/18/94

% 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	Q
----NA----	Light hydrocarbons (C2-C10)	4.73	u

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

FORM I TVH

EPA SAMPLE NO.

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) 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	Q
----NA----	Light hydrocarbons (C2-C10)	~~0~~ 4.55	u

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-Ø6

Lab Name: ASC Contract: NEESA

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: Ø2/18/94

% Moisture: not dec. 11.2 Date Analyzed: Ø3/Ø1/94

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----NA----	Light hydrocarbons (C2-C10)	276000	

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

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: 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	Q
----NA----	Light hydrocarbons (C2-C10)	~~8~~ 4.30	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-07D

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: 02/17/94

% 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	Q
----NA----	Light hydrocarbons (C2-C10)	~~0~~ 4.6	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-CS-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: 02/18/94

% Moisture: not dec. 14.7 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	Q
----NA----	Light hydrocarbons (C2-C10)	4.64	U

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-09

Lab Name: ASC Contract: NEESA

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: 03/01/94

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	Q
----NA----	Light hydrocarbons(C2-C10)	0 4.0	U

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

FORM I TVH

TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: 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)	204000	276000	417000	69.0	30-130
	~~204000~~				30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Light hydrocarbons(C2-C10)	204000	387000	54.4	7.25	30	30-130

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

* Values outside of QC limits

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

COMMENTS:

TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: CLJ-DS-07MS

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

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Light hydrocarbons(C2-C10)	19400	16200	83.5	2.84	30	30-130

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

* Values outside of QC limits

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

COMMENTS:

TVH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

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

Blank Spike - EPA Sample No.: 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:

FORM III-BS TVH

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:

FORM III-BS TVH

EPA SAMPLE NO.

TVBLK01

TVH METHOD BLANK SUMMARY

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) ~~Y~~N 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): D4 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	CLJ-DS-06	Jm3559W	03-01-94	
02	CLJ-DS-06MS	Jm3559WS	03-01-94	
03	CLJ-DS-06MSD	Jm3559WR	03-01-94	
04	~~TVS~~ TVSFK01	N2W3324WS	03-01-94	
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

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FORM IV TVH

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: 188

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

Sulfur Cleanup: (Y/N) ~~Y~~N 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): D4 Instrument ID (2): D4

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	C5528	JM3557W	03/01/94	
02	C5529	JM3558W		
03	CLJ-DS-07	JM3560W		
04	CLJ-DS-07D	JM3561W		
05	CLJ-DS-08	JM3562W		
06	CLJ-DS-09	JM3563W		
07	CLJ-DS-07MS	JM3560WS		
08	CLJ-DS-07MSD	JM3560WR		
09	TVSPK01	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

page __ of __

FORM IV TVH

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): 2124

LAB FILE ID: CLOW = 204 CMEDL = 205
CMED = 206 CMEDH= 207 CHIGH = 208

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\overline{CF}$	% RSD
Light hydrocarbons(C2-C10)	2440000	1890000	2050000	1970000	1896000	2050000	11.2

TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: D4 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)	2050000	1790000	NA	12.7	15

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: 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)	2050000	1940000	NA	5.16	15

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	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons(C2-C10)	2058000	1940000	NA	5.49	15

FORM VII TVH

22.447	124713	BV	.340	1.42430
23.023	30415	VV	.246	.34736

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

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

C6528
JM3557W
N2W3322

ND

C.P.

TIMETABLE STOP

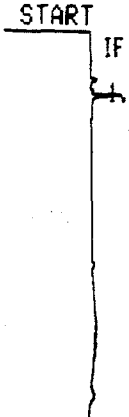
RUN# 190 MAR 1, 1994 11:29:00

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



JM3558W

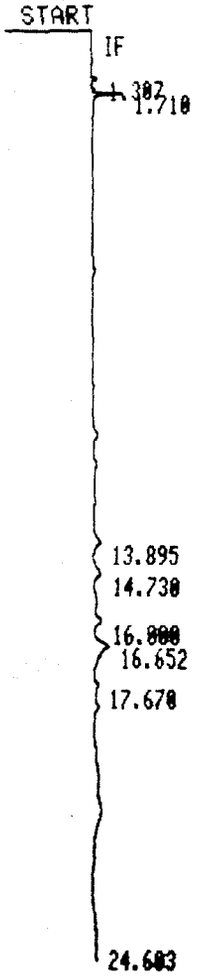
RUN# 190 MAR 1, 1994 11:29:00

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



C6529
JM3558W
N2W3322
E_A=66522

TIMETABLE STOP

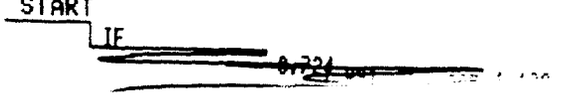
RUN# 191 MAR 1, 1994 12:11:57

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.307	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



TIMETABLE STOP

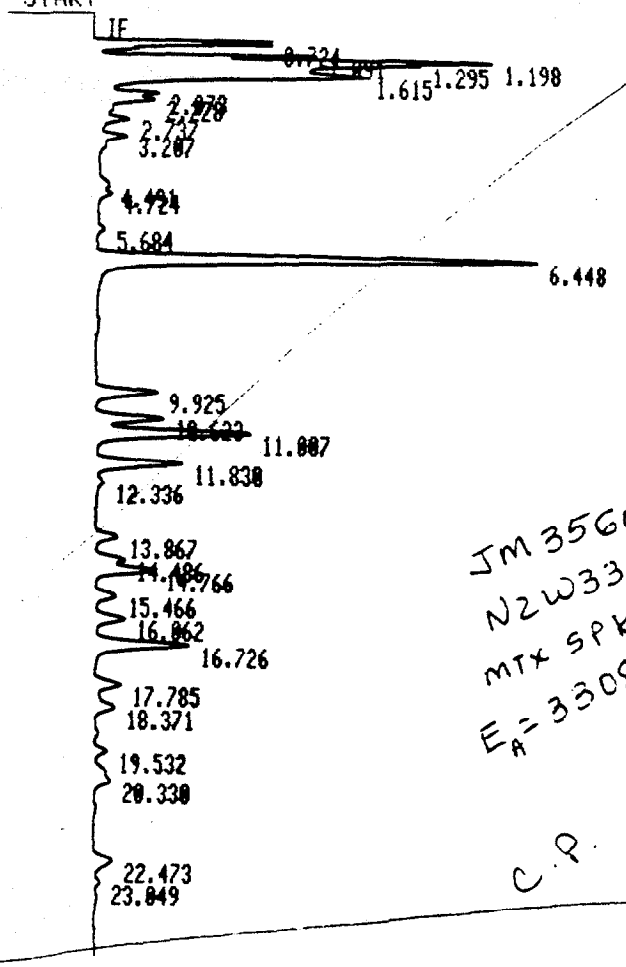
RUN# 191 MAR 1, 1994 12:11:57

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.307	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



JM 3560WS
N2W3322
MTX SPK DUP
E_A=3308669

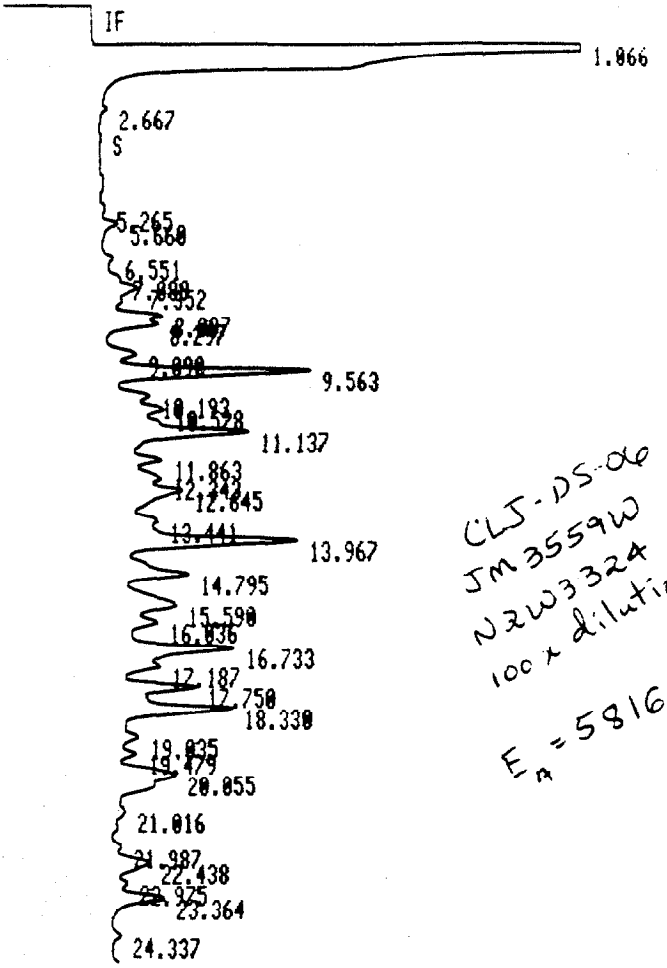
C.P.

TIMETABLE STOP

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

TOTAL AREA=8.8288E+06
MUL FACTOR=1.0000E+00

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



CLJ-DS-06
JM3559W
N2W3324
100 x dilution

E_a = 5816492

TIMETABLE STOP

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	.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	.92586
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

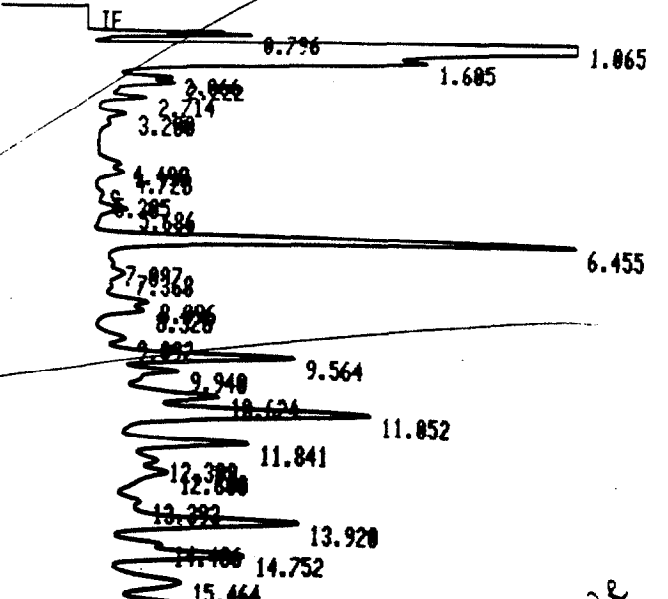
RUN# 201 MAR 1, 1994 19:26:25

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	.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
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

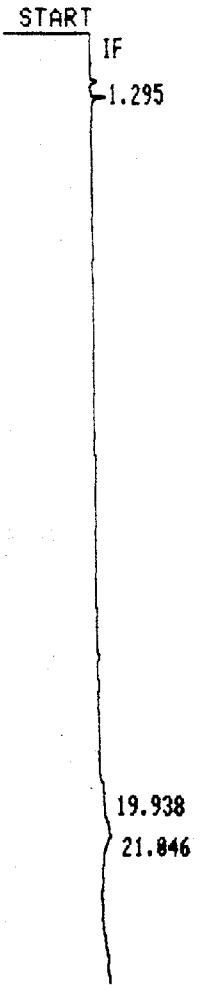
* RUN # 202 MAR 1, 1994 20:09:19
START



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	BV	.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

TOTAL AREA=7688874
MUL FACTOR=1.0000E+00

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



CLJ-DS-07
JM3560W
N2W3322

ND
C.P.

TIMETABLE STOP

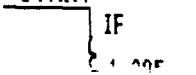
RUN# 194 MAR 1, 1994 14:20:34

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



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
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	151500	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

CLJ-DS-07D
JM 3561W
N2W3322

ND

C.P.

20.424
21.117

24.141

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
E_A=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

START

IF

1.290
1.689

CLJ-DS-Ø9
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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

TEBLK01

Lab Name: ASC Contract: NEESA

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	Q
--NA------	Medium hydrocarbons (C10-C21)	3,300	U
--NA------	Heavy hydrocarbons (C21-C40)	2,350	J

FORM I TEH

EPA SAMPLE NO. 0075

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TESK01

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

Matrix: (soil/water) soil Lab Sample ID: ~~AS~~ NQF4017OFS

Sample wt/vol: 30. (g/mL) g Lab File ID: 259534/560

% 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: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	2020D	
--NA------	Heavy hydrocarbons (C21-C40)	16,600	u

FORM I TEH

EPA SAMPLE NO. 6528MS

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: JM3557FS

Sample wt/vol: 30.4 (g/mL) g Lab File ID: ~~JS3557~~ JS9361562

% 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) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	618000	
--NA------	Heavy hydrocarbons (C21-C40)	3050000	

EPA SAMPLE NO.

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) soil Lab Sample ID: JM3557FR

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 7S9537/563

% 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) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	372000	
--NA------	Heavy hydrocarbons (C21-C40)	1670000	

FORM I TEH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CU528

Lab Name: ASC Contract: NEESA

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: 7S9535/561

% 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) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	482000	
--NA------	Heavy hydrocarbons (C21-C40)	2360000	

FORM I TEH

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA | C65D9 |

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

Matrix: (soil/water) soil Lab Sample ID: JN3558

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) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	9700	
--NA------	Heavy hydrocarbons (C21-C40)	90800	

EPA SAMPLE NO.

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: JM3559

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 59540/566

% 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	Q
--NA------	Medium hydrocarbons (C10-C21)	344000	
--NA------	Heavy hydrocarbons (C21-C40)	2180000	

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

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: JU3560

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 15954/1567

% 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	Q
--NA------	Medium hydrocarbons (C10-C21)	58100	
--NA------	Heavy hydrocarbons (C21-C40)	199000	

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PLJDS 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: CS9542/568

% 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: (ug/L or ug/Kg) ug/Kg	Q
--NA------	Medium hydrocarbons (C10-C21)	27800	
--NA------	Heavy hydrocarbons (C21-C40)	103000	

EPA SAMPLE NO.

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) soil Lab Sample ID: JM3562

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159543/1569

% 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: x 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	Q
--NA------	Medium hydrocarbons (C10-C21)	137000	J
--NA------	Heavy hydrocarbons (C21-C40)	2150000	

EPA SAMPLE NO. 0084

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: JW3563

Sample wt/vol: 30.2 (g/mL) g Lab File ID: ~~15995~~ 15994/570

% 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	Q
--NA------	Medium hydrocarbons (C10-C21)	3310	u
--NA------	Heavy hydrocarbons (C21-C40)	4570	J

FORM I TEH

TEH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Med hydrocarbons(C10-C21)	27600	482000	618000	495	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Med hydrocarbons(C10-C21)	27600	* 372000	0	49.8	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 limits

COMMENTS: Sample at high concentration, had to re-run at 100x dilution

TEH 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.: 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)	20200	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:

EPA SAMPLE NO.

TEH METHOD BLANK SUMMARY

TEBLK01

Lab Name: ASC Contract: NEESA

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

Lab Sample ID: N2F4017C.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	C6526	JM3557	3/4/94	NA
02	C6526MS	JM3557MS	↓	↓
03	C6526MSD	JM3557MSD		
04	C6529	JM3558		
05	CLJ-DS-06	JM3559		
06	CLJ-DS-07	JM3560		
07	CLJ-DS-07D	JM3561		
08	CLJ-DS-08	JM3562		
09	CLJ-DS-09	JM3563		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: _____

page __ of __

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): 02/16/94

Calibration Time (s): 1623 1953

LAB FILE ID: CLOW = ^S9424/368 CMEDL = ^S9425/369

CMED = ^S9426/370 CMEDH= ^S9427/371 CHIGH = ^S9428/372

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\overline{CF}$	% RSD
Medium hydrocarbons(C10-21)	14400	16800	18700	19200	20100	17800	12.8
Heavy hydrocarbons(C21-C40)	29800	26200	37000	35300	36900	33100	14.6

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: 0739

Lab File ID: K 558136 Initial Calib Date(s): 2/16/94

Initial Calib Times: 16:23 19:53

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons(C10-C21)	17800	16160	NA	9.91	
Heavy hydrocarbons(C21-C40)	33100	28000	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: 1S9538/564 Initial Calib Date(s): 2/16/94

Initial Calib Times: 16.23 19.53

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons(C10-C21)	17800	16800	NA	A 5.68	
Heavy hydrocarbons(C21-C40)	33100	34400	NA	4.00	

TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

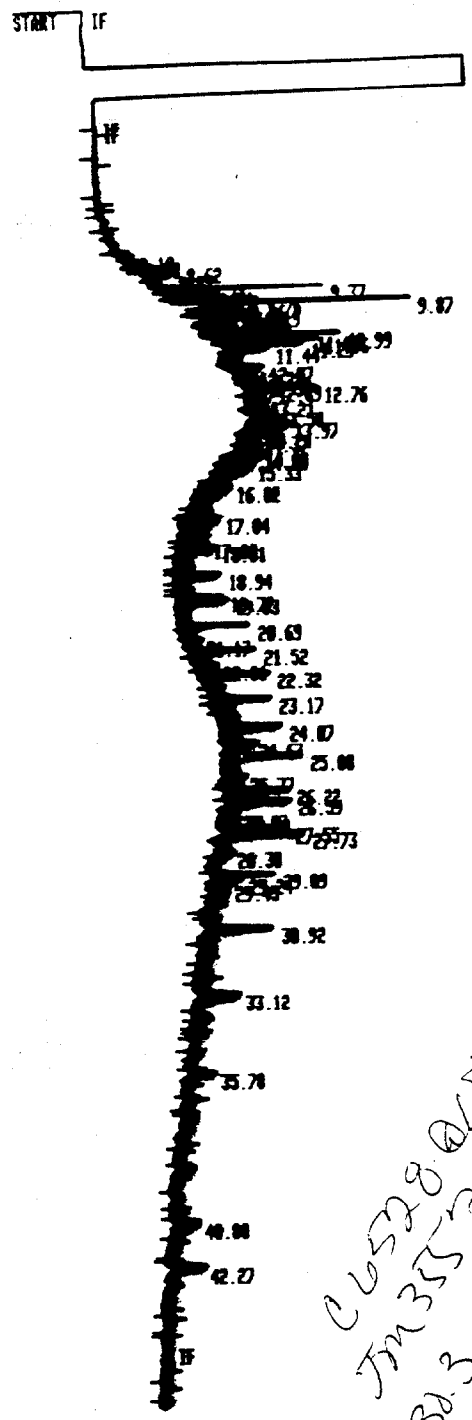
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: B1F Calibration Date: 03/04/94 Time: 2025

Lab File ID: ^S9545/571 Initial Calib Date(s): 02/16/94 _____

Initial Calib Times: 1623 1953

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



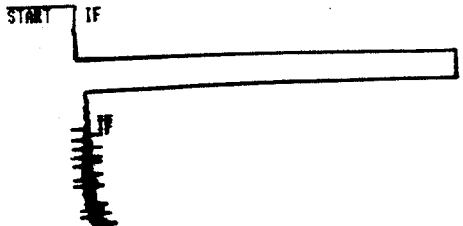
C6528 @ 1004
Jm355 7
30.3 → 1.0
Mul: 147

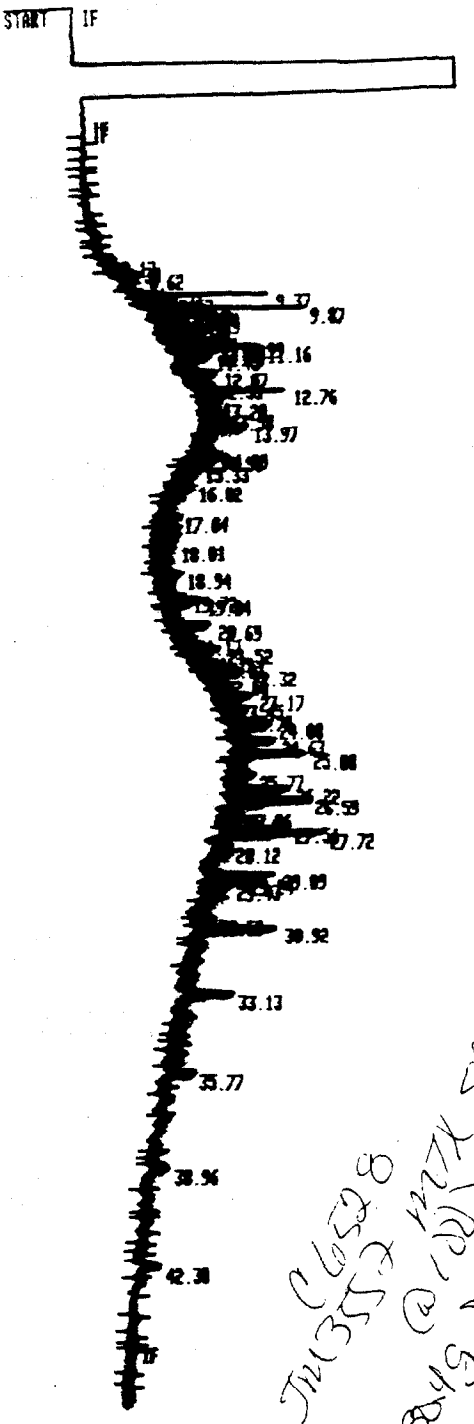
RUN # 561 MAR/04/94 11:43:58
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
12.61	2611200	++	0.045	45.586
30.07	3116800	++	0.069	54.414

TOTAL AREA= 5728000
MUL FACTOR= 1.0000E+00





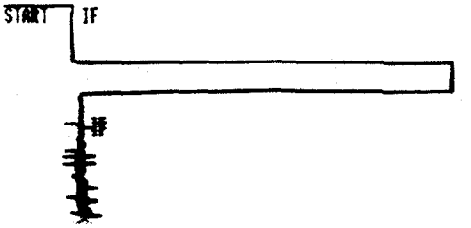
C6528
JM3557 MTX SPK
@100X
30.4g 7/Dmc
Mod: 188

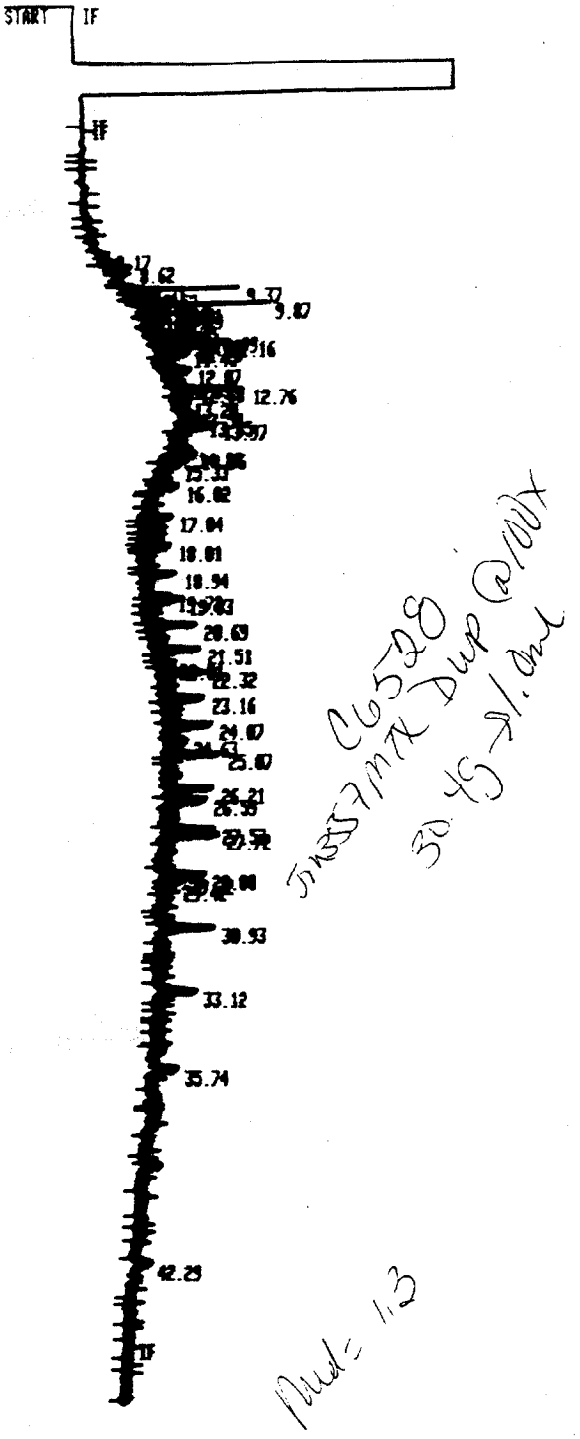
RUN # 562 MAR/04/94 12:35:40
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 4

AREA%

RT	AREA	TYPE	AR/WT	AREA%
12.60	1777500	++	0.045	34.672
30.15	3349100	++	0.080	65.328

TOTAL AREA= 5126600
MUL FACTOR= 1.0000E+00



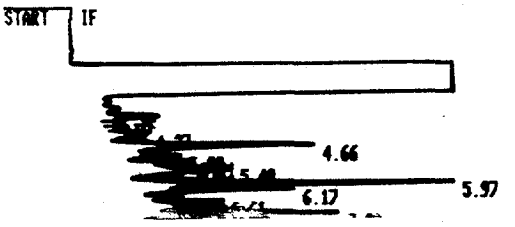


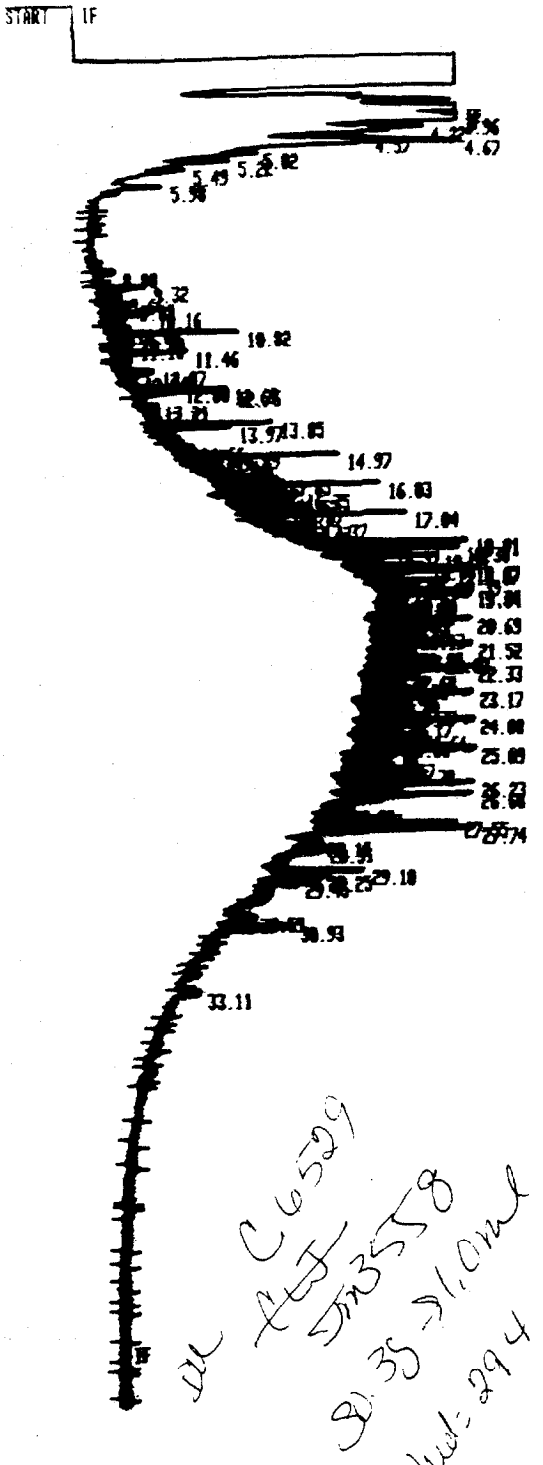
RUN # 563 MAR/04/94 13:27:38
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

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

TOTAL AREA= 3588000
MUL FACTOR= 1.0000E+00



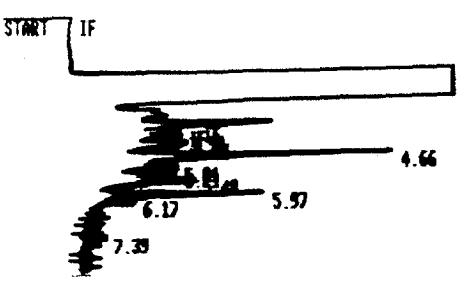


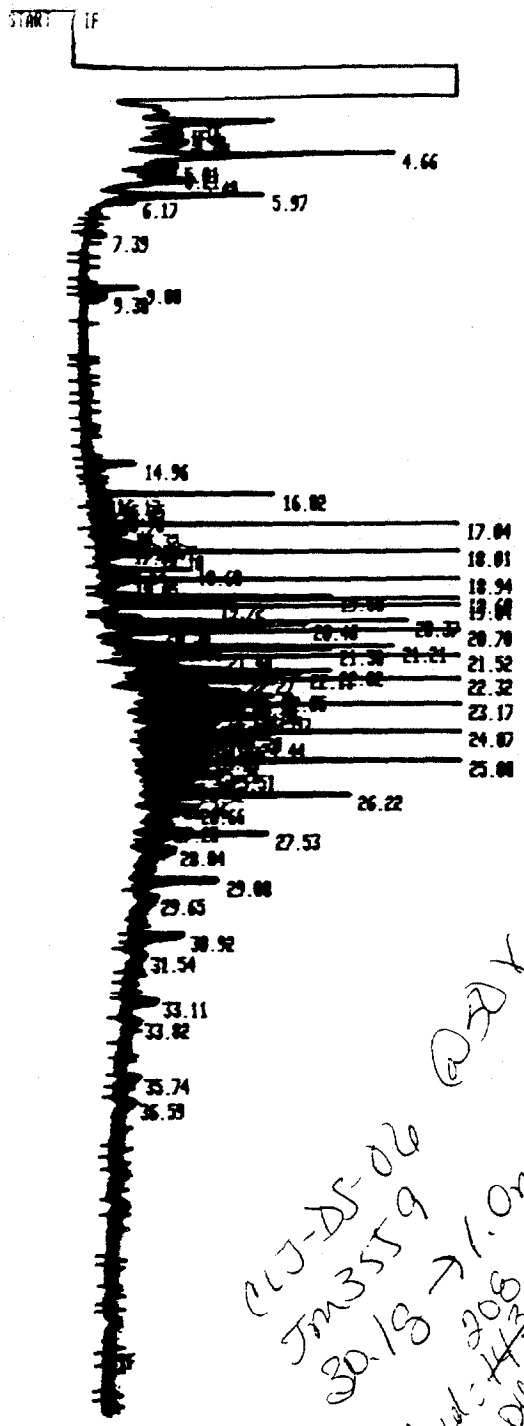
RUN # 565 MAR/04/94 15:14:37
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AREA%
10.58	5241200	++	0.058	21.629
25.24	1.8992E+07	++	0.050	78.371

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





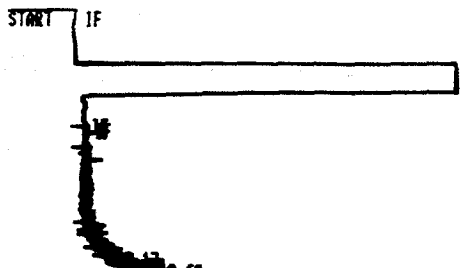
CLJ-DS-06 @ 30 X
Jm3559
30.18 → 1.0 ml
208
Mul: ~~1432~~
DLC
3-11-94

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

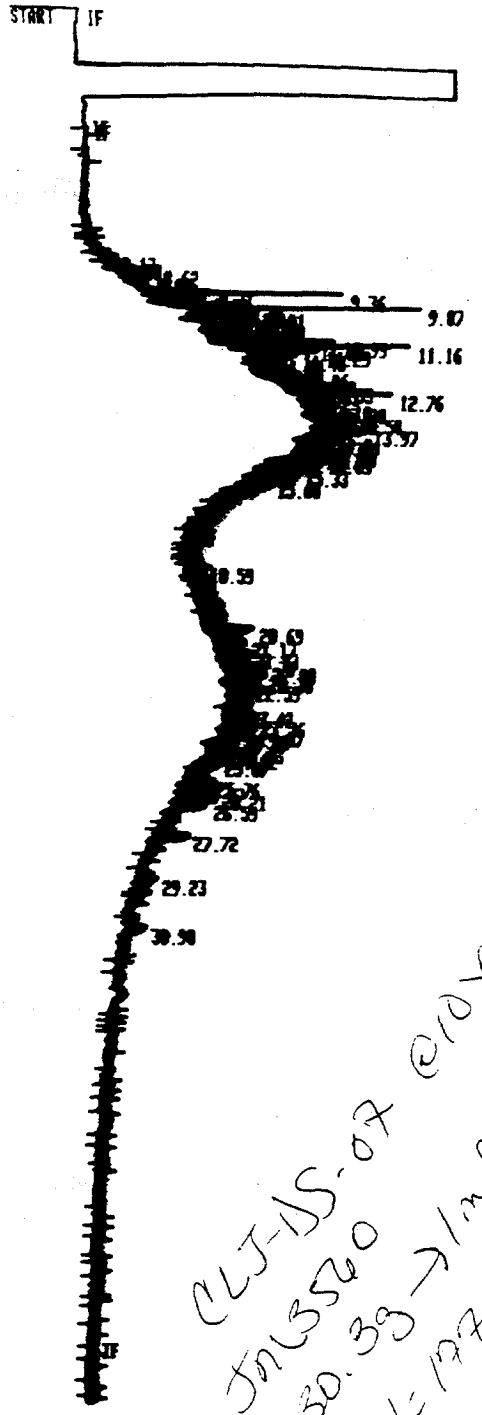
AREA%

RT	AREA	TYPE	AR/HT	AREA%
18.51	3703700	++	0.063	12.683
26.95	2.5498E+07	D ++	0.051	87.317

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



MUL FACTOR= 1.0000E+00



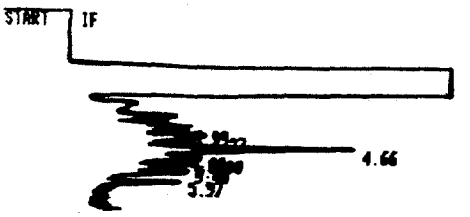
CLJ-DS-07 @10X
Jn 3560
30.3g → 1ml
Mul = 177

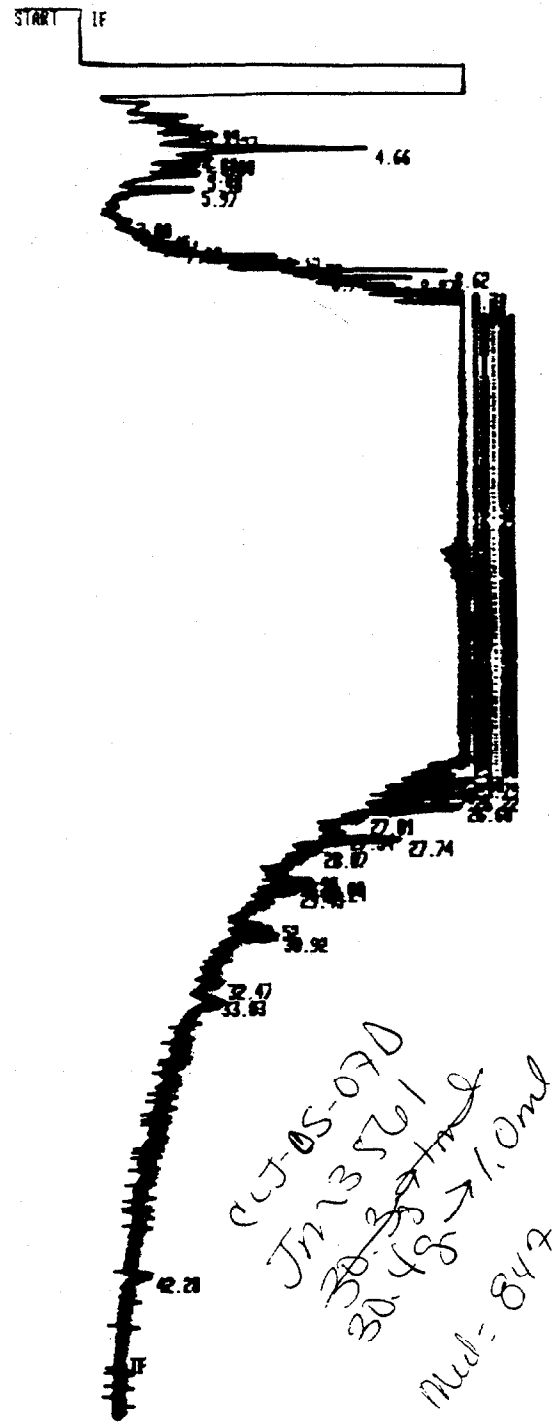
RUN # 567 MAR/04/94 16:58:07
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
11.92	3143800	++	0.044	67.642
24.74	1503900	++	0.079	32.358

TOTAL AREA= 4647700
MUL FACTOR= 1.0000E+00



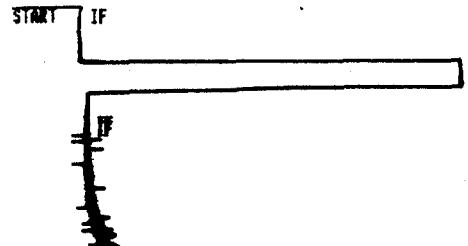


RUN # 560 MAR/04/94 17:49:40
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 4

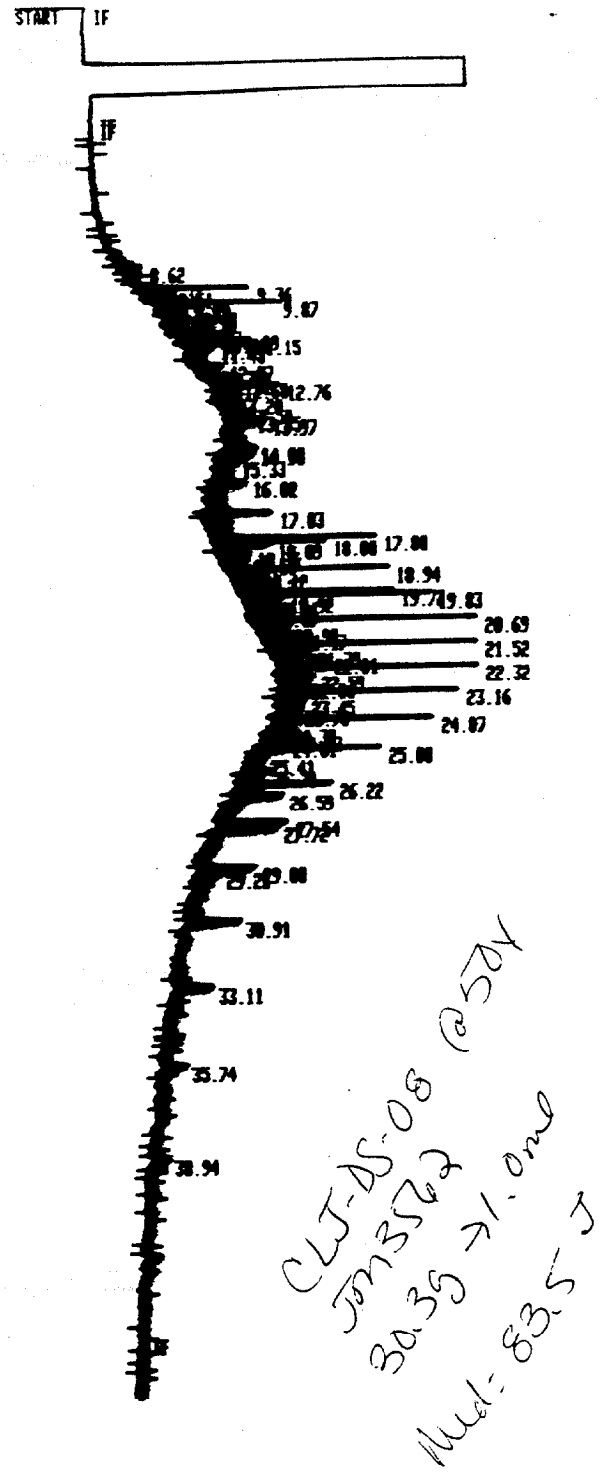
AREA%

RT	AREA	TYPE	AR/HT	AREA%
10.60	1.5068E+07	D ++	0.047	73.435
29.82	5450000	D ++	0.059	26.565

TOTAL AREA= 2.0519E+07
MUL FACTOR= 1.0000E+00



TOTAL AREA= 2.8519E+07
MUL FACTOR= 1.0000E+00

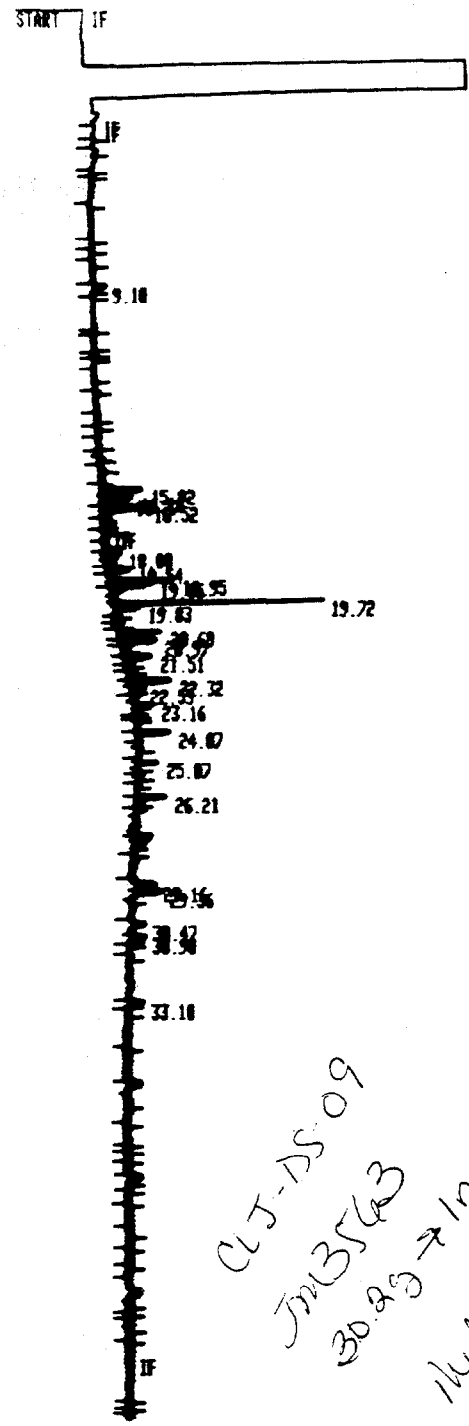


RUN # 569 MAR/04/94 18:41:33
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/HT	AREA%
12.82	1485500	++	0.043	20.868
28.41	5633000	++	0.853	79.132

TOTAL AREA= 7118500
MUL FACTOR= 1.0000E+00



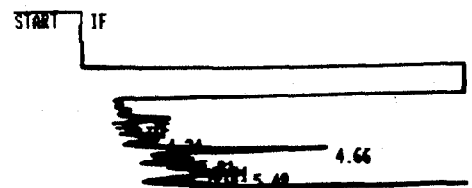
CLJ-DS-09
JM3563
30.2g → 1ml
Mud: 13.4 (a)
ND

RUN # 570 MAR/04/94 19:33:16
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 6

AREA%

RT	AREA	TYPE	AR/HT	AREA%
12.81	238410	++	0.046	14.520
25.55	1403500	++	0.053	85.480

TOTAL AREA= 1641900
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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	6.67	U
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	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.

PSPK01

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) SOIL Lab Sample ID: N2P40135PS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: ^Z4141

% 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: (ug/L or ug/Kg) ~~ug/Kg~~

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	6.67	U
319-85-7	beta-BHC	↓	↓
319-86-8	delta-BHC	↓	↓
58-89-9	gamma-BHC (Lindane)	34.9	
76-44-8	Heptachlor	27.6	
309-00-2	Aldrin	32.3	
1024-57-3	Heptachlor epoxide	6.67	U
959-98-8	Endosulfan I	↓	U
60-57-1	Dieldrin	86.0	
72-55-9	4,4'-DDE	6.67	U
72-20-8	Endrin	93.3	
33213-65-9	Endosulfan II	6.67	U
72-54-8	4,4'-DDD	↓	U
1031-07-8	Endosulfan sulfate	↓	U
50-29-3	4,4'-DDT	89.3	
72-43-5	Methoxychlor	6.67	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	133	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		

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: ^Z4142

% 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~~ DL 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		Q
319-84-6	alpha-BHC	330	U
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	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		

1D
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: AZ4143

% 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~~ DF 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		Q
319-84-6	alpha-BHC	330	U
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	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		
11096-82-5	Aroclor-1260		

1D
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: JM3564P

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

% 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~~ DL 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	331	U
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	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-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	PB1KC1	58.0*	69.6	130	149			1
02	PBPK01	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								
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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

PESTICIDE BLANK SPIKE RECOVERY

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	U	7.76	112	40-131
Heptachlor Epoxide	9.32	U	8.68	93.1	30-130
Toxaphene	316		360	114	30-130
Endrin	22.5	U	27.2	119	30-130
Methoxychlor					30-130
gamma-Chlordane	23.4	U	24.6	105	30-130
alpha-Chlordane	23.7	U	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	Ø	Ø	Ø *	46-127
Heptachlor	37.2	Ø	Ø	Ø *	35-130
Aldrin	45.0	Ø	Ø	Ø *	34-132
Dieldrin	83.2	Ø	Ø	Ø *	31-134
Endrin	88.4	Ø	Ø	Ø *	42-139
4,4'-DDT	64.0	24,500	~~15,700~~ DL	Ø *	23-134
			10,000	Ø *	

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	47.4	Ø	Ø *	NA *	50	46-127
Heptachlor	37.2	Ø	Ø *	*	31	35-130
Aldrin	45.0	Ø	Ø *	*	43	34-132
Dieldrin	83.2	Ø	Ø *	*	38	31-134
Endrin	88.4	Ø	Ø *	*	45	42-139
4,4'-DDT	64.0	15,700	Ø *	*	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 ~~mtrix~~ MS and MSD are diluted out ~~too~~ due to a high level of the analyte being in the original sample.

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO
PBLK01

Lab Name: ASC Contract: NEESA

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	PSPK01	NAP40135PS	3-22-94	3-22-94
02	C6527MS	JM3564PS	↓	↓
03	C6527MSD	JM3564PD	↓	↓
04	C6527	JM3564P	↓	↓
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

6D
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: 1 Level (x low): low 1.00 mid ~~2.5~~ 5.00 DL high 100

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW 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 ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA

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

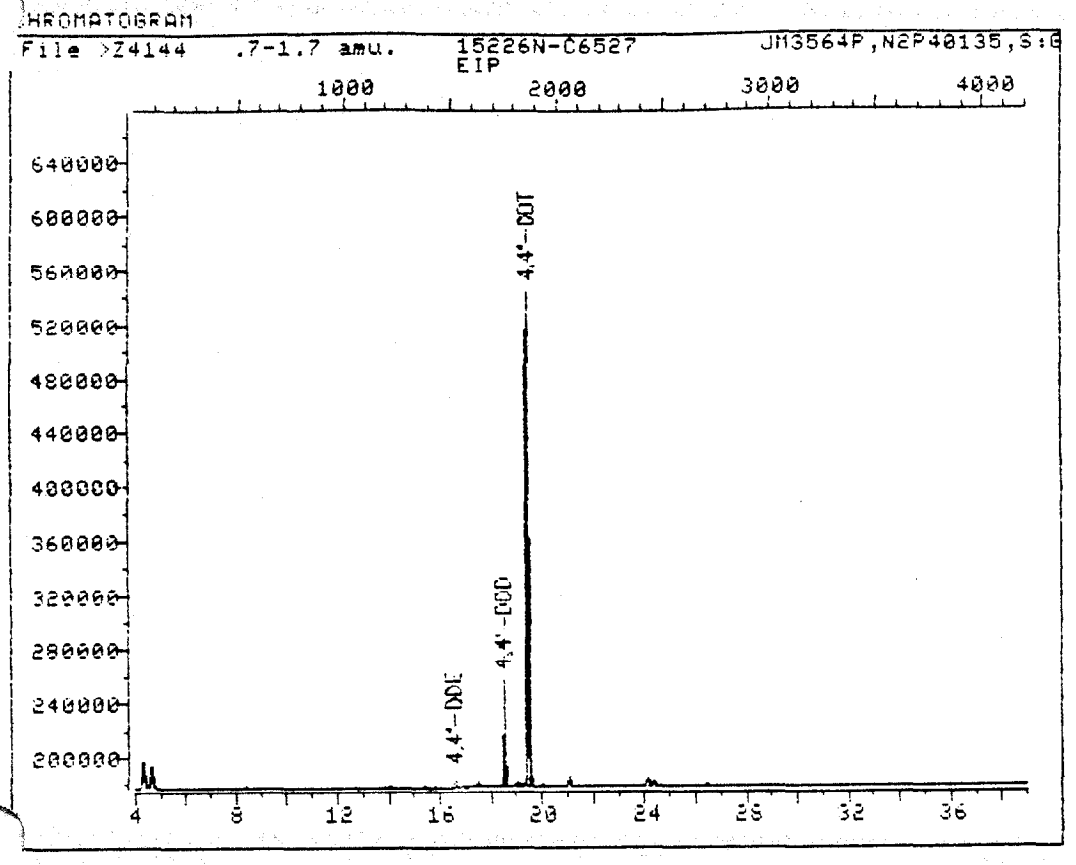
Instrument ID: 2 Level (x low): low 1.00 mid 5.00 high 100

GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW 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 ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.



Data File: >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 Qcal Time: <none>

Operator ID: USER1
Quant Time : 940322 18:10
Injected at: 940322 17:30

DL
3-23-94

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 940322 18:10
Output File: ^Z4144::D5 Injected at: 940322 17:30
Data File: >Z4144::D5 Dilution Factor: 10.00000
Name: 15226N-C6527 Instrument ID: Z
Misc: JM3564P,N2P40135,S:G1,30.2,2:50, 500X

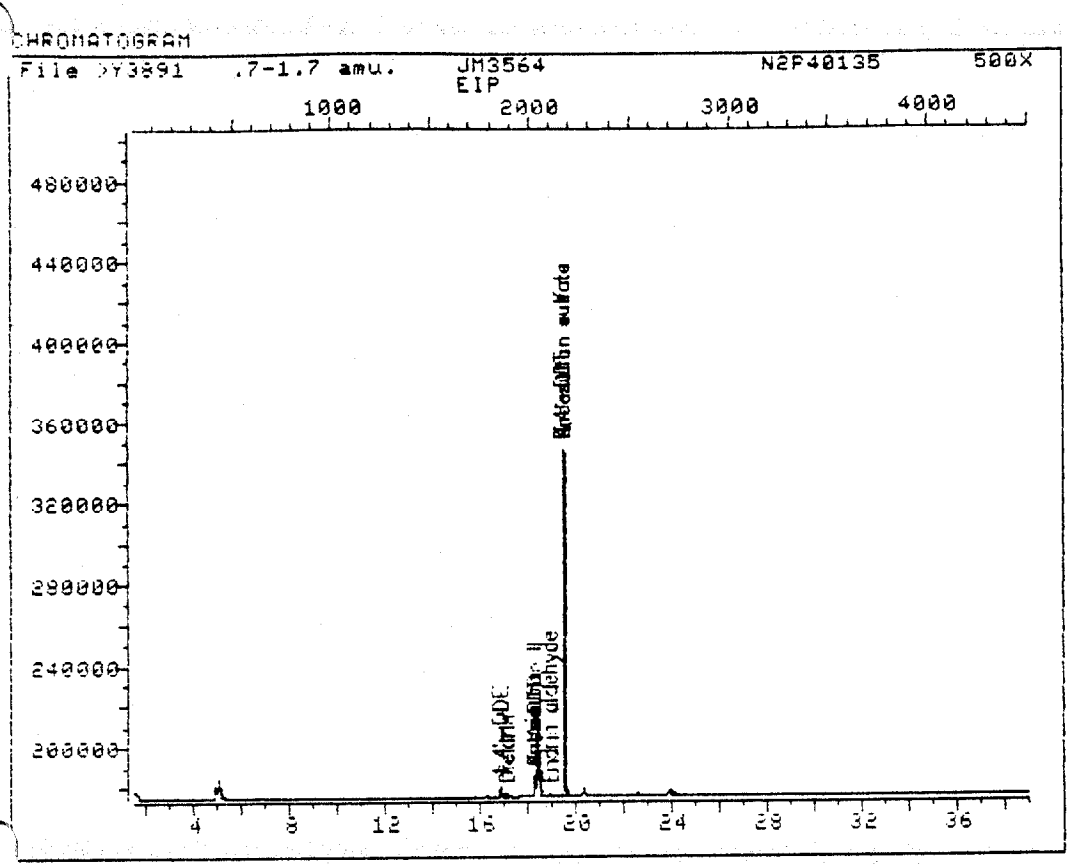
ID File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <none>

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

Compound uses ESTD

+ Confirmed present on DB-5 (Run# Y3891)

* Confirmed not present



Data File: >Y3891::D5
Name: JM3564
Misc: N2P40135 500X

Quant Output File: ^Y3891::D5
Instrument ID: Y

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

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

QUANT REPORT

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, B2R
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

EPA SAMPLE NO. **0116**

ORGANICS ANALYSIS DATA SHEET

BLK01

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) soil Lab Sample ID: N2P40139P

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A41878

% 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: ~~1.0~~ 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	250	U
11096-82-5-	Aroclor-1260	250	U

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

BSK01

Lab Name: ASC Contract: NEESA

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: A41879

% 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: ~~1.0~~ 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

EPA SAMPLE NO. 0118

ORGANICS ANALYSIS DATA SHEET

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: 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: ~~1.0~~ 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	250	U
11096-82-5-	Aroclor-1260	250	U

FORM I PEST

PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

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

GC Column(1): DB-~~608~~ 17 ID: .53 (mm) GC Column(2): ~~DB-5~~ NA 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				—
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: NEESA

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

Blank 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	325	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	QC LIMITS REC.
Aroclor 1254	—	—	—	—	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: _____ 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): 1851 Time Analyzed (2): _____

Instrument ID (1): A4F Instrument ID (2): _____

GC Column (1): DB 17 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	BLK01	N2P40139P	3/14/94	
02	BSK01	N2P40139PS	↓	
03	C6527	JM3564P	3/17/94	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

page __ of __

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	$\overline{CF}$	% RSD
Aroclor-1016	1200000	1190000	1160000	1150000	1110000	1160000	3.17
Aroclor-1221	399000	353000	355000	340000	319000	360000	8.92
Aroclor-1232	—	—	—	—	—	—	—
Aroclor-1242	946000	946000	937000	920000	876000	930000	3.74
Aroclor-1248	1050000	1020000	1030000	1010000	982000	1020000	2.51
Aroclor-1254	1490000	1450000	1280000	1430000	1240000	1380000	7.88
Aroclor-1260	1260000	1260000	1310000	1360000	1390000	1310000	4.50

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: 3/14/94 Time: 0722 - 1005

Lab File ID: _____ Initial Calib Date(s): 2/8/94 2/9/94

Initial Calib Times: 1232 0312

COMPOUND	$\overline{CF}$	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	930000	919000	NA	1.16	15
Aroclor-1248	1020000	975000	NA	4.39	15
Aroclor-1254	1350000	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

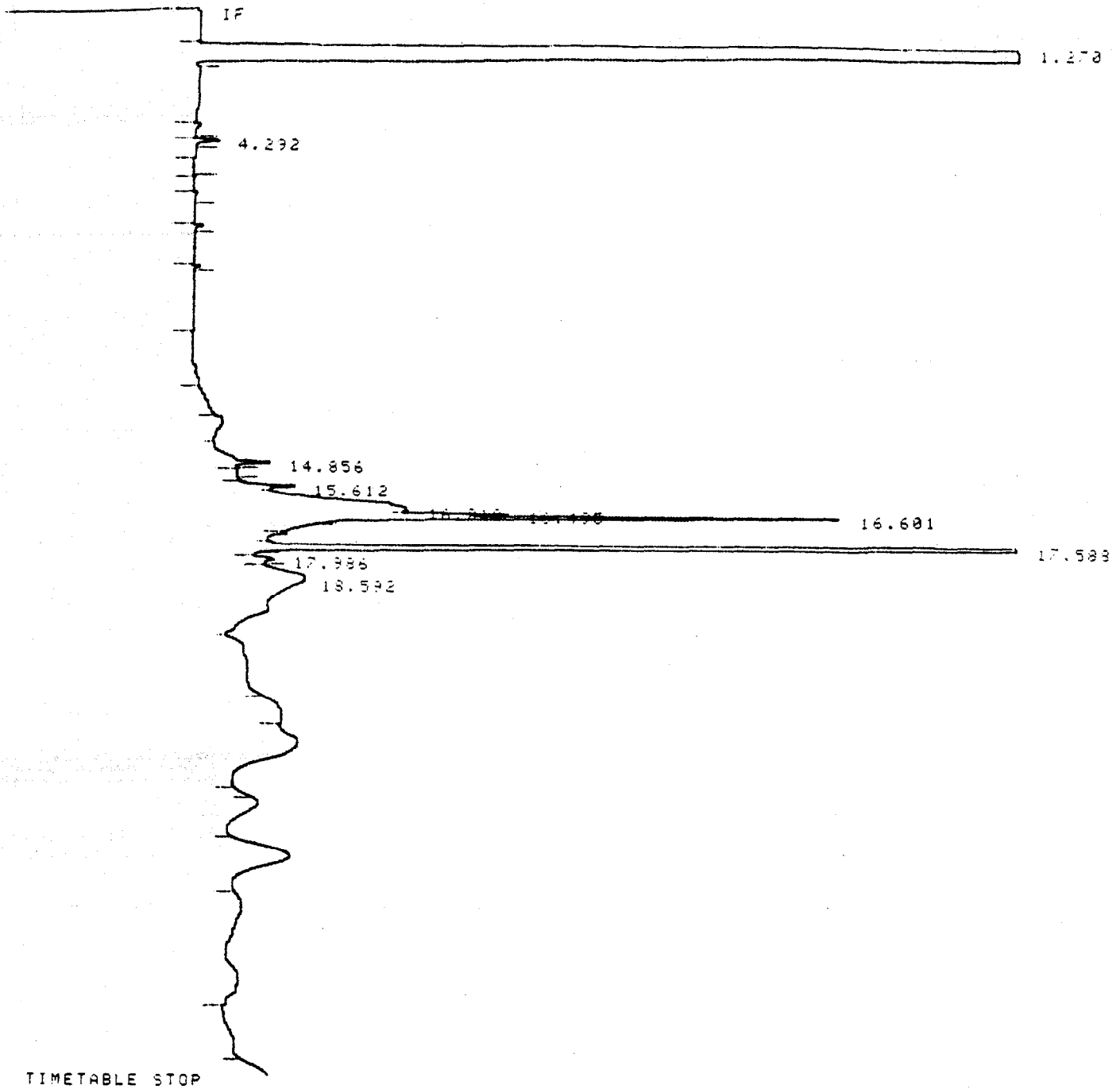
Lab File ID: _____ Initial Calib Date(s): 2/8/94 2/9/94

Initial Calib Times: 1232 0312

COMPOUND	$\overline{CF}$	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

* RUN # 1924 MAR 17, 1994 18:40:15

START



TIMETABLE STOP

RUN# 1924 MAR 17, 1994 18:40:15

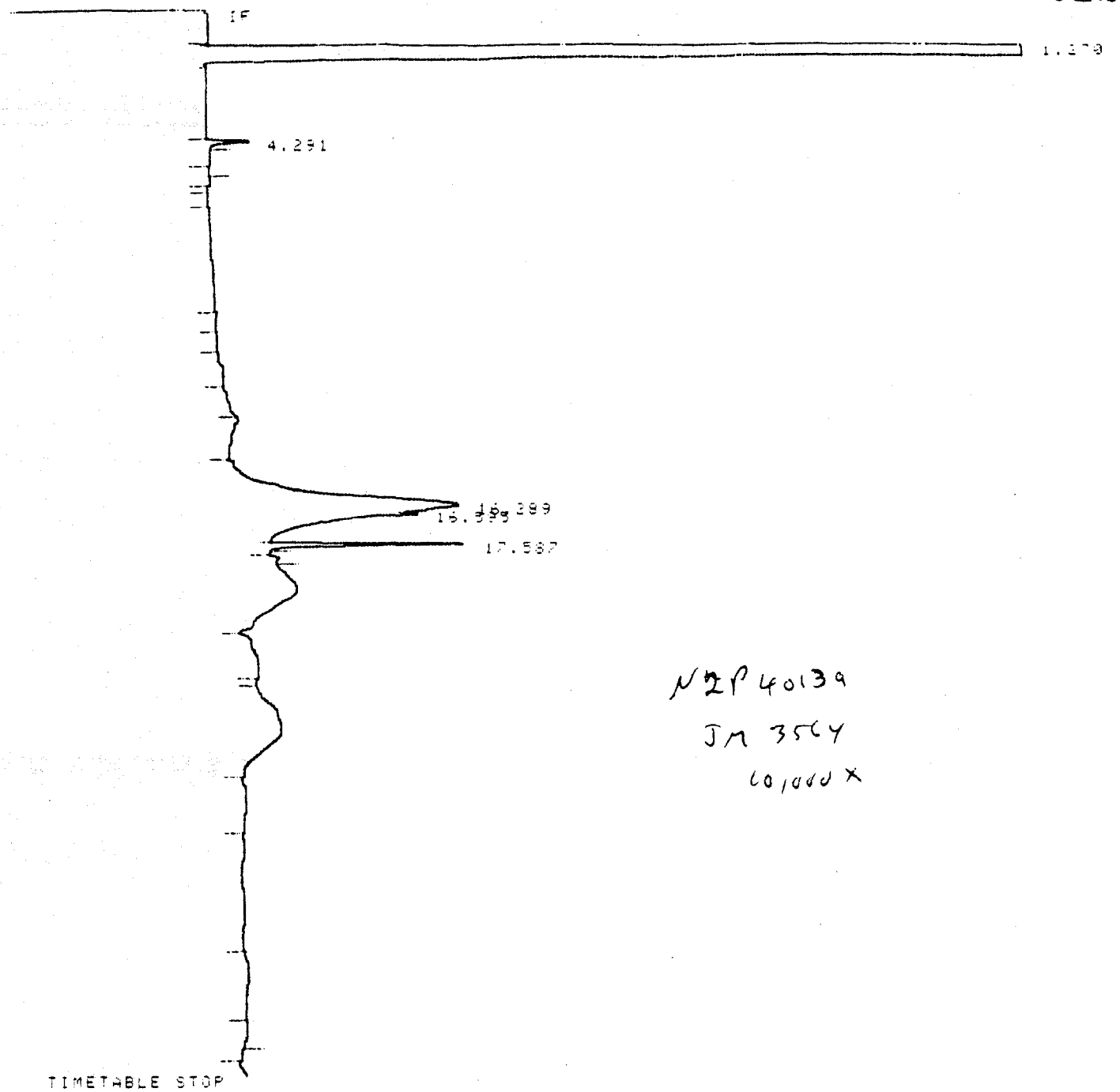
AREA%

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

TOTAL AREA=5826173
MUL FACTOR=1.0000E+00

N&P 40139
JR35LY
1000 X

* RUN # 1925 MAR 17, 1994 19:10:55
START



NZP 40139
JM 354
60,000 X

TIMETABLE STOP

RUN# 1925 MAR 17, 1994 19:20:55

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

* RUN # 1926 MAR 17, 1994 20:01:38
START

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name: ASC Contract: NEESA

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) ug/Kg	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	Acenaphthylene	332	U
606-20-2	2,6-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.

SBLK1

Lab Name: ASC Contract: NAESA

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) ug/Kg	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	330	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
117-81-7	bis(2-Ethylhexyl)phthalate	332	U
117-84-0	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.
SBLK1

Lab Name: ASC Contract: NEESA

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) 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.		Unknown	14.045	793	J
2.		Unknown brominated hydrocarbon	17.102	390	J
3.		Unknown	17.574	472	J
4.	103-23-1	Bis(2-ethylhexyl)ester Hexanedioic acid	24.160	397	J
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.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSPK 1

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) Soil Lab Sample ID: N2C401330S

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A1014

Level: (low/med) LOW Date Received: 02-8-94

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

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3-26-94

Injection Volume: 3.0 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
108-95-2	Phenol	2290	
111-44-4	bis(2-Chloroethyl)ether	353	
95-57-8	2-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	3450	
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.

SSPK1

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) Soil Lab Sample ID: N3C4L33CS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A1014

Level: (low/med) LOW Date Received: 03-18-94

% 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: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	3290	
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	J
87-86-5	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	
117-81-7	bis(2-Ethylhexyl)phthalate	2050	
117-84-0	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.

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: JM3564CS

Sample wt/vol: 30.5 (g/mL) g Lab File ID: A1016

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: ____

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	3770	
111-44-4	bis(2-Chloroethyl)ether	DL ~~3320~~ 3280	U
95-57-8	2-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	3340	
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.

J6527MS

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) Soil Lab Sample ID: JM3564CR

Sample wt/vol: 30.5 (g/mL) g Lab File ID: A1016

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: 20 (uL) Dilution Factor: 10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ~~ug/Kg~~	Q
51-28-5	2,4-Dinitrophenol	715	J
100-02-7	4-Nitrophenol	4300	
132-64-9	Dibenzofuran	3280	U
121-14-2	2,4-Dinitrotoluene	3780	
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	3280	
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	
118-74-1	Hexachlorobenzene	3280	U
87-86-5	Pentachlorophenol	5430	
85-01-8	Phenanthrene	3140	
120-12-7	Anthracene	3120	
86-74-8	Carbazole	4690	
84-74-2	Di-n-butylphthalate	5340	
206-44-0	Fluoranthene	3280	U
129-00-0	Pyrene	4590	
85-68-7	Butylbenzylphthalate	5180	
91-94-1	3,3'-Dichlorobenzidine	3280	U
56-55-3	Benzo(a)anthracene	4000 ~~3280~~ DL	~~U~~ D4
218-01-9	Chrysene	4130	
117-81-7	bis(2-Ethylhexyl)phthalate	(6500) ~~3280~~ DL	~~U~~ D4
117-84-0	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	1720	
193-39-5	Indeno(1,2,3-cd)pyrene	3280	U
53-70-3	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.

C6527MSD

Lab Name: ESC Contract: NEESA

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

Matrix: (soil/water) SOIL Lab Sample ID: JM3564CR

Sample wt/vol: 30.5 (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: ____

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	3360	
111-44-4	bis(2-Chloroethyl)ether	3290	U
95-57-8	2-Chlorophenol	2760	
541-73-1	1,3-Dichlorobenzene	3290	U
106-46-7	1,4-Dichlorobenzene	2460	
95-50-1	1,2-Dichlorobenzene	2420	
95-48-7	2-Methylphenol	993	
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	3230	
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	4030	
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	Acenaphthylene	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.
C6527MSD

Lab Name: ASC Contract: _____

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

Matrix: (soil/water) SOIL Lab Sample ID: JM350HCR

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: 2.0 (uL) Dilution Factor: 10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	3290	U
100-02-7	4-Nitrophenol	8090	
132-64-9	Dibenzofuran	3290	U
121-14-2	2,4-Dinitrotoluene	3360	
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	3970	
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	
117-81-7	bis(2-Ethylhexyl)phthalate	6880	
117-84-0	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.

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: 30.1 (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) ug/Kg	Q
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.

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: 30.1 (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) ug/Kg	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
117-81-7	bis(2-Ethylhexyl)phthalate	1450 ~~3320~~	~~U~~ J
117-84-0	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.	54832-83-6	Octahydro-2,2,4-1H-Indene	16.007	5390	J
2.	8017-34-3	Technical Chlorophenothane	24.421	3850	J
3.	0	Unknown Hydrocarbon	12.211	8490	J
4.	0	Unknown Hydrocarbon	17.948	2720	J
5.	0	Unknown Hydrocarbon	18.536	6980	J
6.	0	Unknown Hydrocarbon	21.343	4110	J
7.	0	Unknown Hydrocarbon	22.225	7450	J
8.	0	Unknown Hydrocarbon	23.040	15800	J
9.	0	Unknown Hydrocarbon	23.832	23200	J
10.	0	Unknown Hydrocarbon	24.330	3650	J
11.	0	Unknown Organic acid	21.003	4310	J
12.	0	Unknown	15.916	3380	J
13.	0	Unknown	16.616	2730	J
14.	0	Unknown	17.519	3320 ~~4490~~ (N)	J
15.	0	Unknown	17.609	6800 ~~2050~~ (A)	J
16.	0	Unknown	17.722	4210	J
17.	0	Unknown	22.610	5500	J
18.	0	Unknown Substituted aromatic	16.11	2640	J
19.	0	Unknown Substituted aromatic	16.45	7490	J
20.	0	Unknown Substituted aromatic	17.42	5460	J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
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	SBLK1	46.7	56.5	72.7	38.0	36.2	54.3			0
02	SBLK1BS	79.2	79.1	4[illegible]	66.0	72.6	100			0
03	C6527	115D	213D	73.8	112	97.6	89.3			2
04	C6527MS	162D	221D	84.9	126D	104	92.1			3
05	C6527MSD	150D	201D	87.3	117	88.4	92.2			2
06										
07										
08										
09										
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29										
30										

		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: NEESA

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

Blank Spike - EPA Sample No.: SSPK1

COMPOUND	SPIKE ADDED (ug/~~L~~kg)	BLANK CONCENTRATION ~~(ug/L)~~ ug/kg	BS CONCENTRATION ~~(ug/L)~~ ug/kg	BS % REC #	QC LIMITS REC.
Phenol	3330	0	2290	68.8	12-110
2-Chlorophenol	3330	0	2060	61.9	27-123
1,4-Dichlorobenzene	~~[illegible]~~ 3330	0	1460	43.8	36- 97
N-Nitroso-di-n-Prop.(1)	3330	0	1810	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
Acenaphthene	3330	0	1950	58.6	46-118
4-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: [illegible]

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

Matrix Spike - EPA Sample No.: C6527MS 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	14000	140	35-142
		0			

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS 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	7480	74.8	6.47	27	28-104
N-Nitroso-di-n-prop.(1)	100 000	11200	112	7.73	38	41-126
1,2,4-Trichlorobenzene	100 000	11500	* 115	3.42	23	38-107
4-Chloro-3-methylphenol	100 000	12800	128	0.784	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	JM3564	A1015	3-26-94
03	C6527MS	JM3564	A1016	3-26-94
04	C6527MSD	JM3564	A1017	3-26-94
05				
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COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (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
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	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	SStd20	SStd 20	A0998	3-26-94	8:34
02	SStd50	SStd 50	A0999	3-26-94	9:25
03	SStd80	SStd 80	A1000	3-26-94	10:16
04	SStd120	SStd 120	A1001	3-26-94	11:07
05	SStd160	SStd 160	A1002	3-26-94	11:58
06					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (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	SStd50	SStd50	A1004	3-26-94	1307
02	SBLK1	N2C40133	A1013	3-26-94	1934
03	SBLKBS	N2C40133	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
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6B
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-A Calibration Date(s): 03-26-94 03-26-94

Calibration Times: 0834 1158

LAB FILE ID: RRF20 = A0092 RRF50 = A0099
RRF80 = A1000 RRF120= A1007 RRF160= A1007

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% 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	1.30	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	*	1.60	1.51	1.45	1.42	1.45	1.49	4.6
N-Nitroso-di-n-propylamine	*	1.47	1.31	1.16	1.24	1.26	1.29	8.9
Hexachloroethane	*	0.755	0.701	0.634	0.699	0.687	0.696	6.19
Nitrobenzene	*	0.373	0.382	0.379	0.347	0.359	0.368	3.96
Isophorone	*	0.812	0.872	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	0.984	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	3.4
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	0.821	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	0.099	0.108	0.085	29.6
4-Nitrophenol		0.066	0.086	0.090	0.087	0.089	0.084	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: MSD-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	$\overline{RRF}$	% 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	0.242	0.233	0.255	0.237	5.18
4,6-Dinitro-2-methylphenol	0.073	0.098	0.097	0.098	0.093	0.092	11.6
N-Nitrosodiphenylamine (1)	0.414	0.402	0.389	0.395	0.364	0.394	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	0.923	0.776	0.775	0.759	0.577	0.762	16.1
Di-n-butylphthalate	1.54	1.32	1.04	0.804	0.618	1.07	35.2
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	0.911	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	0.995	1.034	1.13	1.34	1.11	12.2
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	0.949	0.895	0.750	0.969	16.7
Terphenyl-d14 *	1.05	1.01	1.02	1.01	0.897	0.997	5.81
Phenol-d5 *	1.40	1.40	1.31	1.33	1.45	1.38	3.85
2-Fluorophenol *	1.01	0.924	0.943	1.02	1.04	0.987	5.10
2,4,6-Tribromophenol	0.145	0.172	0.166	0.167	0.162	0.163	6.37
2-Chlorophenol-d4 *							
1,2-Dichlorobenzene-d4 *							

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

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD-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	$\overline{RRF}$	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	1.49	1.46	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	0.100	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	
Dibenzofuran	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	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.34	1.46		8.70	
4-Chlorophenyl-phenylether	0.617	0.656	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.

8B

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 (DA) Time Analyzed: 1307

		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	SB1K1	55411	10.20	224180	12.76	181868	16.70
02	SB1K1BS	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
06							
07							
08							
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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.

page 1 of 2

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	20.09	320434	26.42	202998	31.91
02 SBIK1RS	408434	20.10	270773	26.43	198450	31.95
03 C6527	*170858	20.10	*116910	26.41	*75789	31.95
04 C6527MS	*195458	20.10	*130243	26.43	*75172	31.97
05 C6527MSD	*190047	20.11	*118690	26.44	*71492	31.99
06						
07						
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16						
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19						
20						
21						
22						

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

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

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

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

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

TSC 3-31-94

		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)
$	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	
$	17	Nitrobenzene-d5	82.00	11.301	(0.885)	16412	16.5	8.26(aR)
*	25	Naphthalene-d8	136.00	12.764	(1.000)	117097	40.0	
$	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	0.528(Ta)
	37	2-Nitroaniline	65.00	15.623	(0.935)	899	1.27	0.637(aQ)
	38	Dimethylphthalate	163.00	15.984	(0.957)	1022	0.345	0.172(aQ)
	40	Acenaphthylene	152.00	16.367	(0.980)	3618	1.08	0.539(aQ)
	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	109.00	17.158	(1.027)	3140	21.3	10.7(aQ)
	48	Diethylphthalate	149.00	17.542	(1.050)	150	0.0466	0.0233(aQ)
	49	4-Chlorophenyl-phenylether	204.00	17.768	(1.064)	995	0.687	0.344(aQ)
	50	Fluorene	166.00	17.881	(1.070)	367	0.126	0.0631(a)
	51	4-Nitroaniline	138.00	17.722	(1.061)	6510	12.2	6.08(aQ)
$	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	0.0669(aQ)
	61	Anthracene	178.00	20.279	(1.009)	446	0.111	0.0533(aQ)
	62	Carbazole	167.00	20.528	(1.021)	172	0.0514	0.0257(aQ)
	63	Di-n-butylphthalate	149.00	21.229	(1.056)	4872	0.832	0.416(a)
	64	Fluoranthene	202.00	22.927	(1.141)	494	0.116	0.0578(aQ)
	66	Pyrene	202.00	23.447	(0.888)	749	0.180	0.0899(aQ)
	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	0.333(aQ)
	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	0.284(a)

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

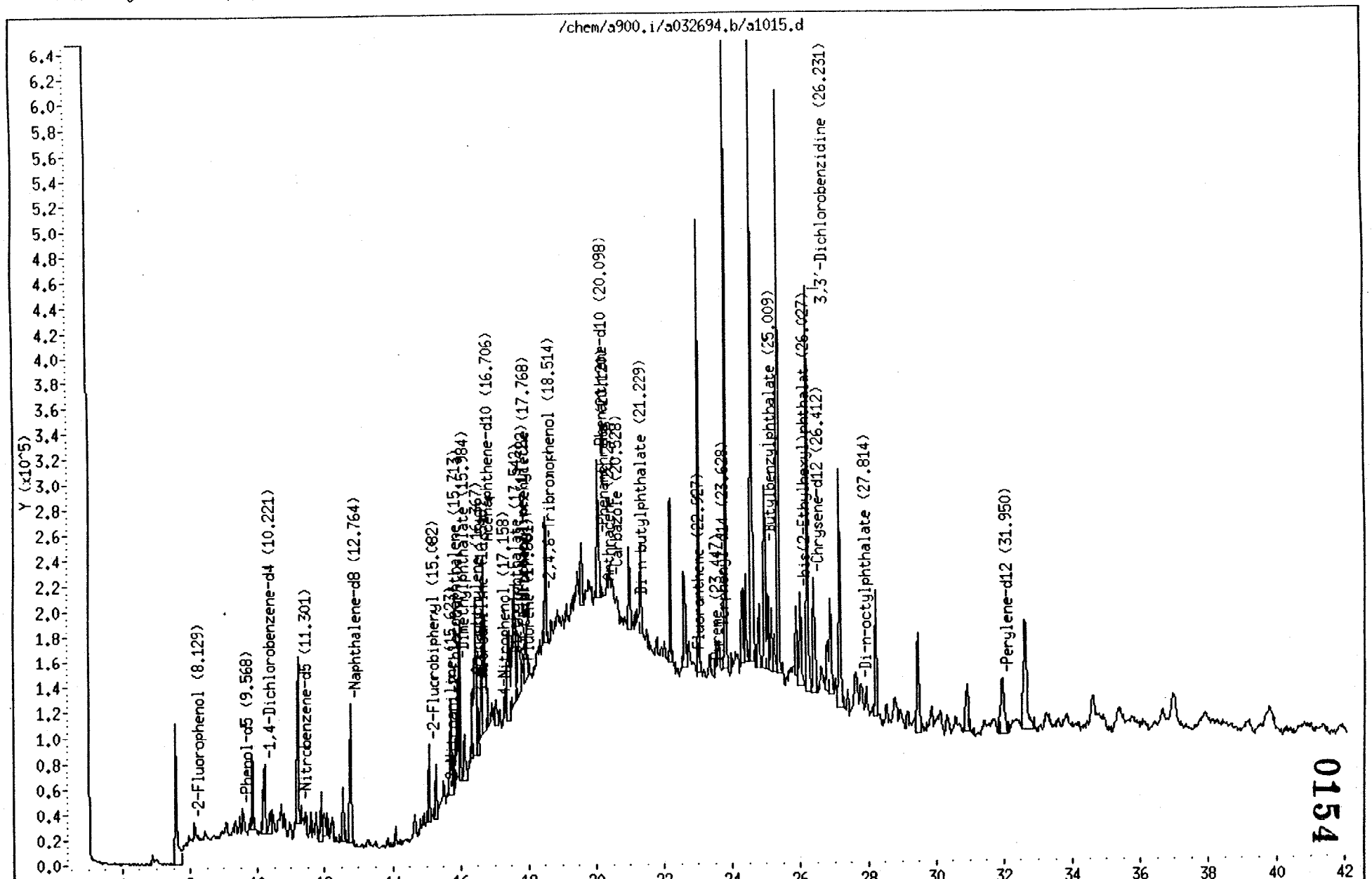
Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 73 Chrysene-d12	240.00	26.412	(1.000)	116910	40.0	
75 Di-n-octylphthalate	149.00	27.814	(0.871)	1394	0.212	0.~~106(a)~~
* 79 Perylene-d12	264.00	31.950	(1.000)	75789	40.0	

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&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



0154

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

Date : 26-MAR-94 21:16

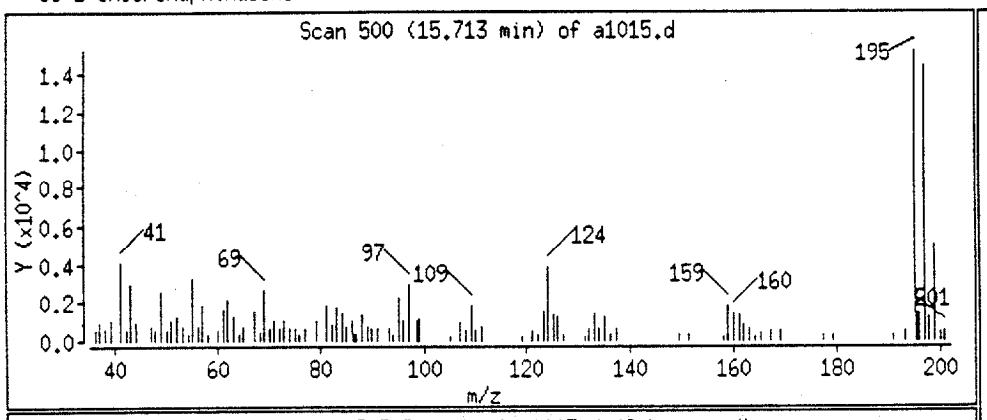
Instrument : a900.i

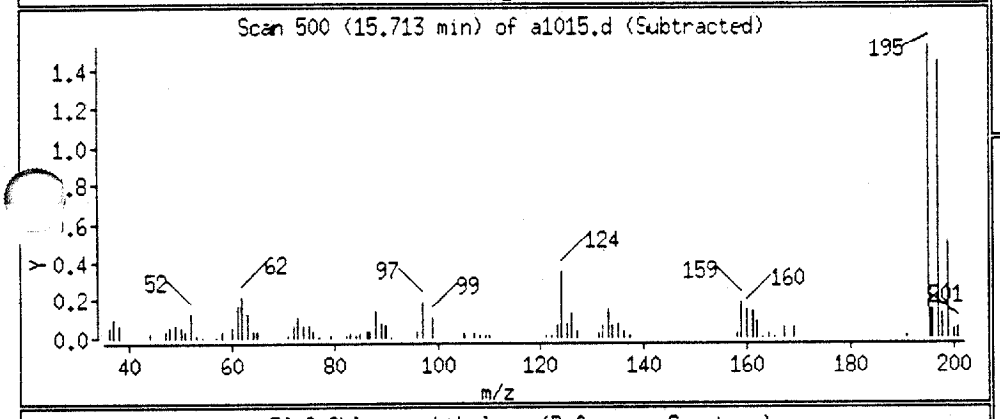
Sample ID :

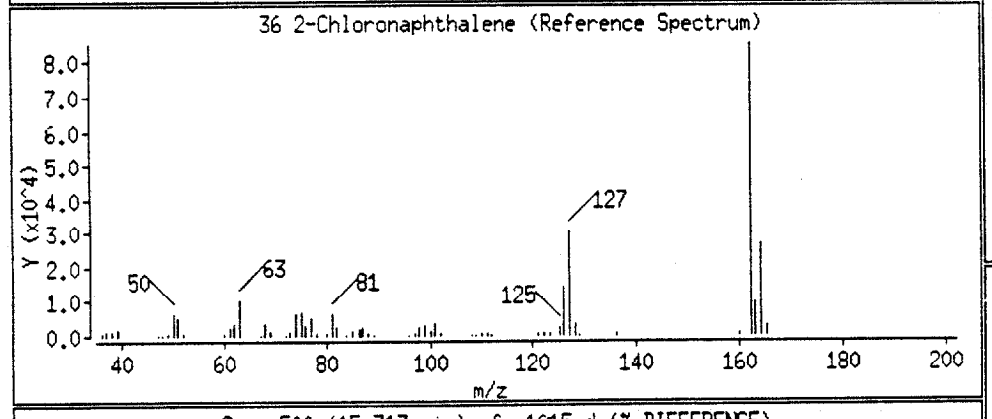
Column phase : J&W DB-5 Column diameter : 0.25

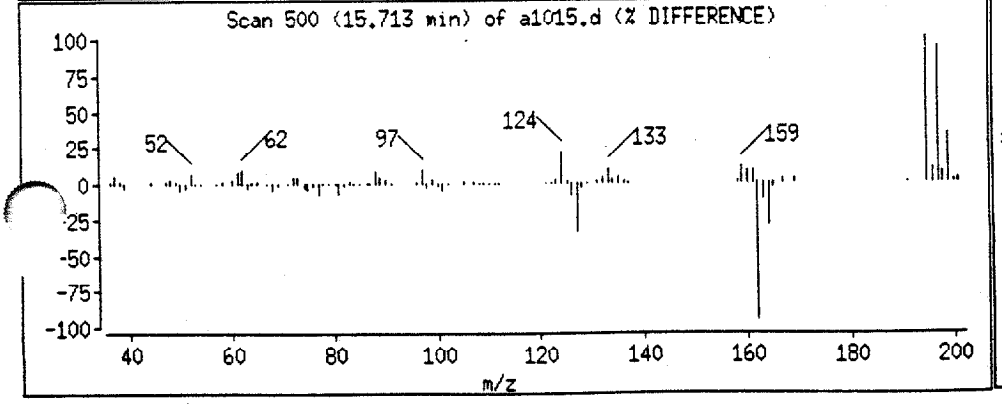
Volume Injected (uL) : 2.0

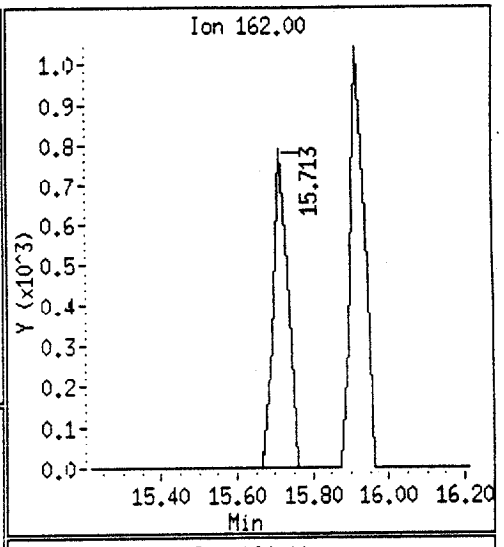
36 2-Chloronaphthalene

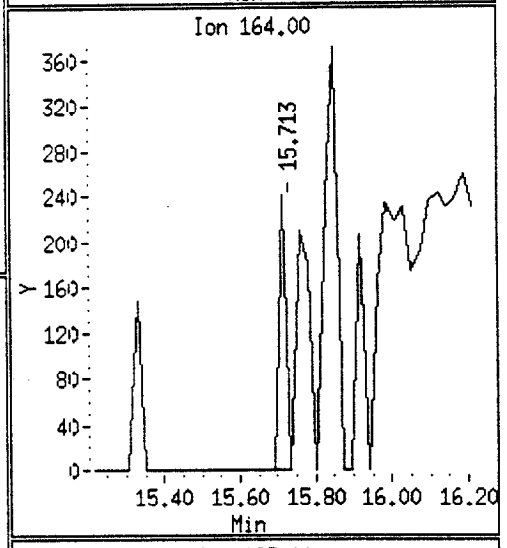


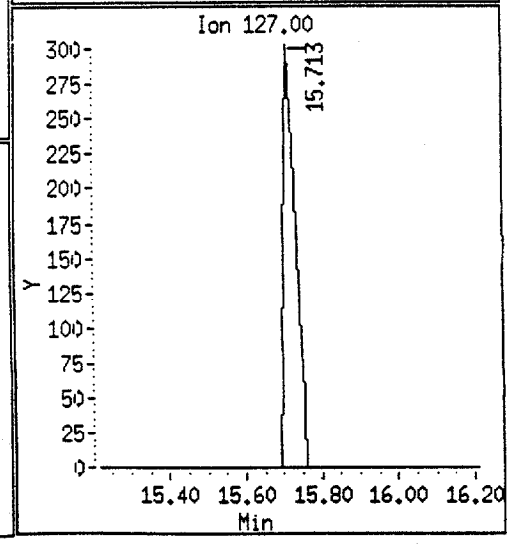












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

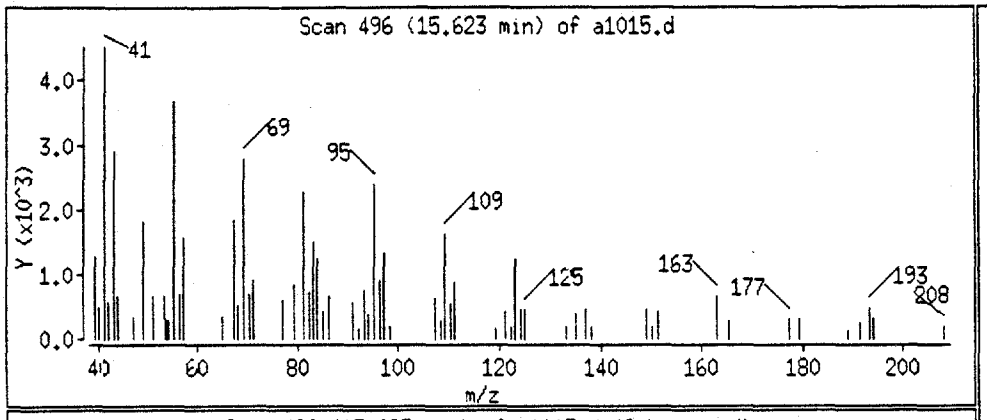
Instrument : a900.i

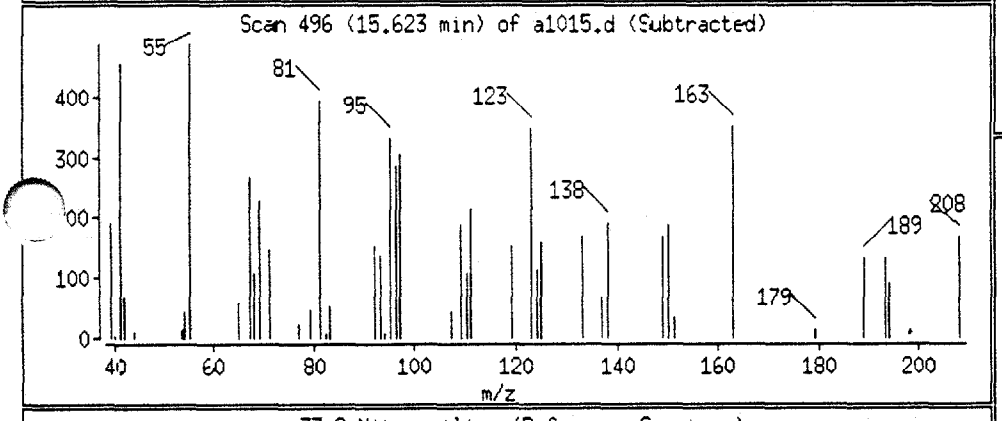
Sample ID :

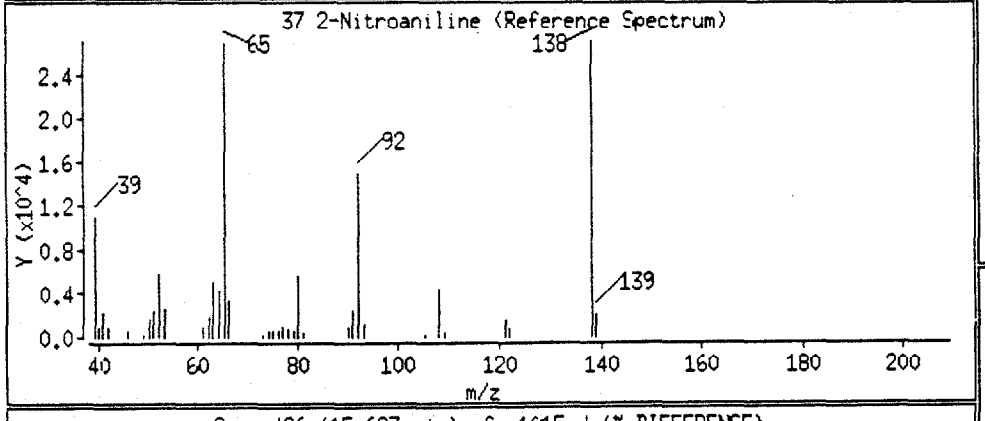
Column phase : J&W DB-5 Column diameter : 0.25

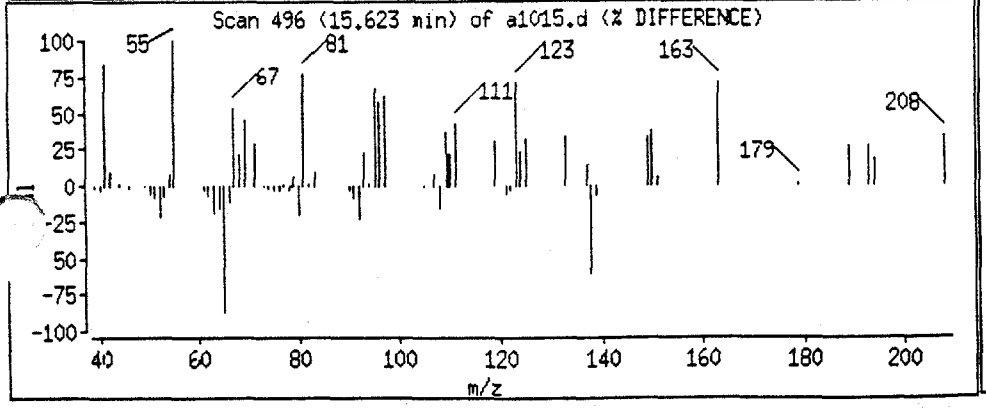
Volume Injected (uL) : 2.0

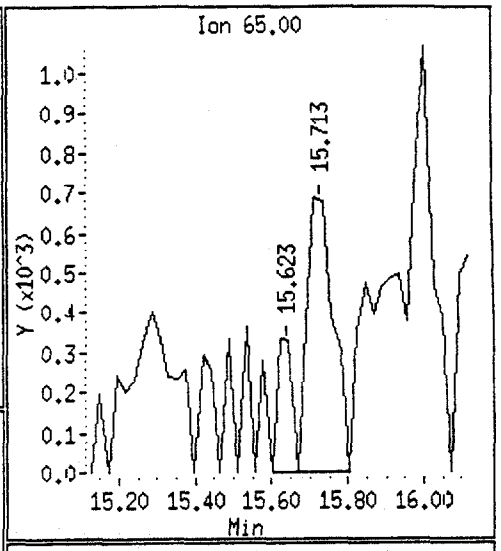
37 2-Nitroaniline

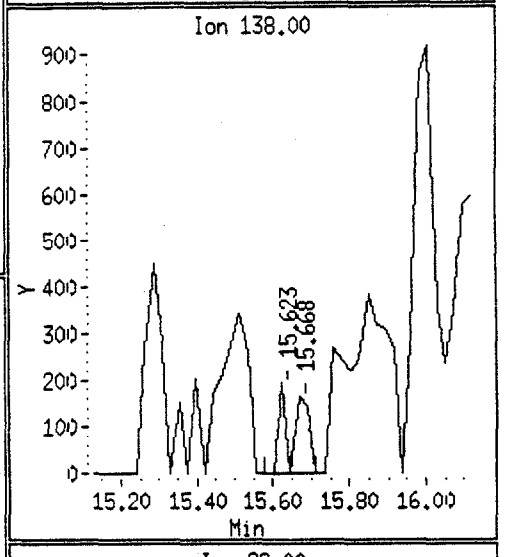


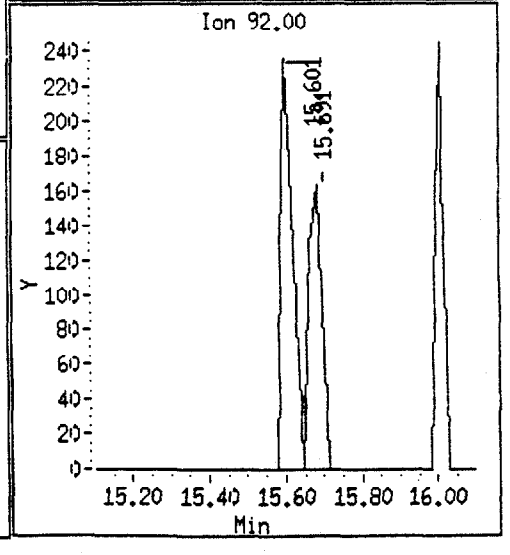












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

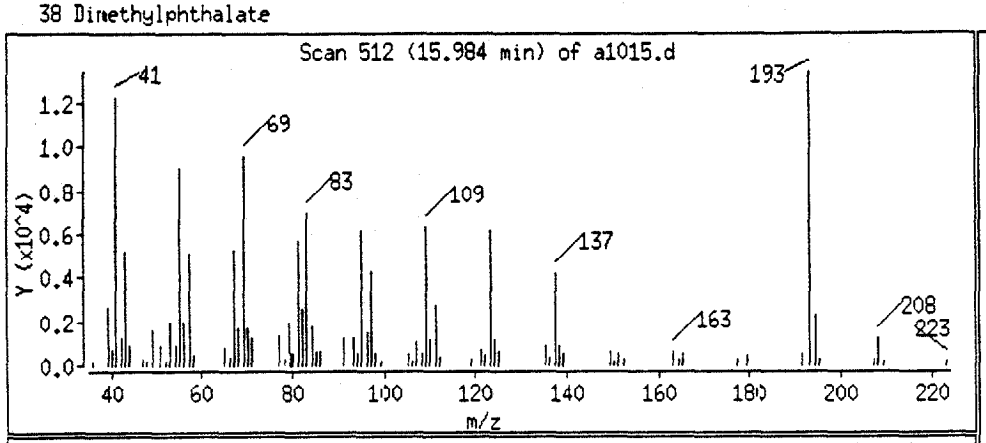
Instrument : a900.i

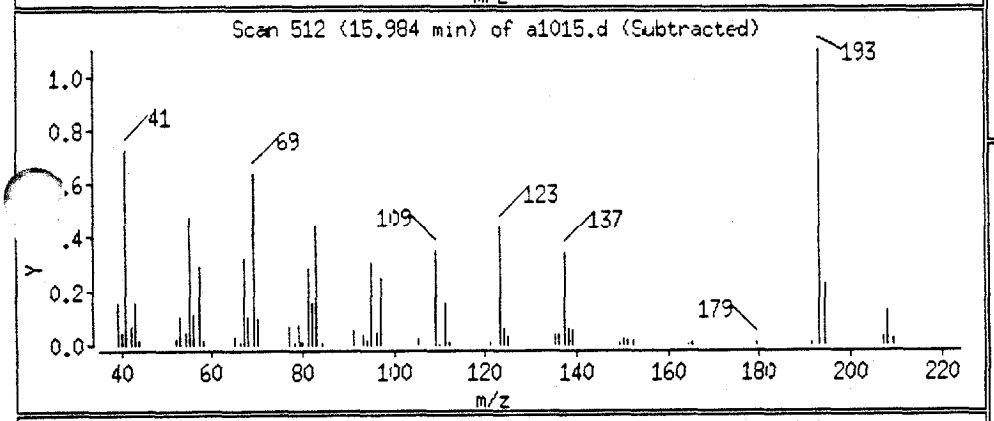
Sample ID :

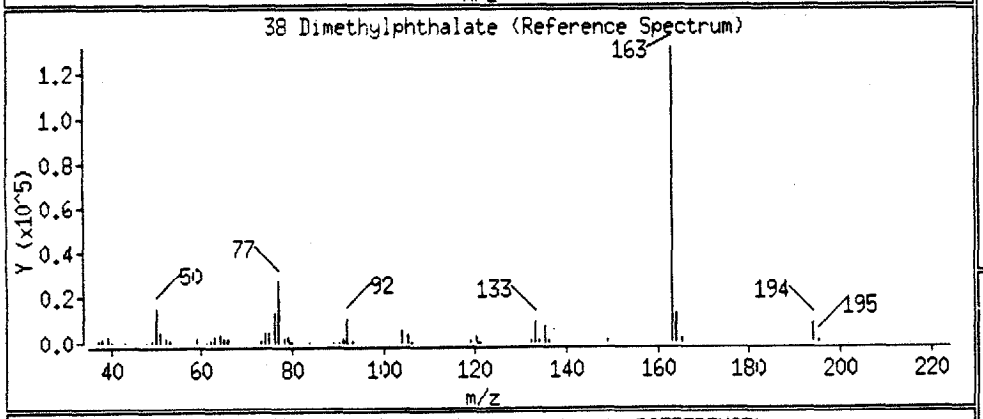
Column phase : J&W DB-5 Column diameter : 0.25

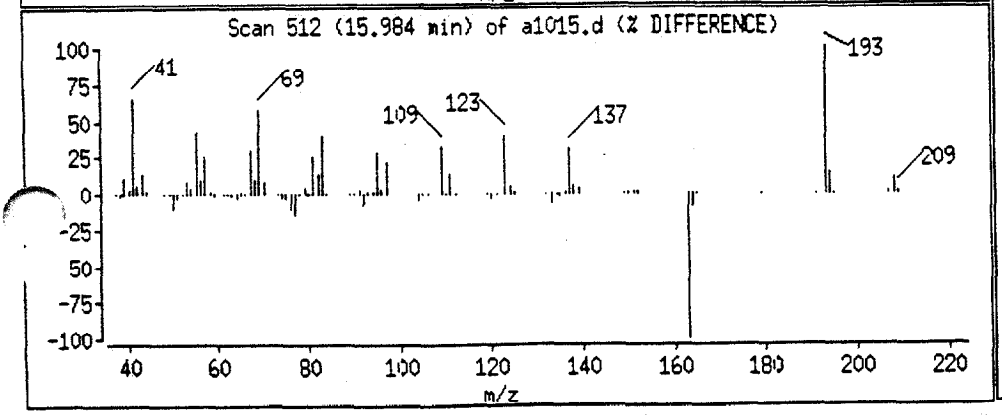
Volume Injected (uL) : 2.0

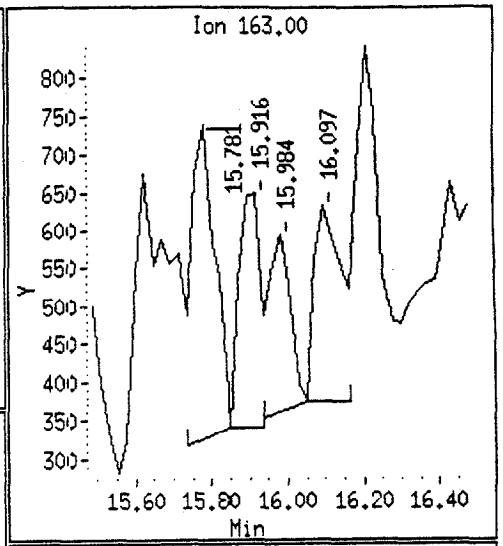
38 Dimethylphthalate

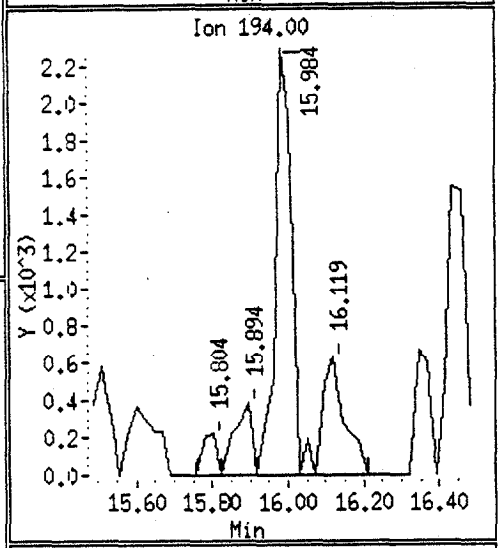


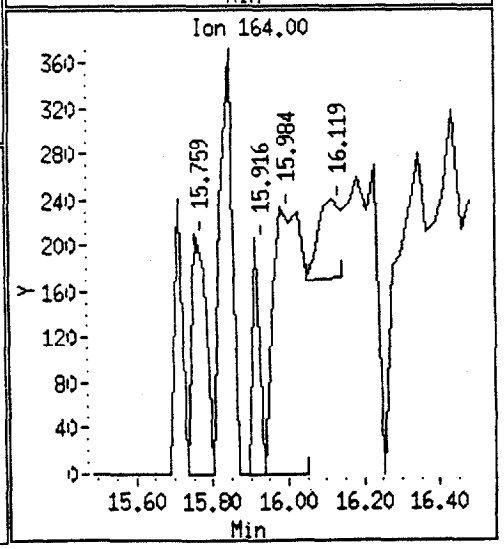












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

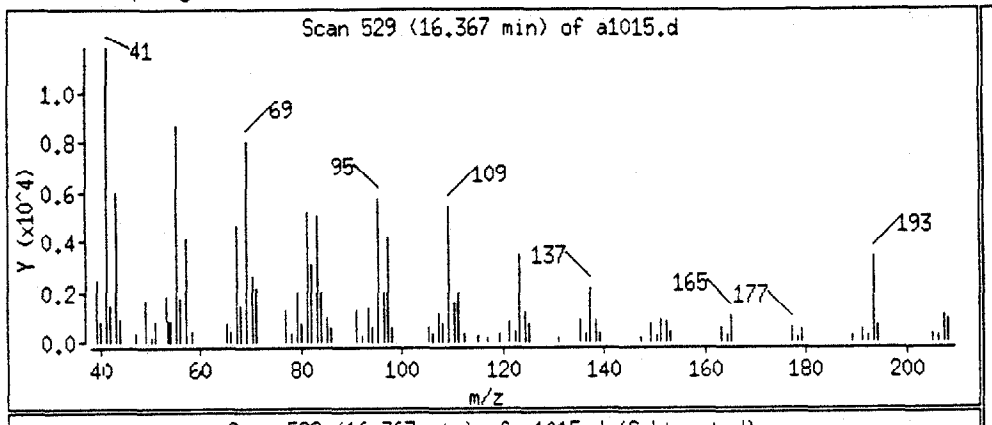
Instrument : a900.i

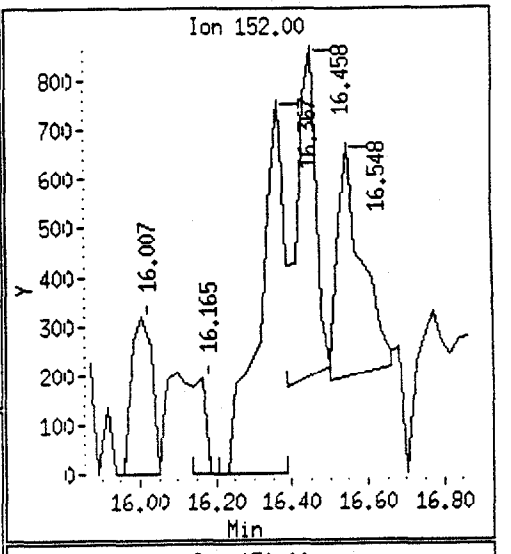
Sample ID :

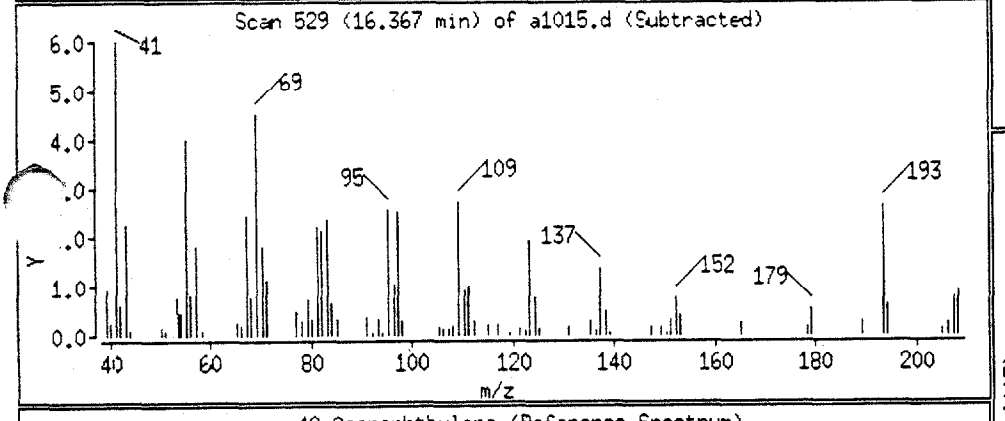
Column phase : J&W DB-5 Column diameter : 0.25

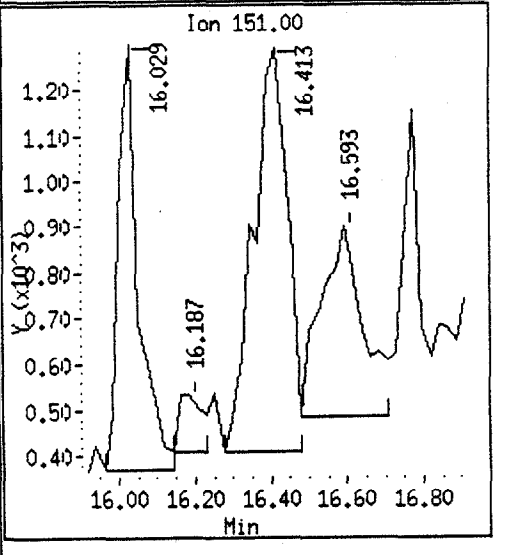
Volume Injected (uL) : 2.0

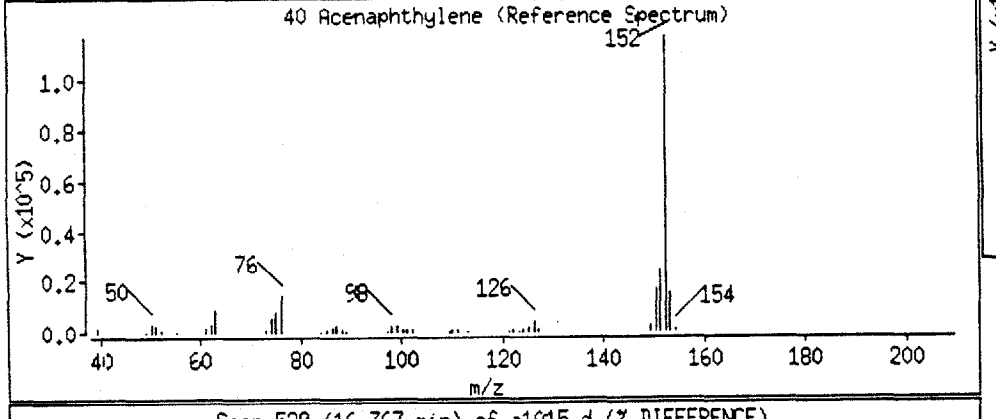
40 Acenaphthylene

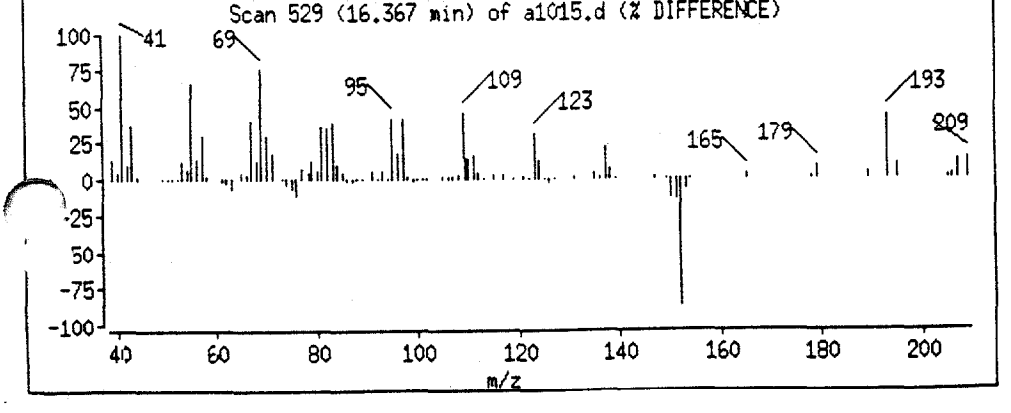












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

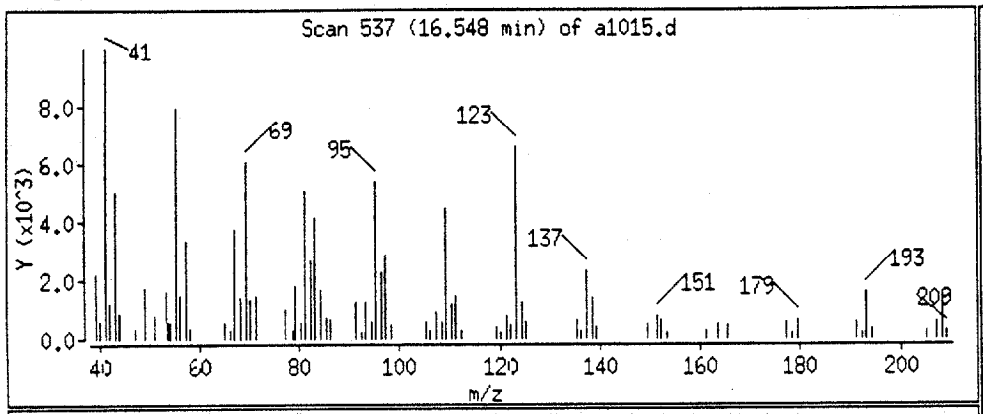
Instrument : a900.i

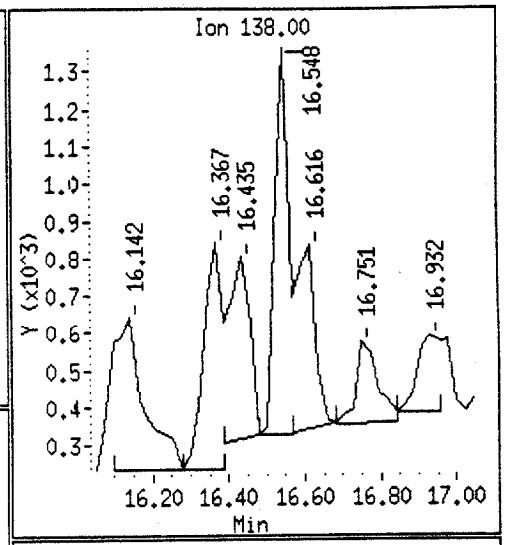
Sample ID :

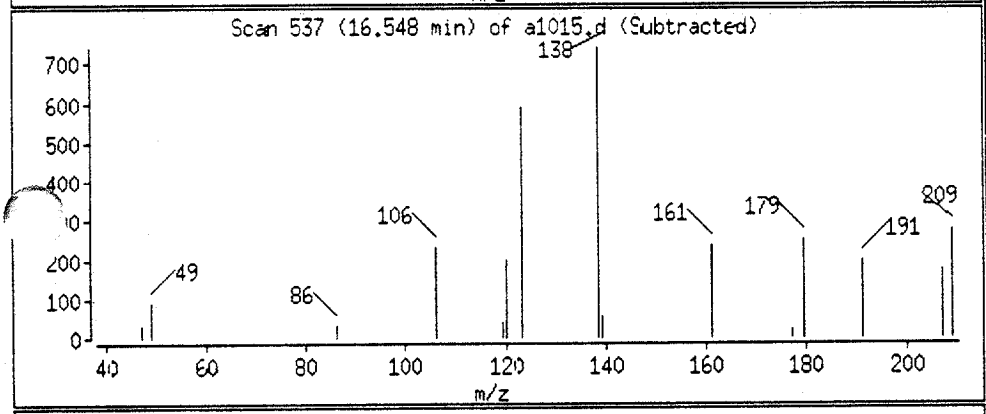
Column phase : J&W DB-5 Column diameter : 0.25

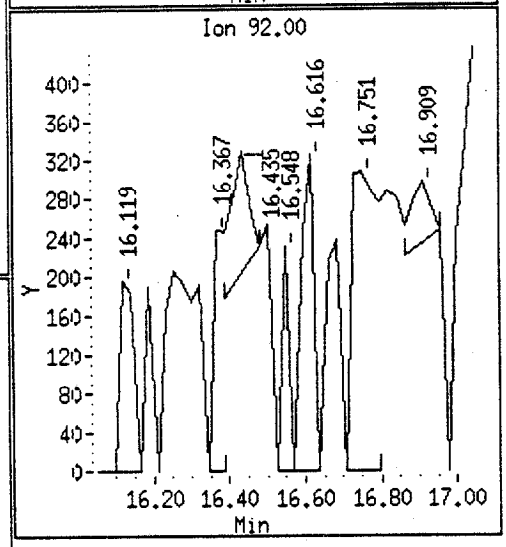
Volume Injected (uL) : 2.0

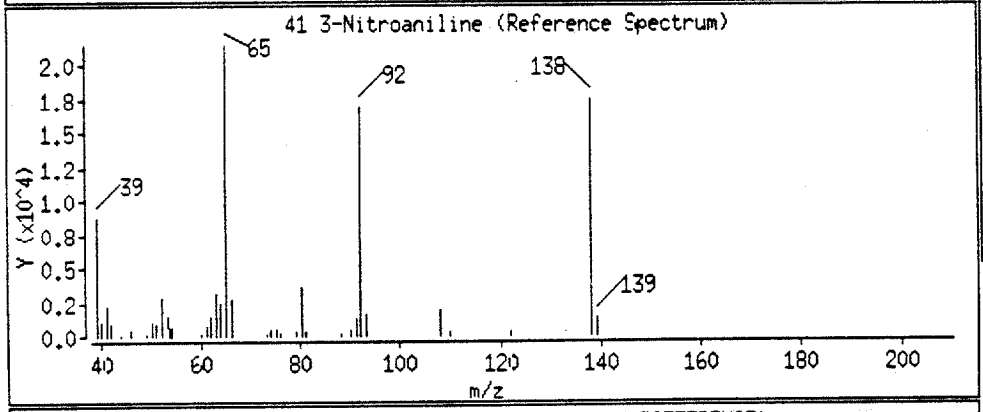
41 3-Nitroaniline

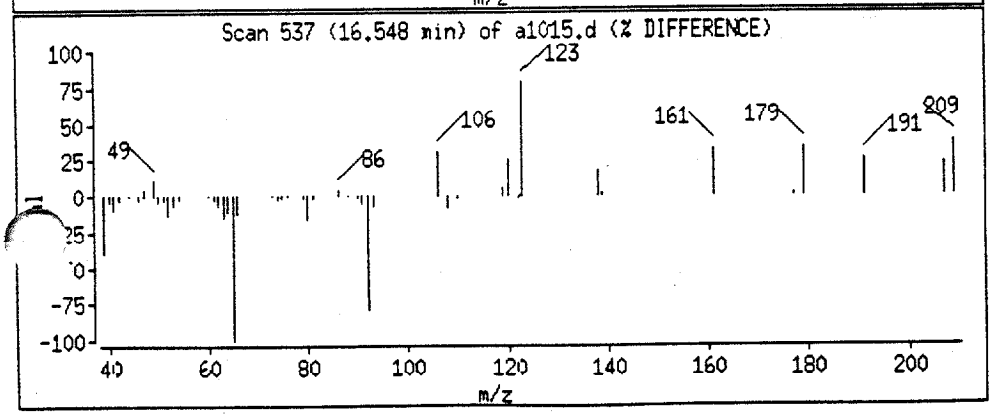












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

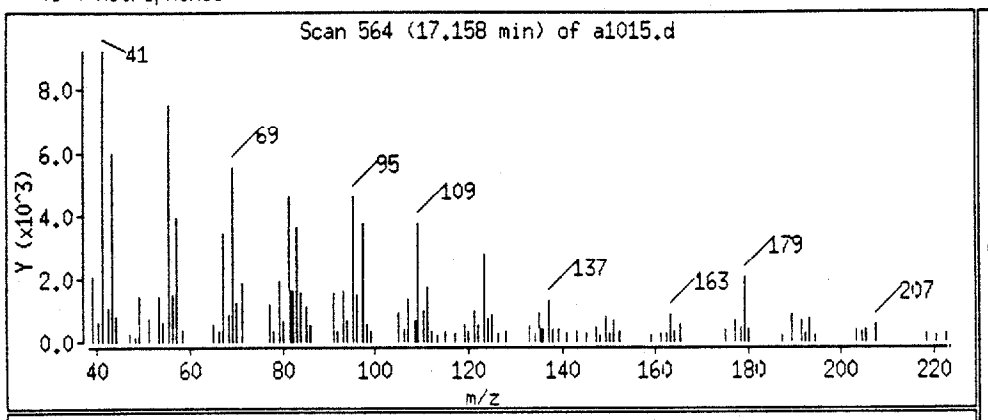
Instrument : a900.i

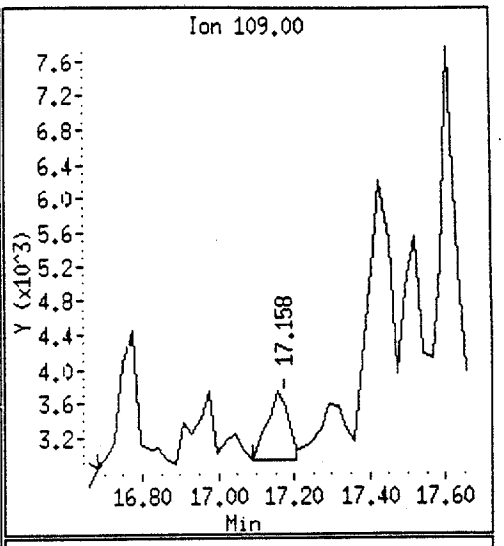
Sample ID :

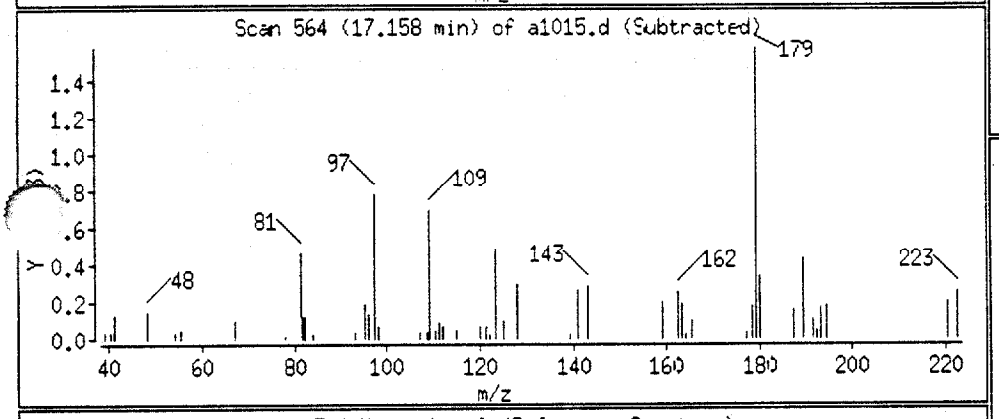
Column phase : J&W DB-5 Column diameter : 0.25

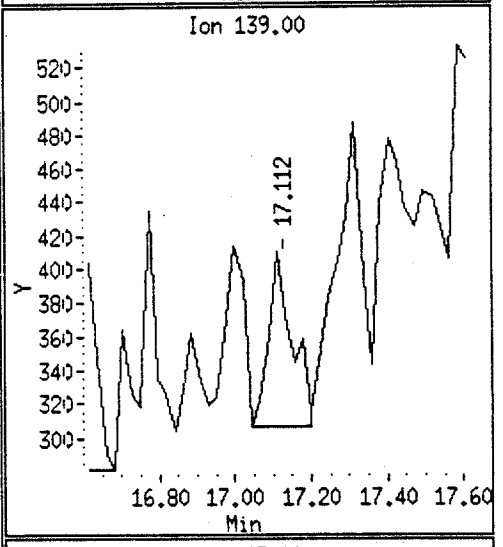
Volume Injected (uL) : 2.0

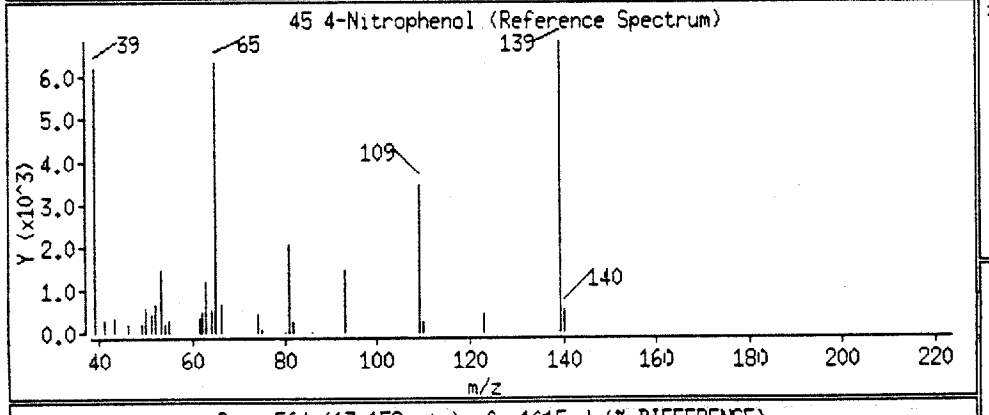
45 4-Nitrophenol

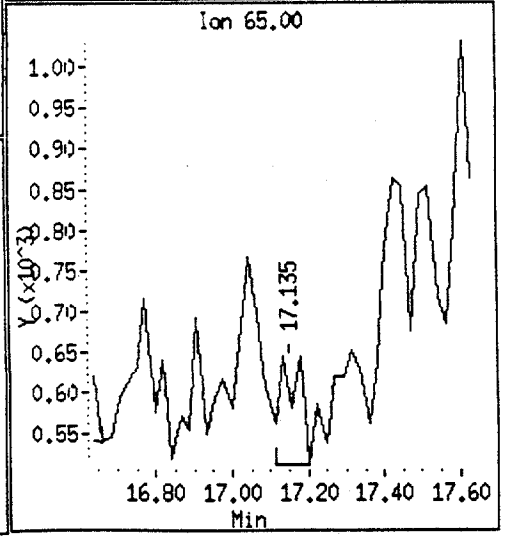


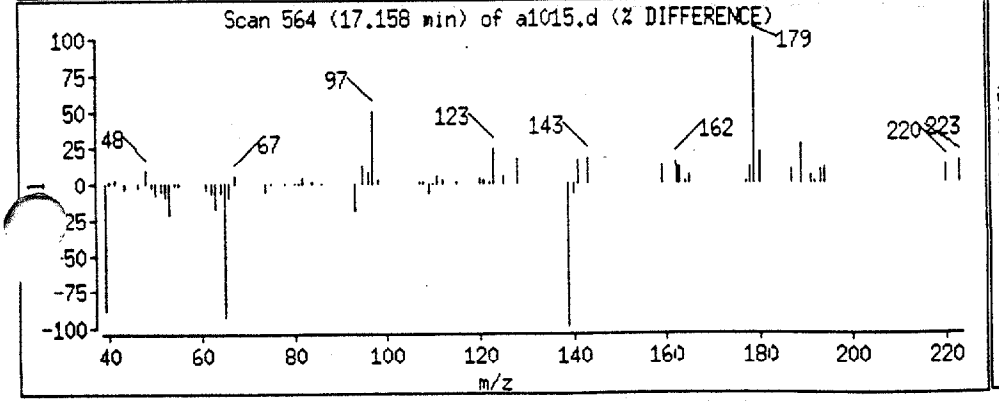












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

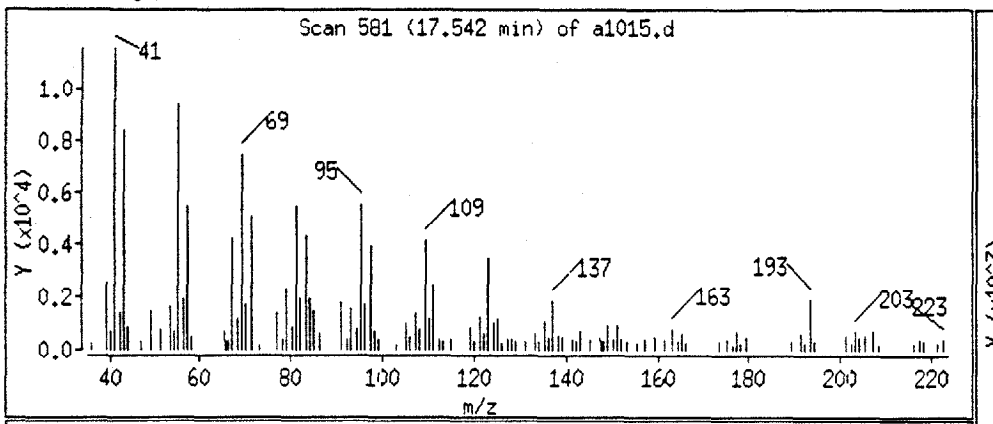
Instrument : a900.i

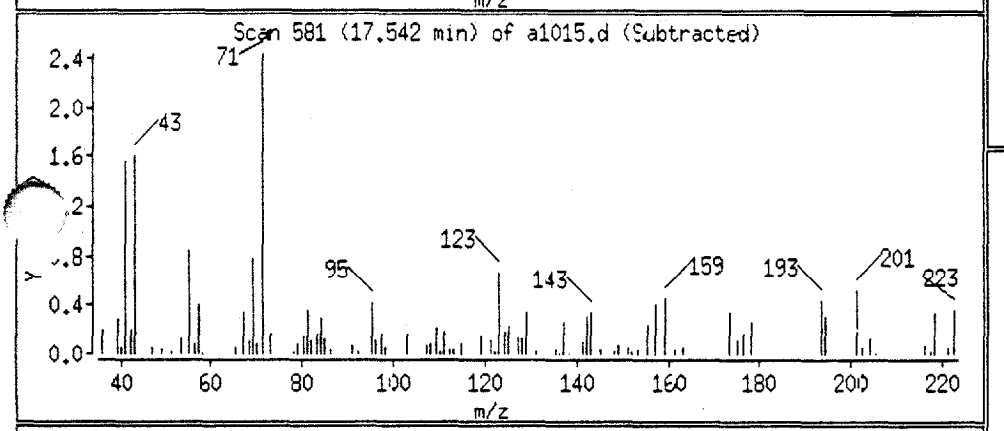
Sample ID :

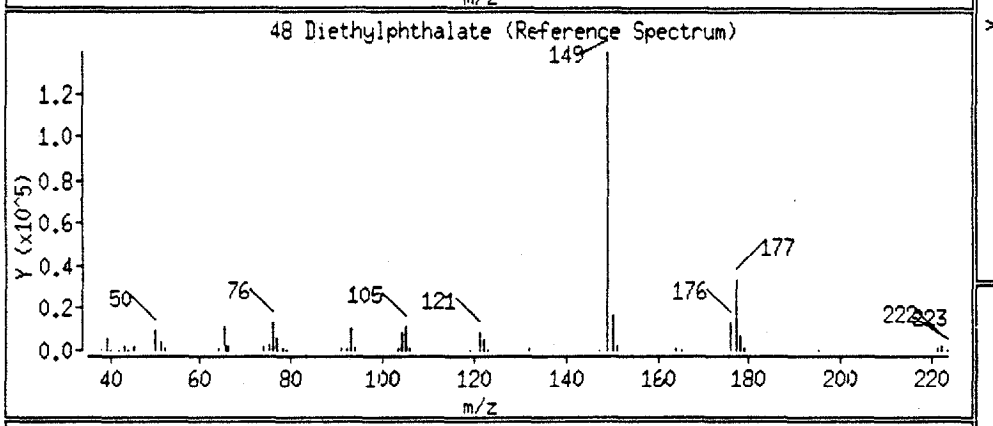
Column phase : J&W DB-5 Column diameter : 0.25

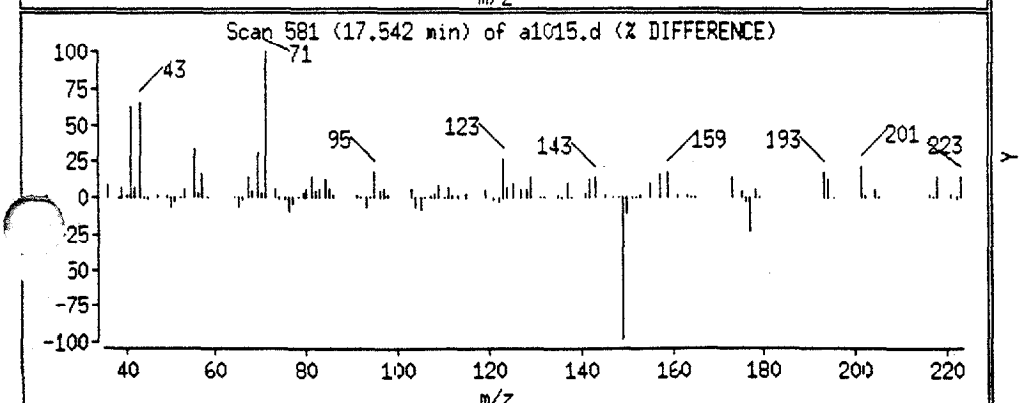
Volume Injected (uL) : 2.0

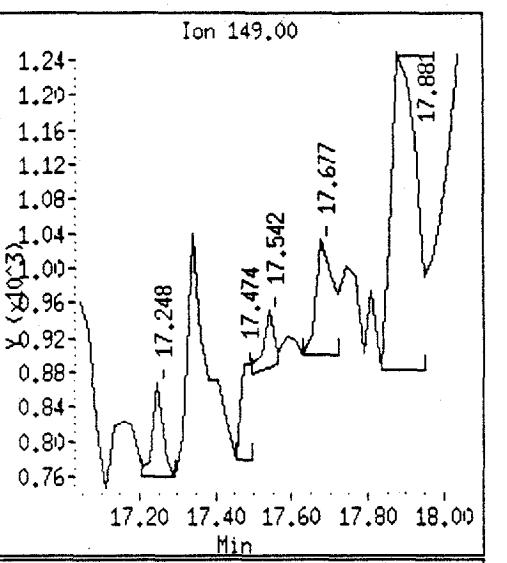
48 Diethylphthalate

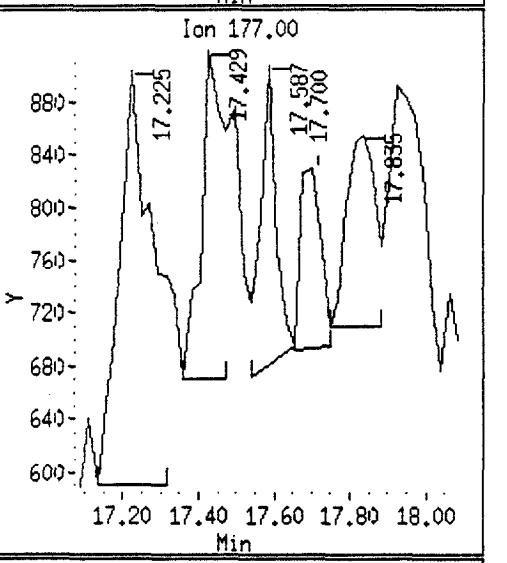


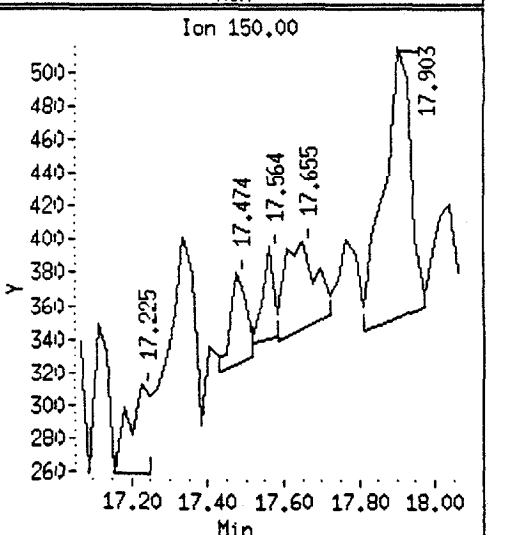












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

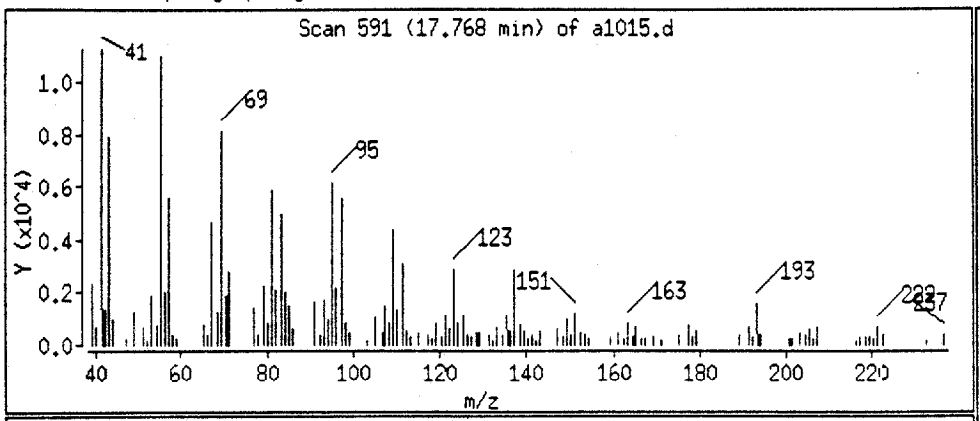
Instrument : a900.i

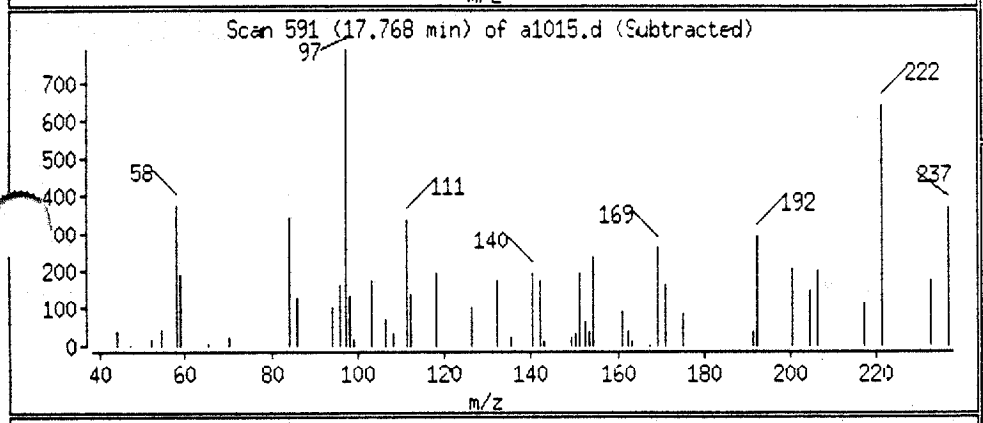
Sample ID :

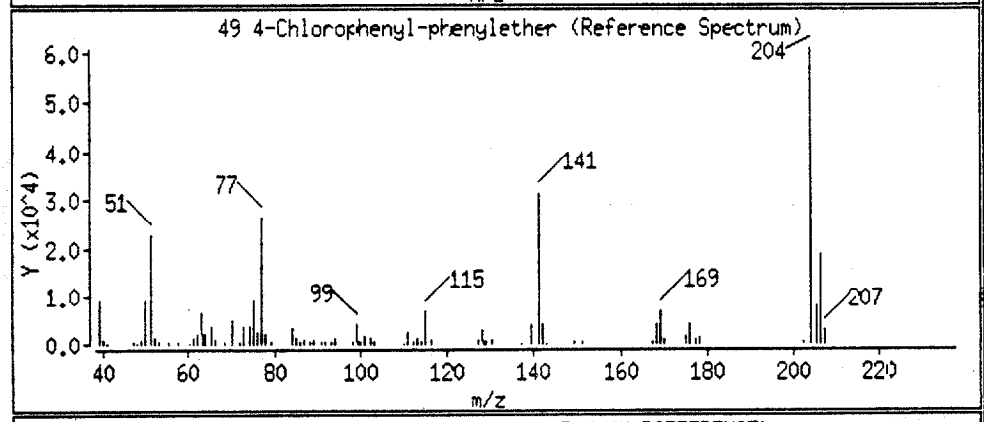
Column phase : J&W DB-5 Column diameter : 0.25

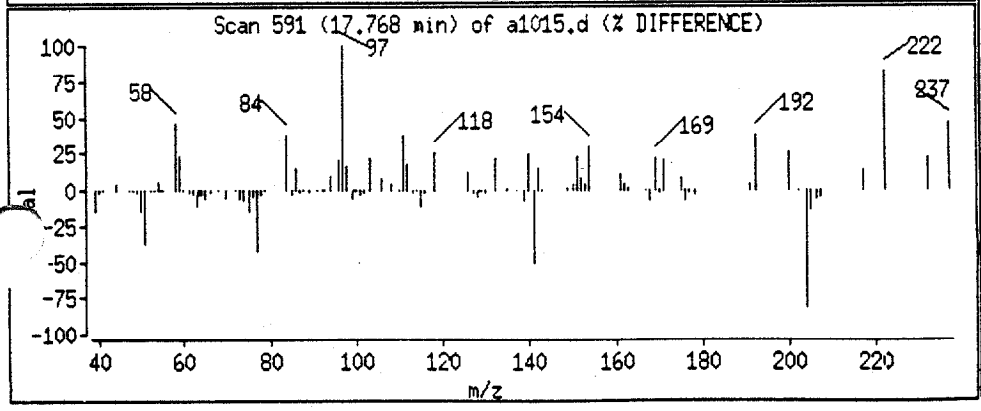
Volume Injected (uL) : 2.0

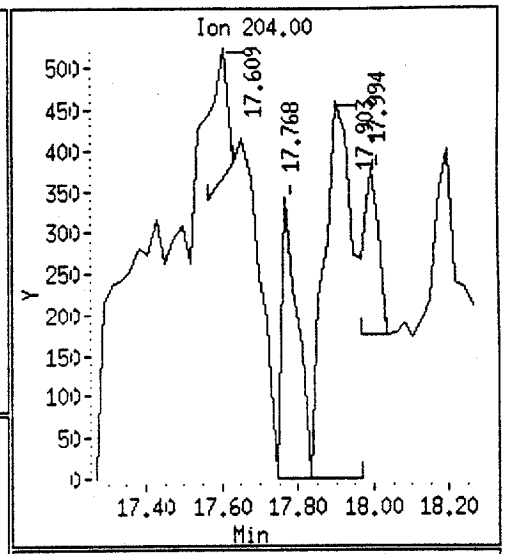
49 4-Chlorophenyl-phenylether

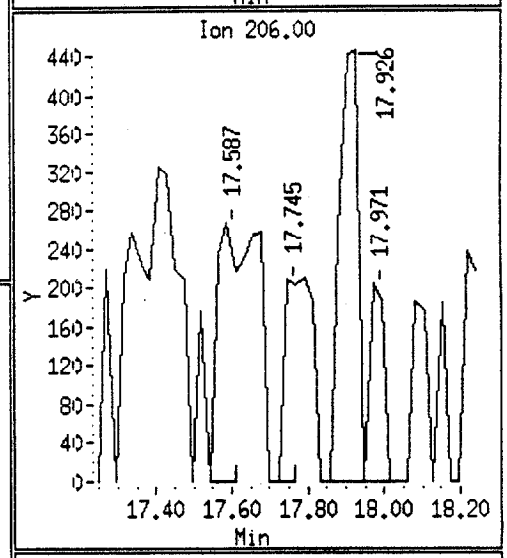


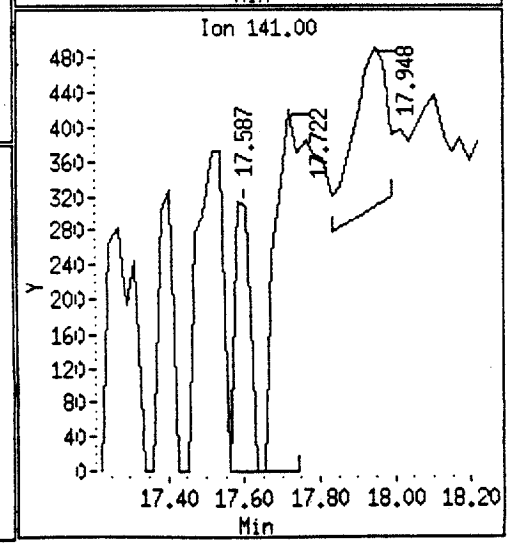












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

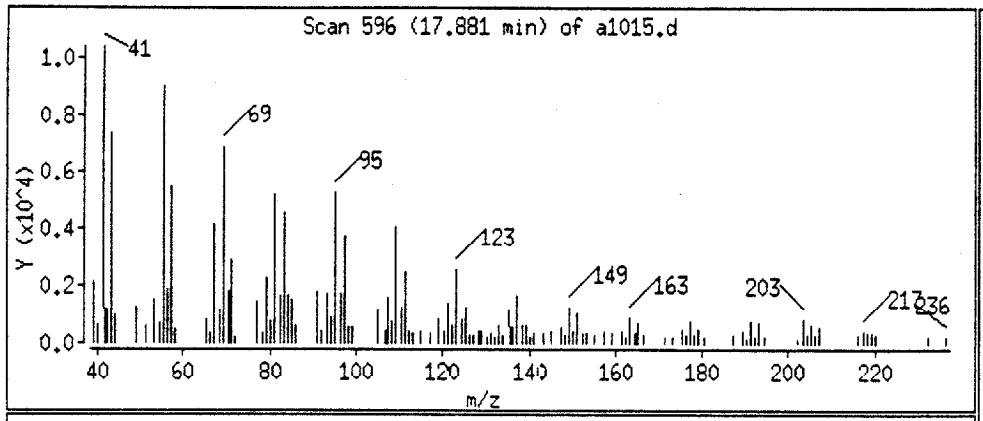
Instrument : a900.i

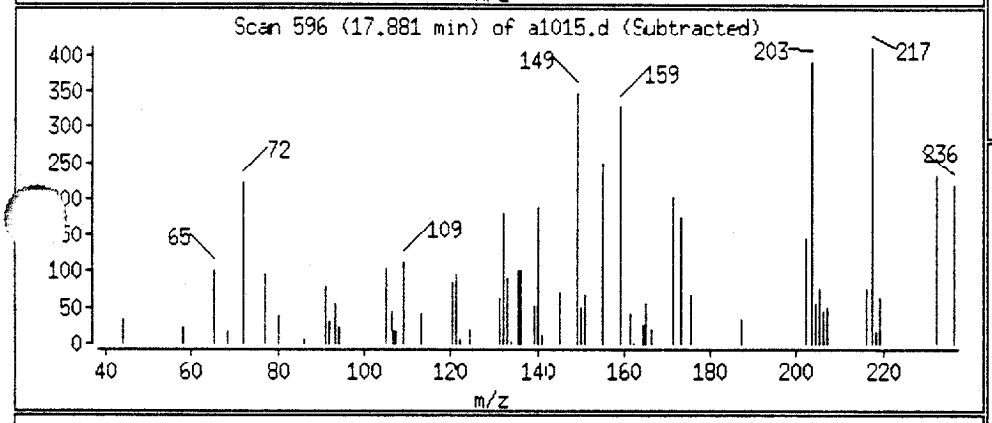
Sample ID :

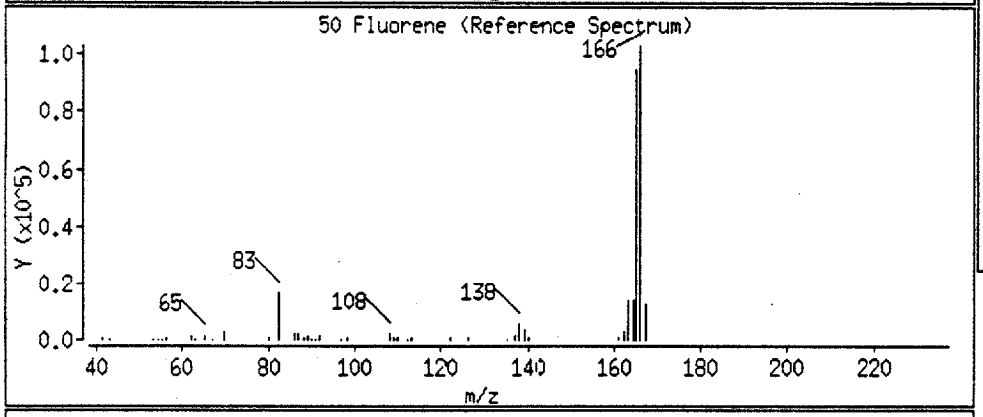
Column phase : J&W DB-5 Column diameter : 0.25

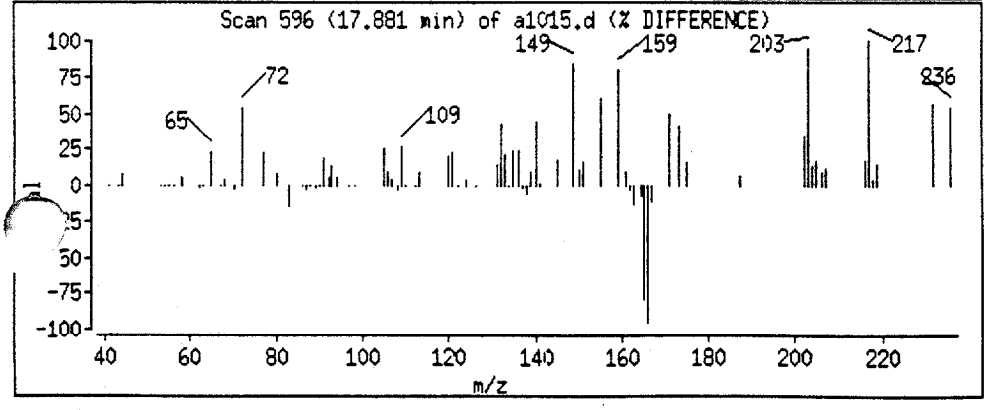
Volume Injected (uL) : 2.0

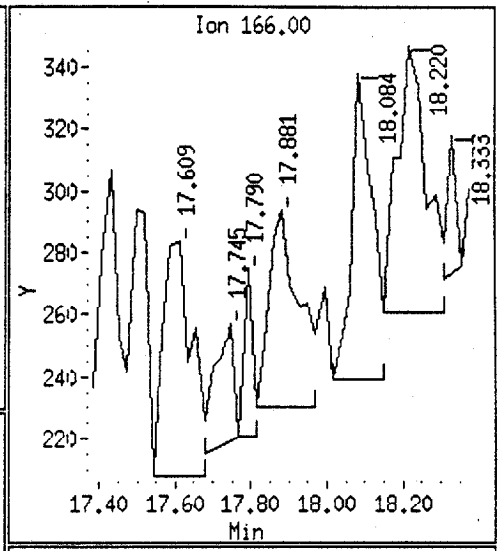
50 Fluorene

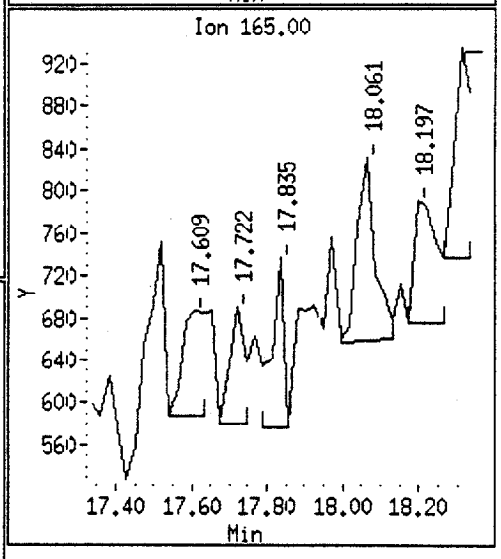












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

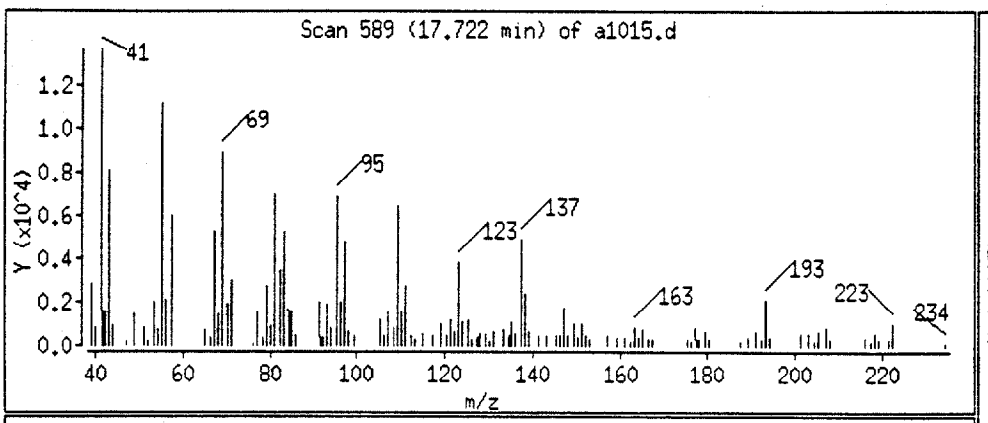
Instrument : a900.i

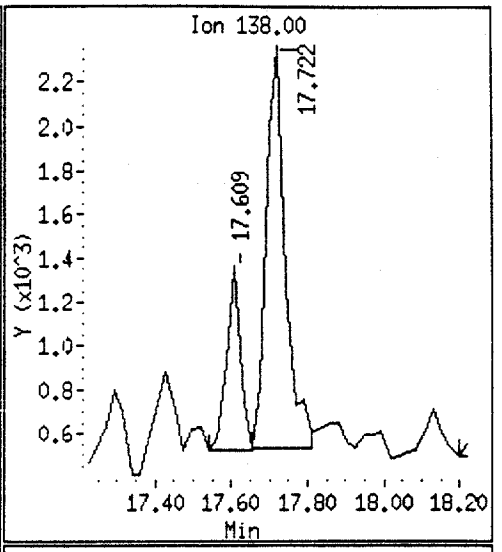
Sample ID :

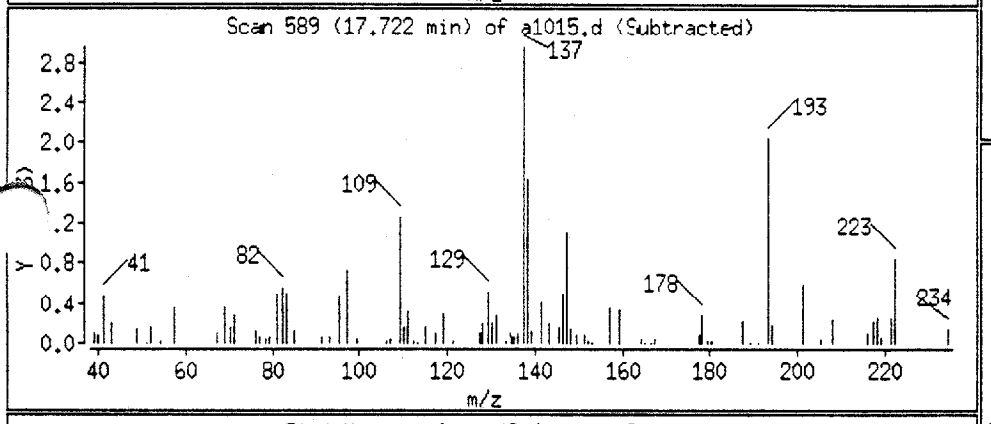
Column phase : J&W DB-5 Column diameter : 0.25

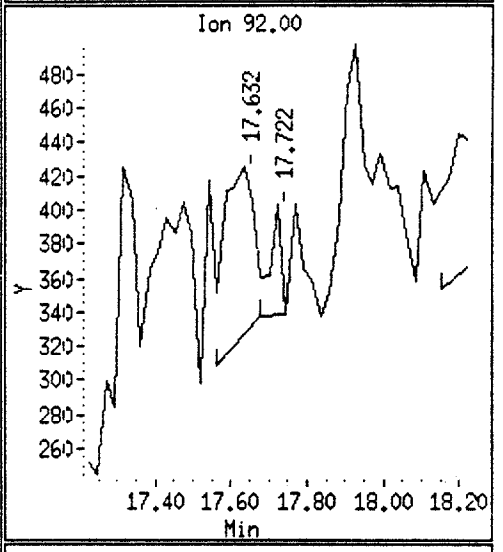
Volume Injected (uL) : 2.0

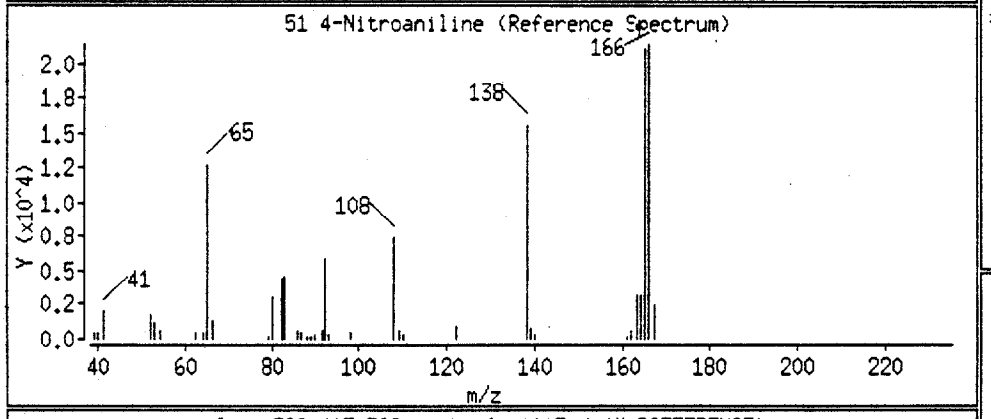
51 4-Nitroaniline

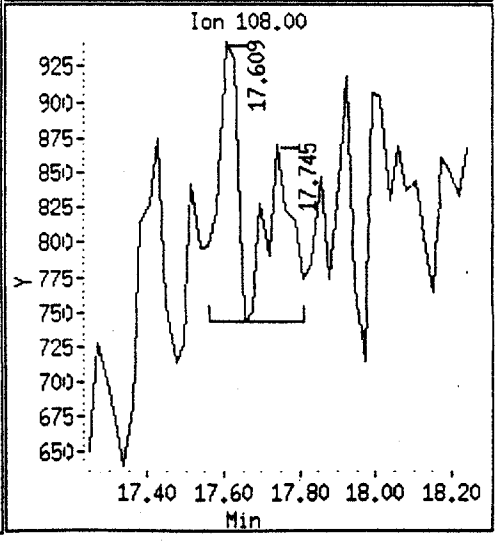


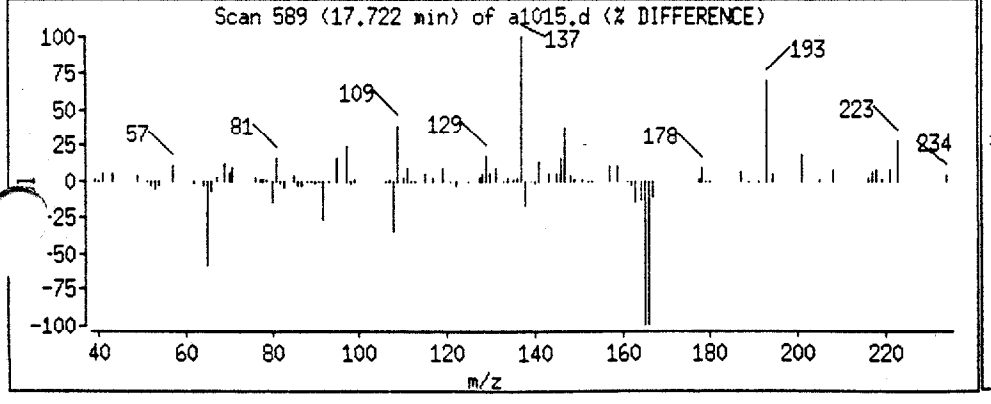












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

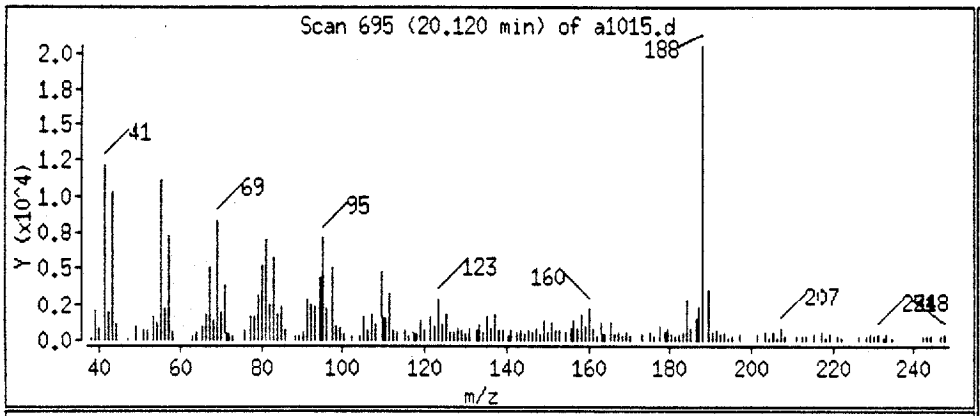
Instrument : a900.i

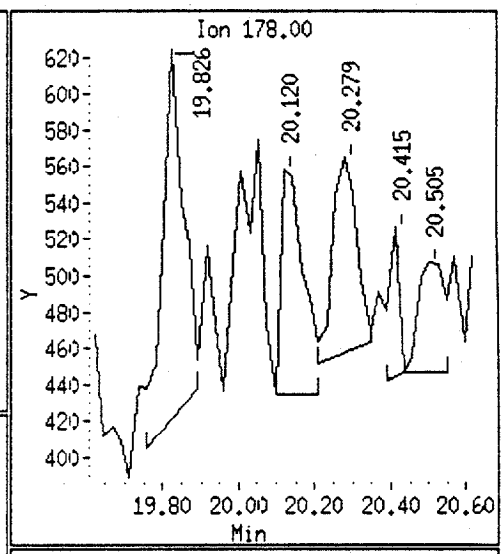
Sample ID :

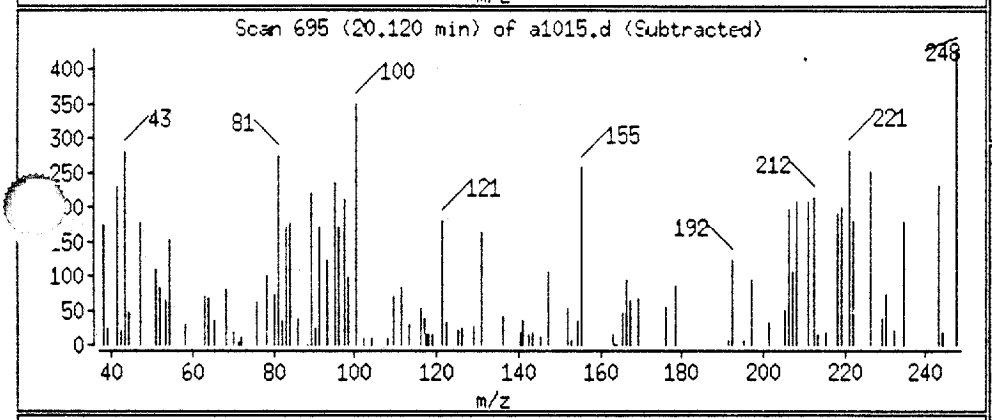
Column phase : J&W DB-5 Column diameter : 0.25

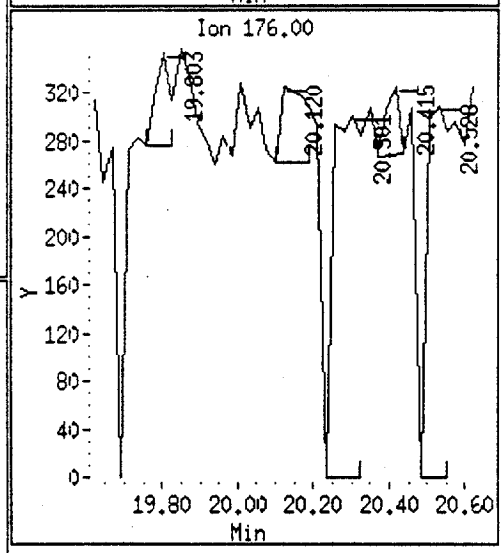
Volume Injected (uL) : 2.0

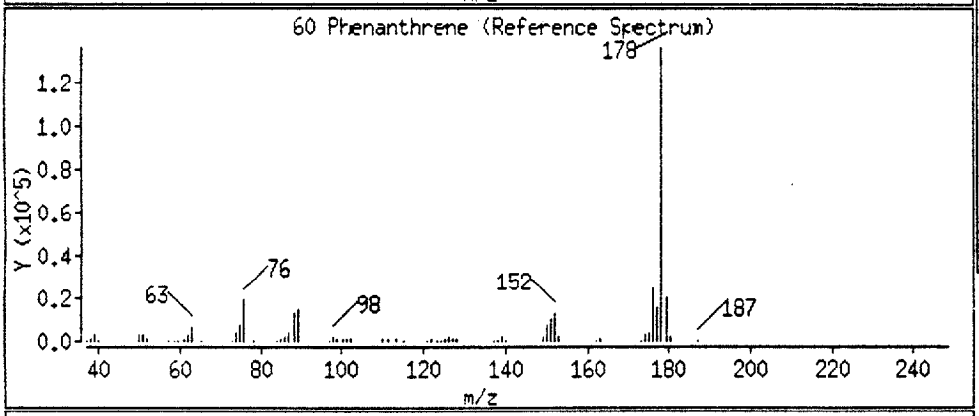
60 Phenanthrene

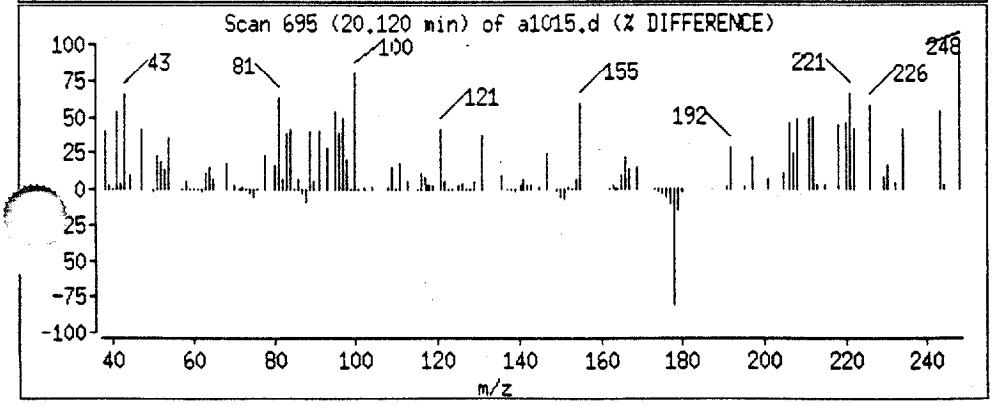












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

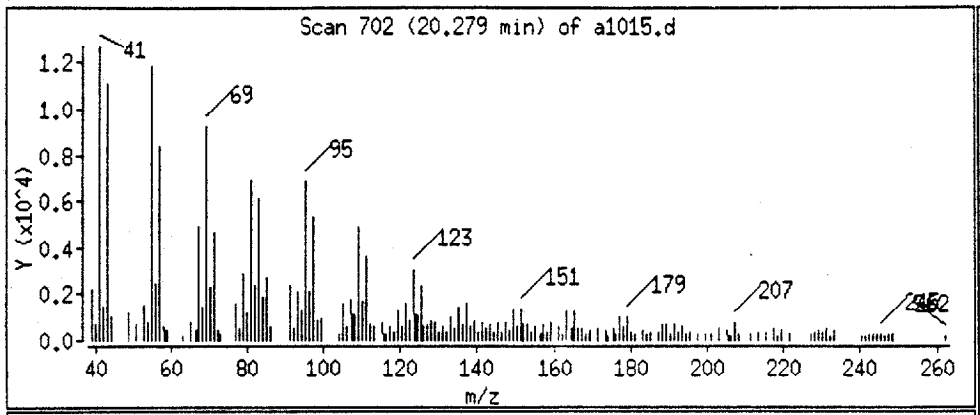
Instrument : a900.i

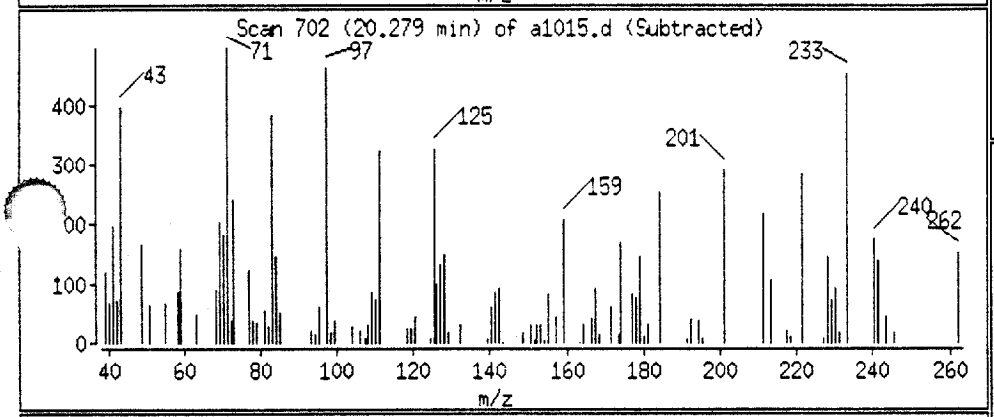
Sample ID :

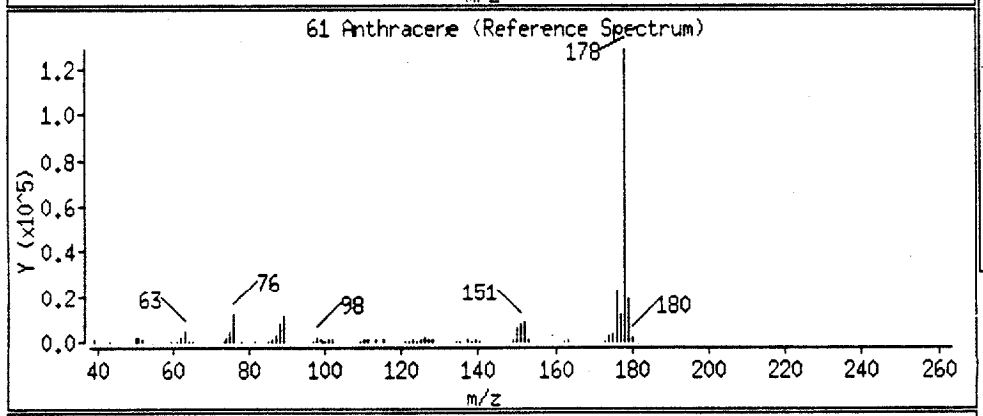
Column phase : J&W DB-5 Column diameter : 0.25

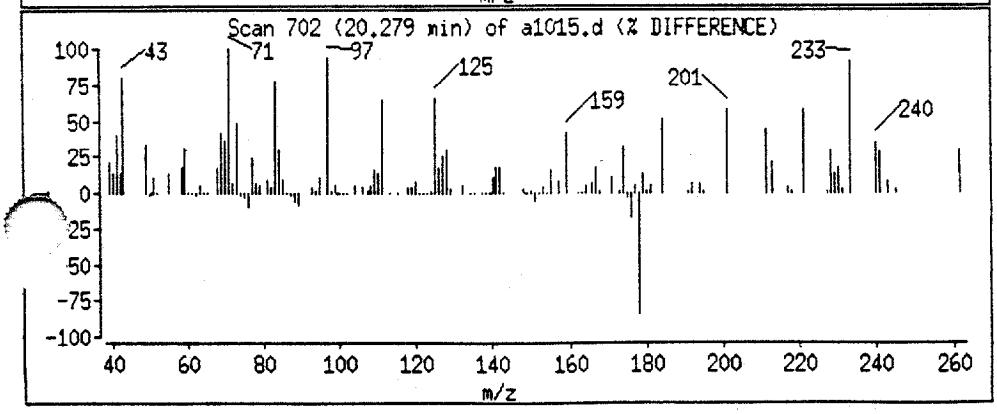
Volume Injected (uL) : 2.0

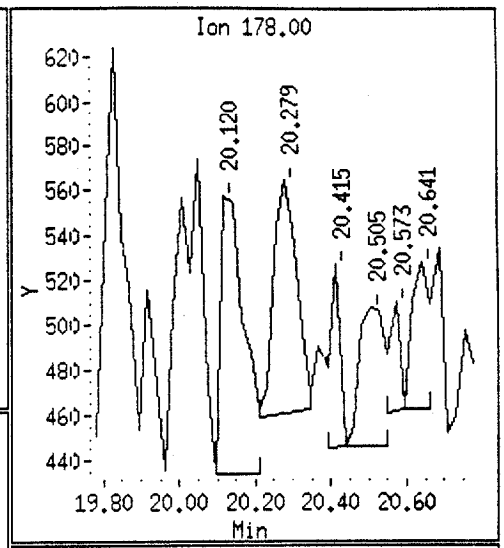
61 Anthracene

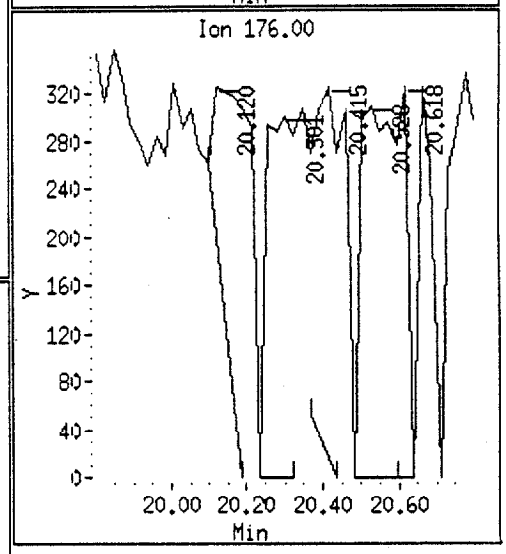












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

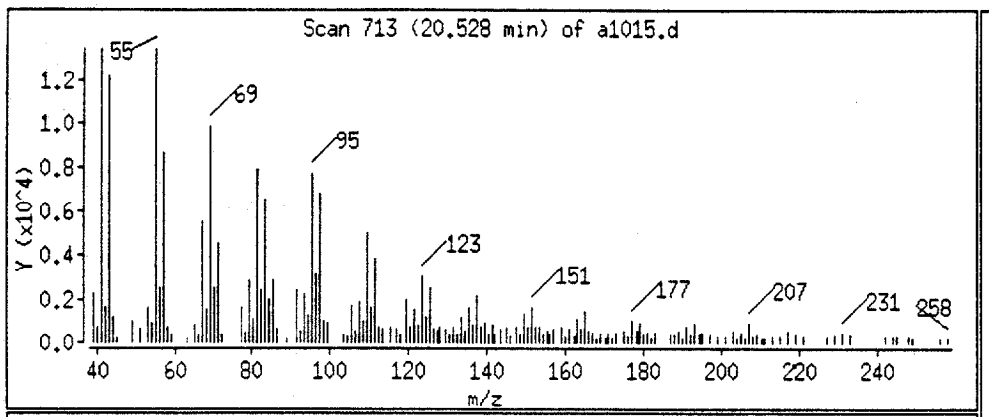
Sample ID :

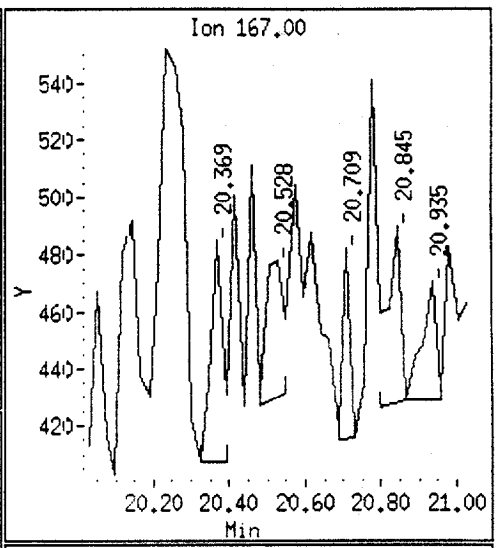
Column phase : J&W DB-5

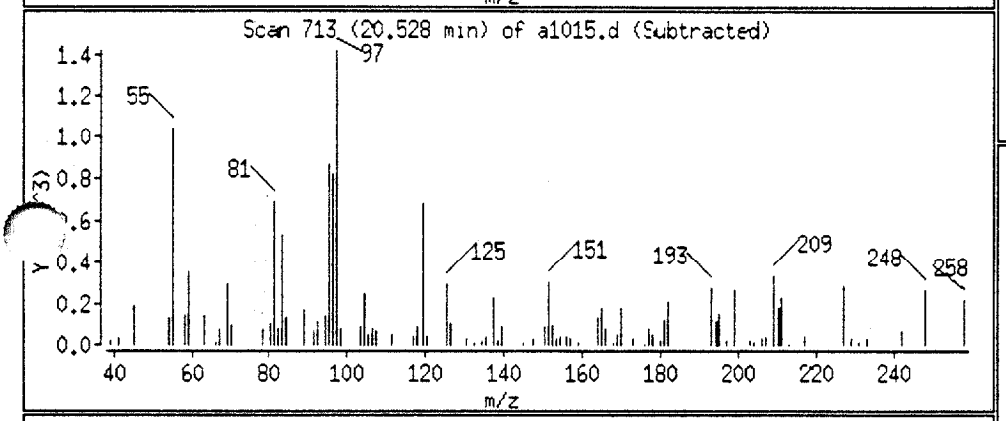
Column diameter : 0.25

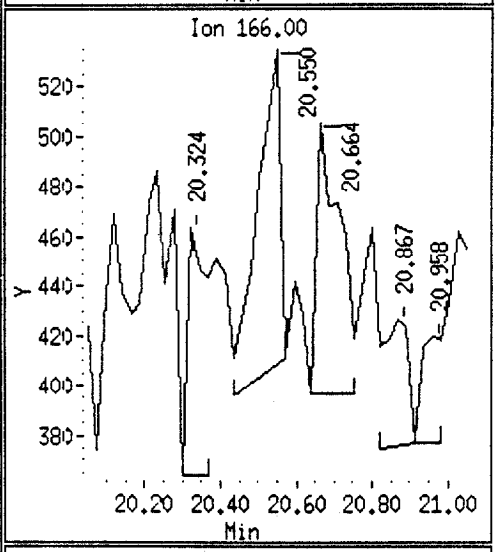
Volume Injected (uL) : 2.0

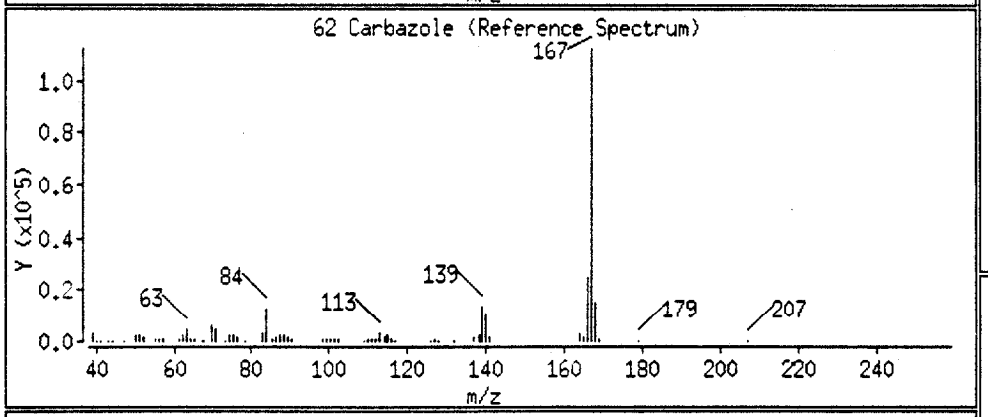
62 Carbazole

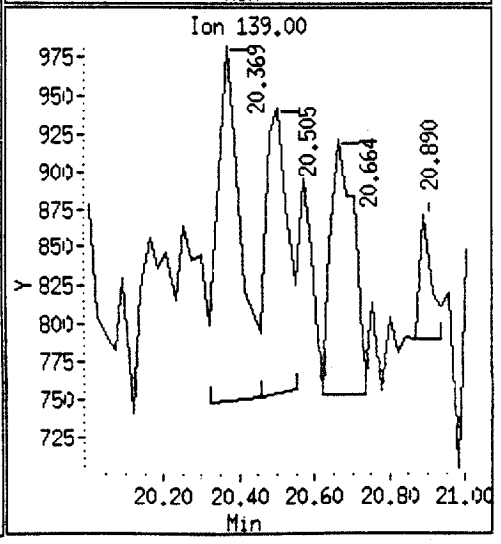


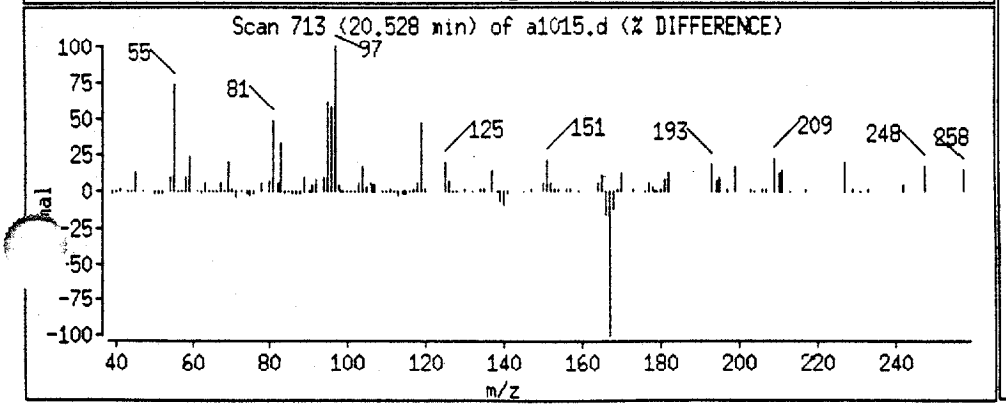












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

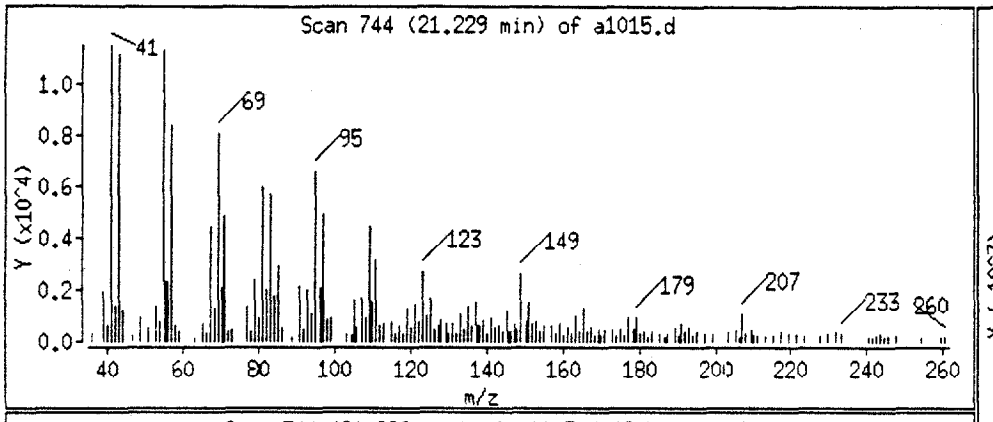
Instrument : a900.i

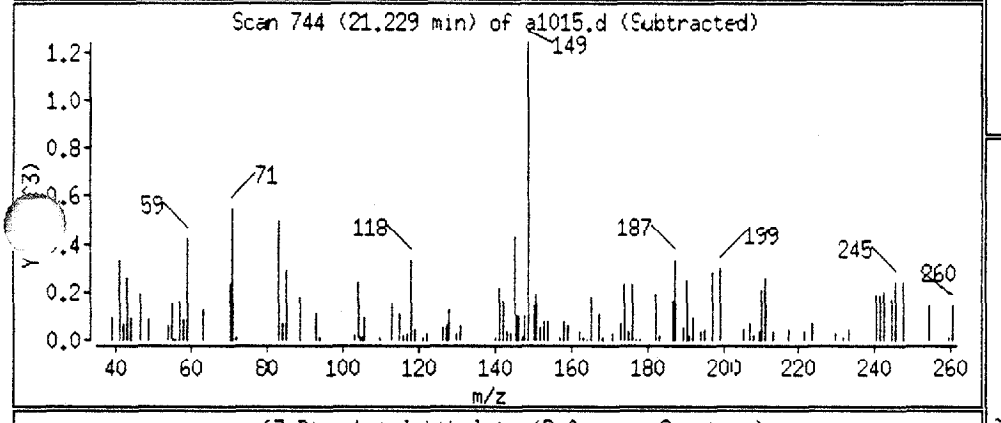
Sample ID :

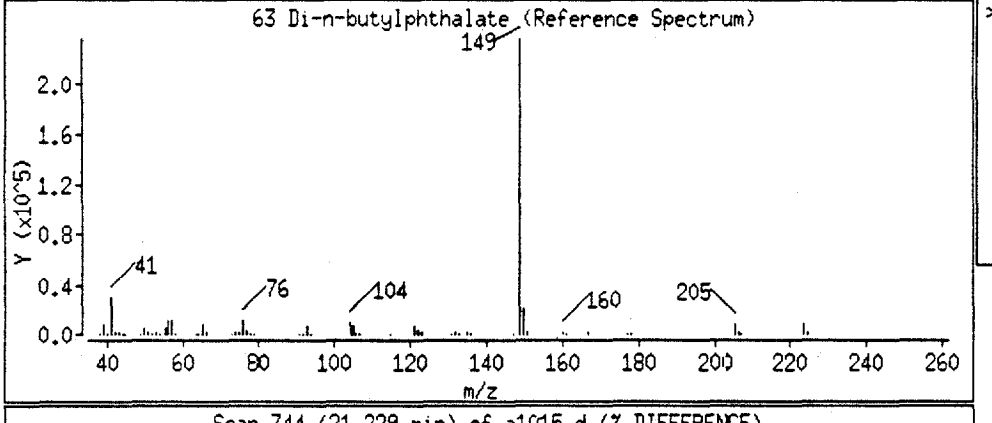
Column phase : J&W DB-5 Column diameter : 0.25

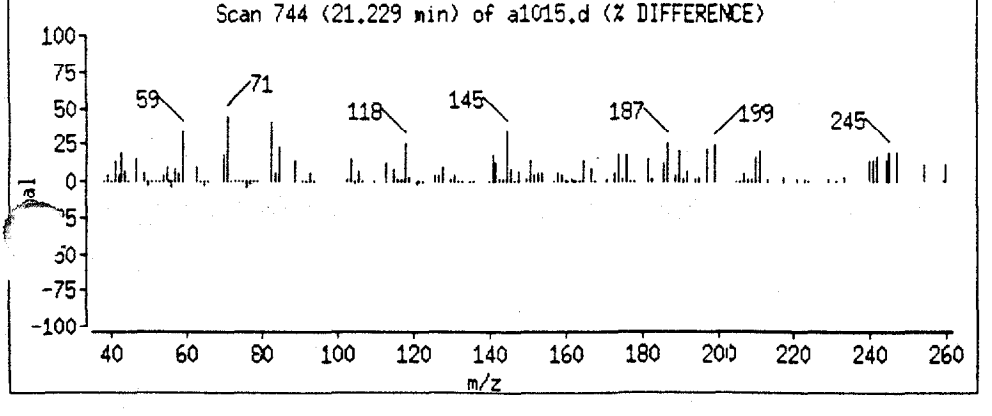
Volume Injected (uL) : 2.0

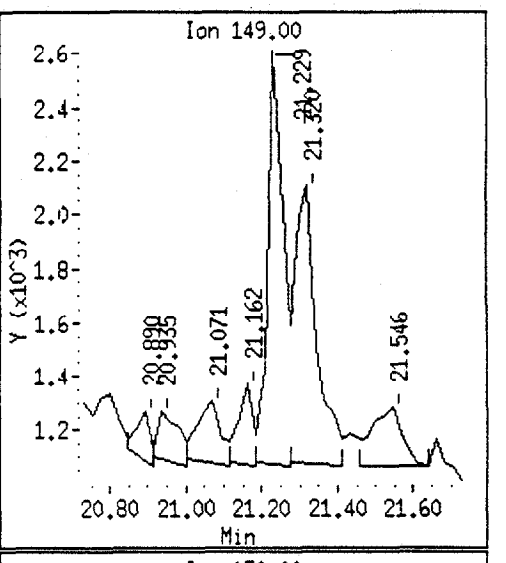
63 Di-n-butylphthalate

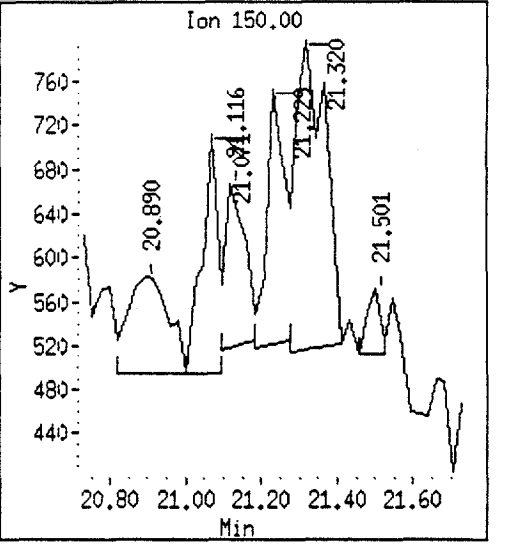












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

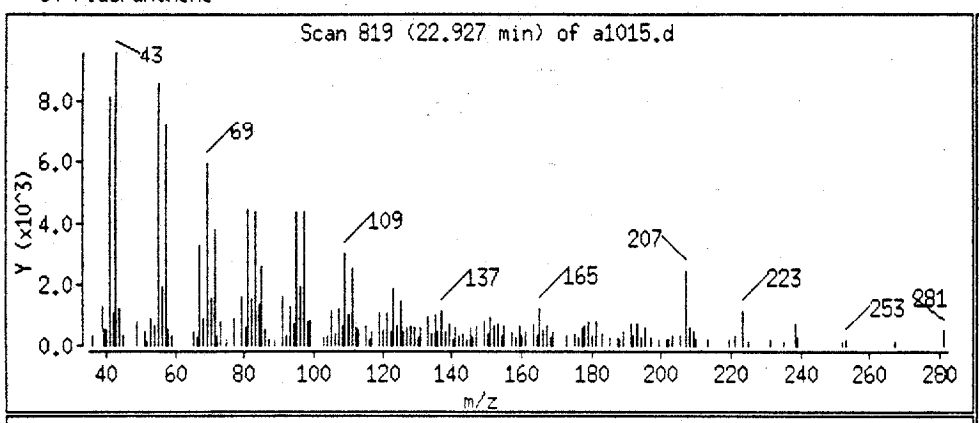
Instrument : a900.i

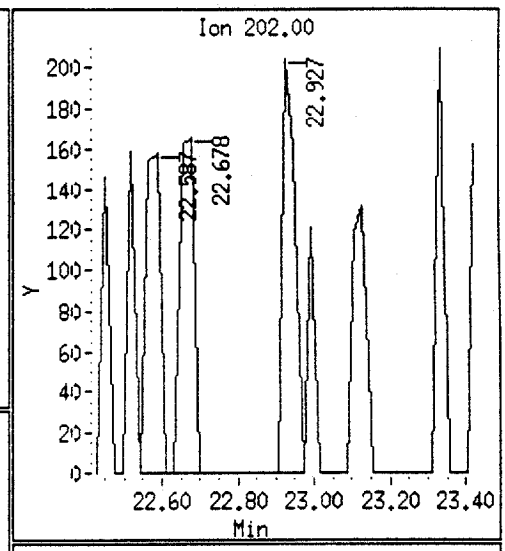
Sample ID :

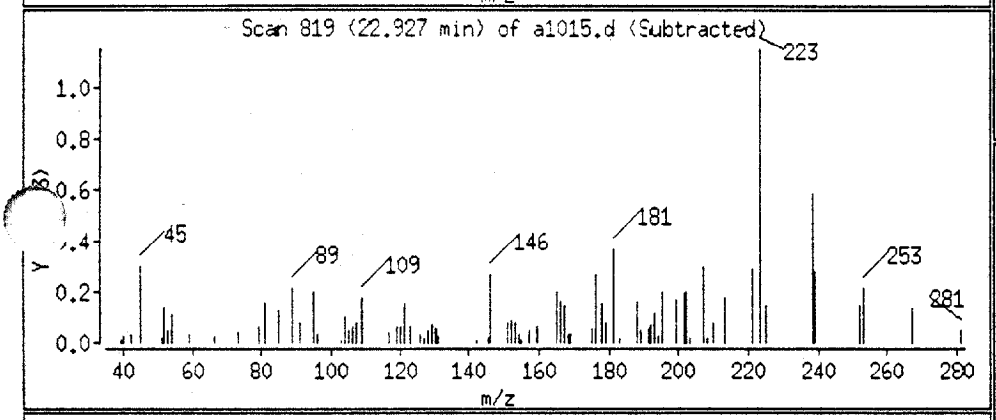
Column phase : J&W DB-5 Column diameter : 0.25

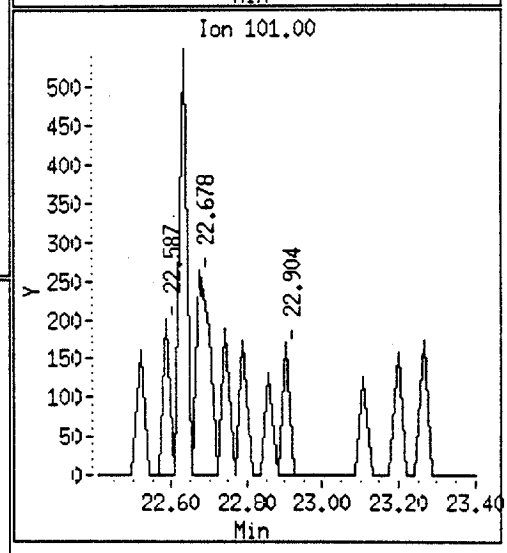
Volume Injected (uL) : 2.0

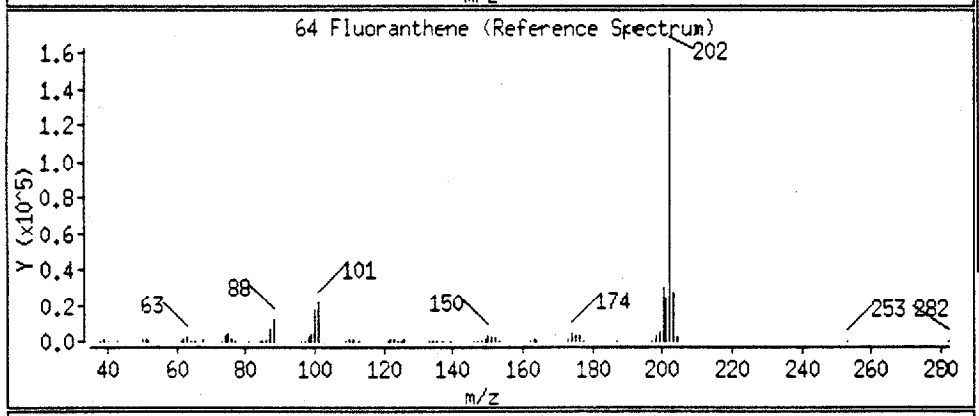
64 Fluoranthene

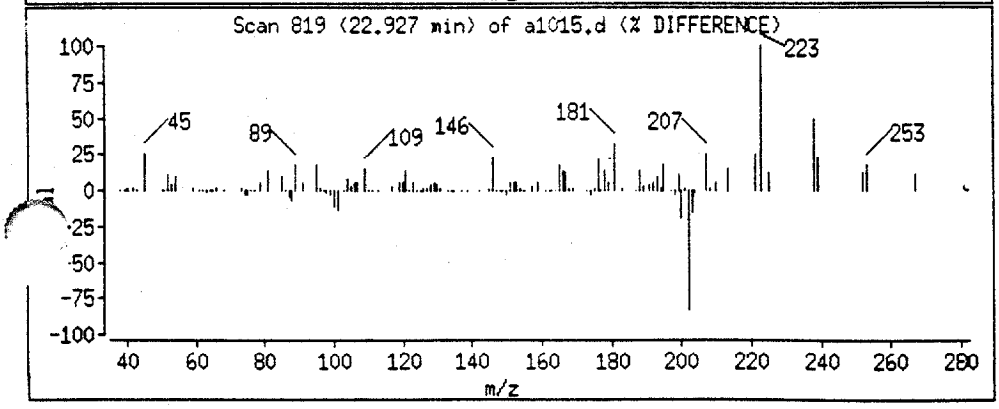












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

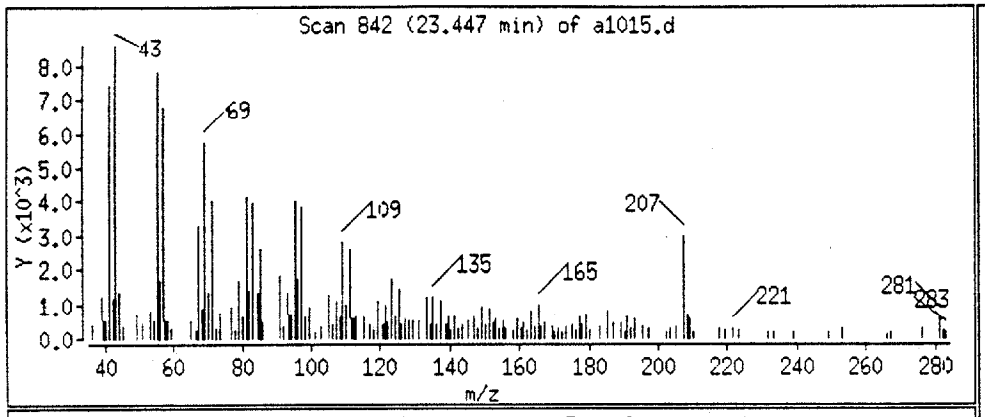
Instrument : a900.i

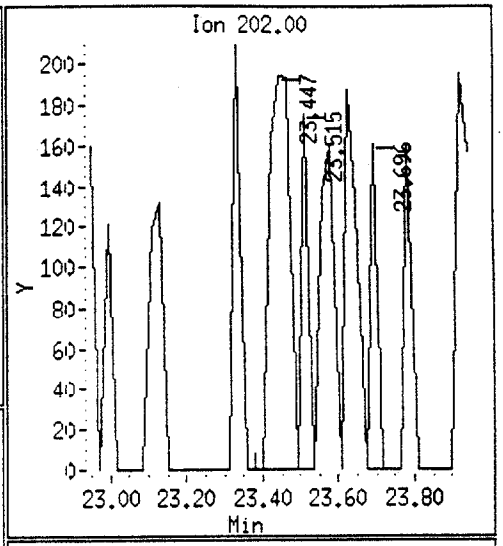
Sample ID :

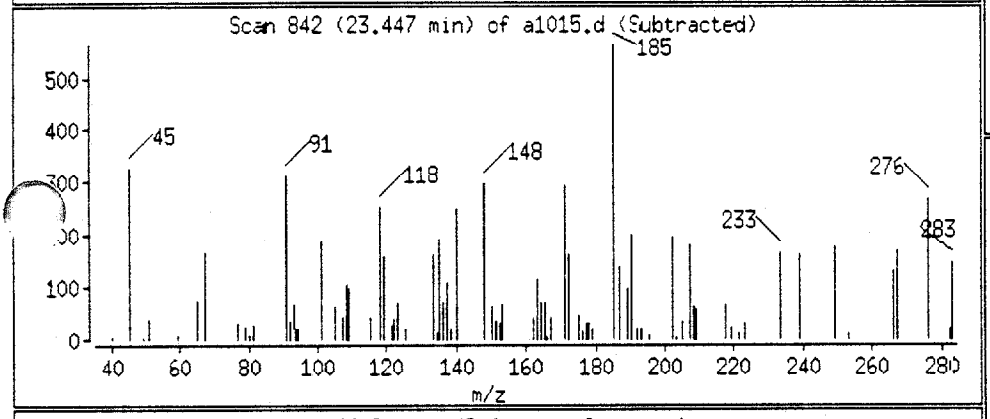
Column phase : J&W DB-5 Column diameter : 0.25

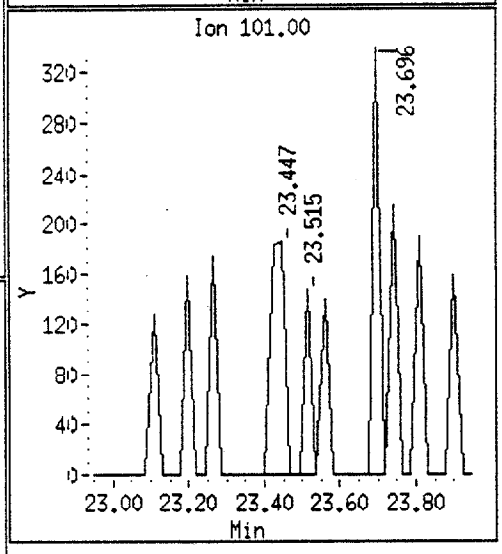
Volume Injected (uL) : 2.0

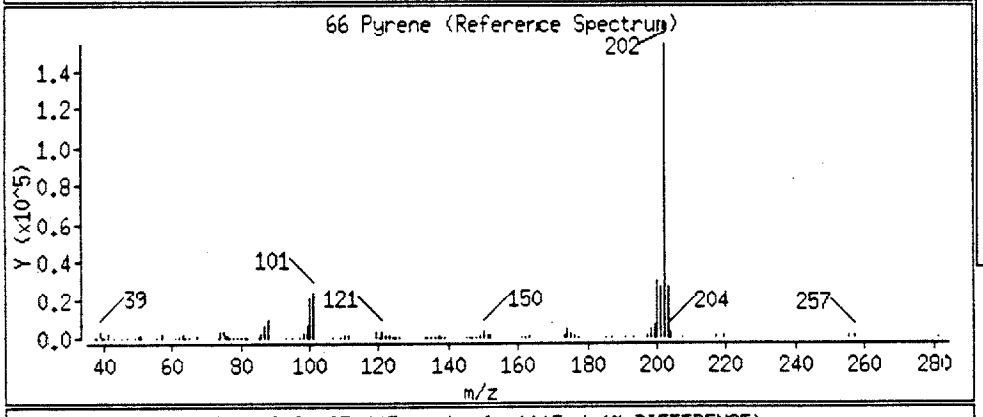
66 Pyrene

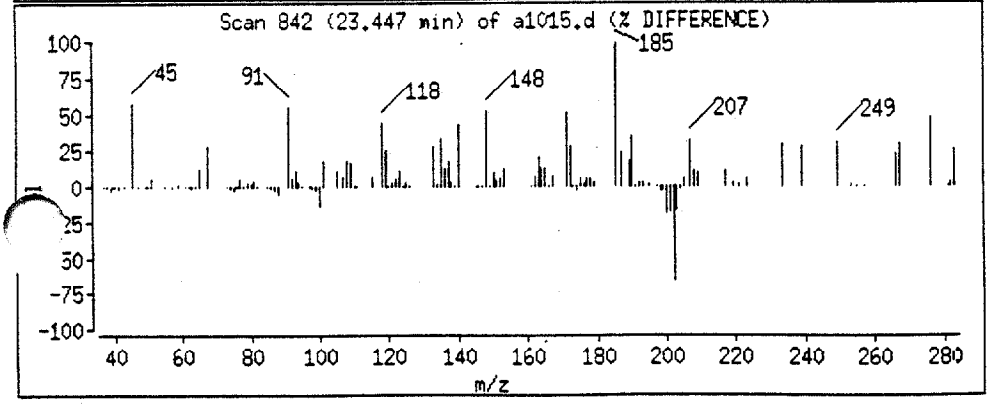












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

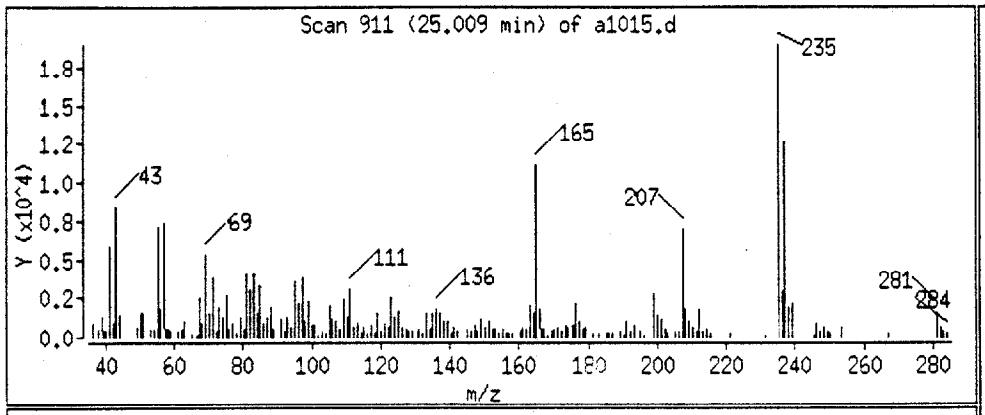
Instrument : a900.i

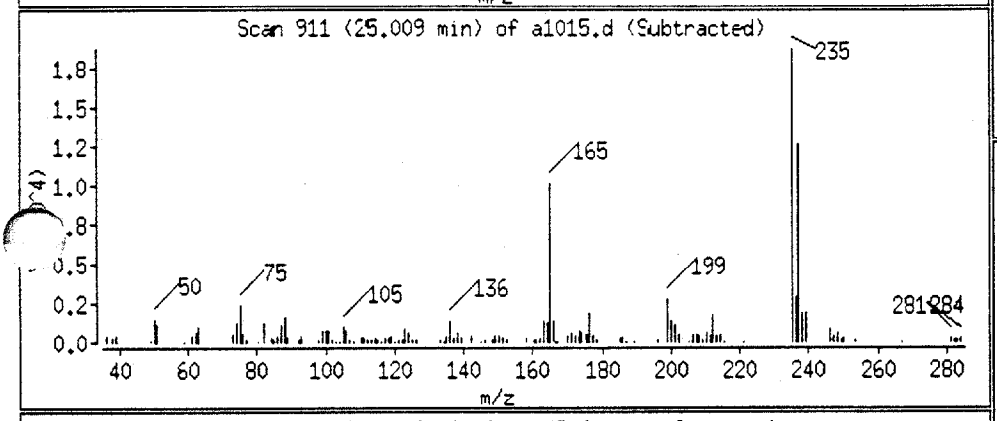
Sample ID :

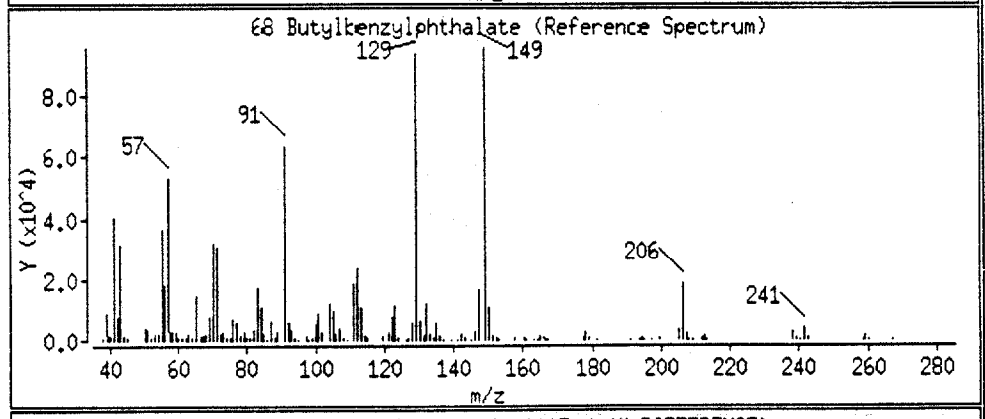
Column phase : J&W DB-5 Column diameter : 0.25

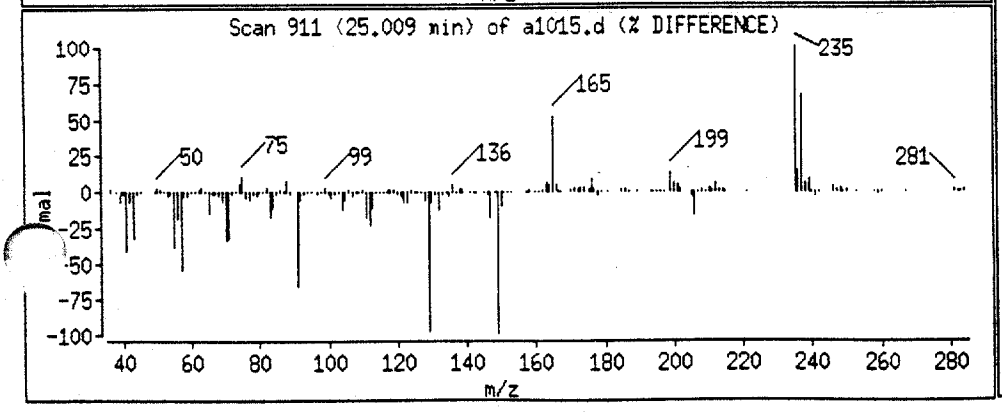
Volume Injected (uL) : 2.0

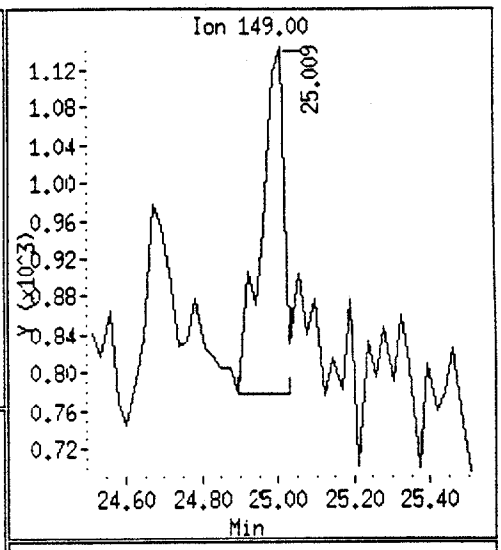
68 Butylbenzylphthalate

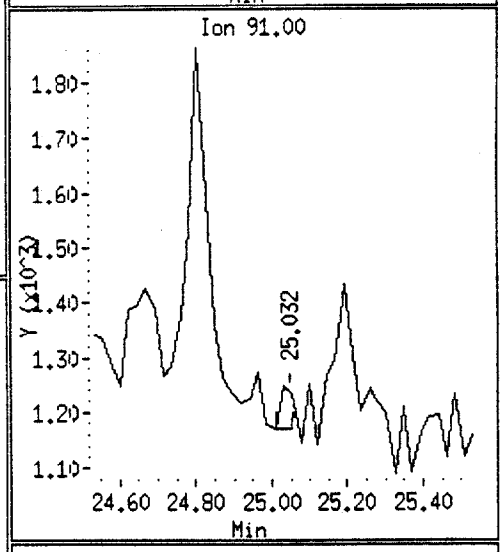


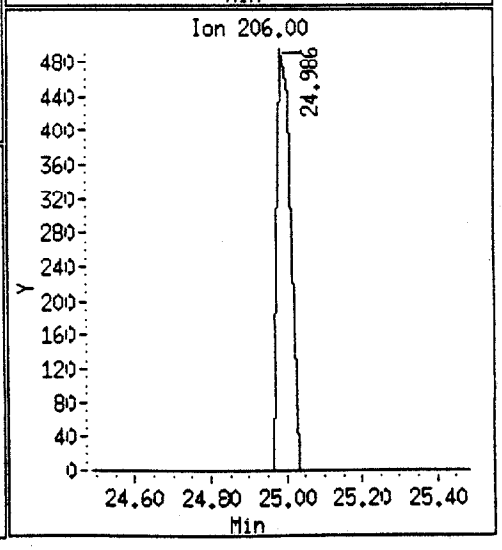












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

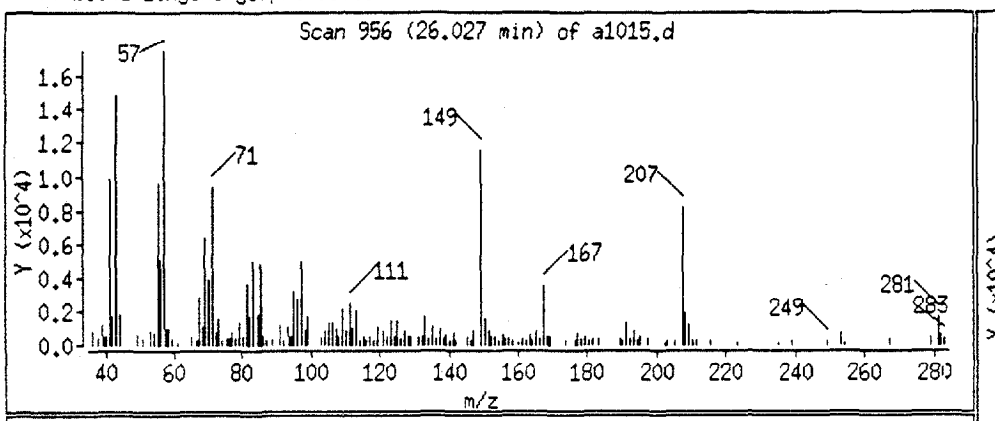
Instrument : a900.i

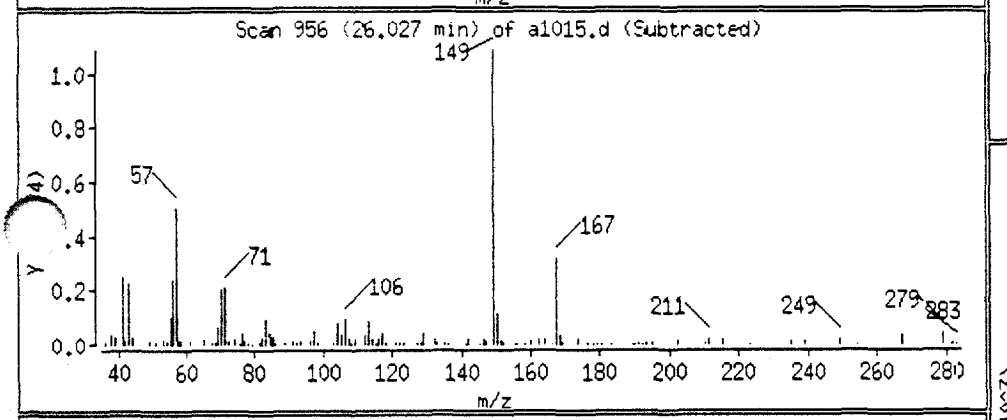
Sample ID :

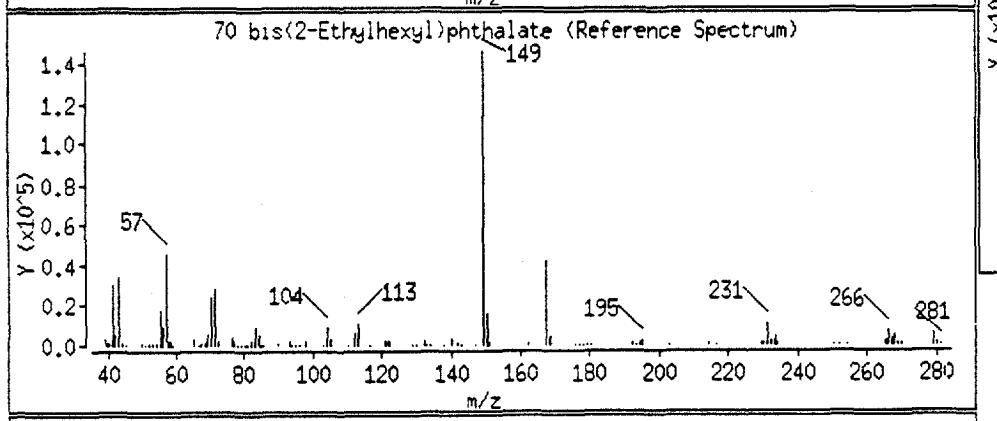
Column phase : J&W DB-5 Column diameter : 0.25

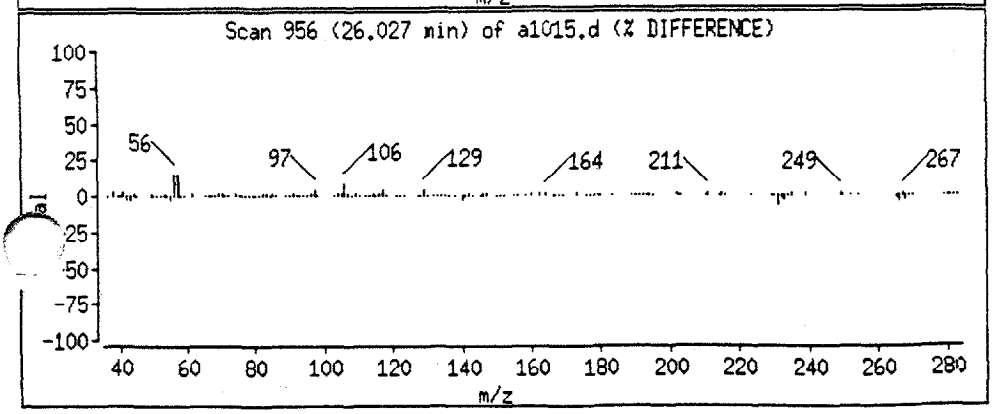
Volume Injected (uL) : 2.0

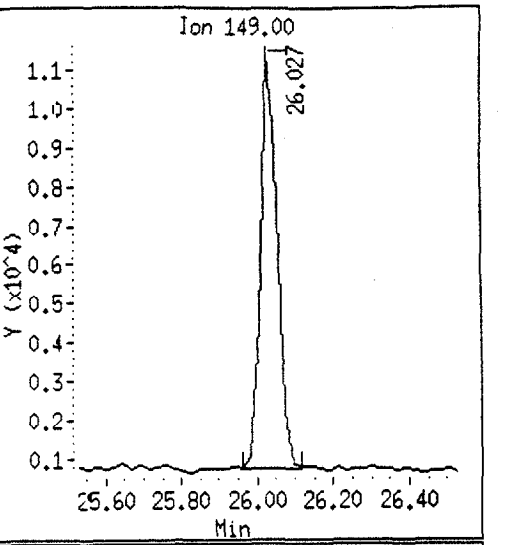
70 bis(2-Ethylhexyl)phthalate

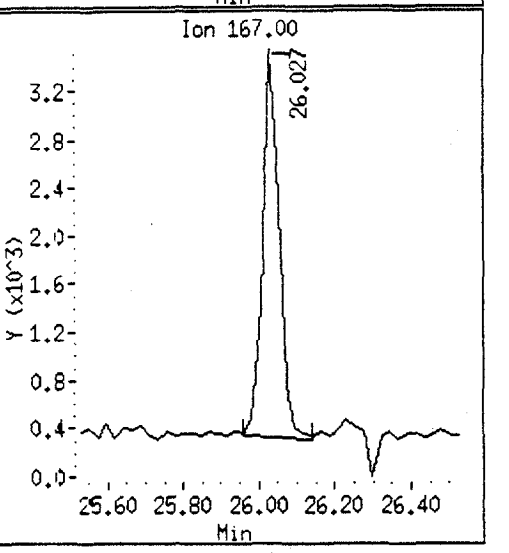












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

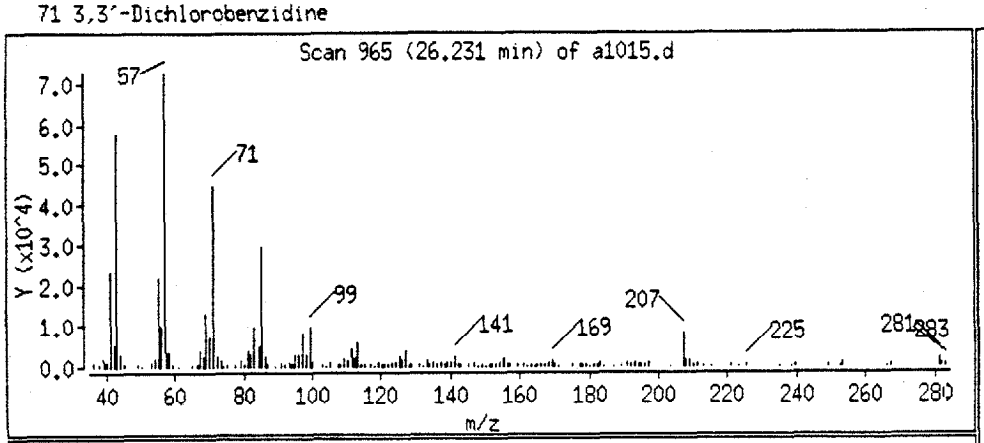
Instrument : a900.i

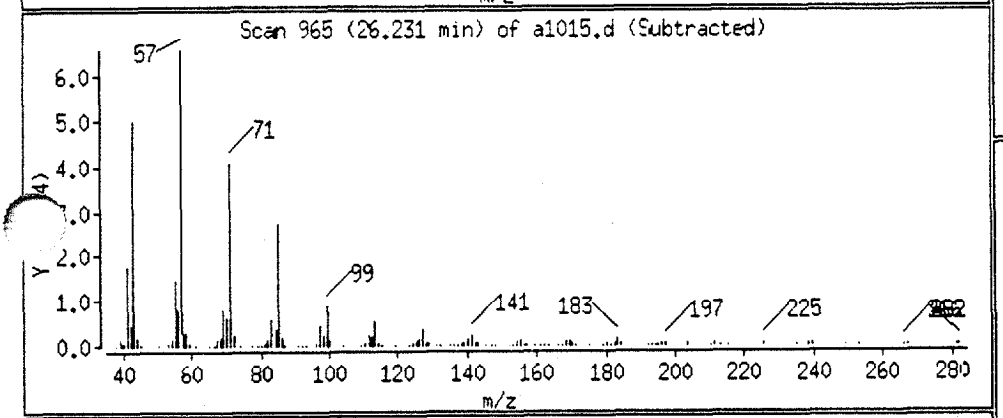
Sample ID :

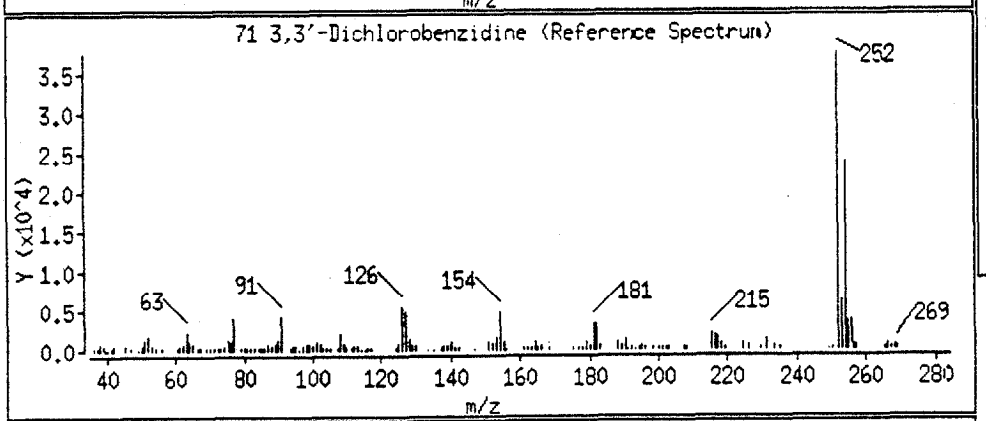
Column phase : J&W DB-5 Column diameter : 0.25

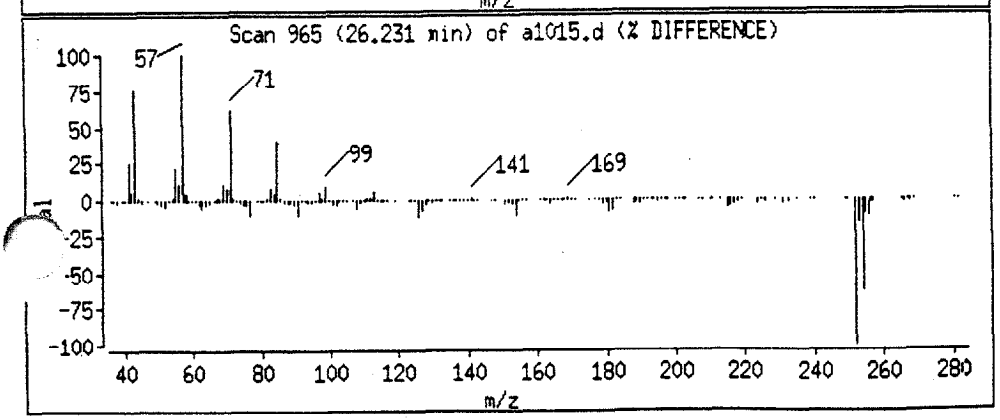
Volume Injected (uL) : 2.0

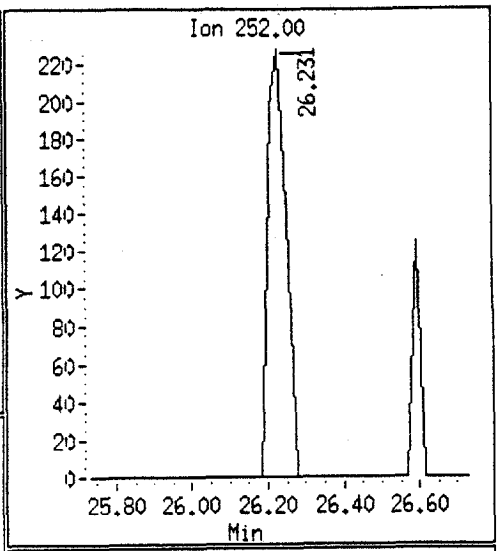
71 3,3'-Dichlorobenzidine

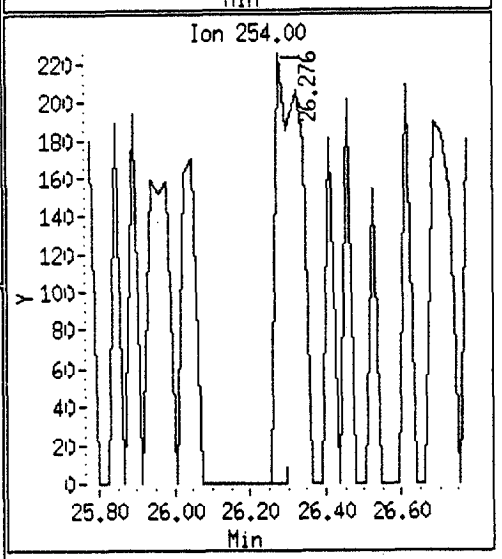












Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

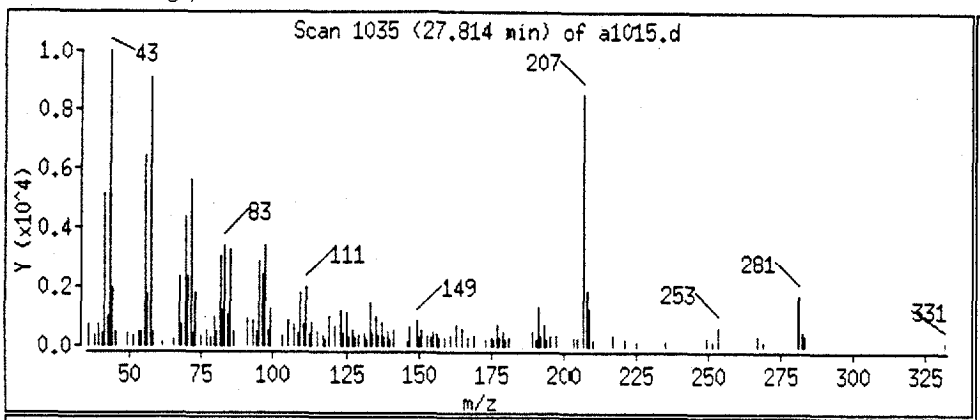
Instrument : a900.i

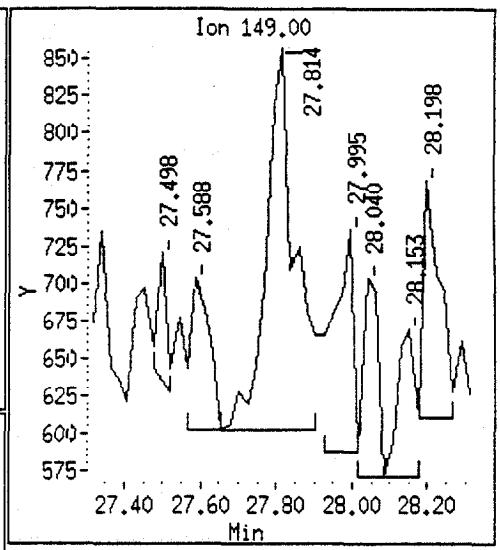
Sample ID :

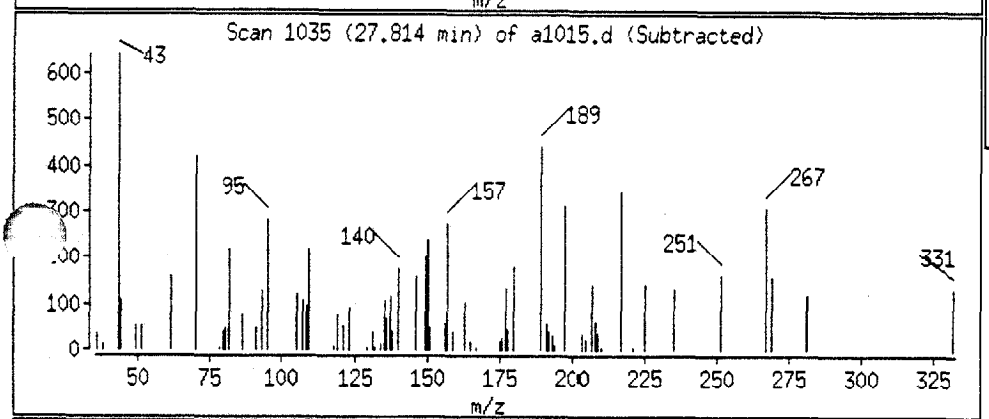
Column phase : J&W DB-5 Column diameter : 0.25

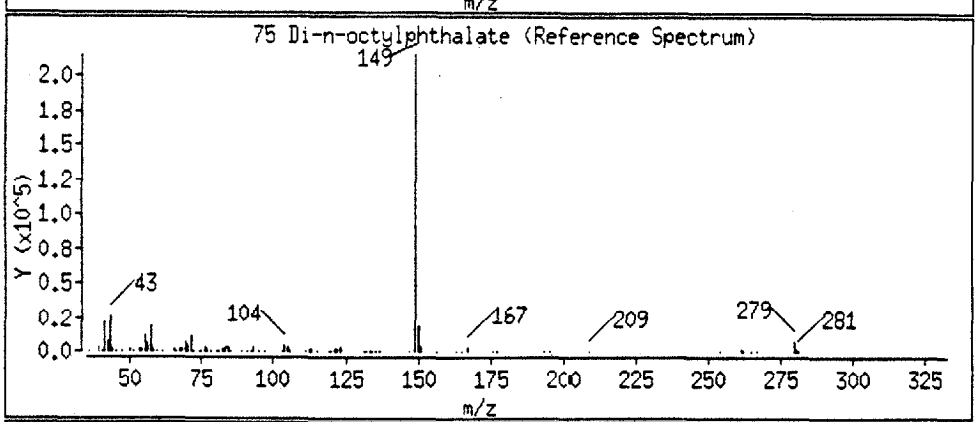
Volume Injected (uL) : 2.0

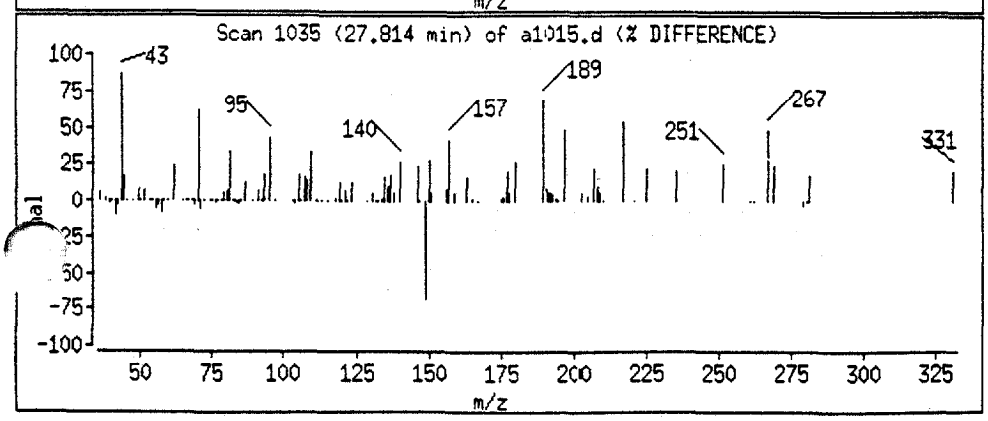
75 Di-n-octylphthalate











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: N2V337V

Sample wt/vol: 4.00 (g/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/L~~ ug/Kg

CAS NO.	COMPOUND		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	~~O~~-Xylene ~~(total)~~	625	U
	1,2-trans-Dichloroethene	625	U
	m-p-Xylenes	625	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: VBLK01

Lab Name: ASC Contract: NEESA

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: C6774

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: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSPK01

Lab Name: ASC Contract: NESA

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

Matrix: (soil/water) Soil Lab Sample ID: N2V3317VS

Sample wt/vol: 4.00 (g/mL) g Lab File ID: ^C6776

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)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	5950	
540-59-0	1,2-Dichloroethene (~~total~~) cis	DL ~~5990~~ 6090	
67-66-3	Chloroform	6580	
107-06-2	1,2-Dichloroethane	~~6090~~ ~~6160~~ 5990	5990
78-93-3	2-Butanone	~~6910~~ 5910	
71-55-6	1,1,1-Trichloroethane	6360	
56-23-5	Carbon Tetrachloride	6440	
75-27-4	Bromodichloromethane	6180	
78-87-5	1,2-Dichloropropane	6240	
10061-01-5	cis-1,3-Dichloropropene	5830	
79-01-6	Trichloroethene	6470	
124-48-1	Dibromochloromethane	6180	
79-00-5	1,1,2-Trichloroethane	6150	
71-43-2	Benzene	6520	
10061-02-6	trans-1,3-Dichloropropene	6430	
75-25-2	Bromoform	5980	
108-10-1	4-Methyl-2-Pentanone	5910	
591-78-6	2-Hexanone	6520	
127-18-4	Tetrachloroethene	6570	
79-34-5	1,1,2,2-Tetrachloroethane	6410	
108-88-3	Toluene	6480	
108-90-7	Chlorobenzene	6290	
100-41-4	Ethylbenzene	6450	
100-42-5	Styrene	6520	
1330-20-7	o-Xylene (total)	DL ~~19800~~ 6570	
106-46-7	1,4 Dichlorobenzene	6400	
	1,2-trans-Dichloroethene	6170	
	Mtp-Xylene	13,200	

FORM I VOA

1A
VOLATILE 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: JM3564VS

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)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	5680	
67-64-1	Acetone	6770	
75-15-0	Carbon Disulfide	5110	
75-35-4	1,1-Dichloroethene	5450	
75-34-3	1,1-Dichloroethane	5610	
540-59-0	1,2-Dichloroethene ~~(total)~~ cis	~~5670~~ ~~5560~~	5640
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	5700	
75-25-2	Bromoform	5210	
108-10-1	4-Methyl-2-Pentanone	5480	
591-78-6	2-Hexanone	5770	
127-18-4	Tetrachloroethene	5470	
79-34-5	1,1,2,2-Tetrachloroethane	5640	
108-88-3	Toluene	5380	
108-90-7	Chlorobenzene	5270	
100-41-4	Ethylbenzene	5530	
100-42-5	Styrene	5400	
1330-20-7	O-Xylene ~~(total)~~	~~16700~~ 5640	
106-46-7	1,4 Dichlorobenzene	5200	
	1,2-trans-Dichloroethylene	5580	
	m,p-Xylenes	11,000	

EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

C6577MSD

Lab Name: ASC Contract: NELSA

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

Matrix: (soil/water) Soil Lab Sample ID: Jm3564VR

Sample wt/vol: DW 4.01 (g/mL) g Lab File ID: C6778

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: 14,000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND		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	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~~) cis	DL ~~5610~~ 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	5930	
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	
591-78-6	2-Hexanone	DL ~~5555~~ 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 ~~17300~~ 5910	
106-46-7	1,4 Dichlorobenzene		
	1,2-trans-Dichloroethene	5610	
	m-p-Xylenes	11,400	

1A
VOLATILE 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: 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)

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

CAS NO.	COMPOUND		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~~) cis	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	625	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	o-Xylene (~~total~~) m,p	625	U
106-46-7	1,4 Dichlorobenzene		
	1,2-trans-Dichloroethene	625	U
	m-p-Xylenes	625	U

EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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: 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: 12000 (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.	1120214	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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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	VBLKC1	90.0	94.3	92.5		0
02	VSPK01	93.0	91.6	93.2		0
03	C6527MS	87.2*	87.0	90.4		1
04	C6527MSD	86.7*	88.7	89.5		1
05	C6527	82.2*	86.8	81.6*		~~2~~ 1
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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~~) ug/kg	BLANK CONCENTRATION (~~ug/L~~) ug/kg	BS CONCENTRATION (~~ug/L~~) ug/kg	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	6250	0	6160	98.4	61-145
Trichloroethene	6250	0	6470	104	71-120
Benzene	6250	0	6520	104	76-127
Chlorobenzene	6250	0	6290	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	6250		6400	102	

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

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

COMMENTS:

3B

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	6260	0	5450	87.1	59-172
Trichloroethene	6250	0	5460	87.4	62-137
Benzene	6240	0	5500	88.1	66-142
Toluene	6260	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	QC LIMITS REC.
1,1-Dichloroethene	6260	5800	92.7	6.23	22	59-172
Trichloroethene	6250	5880	94.1	7.38	24	62-137
Benzene	6240	5890	94.4	6.90	21	66-142
Toluene	6260	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.

VBLK01

Lab Name: ASC Contract: NEESA

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	C6527MS	JM3514VS	C6777	15:12
02	C6527MSD	JM3514VR	C6778	15:43
03	C6527	JM3514V	C6775	10:35
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COMMENTS:

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: ~~C6772~~ 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	VBLK01	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	C6779	2-25-94	10:35
06	VSTD50	CHK STD	C6773	2-25-94	9:12
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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

0187

Lab Name: ASC Contract: NFESP

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: DB-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	.60692	.58121	.57393	.58211	3.75
Chloromethane	.94125	1.05454	1.00925	1.01801	1.06739	1.01815	4.85
Bromomethane	*1.26328	1.26888	1.20351	1.13374	1.16205	1.20569	4.95 *
Vinyl Chloride	*1.14186	1.20088	1.24413	1.22529	1.24318	1.21107	3.51 *
Chloroethane	.65149	.70997	.60786	.54144	.53819	.61459	12.52
Methylene Chloride	1.34548	1.47603	1.31238	1.27646	1.27468	1.32161	4.17
Acetone	.40344	.38429	.34934	.28540	.29147	.34378	15.93
Carbon Disulfide	3.51747	3.81899	3.61241	3.53692	3.58367	3.61389	3.34
1,1-Dichloroethene	*1.10158	1.24101	1.25683	1.21331	1.21967	1.21109	5.38 *
1,1-Dichloroethane	*2.47563	2.77124	2.66813	2.64961	2.64560	2.64205	4.02 *
1,2-Dichloroethene (~~total~~) cis	1.25785	1.46758	1.38860	1.39731	1.41090	1.38445	5.57
Chloroform	*2.80031	2.98539	2.90614	2.35109	2.87316	2.86222	3.78 *
1,2-Dichloroethane	*1.81489	2.12121	2.07701	2.09188	2.09635	2.03025	6.17 *
2-Butanone	—	.01743	.02139	.02090	.02032	.02001	8.88
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	.83568	.82652	.81011	.80395	5.18 *
1,2-Dichloropropane	.40285	.44194	.44374	.43752	.42713	.43064	3.91
cis-1,3-Dichloropropene	*.45796	.54939	.54662	.56359	.55360	.53423	8.07 *
Trichloroethene	*.46564	.49249	.47712	.47073	.46166	.47353	2.55 *
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	9.85 *
Bromoform	*.43988	.50912	.53777	.53830	.51635	.50829	7.94 *
4-Methyl-2-Pentanone	.11158	.12510	.13933	.13289	.12984	.12775	5.15
2-Hexanone	.39698	.32382	.38750	.37344	.37667	.37150	7.57
Tetrachloroethene	*.53739	.57270	.58225	.57496	.56336	.56613	3.03 *
1,1,2,2-Tetrachloroethane	*.58391	.61338	.64745	.62649	.63472	.62159	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	*.39110	.44811	.45007	.44237	.43726	.43539	4.80 *
Styrene	*.75321	.87509	.90640	.91918	.91248	.87327	7.93 *
o-Xylene (~~total~~)	*.54818	.60595	.64422	.61383	.60380	.60460	5.18 *
Toluene-d8	.986224	1.01860	1.12667	1.10400	1.09564	1.06623	5.67
Bromofluorobenzene	1.02183	1.00174	1.09470	1.03189	1.02844	1.03532	3.39 *
1,2-Dichloroethane-d4	1.63585	1.80000	1.85725	1.85119	1.82758	1.79438	5.10
1,2-trans-dichloroethylene	1.23228	1.39197	1.32246	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: C6773 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	$\overline{RRF}$	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	1.16463	0.100	3.83	25.0
Chloroethane	.61459	.56792		7.59	
Methylene Chloride	1.32361	1.26110		4.72	
Acetone	.34378	.22664		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 cis	2.64205	2.65159	0.200	.36	25.0
1,2-Dichloroethene (~~total~~)	1.38445	1.38777		.24	
Chloroform	2.36122	2.31768	0.200	1.52	25.0
1,2-Dichloroethane	2.03035	2.09003	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	.43044	.42237		1.92	
cis-1,3-Dichloropropene	.53433	.55983	0.200	4.79	25.0
Trichloroethene	.47353	.44361	0.300	6.32	25.0
Dibromochloromethane	.64146	.61374	0.100	4.32	25.0
1,1,2-Trichloroethane	.31894	.30882	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	.50329	.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	1.03670	0.500	5.77	25.0
Ethylbenzene	.43539	.44235	0.100	1.60	25.0
Styrene	.87327	.89027	0.300	1.95	25.0
o+Xylene (~~total~~)	.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	1.79458	1.88453		5.01	
1,2-trans-Dichloroethene	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

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	44882	9.96	33938	16.38
EPA SAMPLE NO.						
01 VBLK01	20736	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
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17						
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19						
20						
21						
22						

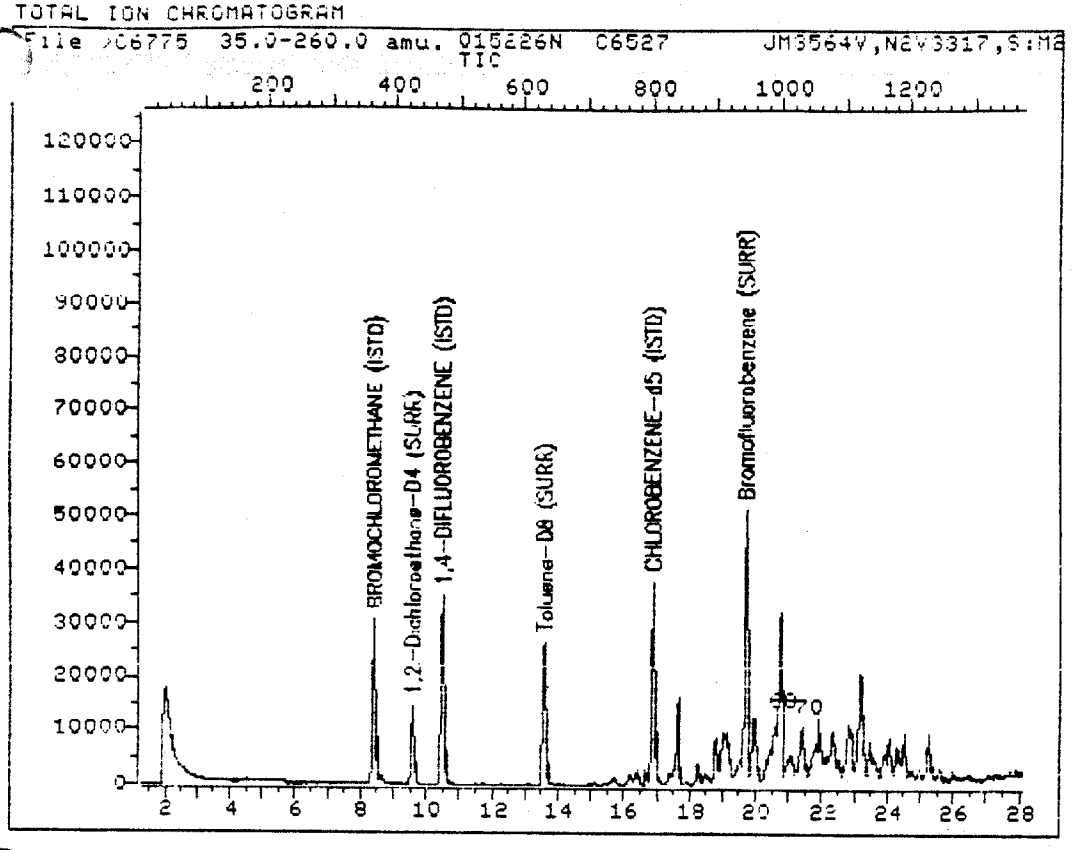
IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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.

page __ of __

TOTAL ION CHROMATOGRAM



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

TQIC

0191

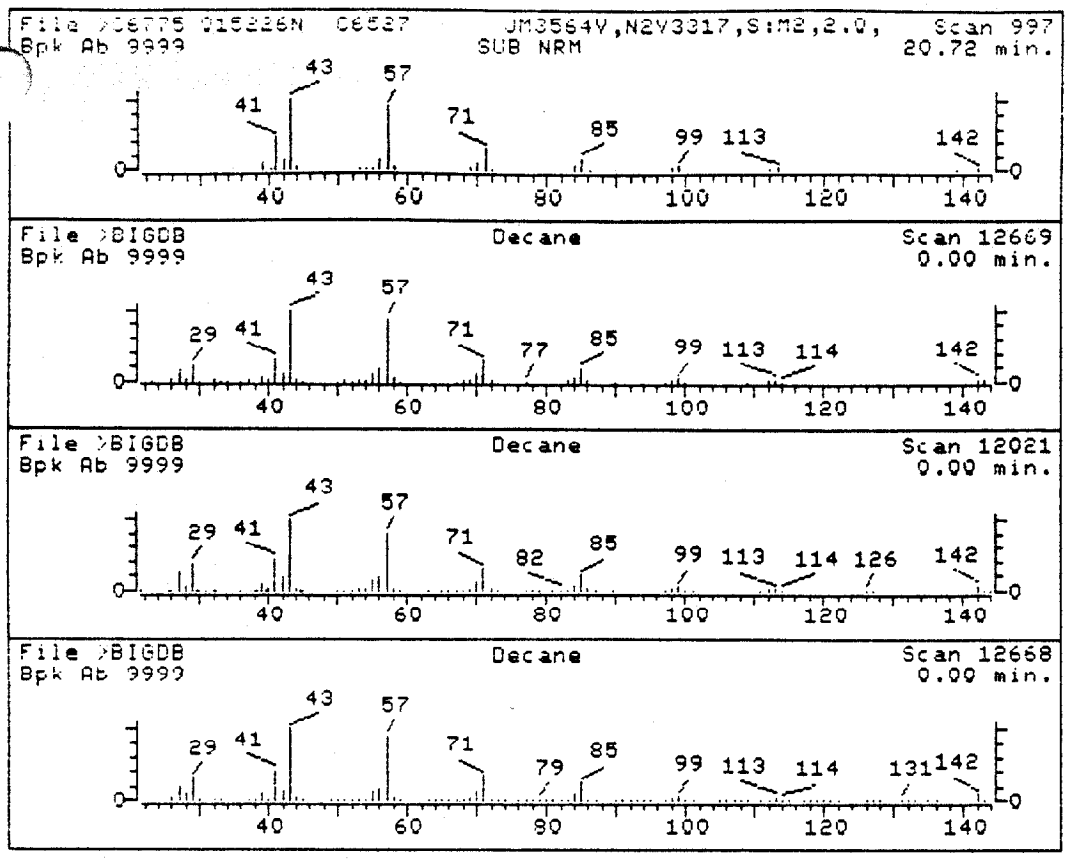
QUANT REPORT

Operator ID: JEFF Quant Rev: 7 Quant Time: 940225 11:19
Output File: ^C6775::QT Injected at: 940225 10:35
Data File: >C6775::D5 Dilution Factor: 1.00000
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

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	8.39	128.0	21247	50.00	ug/l	88
26)	1,2-Dichloroethane-D4 (SURR)	9.56	65.0	31105	40.79	ug/l	80
29)	*1,4-DIFLUOROBENZENE (ISTD)	10.48	114.0	80253	50.00	ug/l	89
48)	*CHLOROBENZENE-d5 (ISTD)	16.86	117.0	62736	50.00	ug/l	89
49)	Toluene-D8 (SURR)	13.58	98.0	54988	41.10	ug/l	89
60)	Bromofluorobenzene (SURR)	19.67	95.0	56371	43.39	ug/l	88
68)	1,3,5-Trimethylbenzene	20.65	105.0	4958	2.59	ug/l	82
70)	1,2,4-Trimethylbenzene	21.43	105.0	9533	4.94	ug/l	74

* Compound is ISTD

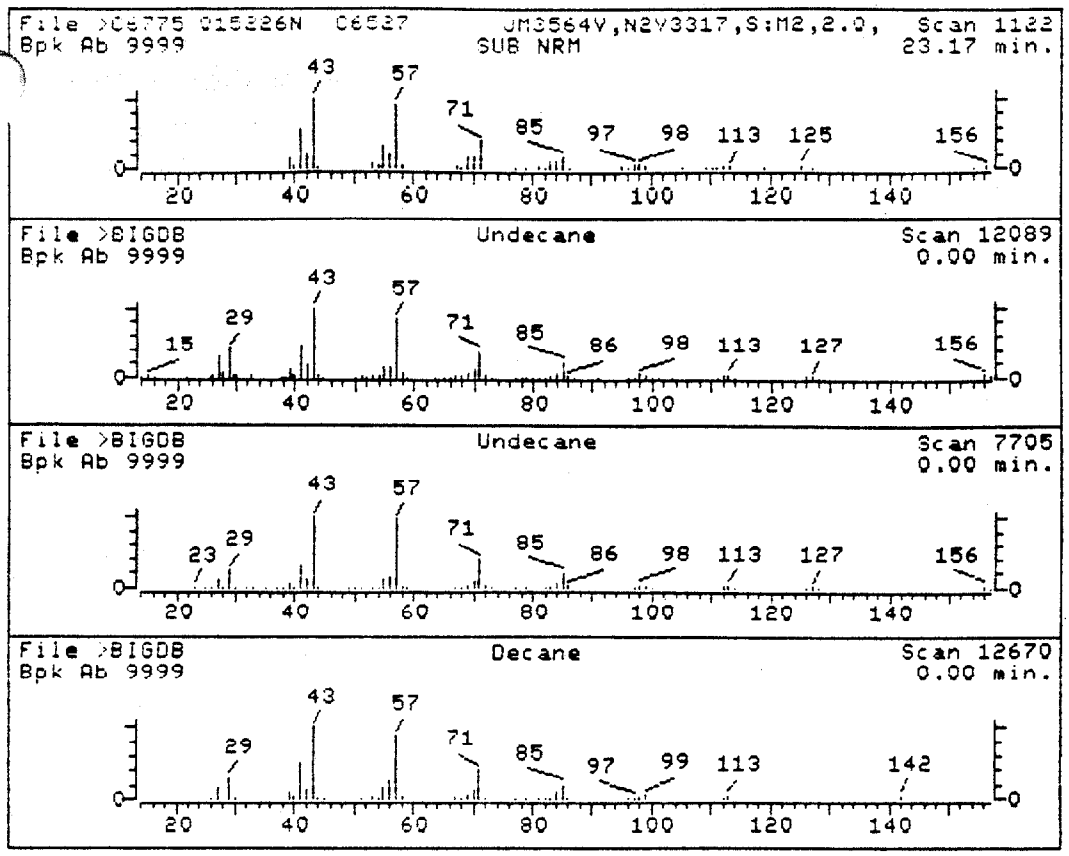


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 20.72
Scan: 997
Area: 195721 Rank: 3
Semi-quantitative Conc (uncorrected): 43.82 ug/l
Semi-quantitative Conc (corrected): 1095.52 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

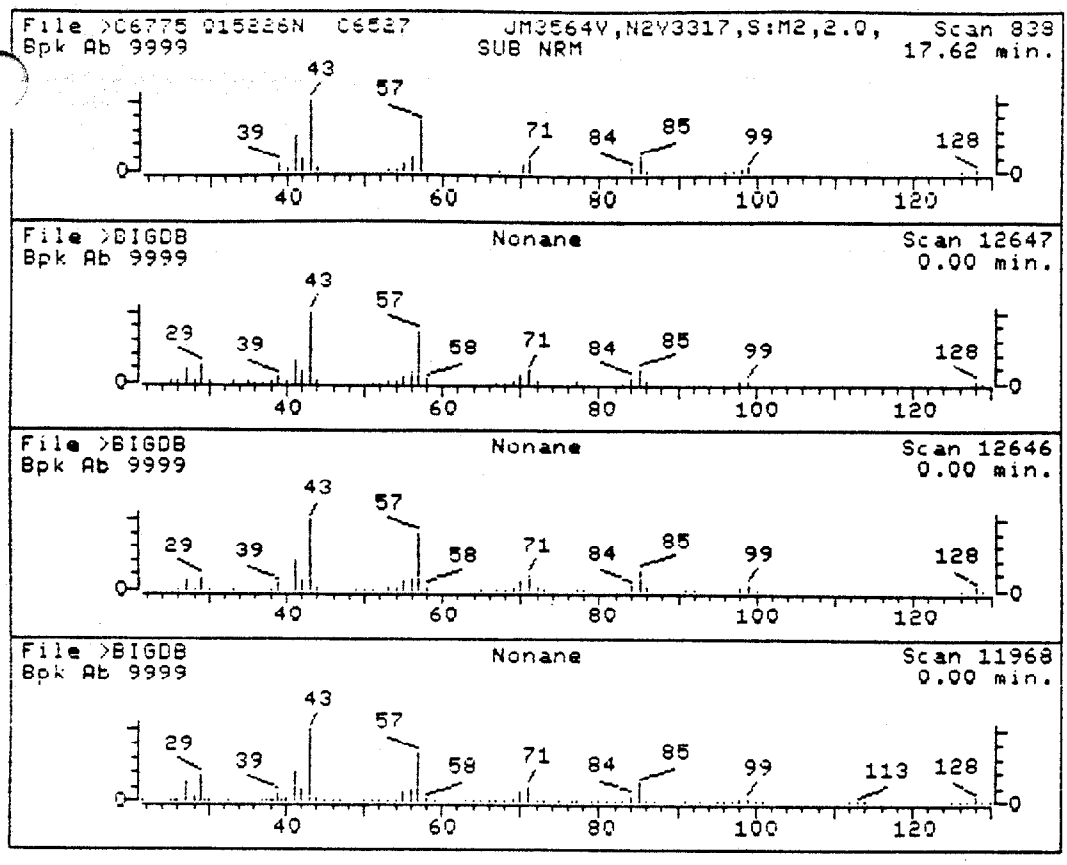


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 23.17
Scan: 1122
Area: 139565 Rank: 5
Semi-quantitative Conc (uncorrected): 31.25 ug/l
Semi-quantitative Conc (corrected): 781.19 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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
2.	93*	1120214	7705	"BIGDB	70	26	0	0	93	4	68	89
	83	124185	12670	"BIGDB	61	38	1	0	77	5	57	22

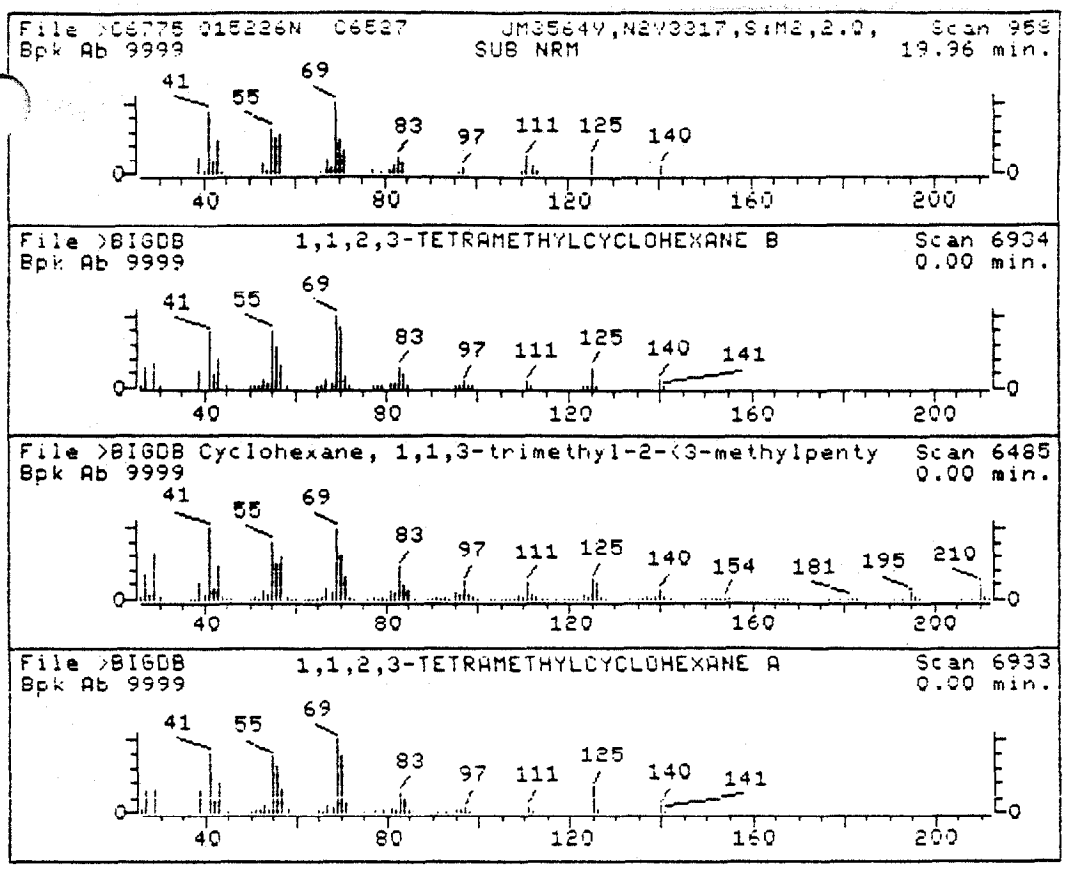


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 17.62
Scan: 838
Area: 114147 Rank: 6
Semi-quantitative Conc (uncorrected): 25.56 ug/l
Semi-quantitative Conc (corrected): 638.92 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

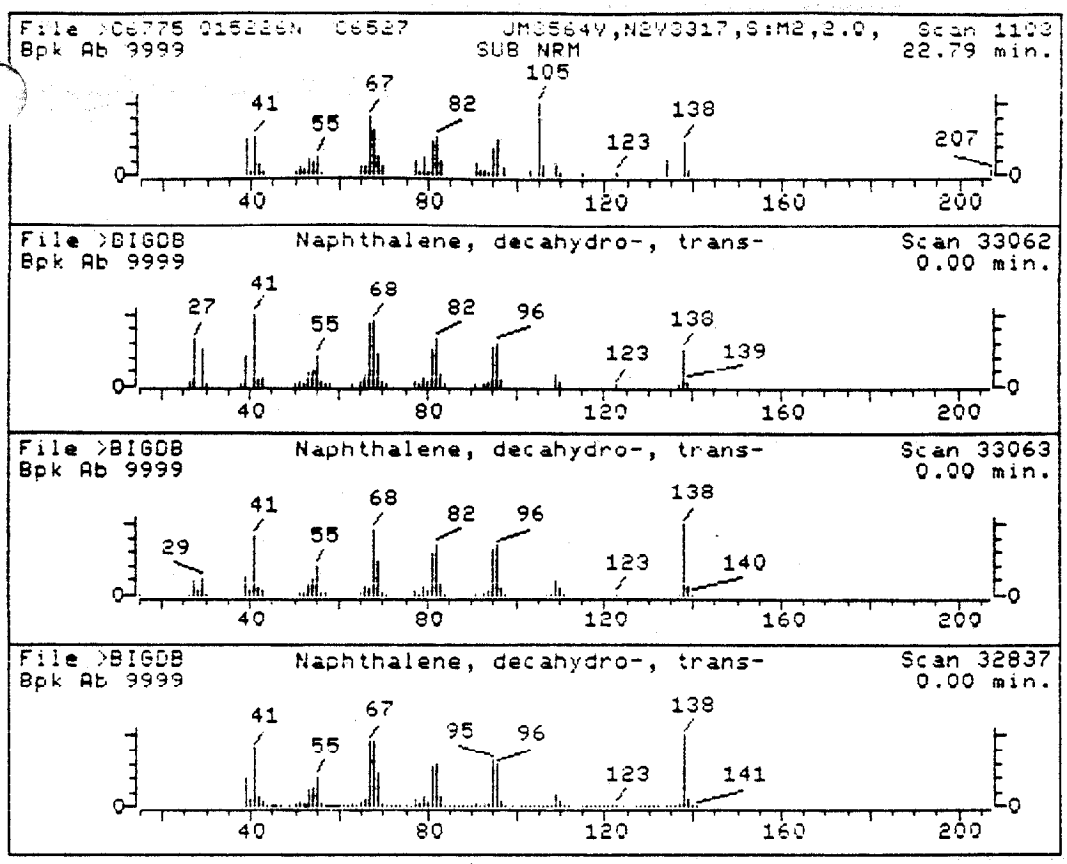


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 19.96
Scan: 958
Area: 81172 Rank: 8
Semi-quantitative Conc (uncorrected): 18.17 ug/l
Semi-quantitative Conc (corrected): 454.35 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

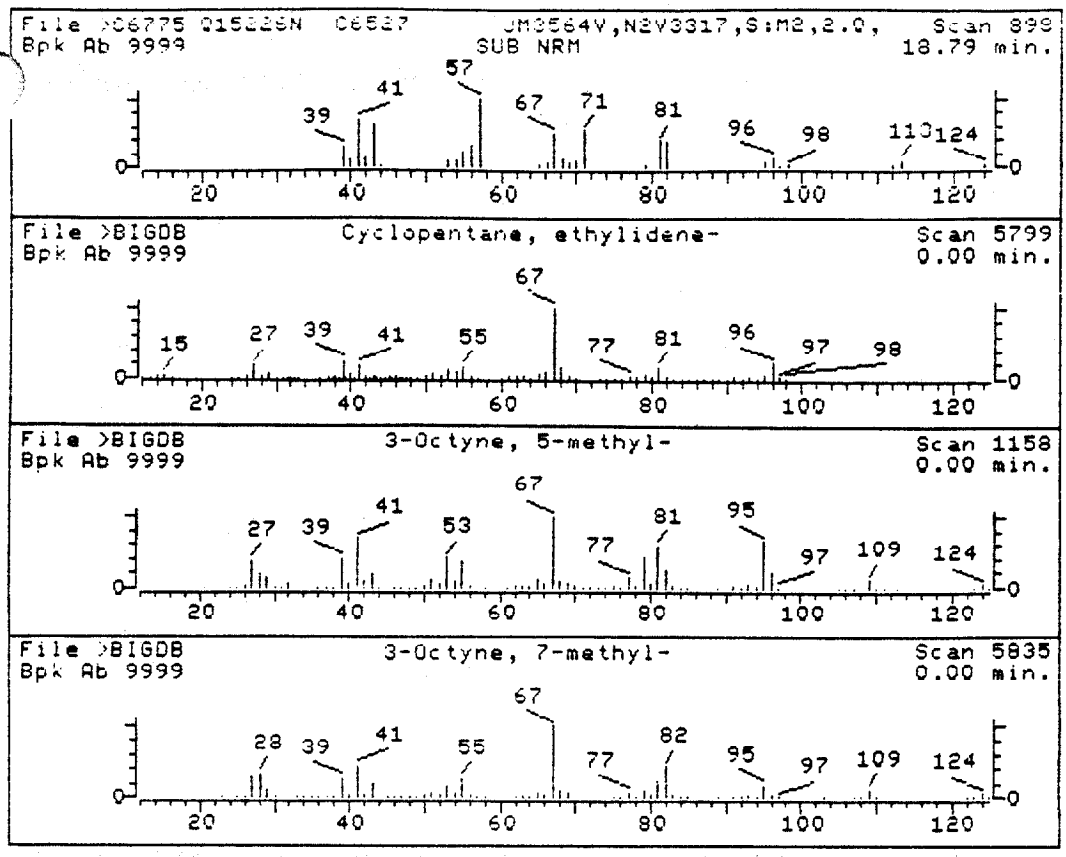


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 22.79
Scan: 1103
Area: 61753 Rank: 9
Semi-quantitative Conc (uncorrected): 13.83 ug/l
Semi-quantitative Conc (corrected): 345.65 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

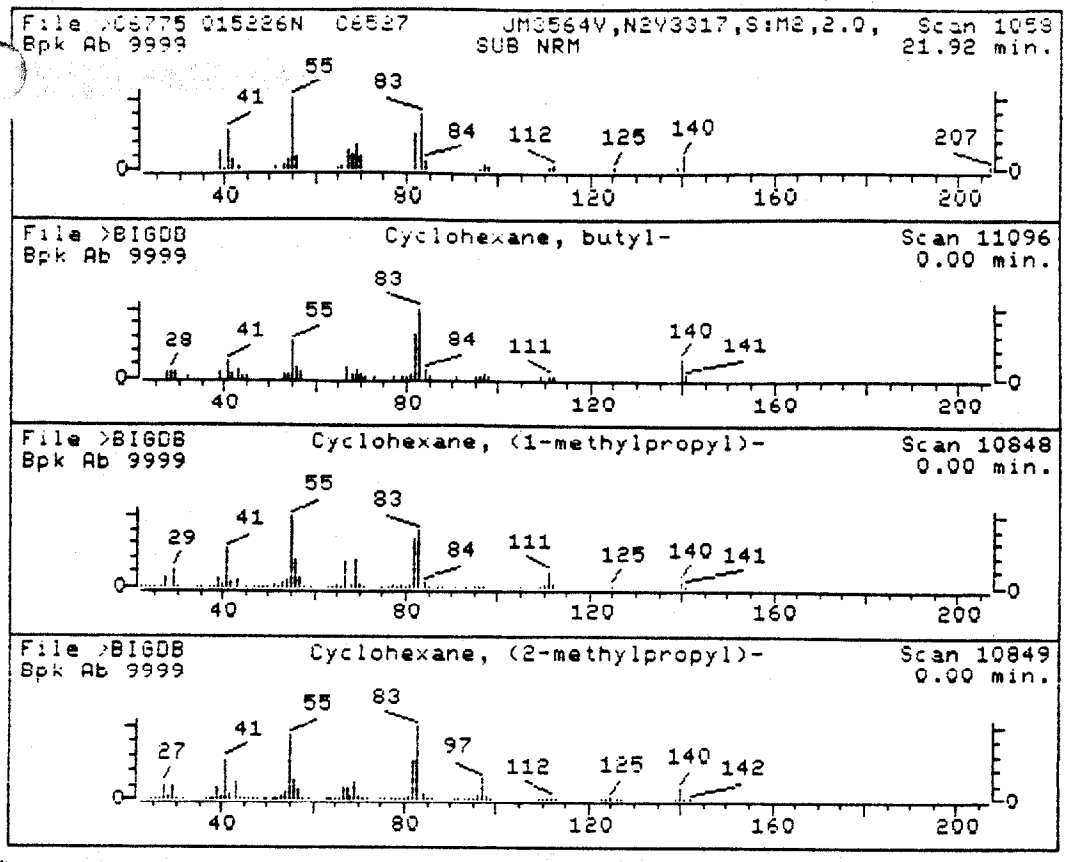


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 18.79
Scan: 898
Area: 59772 Rank: 10
Semi-quantitative Conc (uncorrected): 13.38 ug/l
Semi-quantitative Conc (corrected): 334.56 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

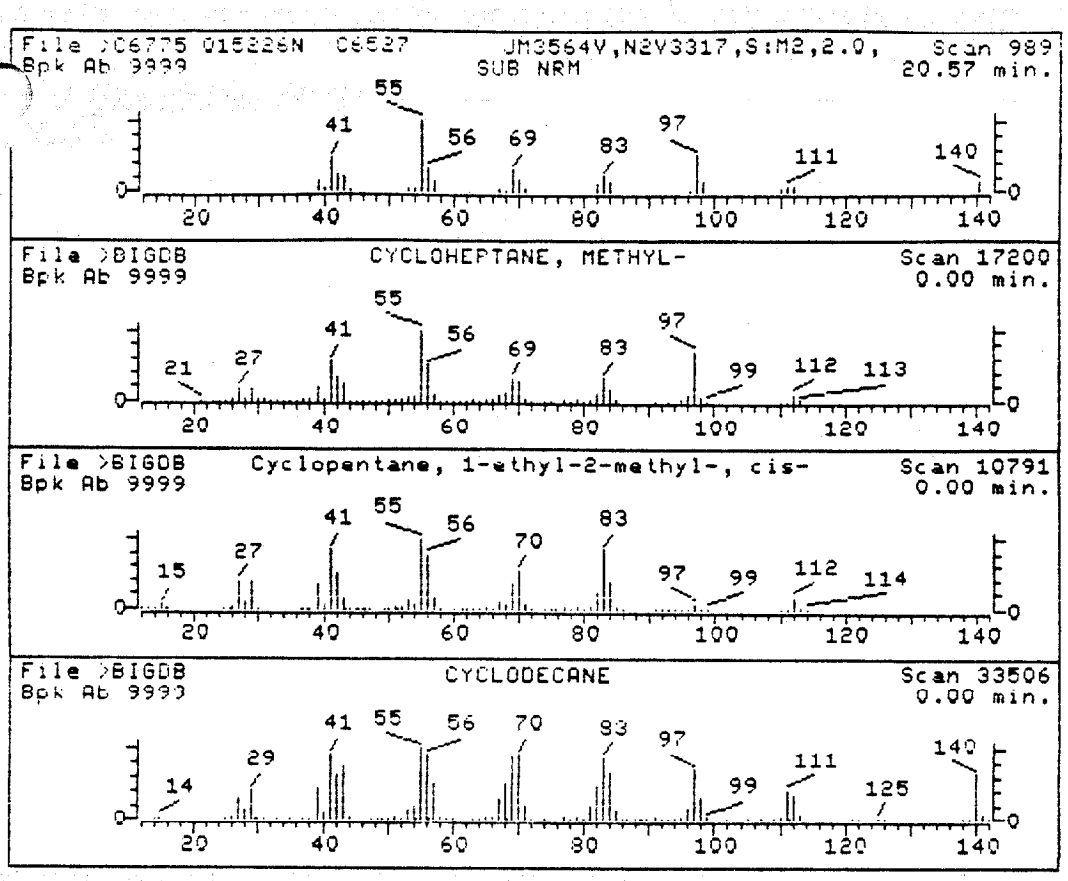


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 21.92
Scan: 1058
Area: 50928 Rank: 11
Semi-quantitative Conc (uncorrected): 11.40 ug/l
Semi-quantitative Conc (corrected): 285.06 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

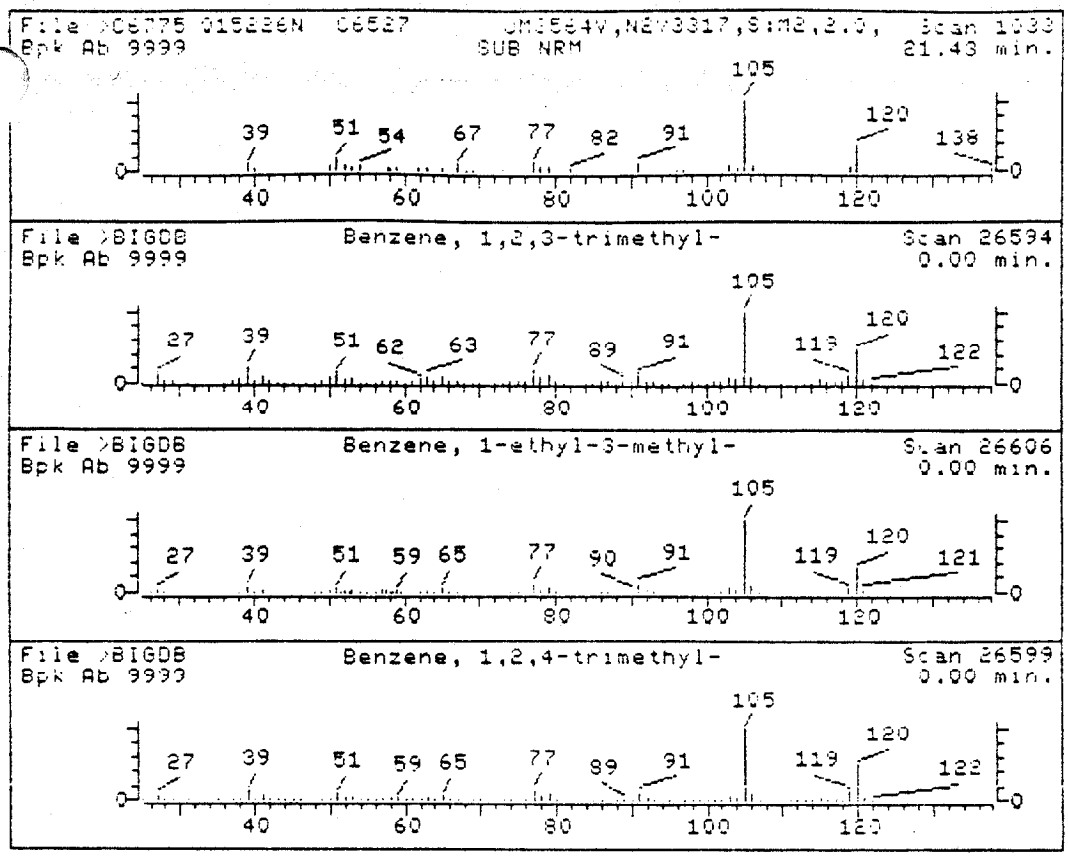


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 20.57
Scan: 989
Area: 49150 Rank: 12
Semi-quantitative Conc (uncorrected): 11.00 ug/l
Semi-quantitative Conc (corrected): 275.11 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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

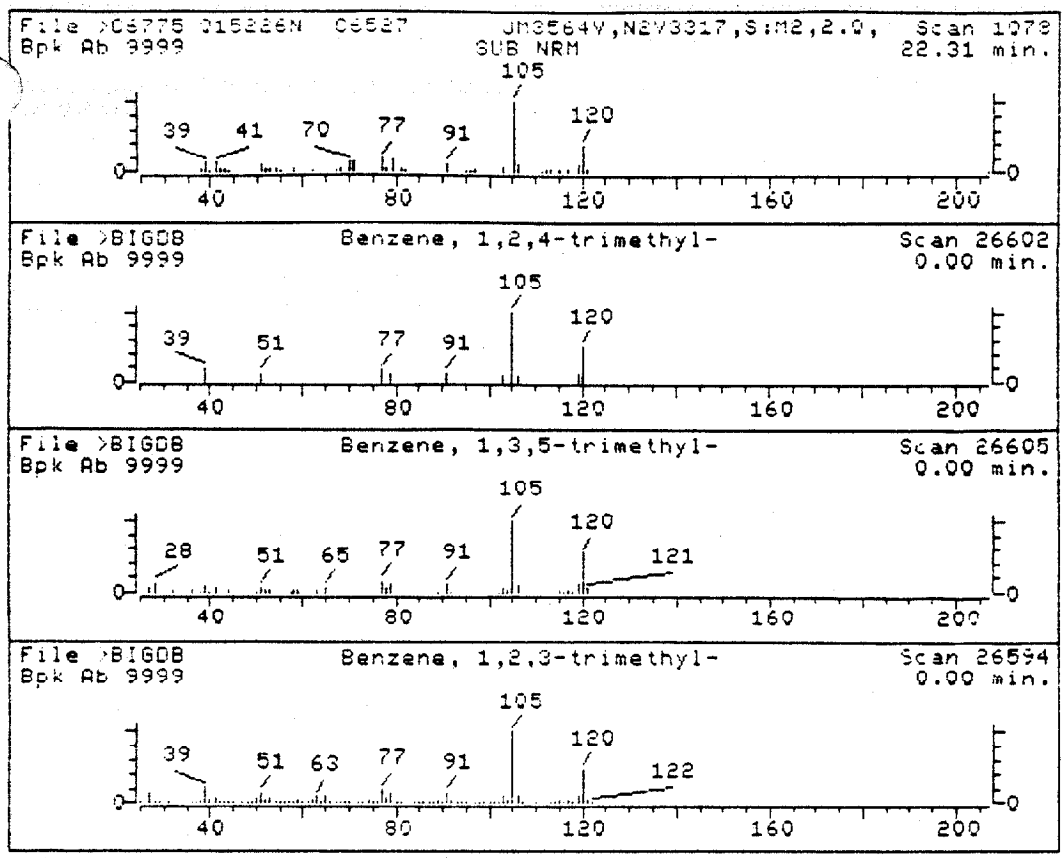


Data File: >C6775::D5
Name: 015226N C6527
Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER
RT (min): 21.43
Scan: 1033
Area: 45850 Rank: 13
Semi-quantitative Conc (uncorrected): 10.27 ug/l
Semi-quantitative Conc (corrected): 256.64 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 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: JM3564V,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
3.	81*	526738	26594	"BIGDB	67	33	2	0	75	10	53	46

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

HBLK

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: N7H40150H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9357

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/~~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	Q
94-75-7----	2,4,D	250	U
93-72-1----	2,4,5-TP (SILVEX)	250	U

0203

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

HSPK

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: N7H40180HS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9352

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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	Q
94-75-7----	2,4,D	7280	
93-72-1----	2,4,5-TP (SILVEX)	2160	

FORM I HERB

0204

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

C6528-MS

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: JM3557HS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9353

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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	Q
94-75-7----	2,4,D	3650	
93-72-1----	2,4,5-TP (SILVEX)	1190	

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

C6528-MSD

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: JM3557HK

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9354

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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	Q
94-75-7----	2,4,D	4450	
93-72-1----	2,4,5-TP (SILVEX)	1290	

0206

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

C6528

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) water Lab Sample ID: JM3557H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9355

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

FORM I HERB

EPA SAMPLE NO.

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) water Lab Sample ID: JM3558H

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

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

EPA SAMPLE NO.

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) water Lab Sample ID: J173559H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9357

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-05-07

Lab Name: ASC Contract: NEESA

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: 1H9358

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-05-020

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

Matrix: (soil/water) water Lab Sample ID: JM3561H

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

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-08

Lab Name: ASC Contract: NEESA

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: H9360

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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

EPA SAMPLE NO.

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: ~~03~~ 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: ~~03~~ 02/28/94

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	Q
94-75-7----	2,4,D	250	U
93-72-1----	2,4,5-TP (SILVEX)	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	HBLK	107		0
02	HSPK	109		0
03	C6528 MS	88.7		0
04	C6528MSD	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	72.4		0
11	CLJ-DS-09	130		0
12	HBLKCIF	51.2		0
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

DPAA = 2,4-Dichlorophenylacetic acid

ADVISORY QC LIMITS (30 -130)

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

FORM II HERB

HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

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

Matrix Spike - EPA Sample No.: C6578

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	QC LIMITS 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: NEESA

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

Blank 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:

EPA SAMPLE NO.

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: 02/28/94

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

Time Analyzed (1): 20:44 Time Analyzed (2): 2044 NT

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

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	N7H4018OHS	03/10/94	
02	C6528MS	JM3557HS	↓	
03	C6528MSD	JM3557HR	↓	
04	C6528	JM3557H	↓	
05	C6529	JM3558H	↓	
06	CCJ-DS-06	JM3559H	↓	
07	CCJ-DS-07	JM3560H	03/11/94	
08	CCJ-DS-07D	JM3561H	↓	
09	CCJ-DS-08	JM3562H	↓	
10	CCJ-DS-09	JM3563H	↓	
11	HBLK01F	JM0000H	↓	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: _____

page __ of __

HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

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

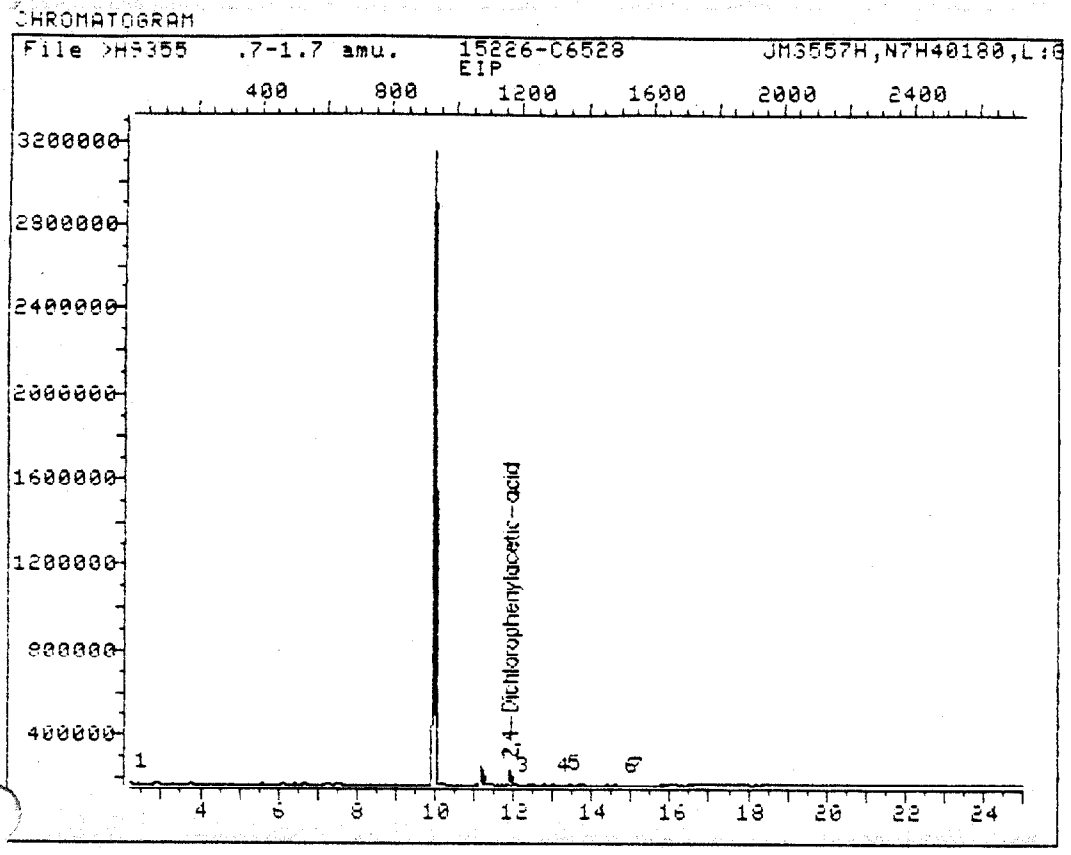
Instrument ID: C4F Calibration Date (s): 3/10/94

Calibration Time (s): 1358

LAB FILE ID: CLOW = H9333 CMEDL = H9334

CMED = H9335 CMEDH= H9336 CHIGH = H9337

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	C̄	% RSD
2,4-D	961300	859700	773712	689432	628733	782525	16.9
2,4,5-TP (SILVEX)	3652470	3356085	3240528	3011921	2859951	3230113	9.64
DPAA (surr)	—	683680	581504	511522	440707	554333	15.7



Data File: >H9355::D2 Quant Output File: ^H9355::D2
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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 940310 23:18
Injected at: 940310 22:53

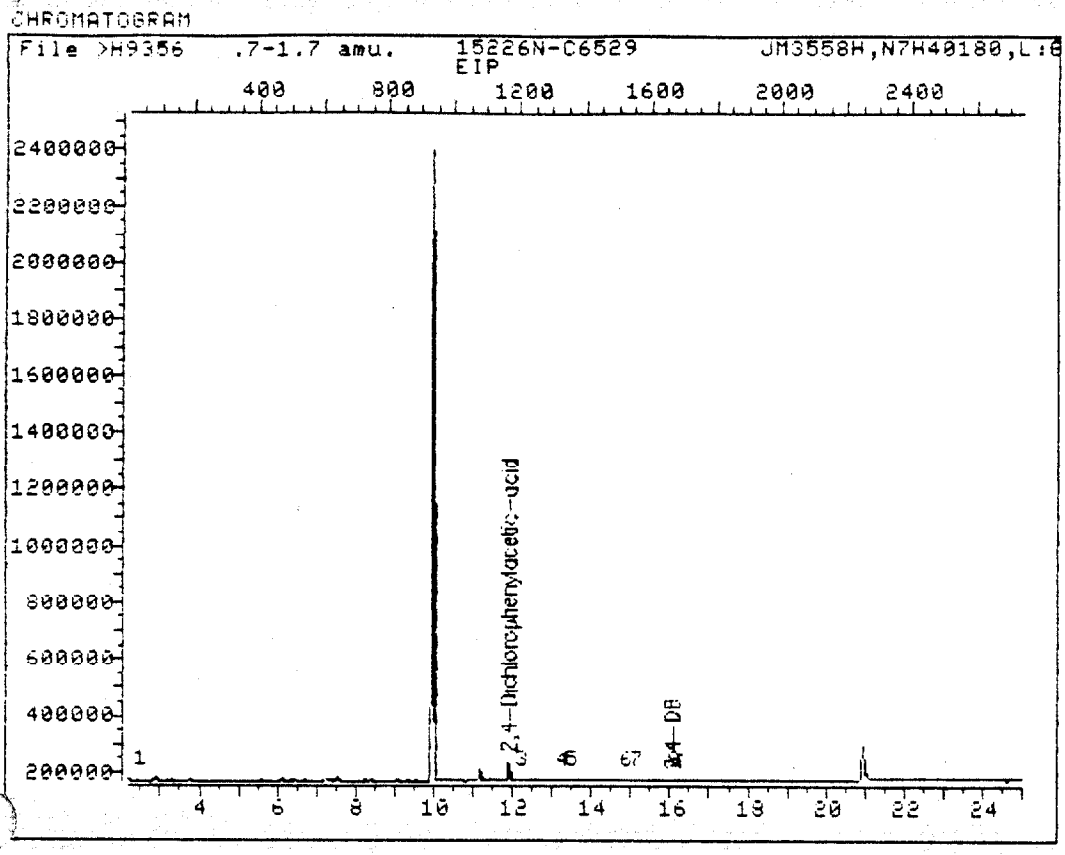
QUANT REPORT

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 IHHD07
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	.0142	ug/ml	100
6)	#2,4,5-TP (Silvex)	14.90	1526	5844	.00181	ug/ml	100
7)	#2,4,5-T	15.05	1544	1856	.000622	ug/ml	100

Compound uses ESTD



Data File: >H9356::D2 Quant Output File: ^H9356::D2
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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

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

QUANT REPORT

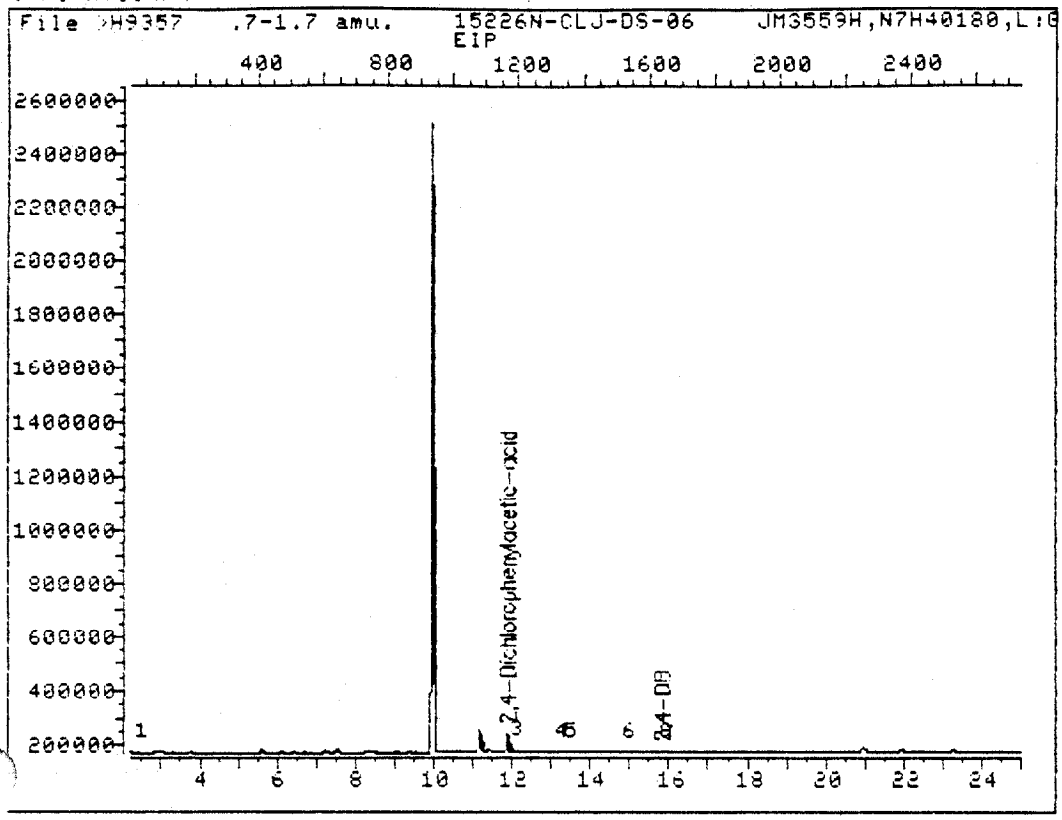
Operator ID: USER2 Quant Rev: 7 Quant Time: 940310 23:50
Output File: ^H9356::D2 Injected at: 940310 23:25
Data File: >H9356::D2 Dilution Factor: 1.00000
Name: 15226N-C6529 Instrument ID: H
Misc: JM3558H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
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	~~.0115 ug/ml~~		100
6)	#2,4,5-TP (Silvex)	14.81	1515	1440	~~.000446 ug/ml~~		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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

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

QUANT REPORT

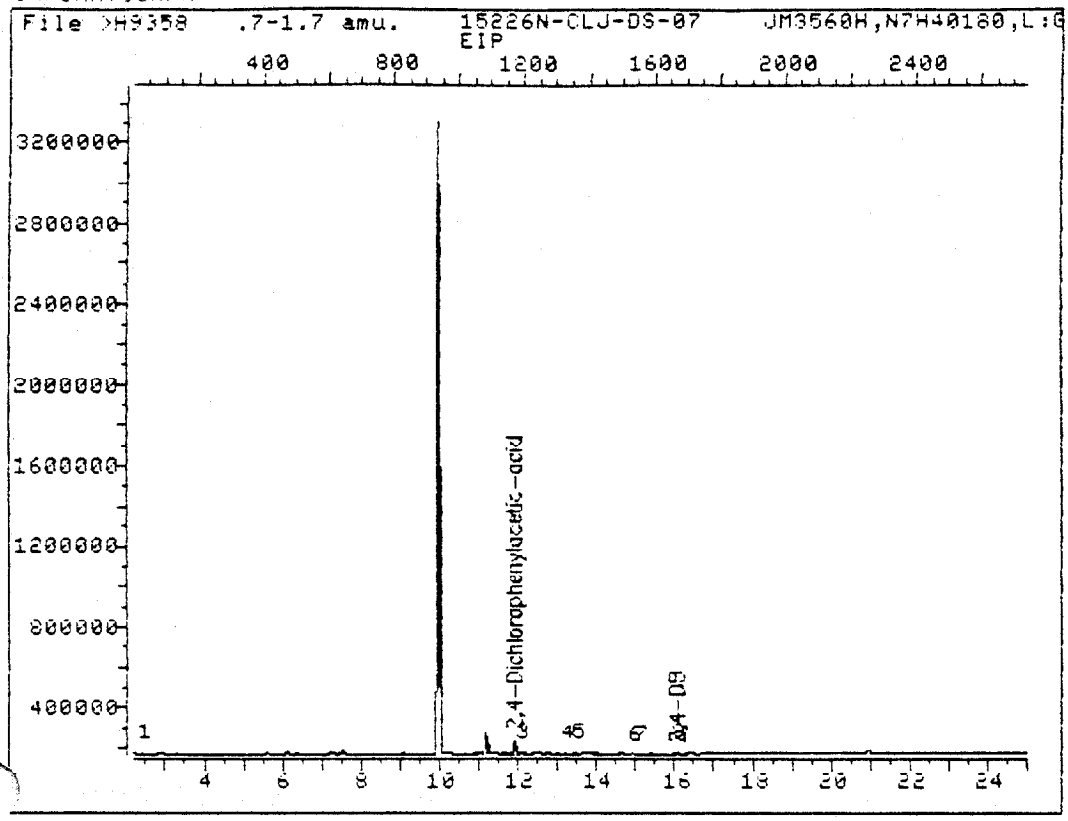
Operator ID: USER2 Quant Rev: 7 Quant Time: 940311 00:23
Output File: ^H9357::D2 Injected at: 940310 23:57
Data File: >H9357::D2 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS-06 Instrument ID: H
Misc: JM3559H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 940310 14:28 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	.0194	ug/ml	100
4)	#Dichloroprop	13.19	1321	4672	.00713	ug/ml	100
5)	#2,4-D	13.43	1350	11840	~~.0151~~	~~ug/ml~~	100
6)	#2,4,5-TP (Silvex)	14.91	1527	3936	~~.00122~~	~~ug/ml~~	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: >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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 940311 00:55
Injected at: 940311 00:29

QUANT REPORT

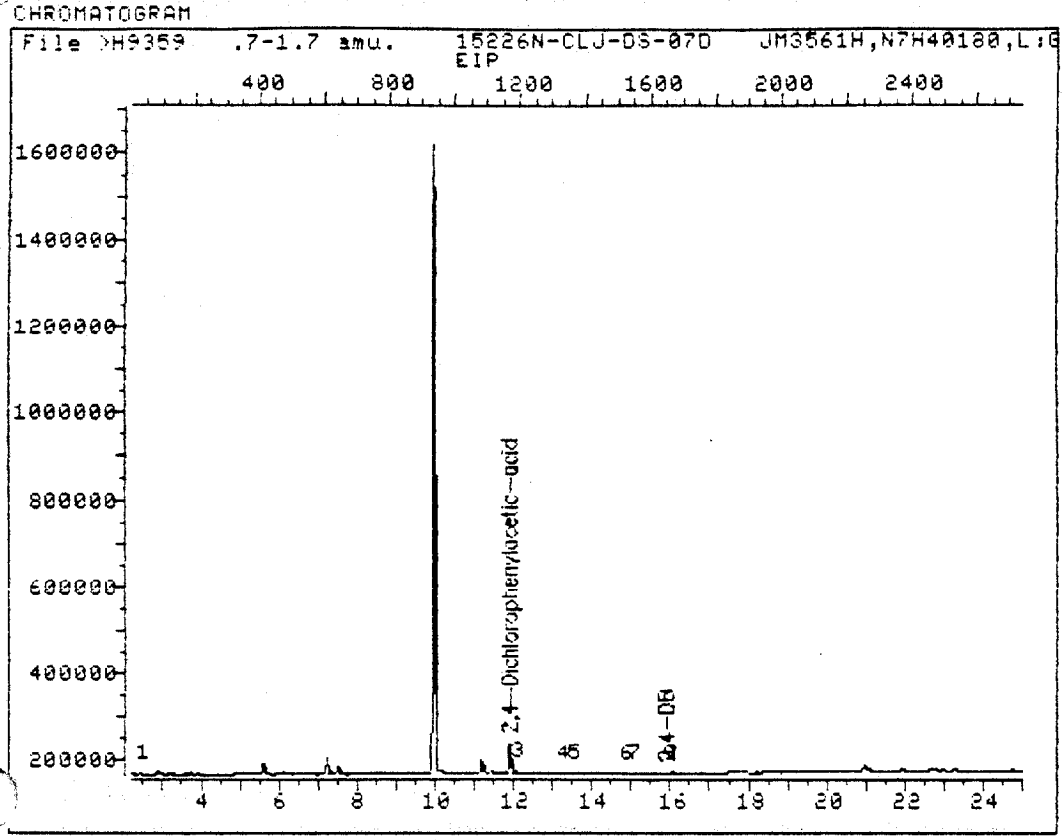
Operator ID: USER2 Quant Rev: 7 Quant Time: 940311 00:55
Output File: ^H9358::D2 Injected at: 940311 00:29
Data File: >H9358::D2 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS-07 Instrument ID: H
Misc: JM3560H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 940310 14:28 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	~~.0117 ug/ml~~		100
6)	#2,4,5-TP (Silvex)	14.90	1526	3743	~~.00116~~ ug/ml		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 Quant Output File: ^H9359::D2
Name: 15226N-CLJ-DS-07D Instrument ID: H
Misc: JM3561H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

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

QUANT REPORT

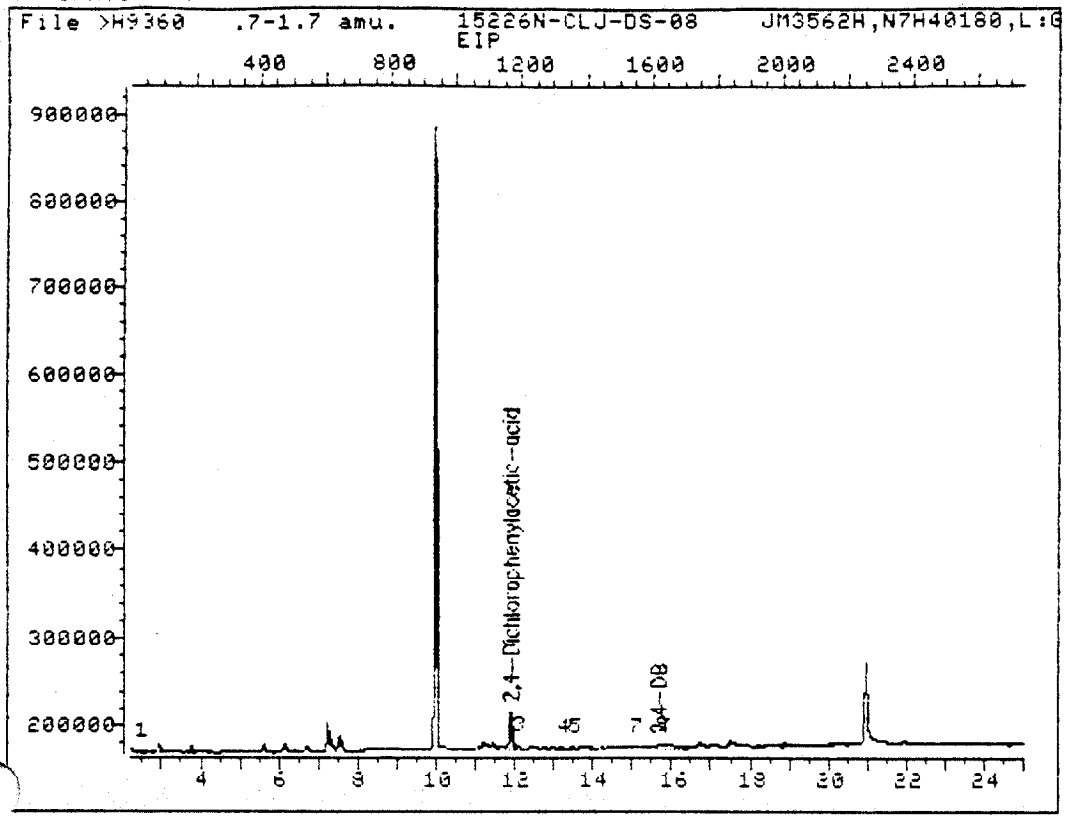
Operator ID: USER2 Quant Rev: 7 Quant Time: 940311 01:27
Output File: ^H9359::D2 Injected at: 940311 01:01
Data File: >H9359::D2 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS-07D Instrument ID: H
Misc: JM3561H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 940310 14:28 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	~~.00495 ug/ml~~		100
6)	#2,4,5-TP (Silvex)	14.78	1512	2688	~~.000832 ug/ml~~		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 Quant Output File: ^H9360::D2
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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

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

QUANT REPORT

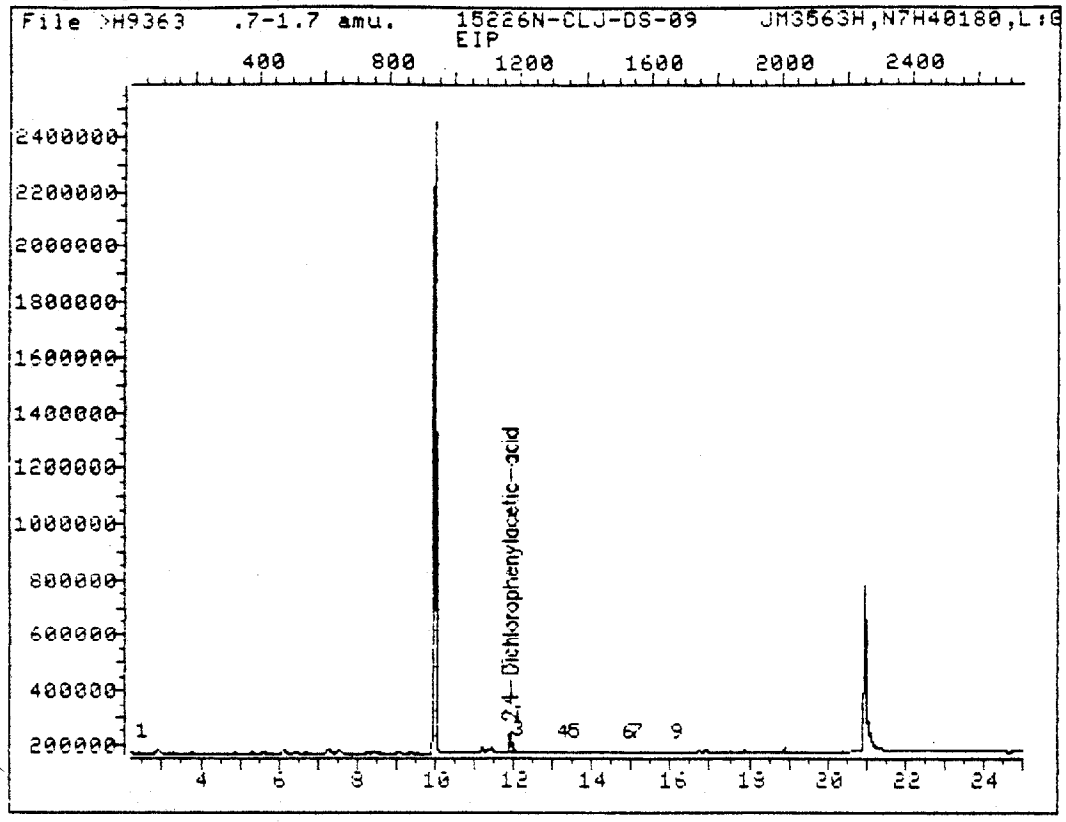
Operator ID: USER1 Quant Rev: 7 Quant Time: 940311 08:02
Output File: ^H9360::D2 Injected at: 940311 07:36
Data File: >H9360::D2 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS-08 Instrument ID: H
Misc: JM3562H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
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	.00485	~~ug/ml~~	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: >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 IHHD07
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER1
Quant Time : 940311 09:38
Injected at: 940311 09:12

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 940311 09:38
Output File: ^H9363::D2 Injected at: 940311 09:12
Data File: >H9363::D2 Dilution Factor: 1.00000
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 IHHD07
Last Calibration: 940310 14:28 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	~~.0160~~	~~ug/ml~~	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

0232
EPA SAMPLE NO.

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: N7P40181P

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/~~3~~2/94 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) ug/L	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	~~2.00~~ DL	~~U~~ DL
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		

EPA SAMPLE NO.

PSPK01

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA

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) 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	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		

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

PSPK01T

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) WATER Lab Sample ID: N7P40181PST

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

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

CAS NO.	COMPOUND		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	360	
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		

EPA SAMPLE NO. 0235

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: ^Z3829

% 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	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		

EPA SAMPLE No. 0236

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		

EPA SAMPLE NO. 0237

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		

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

C6528

Lab Name: ASC Contract: NEESA

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

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

CAS NO.	COMPOUND		Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	~~2.00~~ 02	~~U~~ DL
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		

EPA SAMPLE NO. 0239

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: ^Z3834

% 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)	~~2.00~~ 2	~~U~~ PZ
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		

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

CAS NO.	COMPOUND		Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	~~2.00~~ DL	~~U~~ DL
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		

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-07

Lab Name: ASC Contract: NEESA

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

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)	DL ~~2.00~~	DL ~~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		

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-07D

Lab Name: ASC Contract: NEESA

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

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

CAS NO.	COMPOUND		Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	DL ~~2.00~~	DL ~~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		

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-08

Lab Name: ASC Contract: NEESA

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) ug/L	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	~~2.00~~ DL	~~U~~ DL
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		

EPA SAMPLE NO. 0244

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-09

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) WATER Lab Sample ID: JM35638

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^Z3839

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

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/3/94

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

CAS NO.	COMPOUND		Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	~~2.00~~ PL	~~U~~ PL
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	PBLK01	~~46.7~~ 103 D4	116	~~78.6~~ 74.4 D4	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	PBLK01F	110	122	83.9	88.8			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	116	83.1	87.2			0
13	PSPK01T	N/A	N/A	N/A	N/A			–
14	C6528MST	N/A	N/A	N/A	N/A			–
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

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.: 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	Ø	15.3	91.1	40-131
Heptachlor Epoxide	18.2	Ø	19.0	104	30-130
Toxaphene	95.6	Ø	135	141 *	30-130
Endrin	20.3	Ø	20.2	99.5	30-130
Methoxychlor					30-130
gamma-Chlordane	17.2	Ø	16.8	97.7	30-130
alpha-Chlordane	18.6	Ø	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	QC LIMITS 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~~ 5 ~~17~~ outside limits
Spike Recovery: ~~Ø~~ 1 ~~17~~ out of ~~11~~ 16 ~~17~~ outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO: PBLK01

Lab Name: ASC Contract: NEESA

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

Lab Sample ID: N7P40181P Lab File ID: ~~AZ3827~~ DL 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): 00:27

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	PBLK01	N7P40181P	3-7-94	3-8-94
02	PSPK01	N7P40181PS	3-8-94	
03	C16528MS	JM3557PS		
04	C16528MSD	JM3557PR		
05	PBLK01F	JM0000P		
06	C16528	JM3557P		
07	C16529	JM3558P		
08	CLJ-DS-06	JM3559P		
09	CLJ-DS-07	JM3560P		
10	CLJ-DS-07D	JM3561P		
11	CLJ-DS-08	JM3562P		
12	CLJ-DS-09	JM3563P		
13	PSPK01T	N7P40181PST		
14	C16528MST	JM3557PST		
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PEST 3/90

6D
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 LOW	MID	HIGH	MEAN RT	RT WINDOW 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 ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEFSA

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

Instrument ID: 1 Level (x low): low 1.00 mid ~~2.5~~ 5.00 high 100

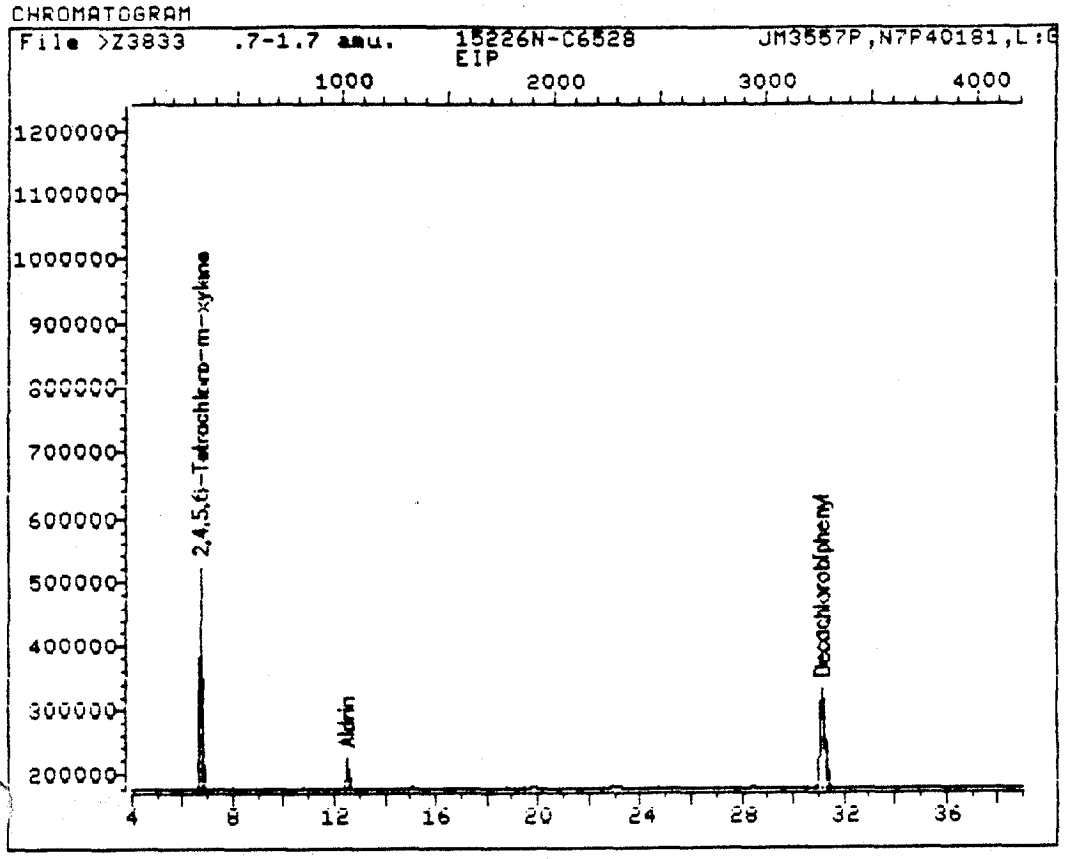
GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW 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 ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

CHROMATOGRAM



Data File: >Z3833::D5 Quant Output File: ^Z3833::D5
Name: 15226N-C6528 Instrument ID: Z
Misc: JM3557P,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: <none>

Operator ID: USER2
Quant Time : 940308 07:36
Injected at: 940308 04:05

DL- 0251
3-8-94

QUANT REPORT

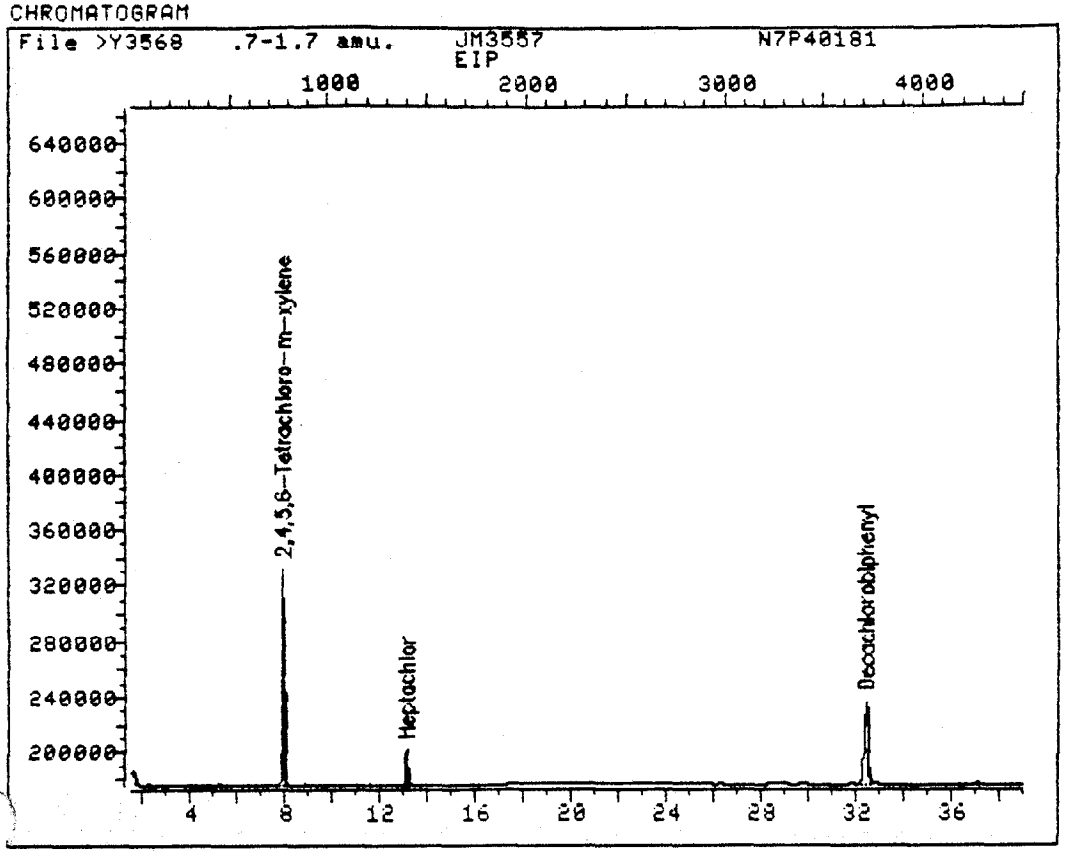
Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 07:36
Output File: ^Z3833::D5 Injected at: 940308 04:05
Data File: >Z3833::D5 Dilution Factor: 1.00000
Name: 15226N-C6528 Instrument ID: Z
Misc: JM3557P,N7P40181,L:G2,25,5:1,

ID File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <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	~~.0736~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.13	3256	1922639	.455	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >Y3568::D5 Quant Output File: ^Y3568::D5
Name: JM3557 Instrument ID: Y
Misc: N7P40181

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 15:05
Injected at: 940308 04:50

DL 3-1994

QUANT REPORT

Operator ID: USER2
Output File: ^Y3568::D5
Data File: >Y3568::D5
Name: JM3557
Misc: N7P40181

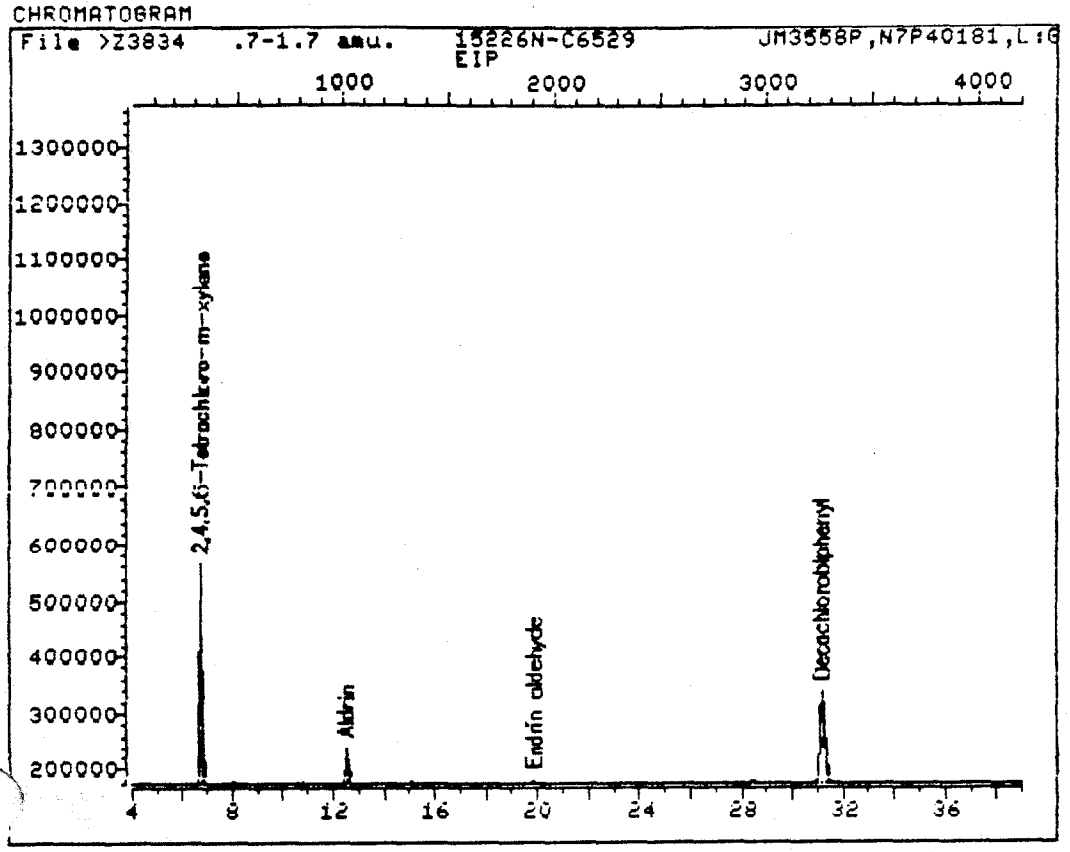
Quant Rev: 7
Quant Time: 940314 15:05
Injected at: 940308 04:50
Dilution Factor: 1.00000
Instrument ID: Y

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	~~.0925~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	32.38	3707	809873	.483	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >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: <none>

Operator ID: USER2
Quant Time : 940308 07:38
Injected at: 940308 04:50

DL0255
3-8-94

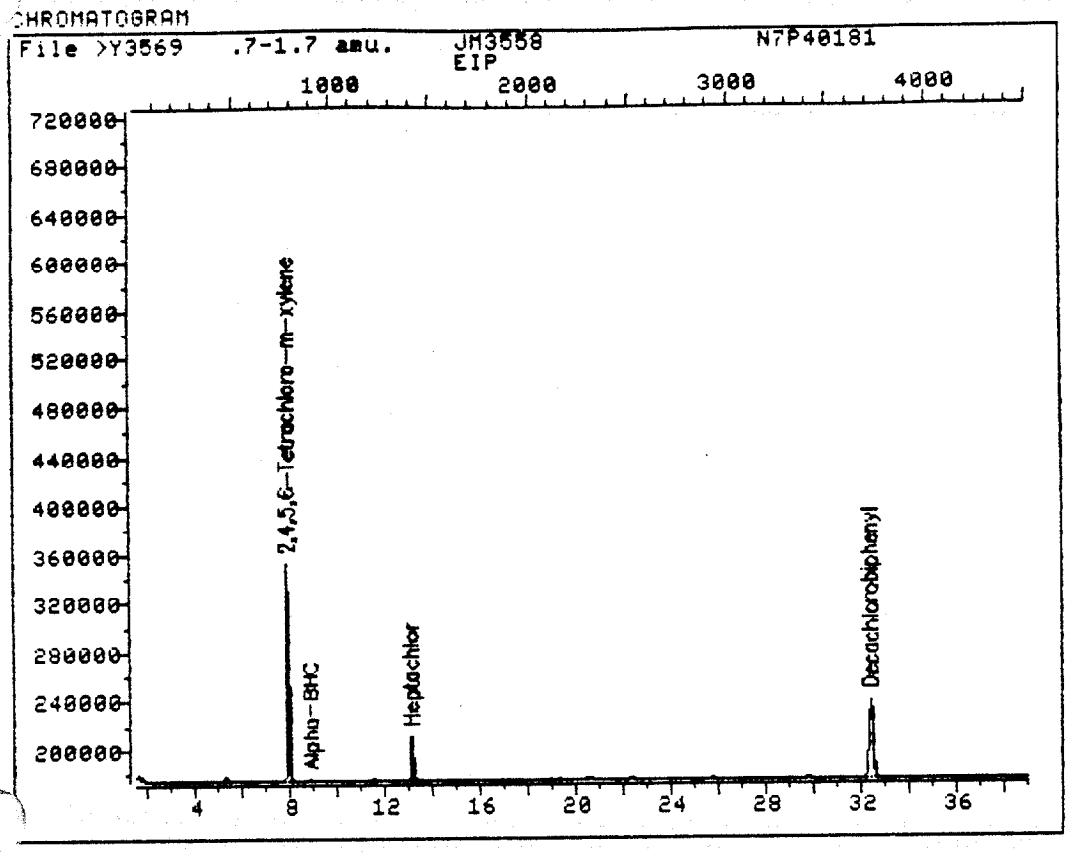
QUANT REPORT

Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 07:38
Output File: ^Z3834::D5 Injected at: 940308 04:50
Data File: >Z3834::D5 Dilution Factor: 1.00000
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: <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	~~.106~~	~~ug/ml~~	100
19)	#Endrin aldehyde	19.84	1902	30239	~~.0131~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.13	3256	1991537	.471	ug/ml	100

Compound uses ESTD



Data File: >Y3569::D5 Quant Output File: ^Y3569::D5
Name: JM3558 Instrument ID: Y
Misc: N7P40181

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

Dh 0257
3-19-94

QUANT REPORT

Operator ID: USER2
Output File: ^Y3569::D5
Data File: >Y3569::D5
Name: JM3558
Misc: N7P40181

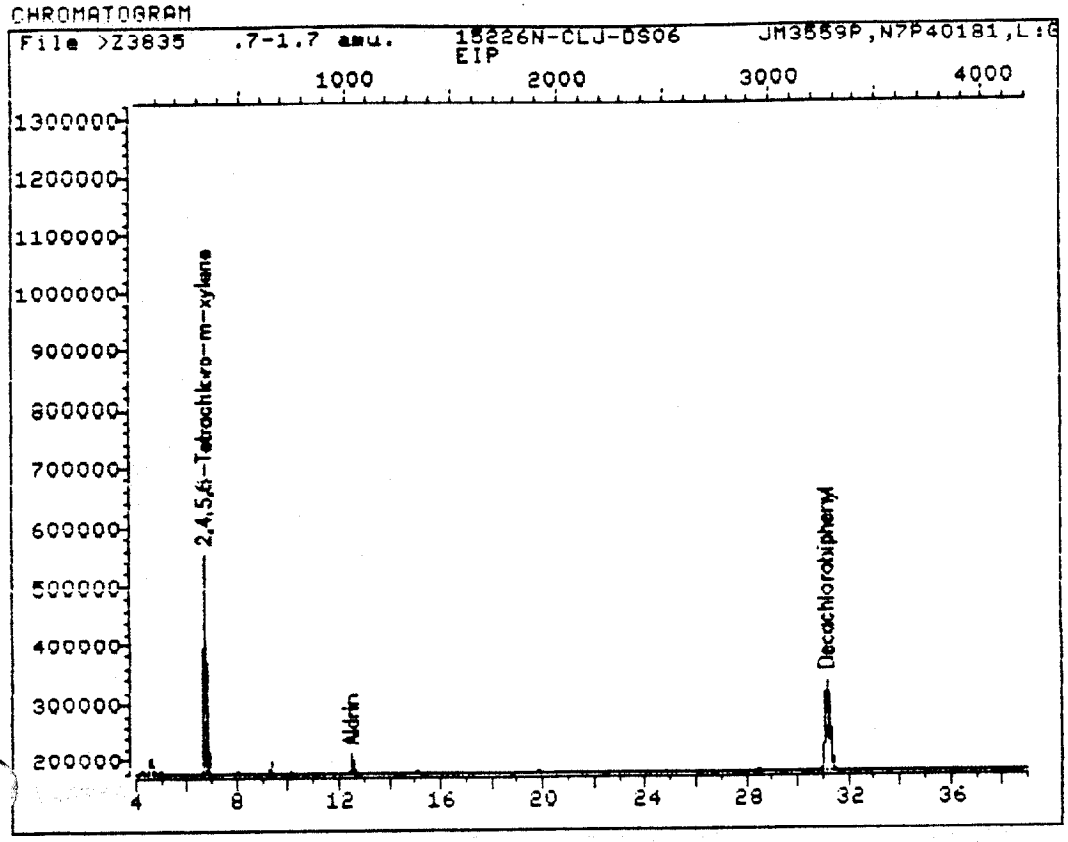
Quant Rev: 7
Quant Time: 940314 15:06
Injected at: 940308 05:34
Dilution Factor: 1.00000
Instrument ID: Y

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

CHROMATOGRAM



Data File: >Z3835::D5 Quant Output File: ^Z3835::D5
Name: 15226N-CLJ-DS06 Instrument ID: Z
Misc: JM3559P,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: <none>

Operator ID: USER2
Quant Time : 940308 07:39
Injected at: 940308 05:34

DL 3-8-94

0259

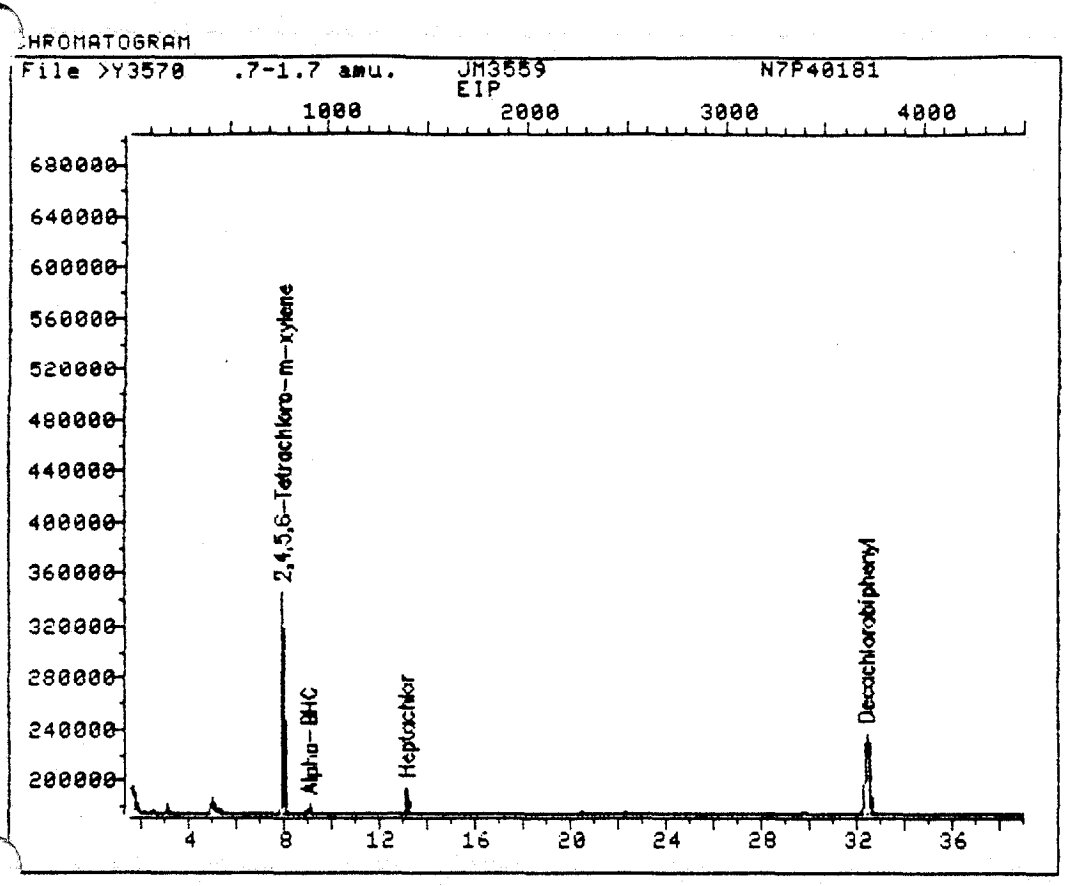
QUANT REPORT

Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 07:39
Output File: ^Z3835::D5 Injected at: 940308 05:34
Data File: >Z3835::D5 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS06 Instrument ID: Z
Misc: JM3559P,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: <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	~~.0502~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.12	3255	1929844	.457	ug/ml	100

Compound uses ESTD



Data File: >Y3570::D5 Quant Output File: ^Y3570::D5
Name: JM3559 Instrument ID: Y
Misc: N7P40181

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 15:09
Injected at: 940308 06:19

DL - 0261
3-19-94

QUANT REPORT

Operator ID: USER2
Output File: ^Y3570::D5
Data File: >Y3570::D5
Name: JM3559
Misc: N7P40181

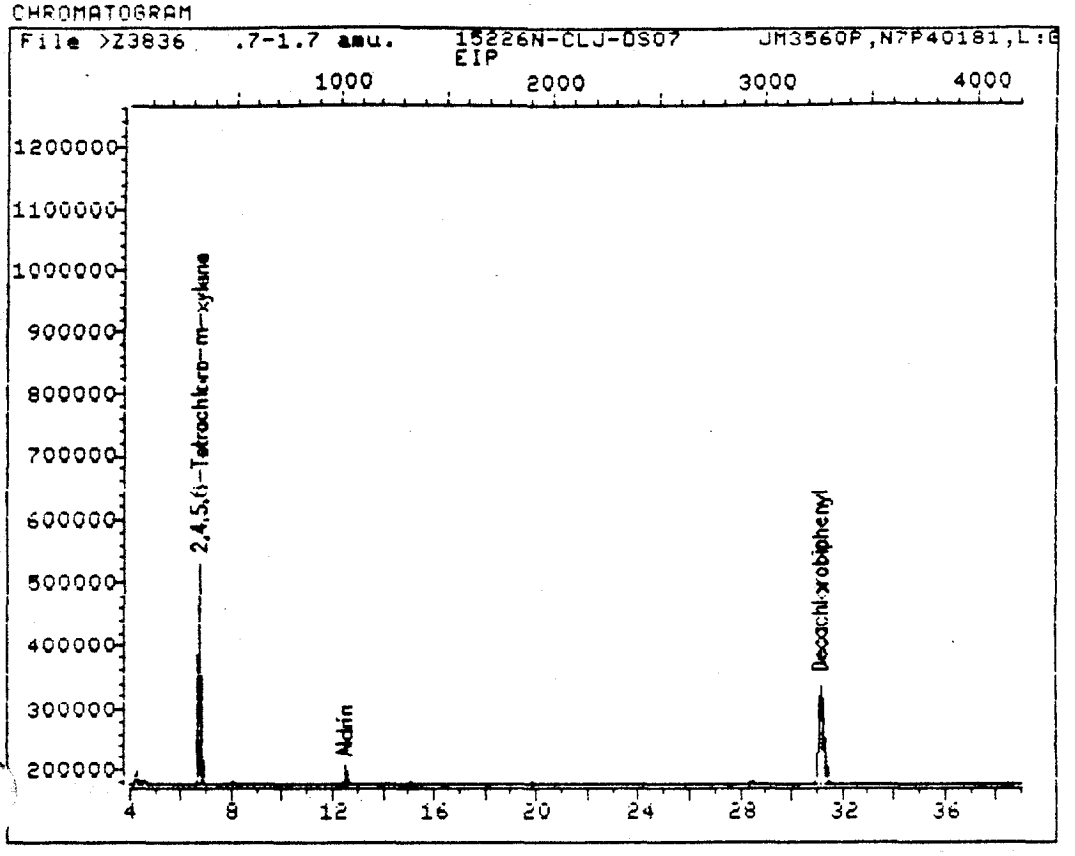
Quant Rev: 7
Quant Time: 940314 15:09
Injected at: 940308 06:19
Dilution Factor: 1.00000
Instrument ID: Y

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	~~.0152~~	~~ug/ml~~	100
7)	#Heptachlor	13.08	1391	96287	~~.0673~~	~~ug/m~~l	100
23)	#Decachlorobiphenyl	32.37	3705	812086	.485	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >Z3836::D5 Quant Output File: ^Z3836::D5
Name: 15226N-CLJ-DS07 Instrument ID: Z
Misc: JM3560P,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: <none>

Operator ID: USER2
Quant Time : 940308 07:40
Injected at: 940308 06:19

DL - 0263
3-8-94

QUANT REPORT

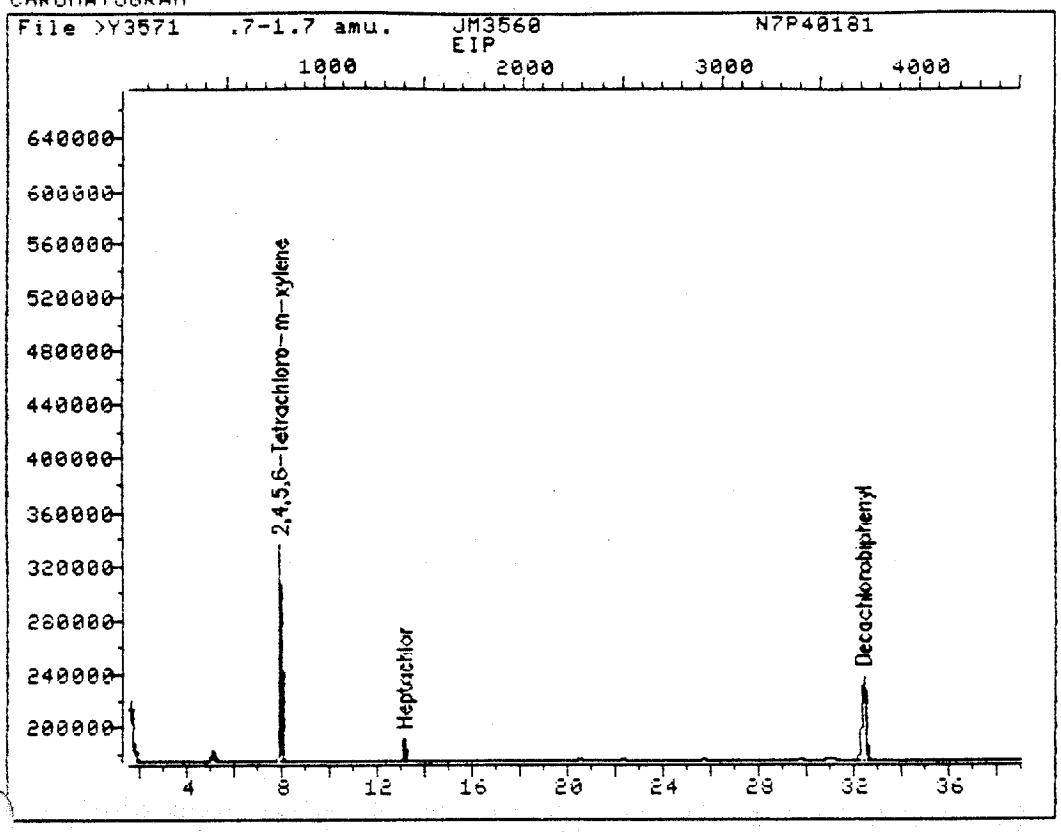
Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 07:40
Output File: ^Z3836::D5 Injected at: 940308 06:19
Data File: >Z3836::D5 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS07 Instrument ID: Z
Misc: JM3560P,N7P40181,L:G2,25,5:1,

ID File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <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	~~.0434~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.12	3255	1973649	.467	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >Y3571::D5 Quant Output File: ^Y3571::D5
Name: JM3560 Instrument ID: Y
Misc: N7P40181

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

DL 0265
3-19-94

QUANT REPORT

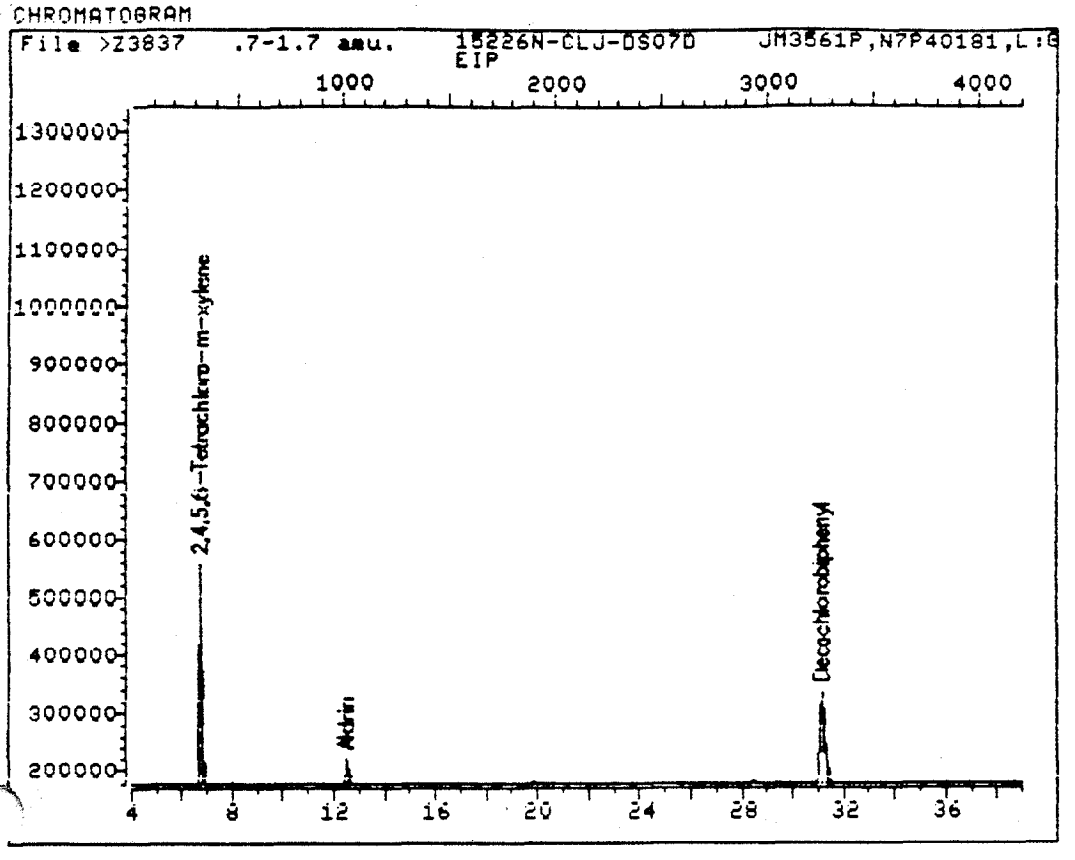
Operator ID: USER2
Output File: ^Y3571::D5
Data File: >Y3571::D5
Name: JM3560
Misc: N7P40181

Quant Rev: 7
Quant Time: 940314 15:10
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	.~~8579~~	~~ug/m~~l	100
23)	#Decachlorobiphenyl	32.37	3705	821369	.490	ug/ml	100

Compound uses ESTD



Data File: >Z3837::D5 Quant Output File: ^Z3837::D5
Name: 15226N-CLJ-DS07D Instrument ID: Z
Misc: JM3561P,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: <none>

Operator ID: USER2
Quant Time : 940308 08:01
Injected at: 940308 07:04

DL - 0267
3-8-94

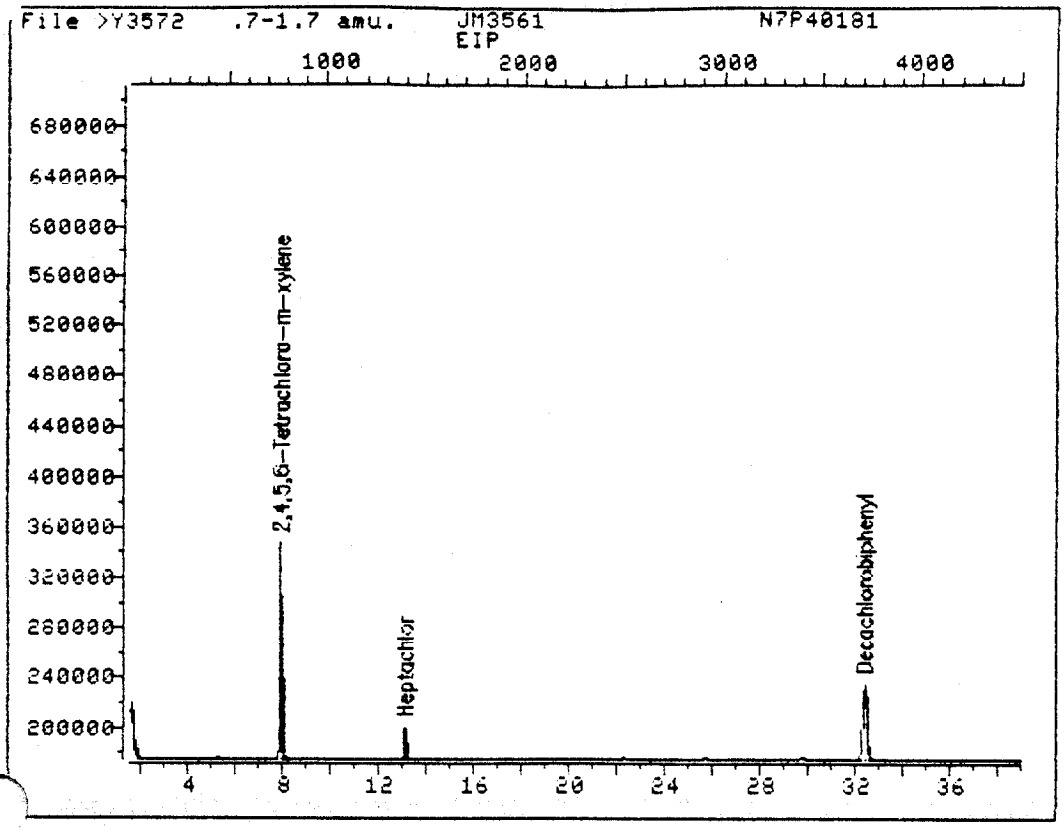
QUANT REPORT

Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 08:01
Output File: ^Z3837::D5 Injected at: 940308 07:04
Data File: >Z3837::D5 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS07D Instrument ID: Z
Misc: JM3561P,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: <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	~~.0677~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.12	3255	1900535	.450	ug/ml	100

Compound uses ESTD



Data File: >Y3572::D5 Quant Output File: ^Y3572::D5
Name: JM3561 Instrument ID: Y
Misc: N7P40181

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

DL 0269
3-19-94

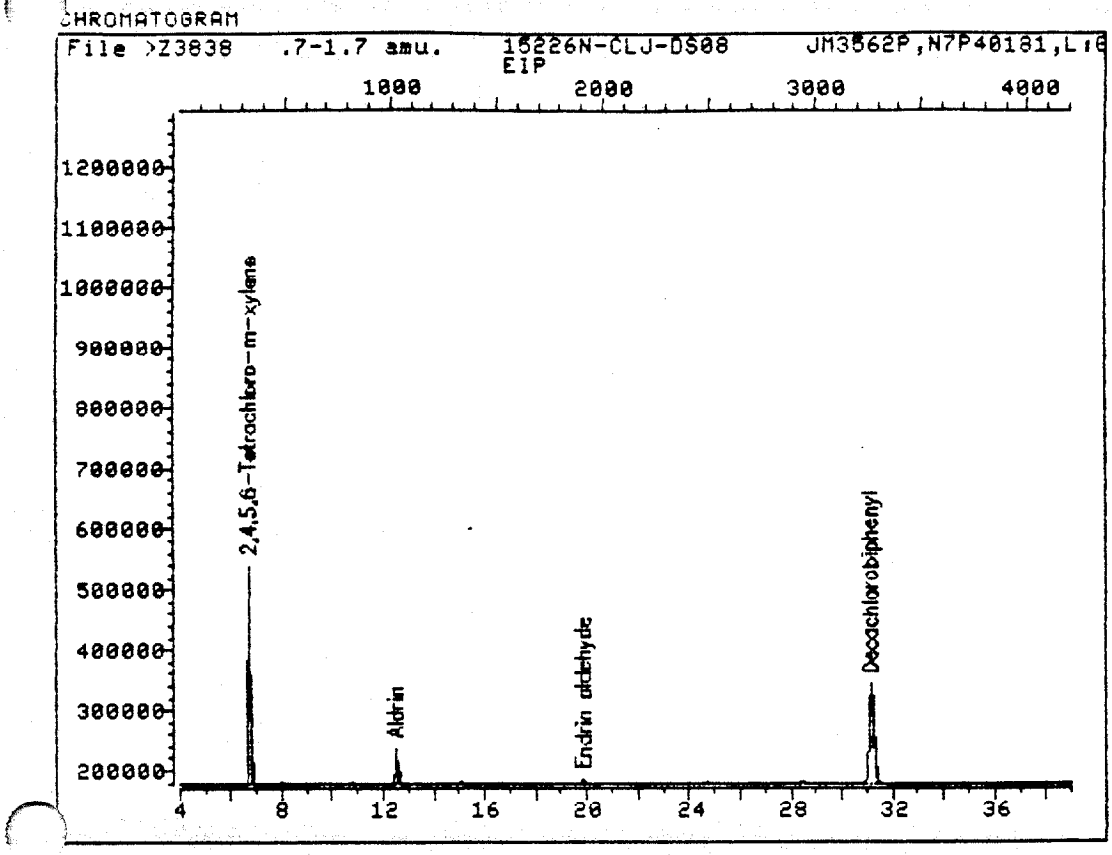
QUANT REPORT

Operator ID: USER2 Quant Rev: 7 Quant Time: 940314 15:11
Output File: ^Y3572::D5 Injected at: 940308 07:56
Data File: >Y3572::D5 Dilution Factor: 1.00000
Name: JM3561 Instrument ID: Y
Misc: N7P40181

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	.~~0880~~	~~ug/m~~l	100
23)	#Decachlorobiphenyl	32.37	3705	797265	.476	ug/ml	100

Compound uses ESTD



Data File: >Z3838::D5 Quant Output File: ^Z3838::D5
Name: 15226N-CLJ-DS08 Instrument ID: Z
Misc: JM3562P,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: <none>

Operator ID: USER2
Quant Time : 940308 08:36
Injected at: 940308 07:56

DL
3-8-94

QUANT REPORT

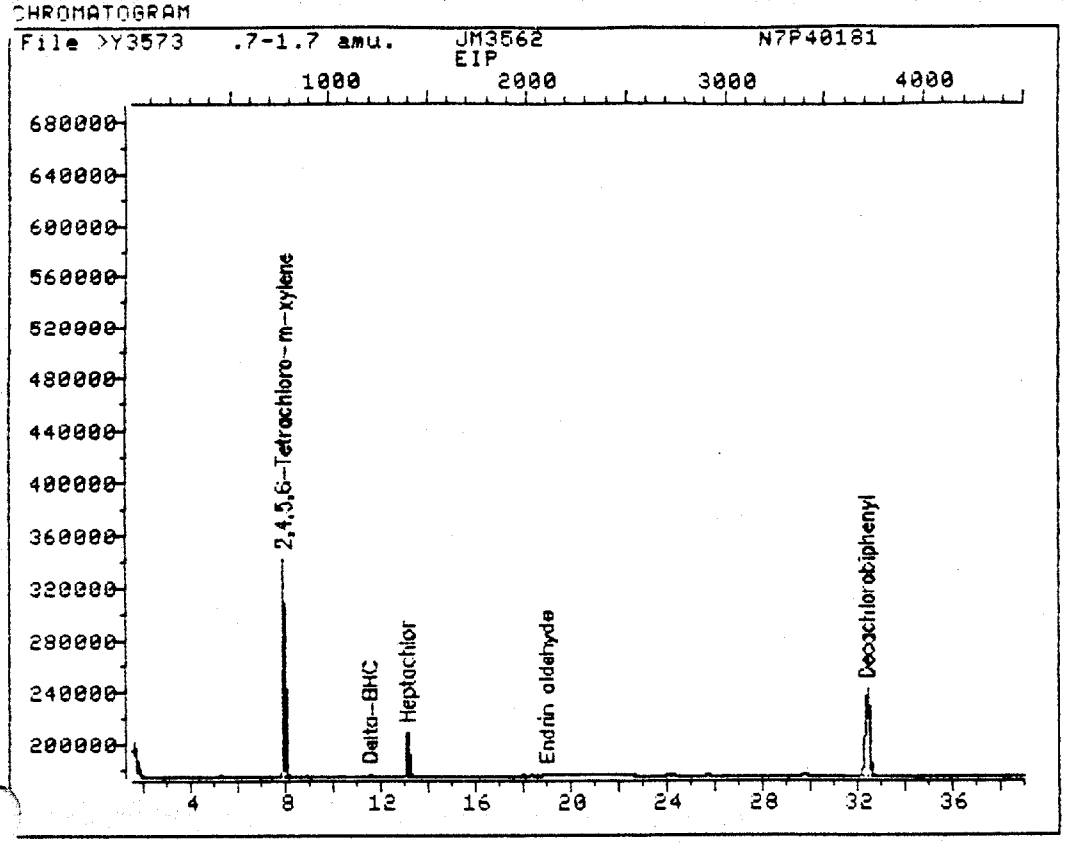
Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 08:36
Output File: ^Z3838::D5 Injected at: 940308 07:56
Data File: >Z3838::D5 Dilution Factor: 1.00000
Name: 15226N-CLJ-DS08 Instrument ID: Z
Misc: JM3562P,N7P40181,L:G2,25,5:1,

ID File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <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	~~.0957~~	~~ug/ml~~	100
19)	#Endrin aldehyde	19.84	1902	26367	~~.0115~~	ug/ml	100
23)	#Decachlorobiphenyl	31.12	3255	2052973	.486	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >Y3573::D5 Quant Output File: ^Y3573::D5
Name: JM3562 Instrument ID: Y
Misc: N7P40181

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

DL 0273
3-19-94

QUANT REPORT

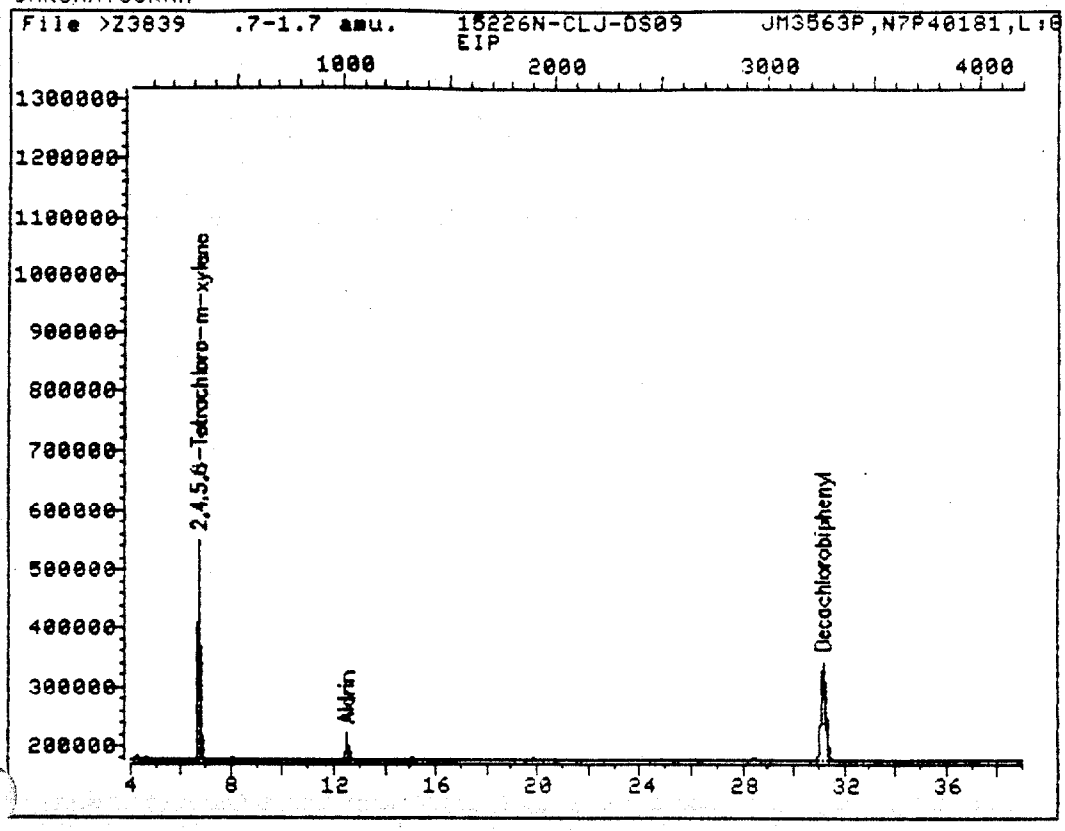
Operator ID: USER2 Quant Rev: 7 Quant Time: 940314 15:12
Output File: ^Y3573::D5 Injected at: 940308 08:41
Data File: >Y3573::D5 Dilution Factor: 1.00000
Name: JM3562 Instrument ID: Y
Misc: N7P40181

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	756226	.592	ug/ml	100
6)	#Delta-BHC	11.51	1202	6176	.~~0311~~	ug/ml	100
7)	#Heptachlor	13.08	1390	183295	.~~121~~	ug/ml	100
18)	#Endrin aldehyde	18.95	2095	6336	.0~~0544~~	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 Qcal Time: <none>

Operator ID: USER2
Quant Time : 940308 09:21
Injected at: 940308 08:41

DL - 0275
3-8-94

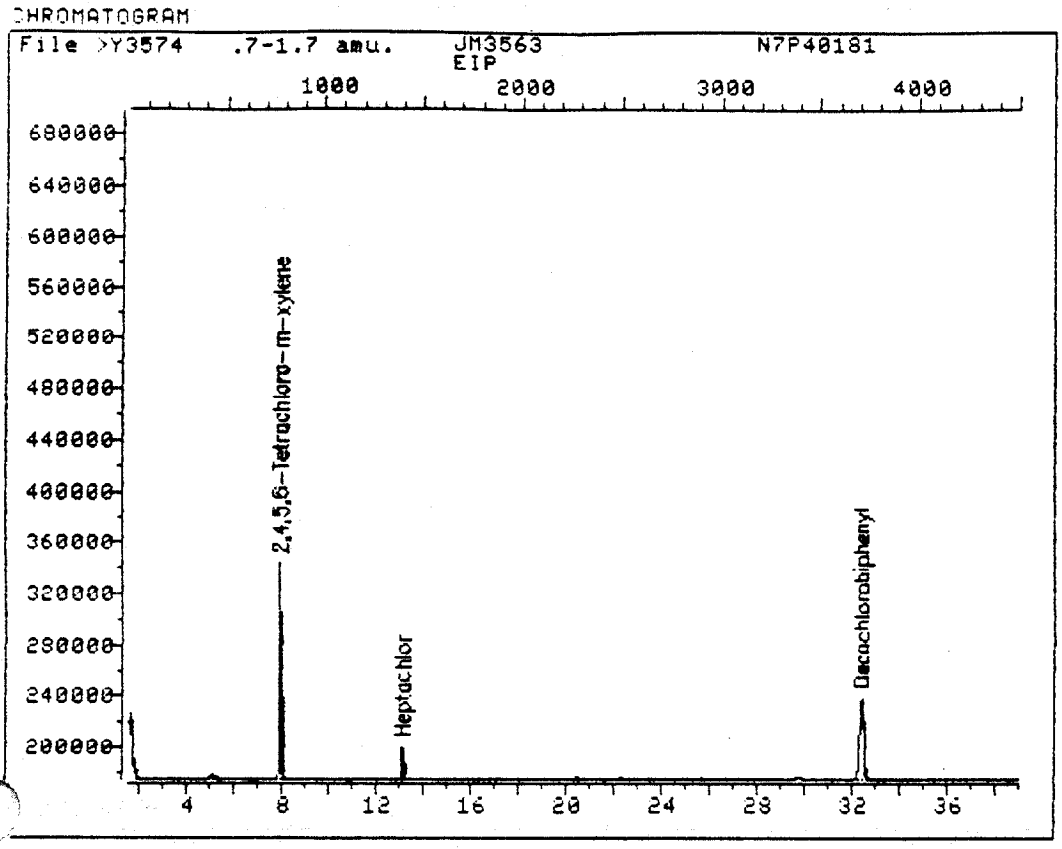
QUANT REPORT

Operator ID: USER2 Quant Rev: 7 Quant Time: 940308 09:21
Output File: ^Z3839::D5 Injected at: 940308 08:41
Data File: >Z3839::D5 Dilution Factor: 1.00000
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 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	~~.0683~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.11	3254	2033745	.481	ug/ml	100

Compound uses ESTD



Data File: >Y3574::D5 Quant Output File: ^Y3574::D5
Name: JM3563 Instrument ID: Y
Misc: N7P40181

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 15:13
Injected at: 940308 09:25

DL0277
3-19-94

QUANT REPORT

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	~~.0888~~	~~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 #:** NA

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

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. Hnatour **Name:** Joseph Hnatour

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		CV
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	92.8			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		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:** NeesA **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:** NeesA **EPA SAMPLE #:** CU-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	212			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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

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				
				Initial			Final	
	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	5.1	6.0	118					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NeesA **Lab Code:** NA

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

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic	-1.4	U	-.1	U	.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	-.4	U	-0.6	U			-3.0	U	P
Cobalt											
Copper											
Iron											
Lead	-1.3	U	-1.6	U	-1.1	U	-1.3	U	-1.6	U	F
Manganese											
Mercury	.05	U	.05	U	.03	U	.05	U	-.01	U	CV
Molybdenum											
Nickel											
Selenium	1.5	B	1.2	U	0.3	U	~~.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:** Venture

Concentration Units: ug/L

ANALYTE	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium	ϕ	471	2.2	476	101	2.1	471	100
Beryllium								
Boron								
Cadmium	ϕ	874	-9.6	895	102	-9.3	882	101
Chromium	ϕ	462	-6.4	467	101	-5.3	459	99.5
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	ϕ	923	-5.1	937	101	-5.5	925	100
Strontium								
Thallium								
Vanadium								
Zinc								

SPIKE SAMPLE RECOVERY (5A)

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	U	1050	87.7		P
Chromium	75-125	4810		1.2	U	5430	88.6		P
Cobalt									
Copper									
Iron									
Lead	75-125	23.8		2.1	B	20.0	109		F
Manganese									
Mercury	75-125	1.9		.05	U	2.0	95		CV
Molybdenum									
Nickel									
Selenium	75-125	17.6		1.6	B	20.0	80		F
Silver	75-125	95.6		-5.3	U	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 #:** CLI-DS-0

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	U	1050	97.1		P
Chromium	75-125	5320		3.0	U	5430	97.9		P
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver	75-125	1030		3.7	U	93.5	110.2		P
Srontium									
Thallium									
Vanadium									
Zinc									

COMMENTS:

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NeesA **EPA Sample #:** CLS-DS-

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)

Lab Name: *Analytical Services Corp* **Contract:** Neesa

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

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) 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									

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA SBL-1

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

Matrix: (soil/water) WATER Lab Sample ID: N7C40790

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8014

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

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

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	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

EPA SAMPLE NO. 0298

ORGANICS ANALYSIS DATA SHEET

SBIK1SS

Lab Name: ASC Contract: NEESA

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) ug/L	Q
95-48-7----	2-Methylphenol	23.9	
106-44-5---	4-Methylphenol	57.4	
67-72-1----	Hexachloroethane	57.8	
98-95-3----	Nitrobenzene	45.2	
87-68-3----	Hexachlorobutadiene	20.2	
88-06-2----	2,4,6-Trichlorophenol	77.5	
95-95-4----	2,4,5-Trichlorophenol	67.6	
121-14-2---	2,4-Dinitrotoluene	21.6	
118-74-1---	Hexachlorobenzene	28.7	
87-86-5----	Pentachlorophenol	139	
110-86-1---	Pyridine	54.3	
72-43-5----	Methoxychlor	85.6	
58-89-9----	gamma-BHC (Lindane)	26.5	

EPA SAMPLE NO. 0299

ORGANICS ANALYSIS DATA SHEET

C 6528 MS

Lab Name: ASC Contract: NEESA

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	25.0	
106-44-5---	4-Methylphenol	58.6	
67-72-1----	Hexachloroethane	33.7	
98-95-3----	Nitrobenzene	42.4	
87-68-3----	Hexachlorobutadiene	14.9	
88-06-2----	2,4,6-Trichlorophenol	82.3	
95-95-4----	2,4,5-Trichlorophenol	75.3	
121-14-2---	2,4-Dinitrotoluene	23.0	
118-74-1---	Hexachlorobenzene	23.7	
87-86-5----	Pentachlorophenol	174	
110-86-1---	Pyridine	54.5	
72-43-5----	Methoxychlor	95.5	
58-89-9----	gamma-BHC (Lindane)	27.0	

EPA SAMPLE NO. 0300

ORGANICS ANALYSIS DATA SHEET

C6528MSD

Lab Name: ASC Contract: NEESA

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

EPA SAMPLE NO. 0301

ORGANICS ANALYSIS DATA SHEET

C6528

Lab Name: ASC Contract: NEESA

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: 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	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

EPA SAMPLE NO. 0302

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) 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) ug/L	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

EPA SAMPLE NO. 0303

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) 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) ug/L	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

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-07

Lab Name: ASC Contract: NEESA

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) ug/L	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

EPA SAMPLE NO.- 0305

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-07D

Lab Name: ASC Contract: NEESA

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) ug/L	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

EPA SAMPLE NO. 0306

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-08

Lab Name: ASC Contract: NEESA

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	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

EPA SAMPLE NO: 0307

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-09

Lab Name: ASC Contract: NEESA

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: 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	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 OUT
01	SBLK1	92.6	97.5	30.6*	85.4	89.7	82.5			1
02	SBLK1ES	83.9	65.5	86.4	81.0	82.5	75.6			0
03	C6528MS	85.8	68.3	94.6	76.5	82.5	82.5			0
04	C6528MSD	83.7	0*	85.7	5.41*	86.9	0*			3
05	C6528	76.4	62.3	96.3	68.6	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	92.2	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-07D	69.7	64.2	125	67.8	63.1	82.5			0
10	CLJ-DS-08	67.9	73.9	75.6	59.1	62.8	72.2			0
11	CLJ-DS-09	89.0	90.2	95.3	80.0	86.5	81.0			0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

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SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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	QC LIMITS REC.
2,4,5-Trichlorophenol	101	0	0	0	25	30-130
2,4,6-Trichlorophenol	103	0	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	91.4	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: NEESA

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

Blank Spike - EPA Sample No.: SBIK1BS

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	102	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

SB1K1

Lab Name: ASC Contract: NEESA

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

Lab File ID: D8014 Lab Sample ID: N7C40179

Instrument ID: MSD-D Date Extracted: 3-02-94

Matrix: (soil/water) Water/TCL 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	D8016	3-07-94
07	C6528MS	JM3557	D8016	3-07-94
08	C6528MSD	JM3557	D8017	3-07-94
09	CLJ-DS-07D	JM3561	D8084	3-10-94
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COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (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	14.6 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SStd20	SStd20	D8007	3-07-94	1323
02	SStd50	SStd50	D8008	3-07-94	1417
03	SStd80	SStd80	D8009	3-07-94	1511
04	SStd120	SStd120	D8010	3-07-94	1604
05	SStd160	SStd160	D8011	3-07-94	1658
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

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	SSTD50	SSTD50	D8013	3-07-94	1807
02	SBIK1	N7C40179	D8014	3-07-94	1901
03	SBIK1BS	N7C40179	D8015	3-07-94	1945
04	C6528MS	JM3557	D8016	3-07-94	2029
05	C6528MSD	JM3557	D8017	3-07-94	2113
06	C6528	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
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

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

Lab File ID: D3080 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	70.6
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	SSTd50	SSTd50	D3081	3-10-94	1214
02	CLI-DB-97D	IM3561	D3084	3-10-94	1457
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6B

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= D8011

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	%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	5.96
2,2'-oxybis(1-Chloropropane)	3.31	3.23	3.18	3.06	2.95	3.14	4.52
4-Methylphenol *	1.411	1.39	1.38	1.29	1.23	1.34	5.73
N-Nitroso-di-n-propylamine *	1.22	1.19	1.13	0.999	0.922	1.09	11.7
Hexachloroethane *	0.680	0.687	0.648	0.672	0.624	0.652	4.65
Nitrobenzene *	0.451	0.441	0.411	0.367	0.374	0.409	9.28
Isophorone *	0.978	0.951	0.890	0.809	0.791	0.864	9.40
2-Nitrophenol *	0.211	0.214	0.199	0.185	0.182	0.198	7.29
2,4-Dimethylphenol *	0.401	0.398	0.372	0.334	0.324	0.366	9.70
bis(2-Chloroethoxy)methane *	0.571	0.534	0.498	0.453	0.441	0.499	10.9
2,4-Dichlorophenol *	0.281	0.292	0.277	0.252	0.243	0.269	7.72
1,2,4-Trichlorobenzene *	0.325	0.318	0.294	0.264	0.269	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	14.0
Acenaphthylene *	1.67	1.57	1.42	1.25	1.20	1.42	14.4
2,6-Dinitrotoluene *	0.339	0.352	0.334	0.306	0.301	0.326	6.78
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	0.380	0.409	13.0

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

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD-D Calibration Date(s): 02-08-94 03-07-94

Calibration Times: 11:52 16:58

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

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% 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	0.243	0.271	0.241	0.226	0.266	0.241	11.6
4,6-Dinitro-2-methylphenol	0.074	0.129	0.125	0.117	0.119	0.112	19.8
N-Nitrosodiphenylamine (1)	0.568	0.507	0.434	0.366	0.346	0.444	21.1
4-Bromophenyl-phenylether *	0.283	0.261	0.232	0.203	0.193	0.235	16.1 *
Hexachlorobenzene *	0.396	0.363	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	0.918	0.781	0.946	16.3
Carbazole	0.967	0.981	0.831	0.731	0.736	0.849	14.3
Di-n-butylphthalate	1.97	1.74	1.46	1.21	1.17	1.51	22.9
Fluoranthene *	1.19	1.16	0.975	0.825	0.827	0.993	17.3
Pyrene *	1.40	1.24	1.16	1.01	0.878	1.14	17.9
Butylbenzylphthalate	0.851	0.721	0.625	0.525	0.468	0.638	24.0
3,3'-Dichlorobenzidine	0.399	0.454	0.397	0.379	0.360	0.398	8.78
Benzo(a)anthracene *	1.16	1.13	1.06	0.995	0.968	1.06	7.87 *
Chrysene *	1.10	1.10	0.948	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	1.79	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 *	0.545	0.739	0.668	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	5.64 *
2-Fluorophenol *	1.24	1.25	1.23	1.19	1.18	1.22	2.66 *
2,4,6-Tribromophenol	0.268	0.291	0.274	0.246	0.247	0.265	7.19
2-Chlorophenol-d4 *							
1,2-Dichlorobenzene-d4 *							

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

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD-D Calibration Date: 03-07-94 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	$\overline{RRF}$	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	1.09	1.28	0.500	16.9	25.0
Hexachloroethane	0.652	0.703	0.300	7.80	25.0
Nitrobenzene	0.409	0.447	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
Naphthalene	0.891	1.003	0.700	12.6	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-Methylnaphthalene	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-Chloronaphthalene	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~~ 18:07

Lab File ID: D8013 Init. Calib. Date(s): 02-10-94 03-07-94

Init. Calib. Times: 11:52 16:58

COMPOUND	$\overline{RRF}$	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	0.946	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	8.40	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: D7081 Init. Calib. Date(s): 02-08-94 03-07-94

Init. Calib. Times: 11:52 16:58

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.66	1.77	0.800	6.80	25.0
bis(2-Chloroethyl)ether	3.38	3.62	0.700	7.20	25.0
2-Chlorophenol	1.30	1.32	0.800	1.50	25.0
1,3-Dichlorobenzene	1.37	1.34	0.600	2.80	25.0
1,4-Dichlorobenzene	1.43	1.55	0.500	8.40	25.0
1,2-Dichlorobenzene	1.20	1.26	0.400	5.10	25.0
2-Methylphenol	1.13	1.38	0.700	21.6	25.0
2,2'-oxybis(1-Chloropropane)	3.14	4.40		40.0	
4-Methylphenol	1.34	1.47	0.600	9.30	25.0
N-Nitroso-di-n-propylamine	1.09	1.32	0.500	20.9	25.0
Hexachloroethane	0.652	0.720	0.300	10.5	25.0
Nitrobenzene	0.413	0.473	0.200	14.4	25.0
Isophorone	0.884	1.04	0.400	17.9	25.0
2-Nitrophenol	0.198	0.226	0.100	14.2	25.0
2,4-Dimethylphenol	0.366	0.406	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	0.429		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	1.300	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	0.800	16.2	25.0
2,4-Dinitrophenol	0.071	0.068		3.3	
4-Nitrophenol	0.076	0.050		34.6	
Dibenzofuran	1.26	1.47	0.800	16.7	25.0
2,4-Dinitrotoluene	0.409	0.475	0.200	16.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14

Lab File ID: D8091 Init. Calib. Date(s): 02-08-94 03-07-94

Init. Calib. Times: 11:52 16:58

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.62		16.9	
4-Chlorophenyl-phenylether	0.558	0.654	0.400	17.1	25.0
Fluorene	1.02	1.23	0.900	21.0	25.0
4-Nitroaniline	0.241	0.271		12.4	
4,6-Dinitro-2-methylphenol	0.113	0.135		19.7	
N-Nitrosodiphenylamine (1)	0.444	0.522		17.6	
4-Bromophenyl-phenylether	0.235	0.257	0.100	9.50	25.0
Hexachlorobenzene	0.325	0.349	0.100	7.30	25.0
Pentachlorophenol	0.093	0.092	0.050	0.500	25.0
Phenanthrene	0.913	1.09	0.700	19.8	25.0
Anthracene	0.946	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
Terphenyl-d14	0.900	1.09	0.500	20.9	25.0
Phenol-d5	1.51	1.59	0.800	5.50	25.0
2-Fluorophenol	1.22	1.22	0.600	0.00	25.0
2,4,6-Tribromophenol	0.265	0.286		7.80	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

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

8B

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	10.99	187878	13.56	124858	17.48
	LOWER LIMIT	12424	9.99	46969	12.56	31214	16.48
	EPA SAMPLE NO.						
01	SB1K1	26675	10.49	92888	13.06	54344	17.00
02	SB1K1BS	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	29947	10.49	106532	13.06	63181	17.00
07	CLJ-DS-06	31966	10.49	115655	13.06	72572	17.00
08	CLJ-DS-07	30992	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.

page 1 of 2

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0322

Lab Name: PSC 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

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	107570		20.37		95143		26.75		99571		32.52	
	UPPER LIMIT	215140		20.87		191286		27.25		199142		33.02	
	LOWER LIMIT	53785		19.87		47971		26.25		49785		32.02	
	EPA SAMPLE NO.												
01	SBIK1	83490		20.36		77018		26.73		73409		32.55	
02	SBIK1BS	116417		20.38		100544		26.74		84895		32.55	
03	C6528MS	119538		20.36		104627		26.73		93463		32.54	
04	C6528MSD	117256		20.36		104334		26.74		90763		32.54	
05	C6528	110778		20.36		101698		26.72		94620		32.54	
06	C6529	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	103435		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.

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8B

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: 1214

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT.
	12 HOUR STD	28947	10.50	109923	13.07	77172	17.00
	UPPER LIMIT	57894	11.00	219846	13.57	154344	17.50
	LOWER LIMIT	14473	10.00	54961	12.57	38586	16.50
	EPA SAMPLE NO.						
01	CLI-DS-01D	28565	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0324

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG 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	20.38	103995	26.74	103478	32.51
	UPPER LIMIT	270638	20.88	217990	27.24	206956	33.01
	LOWER LIMIT	67634	19.88	54497	26.24	51739	32.01
	EPA SAMPLE NO.						
01	CLI-DS-07D	111528	20.36	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.

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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) TCP Lab Sample ID: N7V3336

Sample wt/vol: 300 (g/mL) mL Lab File ID: B2856

Level: (low/med) ~~MED~~ 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		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		
591-78-6	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: ~~JA3557~~ NJV333

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

CAS NO.	COMPOUND		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	1850	
78-93-3	2-Butanone	3260	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1940 ~~193~~	
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: JM3557

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		Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	1990	
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

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)

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

CAS NO.	COMPOUND		Q
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	3170	
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

EPA SAMPLE NO.

C6528

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) TCP 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: 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		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		
591-78-6	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.

C6529

Lab Name: ASC Contract: NEESA

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

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) ug/L

CAS NO.	COMPOUND		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		
591-78-6	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-06

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) TCLP Lab Sample ID: JM3559

Sample wt/vol: 300 (g/mL) mL Lab File ID: B2862

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

CAS NO.	COMPOUND		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		
591-78-6	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

CAS NO.	COMPOUND		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		
591-78-6	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) TCLP 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)

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

CAS NO.	COMPOUND		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		
591-78-6	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-08

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) TCLP 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)

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

CAS NO.	COMPOUND		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		
591-78-6	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

CLJ-DS-09

Lab Name: ASC Contract: NEESA

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

CAS NO.	COMPOUND		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		
591-78-6	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

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	93.1	92.8	85.7		0
03	C6528MS	100	97.0	97.5		0
04	C6528MSD	96.2	93.3	87.3		0
05	C6528	95.1	92.3	93.7		0
06	C6529	95.5	93.7	93.3		0
07	CLJ-DS-06	90.4	88.6	89.0		0
08	CLJ-DS-07	86.9 *	85.6 *	86.1		2
09	CLJ-DS-07D	95.2	94.2	95.3		0
10	CLJ-DS-08	91.6	93.4	90.8		0
11	CLJ-DS-09	88.8	85.0 *	86.6		1
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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	QC LIMITS 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~~ 1.56 DTA	20	30-130
Tetrachloroethene	100	74.2	74.2	5.13	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: NEESA

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

Blank 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
rbon Tetrachloride	100	0	77.5	77.5	30-130
loroform	100	0	77.0	77.0	30-130
-Butanone	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.

VBLK01

Lab Name: ASC Contract: NEESA

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

Lab File ID: B2856 Lab Sample ID: N7V3336VS

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	CLJ-DS-06	JM 3559V	B2862	14:26
06	CLJ-DS-07	JM 3560V	B2863	15:02
07	CLJ-DS-07D	JM 3561V	B2864	15:38
08	CLJ-DS-08	JM 3562V	B2865	16:15
09	CLJ-DS-09	JM 3563V	B2866	16:50
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COMMENTS:

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					
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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: 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	(97.92) 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	VBLK01	N7V3336V	B2856	3-4-94	10:39
02	VBLK01BS	N7V3336VS	B2857	3-4-94	11:27
03	C6528MS	JM3557VS	B2858	3-4-94	12:03
04	C6528MSD	JM3557VR	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	CLJ-DS-06	JM3559V	B2862	3-4-94	14:26
08	CLJ-DS-07	JM3560V	B2863	3-4-94	15:02
09	CLJ-DS-07D	JM3561V	B2864	3-4-94	15:38
10	CLJ-DS-08	JM3562V	B2865	3-4-94	16:15
11	CLJ-DS-09	JM3563V	B2866	3-4-94	16:50
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FORM V VOA 3/90

6A
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: DB624 ID: 0.53 (mm)

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

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.456	0.457	0.469	0.499	0.515	0.479	5.56
Bromomethane *	1.22	1.06	0.868	0.714	0.631	0.899	27.0 *
Vinyl Chloride *	1.42	1.40	1.34	1.39	1.43	1.39	2.66 *
Chloroethane	0.771	0.850	0.715	0.587	0.436	0.693	26.6
Methylene Chloride	1.44	1.44	1.38	1.33	1.29	1.37	4.68
Acetone	0.651	0.463	0.516	0.383	0.260	0.455	32.1
Carbon Disulfide	4.18	4.28	4.10	4.12	4.02	4.14	2.32
1,1-Dichloroethene		1.52	1.34	1.30	1.12	1.33	10.7 *
1,1-Dichloroethane (trans) *	2.74	2.86	2.76	2.81	2.76	2.79	1.80 *
1,2-Dichloroethene ~~(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	0.664	0.607	0.646	3.95 *
1,2-Dichloropropane	0.423	0.453	0.444	0.441	0.413	0.435	3.74
cis-1,3-Dichloropropene *	0.632	0.648	0.651	0.650	0.618	0.640	2.27 *
Trichloroethene *	0.457	0.467	0.465	0.444	0.398	0.446	6.34 *
Dibromochloromethane *	0.635	0.640	0.665	0.664	0.607	0.646	3.95 *
1,1,2-Trichloroethane *	0.350	0.362	0.359	0.353	0.318	0.348	5.16 *
Benzene *	0.986	1.01	0.979	0.943	0.851	0.955	6.58 *
trans-1,3-Dichloropropene *	0.447	0.456	0.473	0.461	0.437	0.456	3.25 *
Bromoform *	0.481	0.518	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	0.448	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	0.473	6.05 *
Styrene *	0.979	1.01	0.943	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

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD-B Calibration Date: 3-04-94 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: DB-624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.4792	.3782		21.1	
Bromomethane	.8986	.7402	0.100	17.6	25.0
Vinyl Chloride	1.3950	1.2057	0.100	13.9	25.0
Chloroethane	.6930	.6400		7.64	
Methylene Chloride	1.3747	1.605		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		78.6	
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	.5586	0.300	20.7	25.0
Dibromochloromethane	.5667	.6971	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	.1365	.1826		33.8	
2-Hexanone	.3187	.4495		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	1.076	1.212	0.500	12.6	25.0
Ethylbenzene	.4734	.5651	0.100	19.4	25.0
Styrene	.9483	1.1279	0.300	18.9	25.0
Xylene (total)	1.177	1.376	0.300	16.9	25.0
Toluene-d8	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): B2854 Date Analyzed: 03-04-94

Instrument ID: MSD-B Time Analyzed: 0902

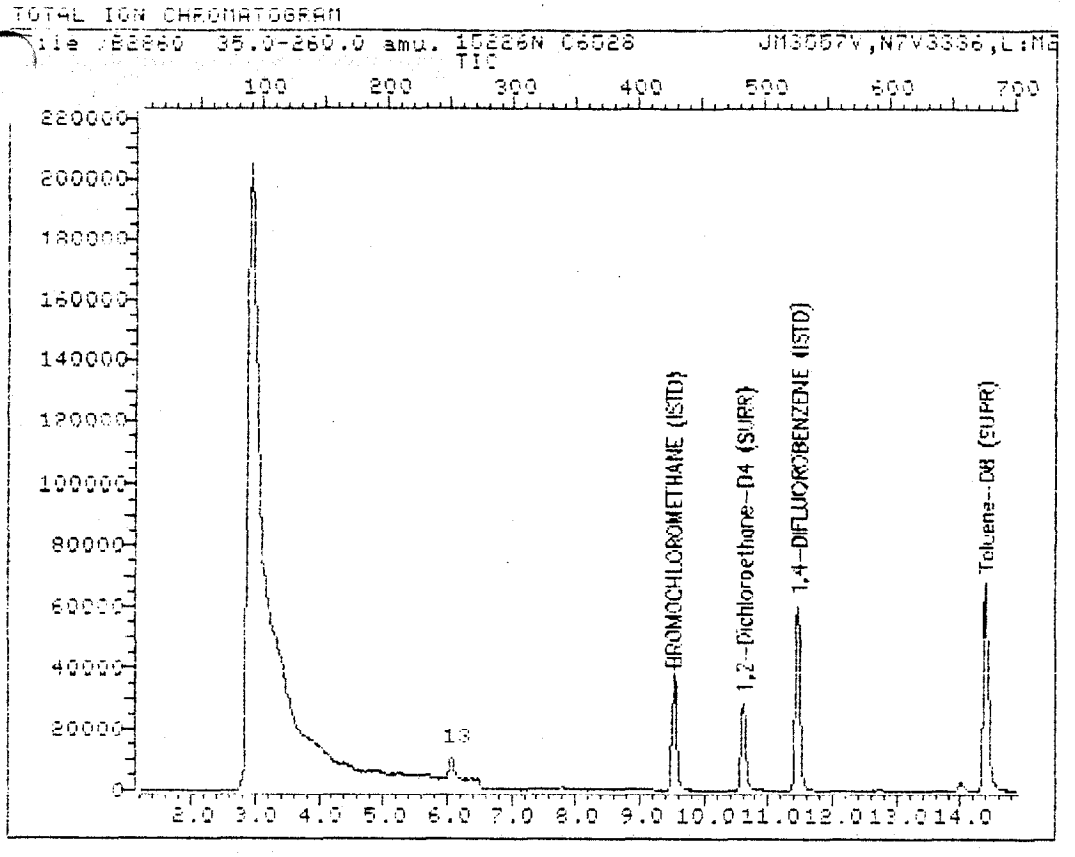
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) ___

		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	114546	17.74
02	VBLK01BS	31450	9.60	138510	11.51	109271	17.51
03	C6528MS	31151	9.53	134232	11.45	107413	17.48
04	C6528MSD	30049	9.54	133455	11.45	106470	17.47
05	C6528	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	104849	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	133946	11.45	109514	17.47
12							
13							
14							
15							
16							
17							
18							
19							
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.

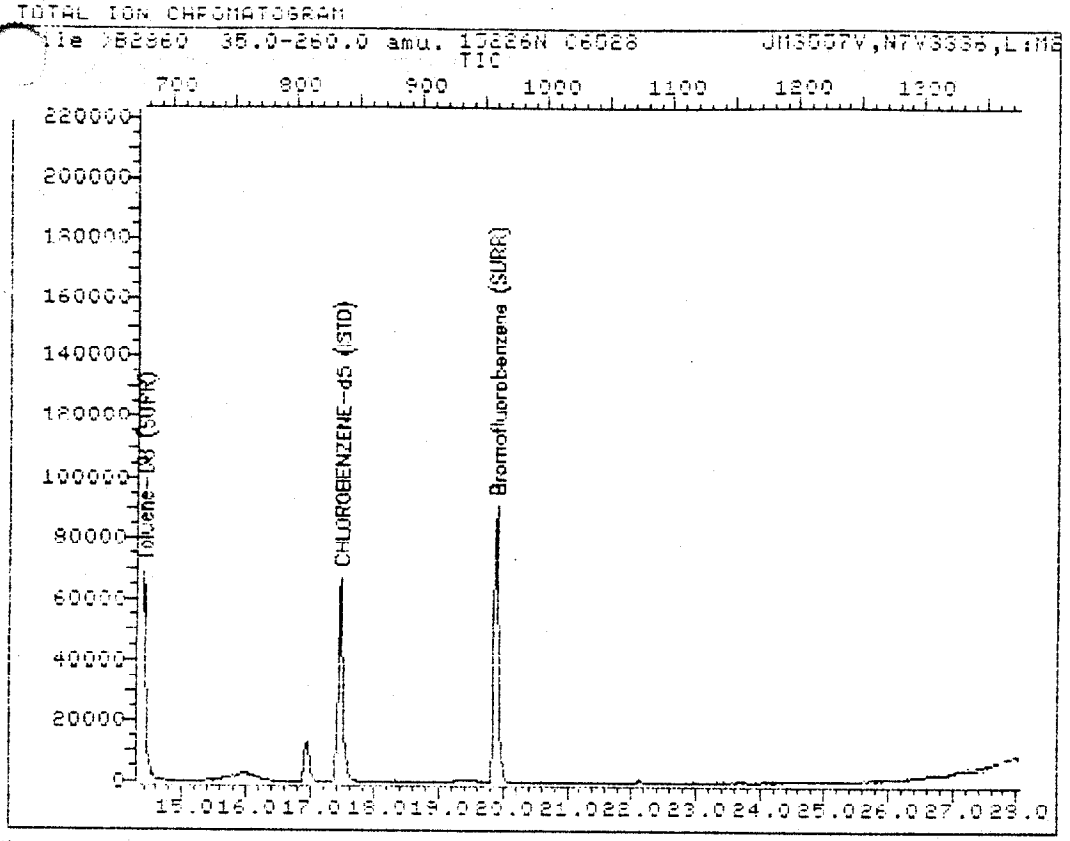


Data File: >B2860::D6 Quant Output File: ^B2860::QT
Name: 15226N C6528
Misc: JM3557V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B 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: >B2860::D6 Quant Output File: ^B2860::QT
Name: 15226N C6528
Misc: JM3557V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B 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

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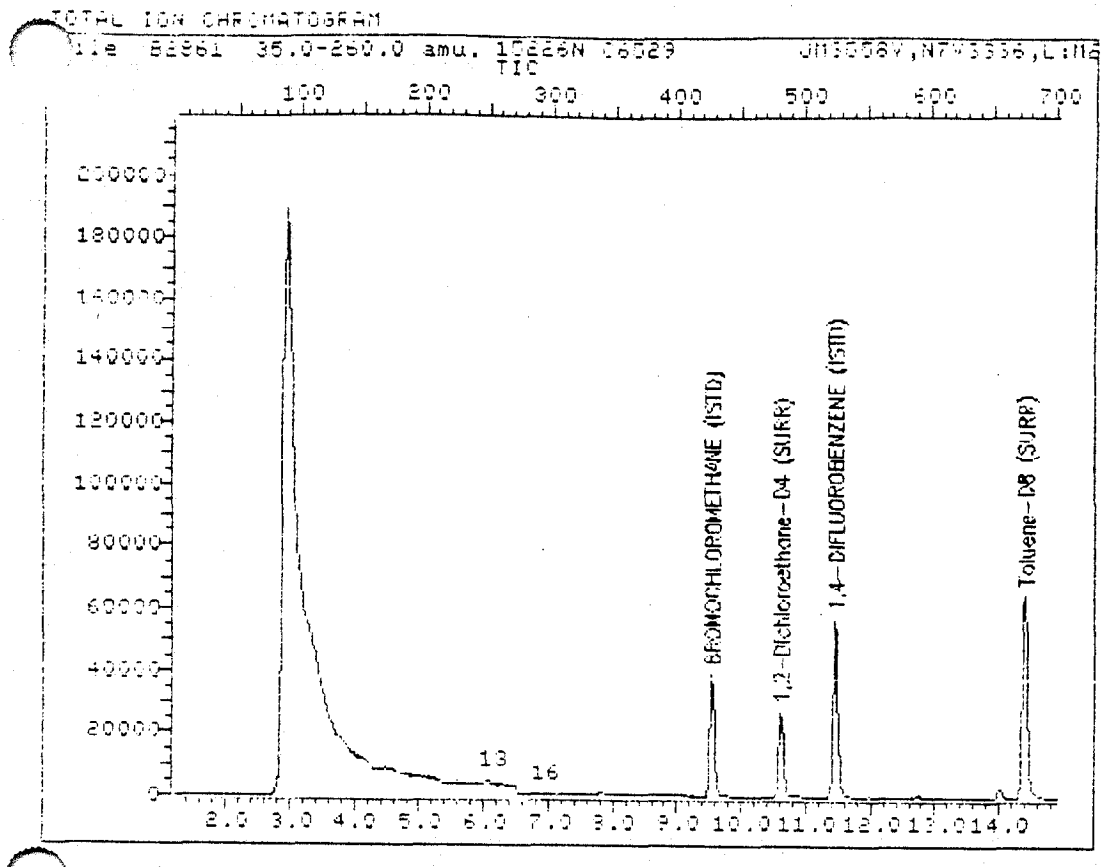
QUANT REPORT

Operator ID: USERTSC Quant Rev: 7 Quant Time: 940304 13:44
Output File: ^B2860::QT Injected at: 940304 13:15
Data File: >B2860::D6 Dilution Factor: 1.00000
Name: 15226N C6528
Misc: JM3567U,N7U3336,L:M2,.900,5:1,

ID File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	9.52	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 (SURR)	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 (SURR)	14.38	98.0	139341	47.56	ug/l	82
60)	Bromofluorobenzene (SURR)	19.89	95.0	105054	46.14	ug/l	89

* Compound is ISTD



Data File: >B2861::D4 Quant Output File: ^B2861::QT
Name: 10226N 06529
Misc: JM3558V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 14:20
Injected at: 940304 13:50

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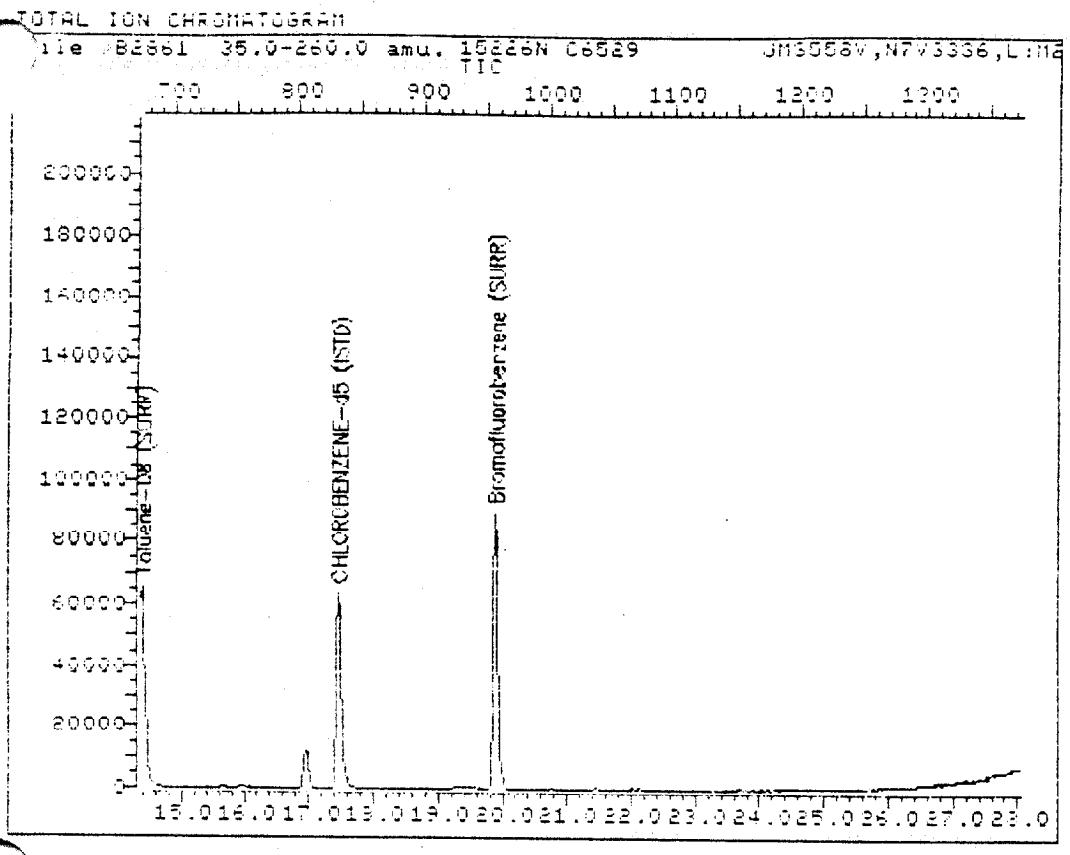

Data File: >B2861::D4 Quant Output File: ^B2861::QT
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Misc: JM3558V,N703336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS.
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 14:20
Injected at: 940304 13:50

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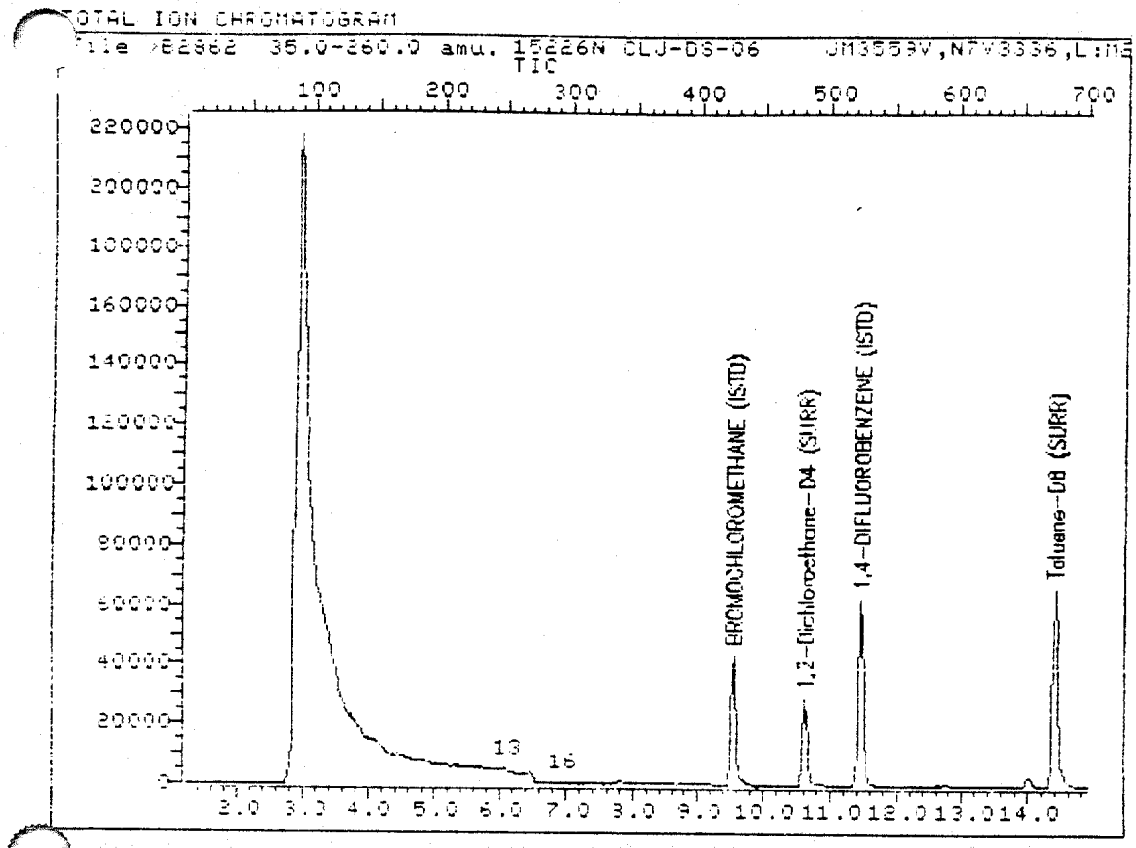
QUANT REPORT

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: 15226N C6529
Misc: JM3558V,N7U3336,L:M2,.200,5:1,

ID File: IB304A::D4
Title: MSD-B 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	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
26)	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-d5 (ISTD)	17.46	117.0	99190	50.00	ug/l	90
49)	Toluene-D8 (SURR)	14.40	99.0	132746	47.75	ug/l	82
60)	Bromofluorobenzene (SURR)	19.28	95.0	101196	46.83	ug/l	98

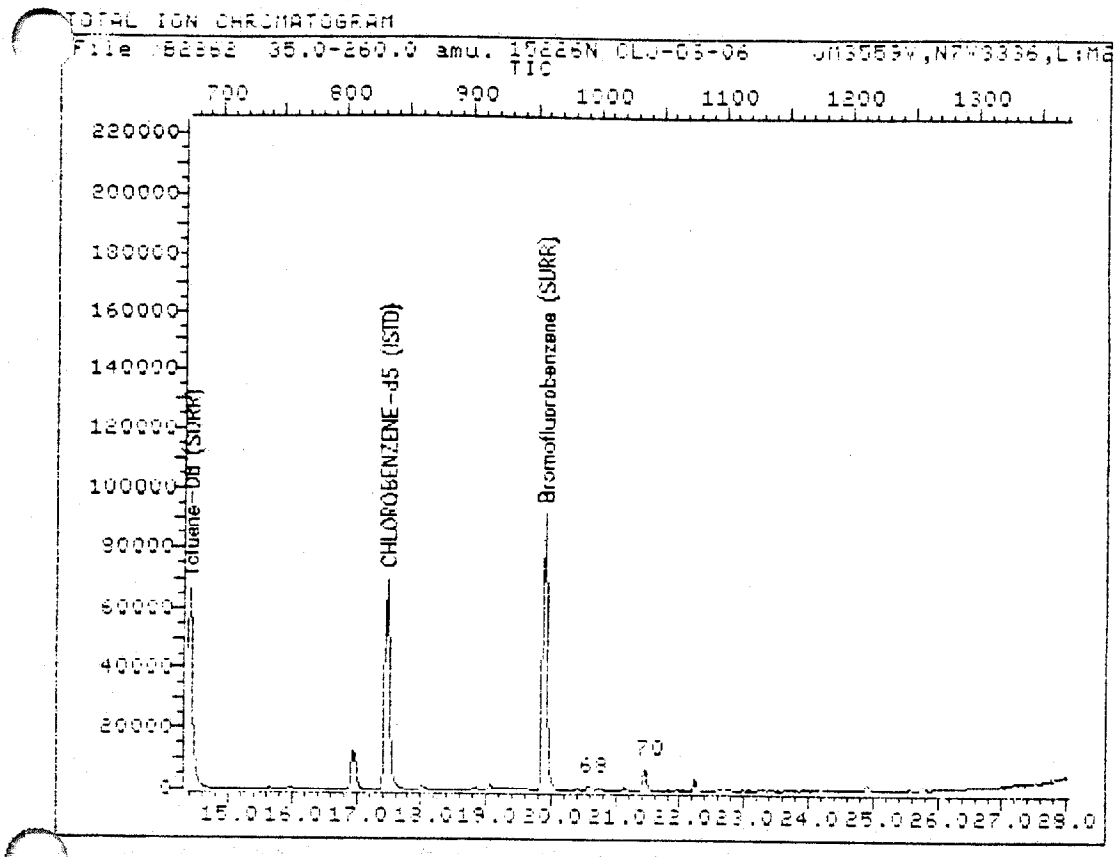
* Compound is ISTD



Data File: >B0862::06 Quant Output File: ^B0862::QT
Name: 15226N CLJ-DS-06
Misc: JM3559V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::04
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 14:56
Injected at: 940304 14:26



Data File: ^B2862::D6 Quant Output File: ^B2862::QT
Name: 15226N CLJ-DS-06
Misc: JM3559V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 14:56
Injected at: 940304 14:26

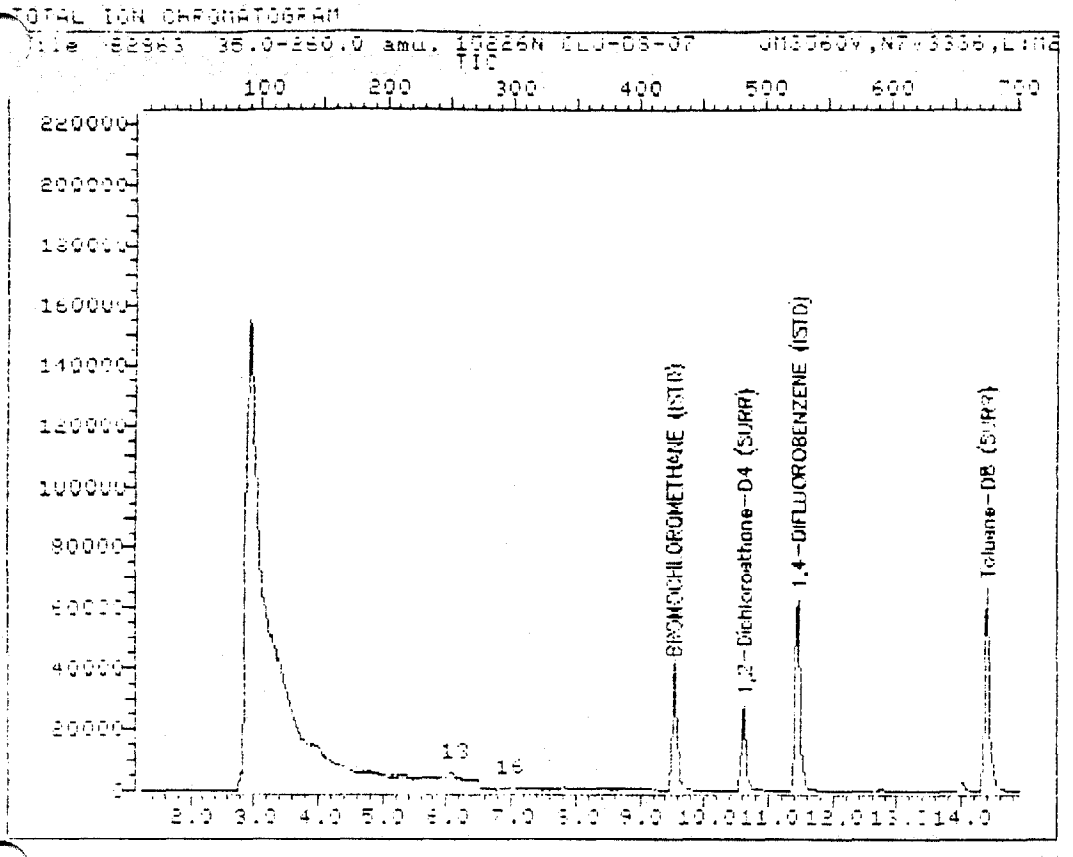
QUANT REPORT

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 CLJ-DS-06
Misc: JM3569U,NZU3336,L:M2,.200,5:1,

ID 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)	9.54	128.0	29935	50.00	ug/l	96
13)	Acetone	6.05	43.0	2347	6.75	ug/l	84
16)	Methylene chloride	6.89	84.0	1292	1.35	ug/l	79
26)	1,2-Dichloroethane-D4 (SURR)	10.41	65.0	52850	44.50	ug/l	87
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	128830	50.00	ug/l	90
48)	*CHLOROBENZENE-d5 (ISTD)	17.47	117.0	109849	50.00	ug/l	99
49)	Toluene-D8 (SURR)	14.38	98.0	139236	45.22	ug/l	82
60)	Bromofluorobenzene (SURR)	19.89	95.0	106029	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

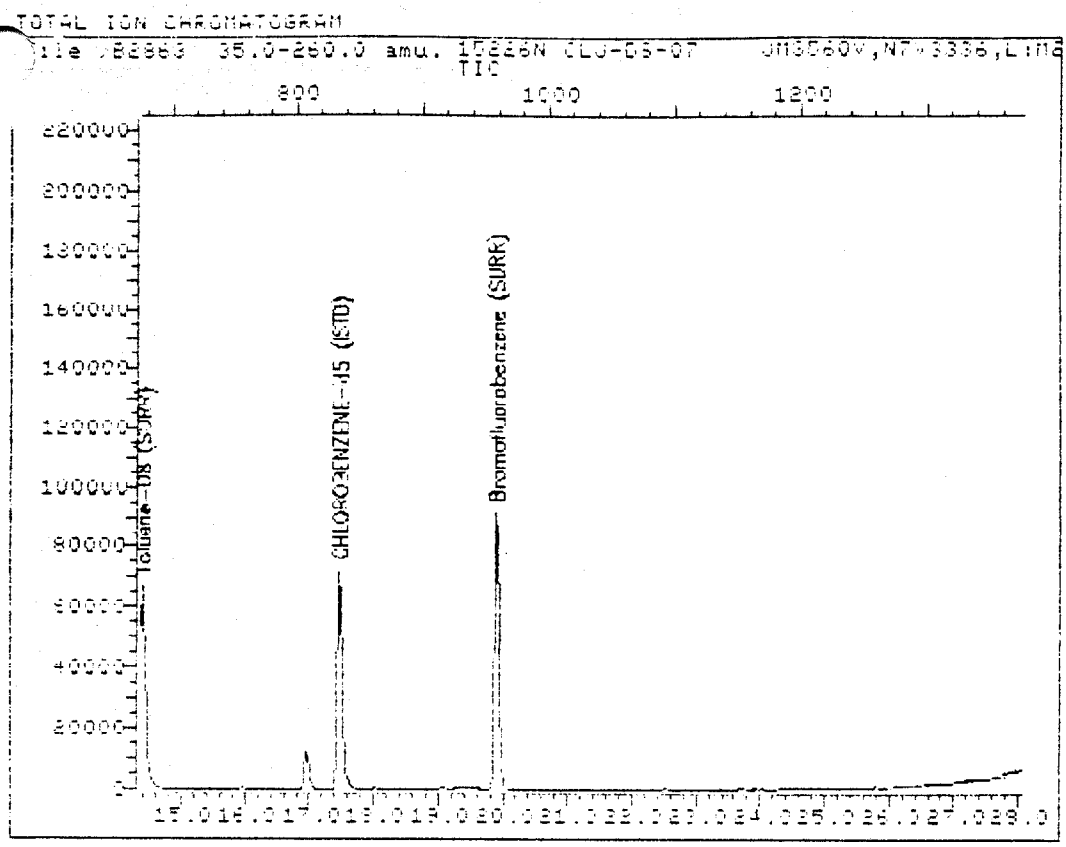


Data File: >B2863::D4 Quant Output File: ^B2863::QT
Name: 10826N CLJ-DS-07
Misc: JM3560V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSD
Quant Time: 940304 15:32
Injected at: 940304 15:02

TOTAL ION CHROMATOGRAM



Data File: ^B2863::D6 Quant Output File: ^B2863::QT
Name: 15226N CLJ-DS-07
Misc: JM3560V,N7V3336,L:M2,,200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 15:32
Injected at: 940304 15:02

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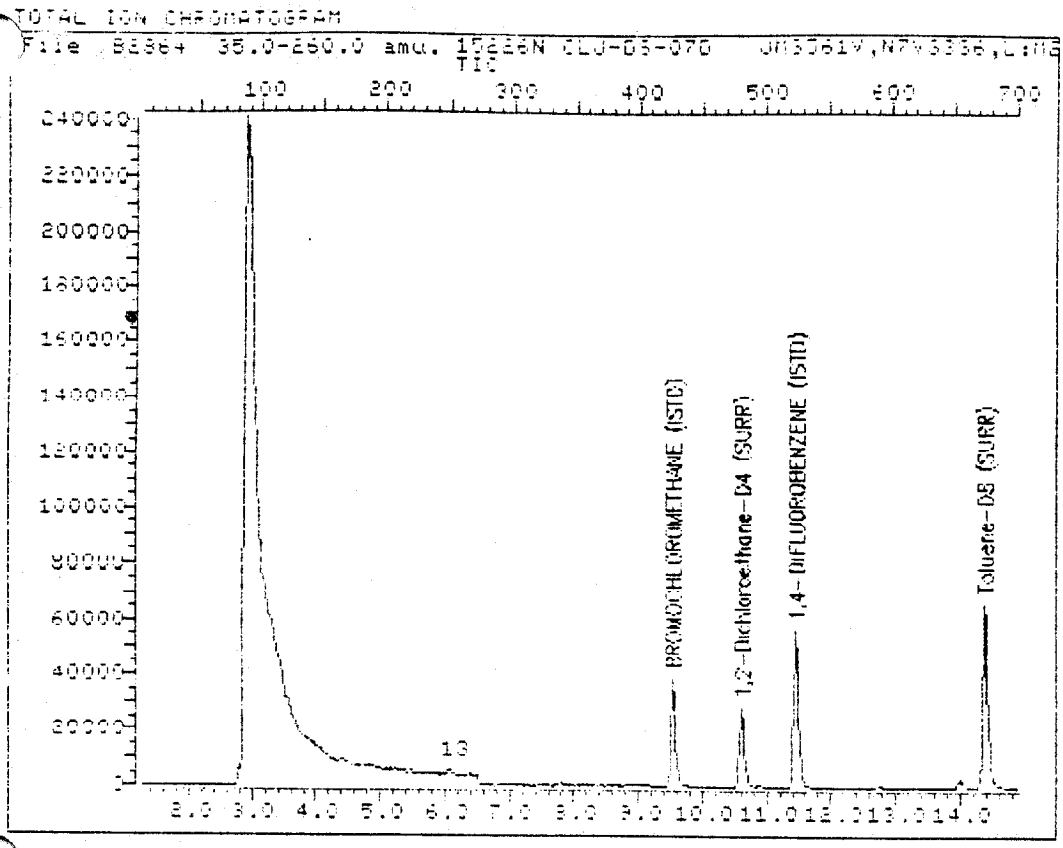
QUANT REPORT

Operator ID: USERTSC Quant Rev: 7 Quant Time: 940304 15:32
Output File: ^B2863::QT Injected at: 940304 15:02
Data File: >B2863::D6 Dilution Factor: 1.00000
Name: 15236N CLJ-09-07
Misc: JM3560U,NPU3336,L:MC,.200,5:1,

ID File: IB304A::D4
Title: MSD-B 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
26)	1,2-Dichloroethane-D4 (SURR)	10.42	65.0	53092	43.07	ug/l	87
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	136386	50.00	ug/l	89
48)	*CHLOROBENZENE-d5 (ISTD)	17.47	117.0	113557	50.00	ug/l	91
49)	Toluene-D8 (SURR)	14.39	98.0	138364	43.47	ug/l	89
60)	Bromofluorobenzene (SURR)	19.89	95.0	105857	42.79	ug/l	96

* Compound is ISTD



Data File: >B2864::D6 Quant Output File: ^B2864::QT
Name: 15226N CLJ-05-070
Misc: JM3561V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 16:08
Injected at: 940304 15:38

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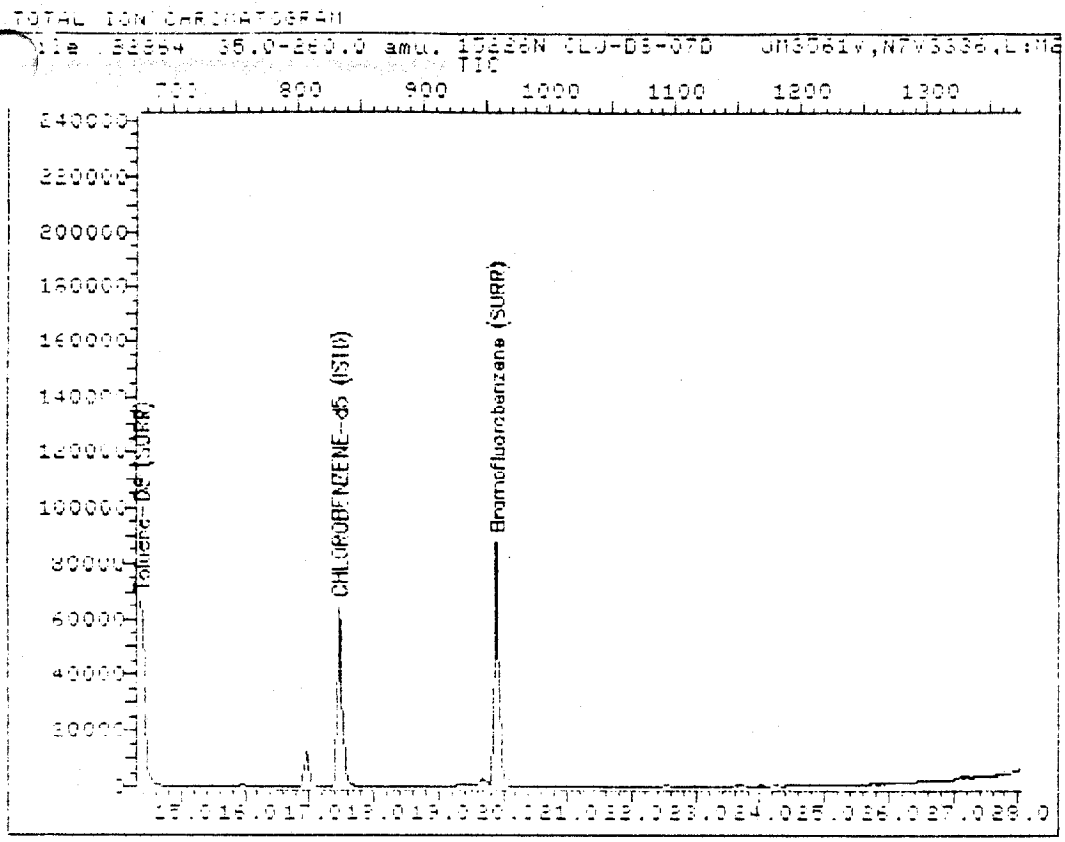

Data File: >B0864::D4 Quant Output File: ^B0864::QT
Name: 17828N CLJ-D3-07D
Misc: JM3561V,N7U3336,L:MO,.200,5:1,

Id File: IB3049::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 16:08
Injected at: 940304 15:38

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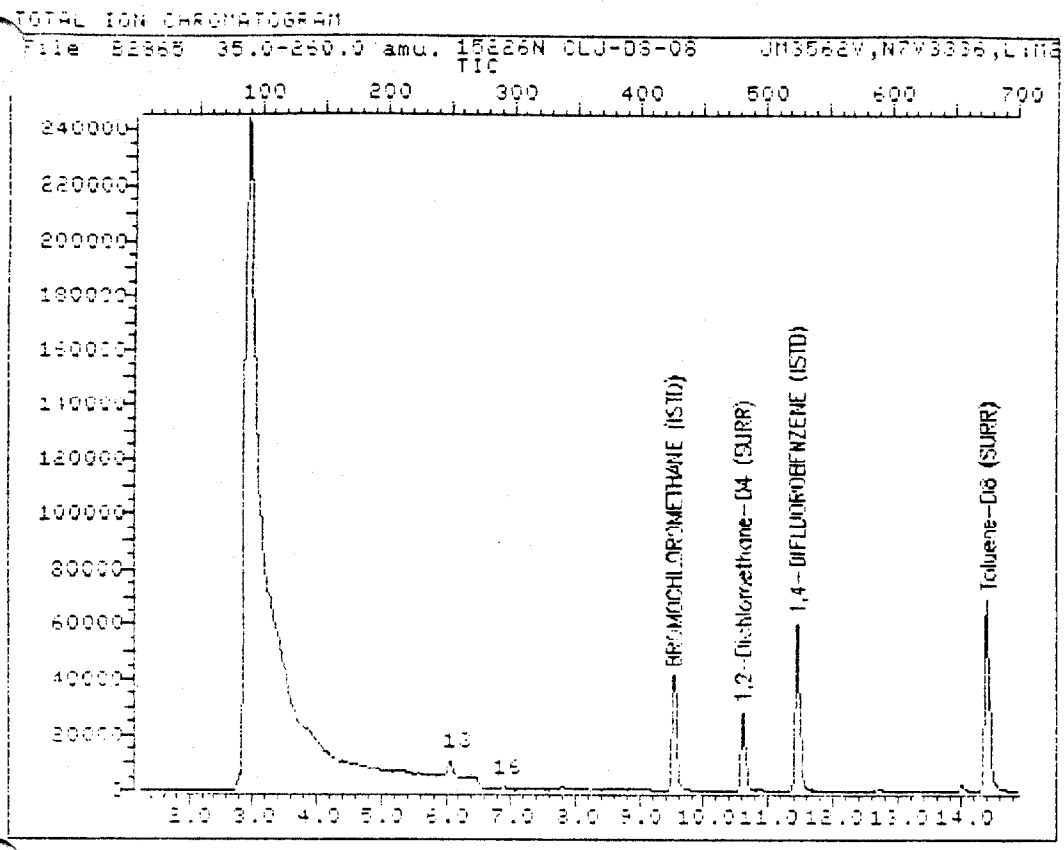
QUANT REPORT

Operator ID: USERTSC Quant Rev: 7 Quant Time: 940304 16:09
Output File: ^B2864::QT Injected at: 940304 15:38
Data File: >B2864::D6 Dilution Factor: 1.00000
Name: 15226N CLJ-DS-07D
Misc: JM3561U,N7U3336,L:M2,.200,5:1,

ID File: IP304A::D4
Title: MCD-P 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	27463	50.00	ug/l	96
13)	Acetone	6.07	43.0	4236	13.29	ug/l	82
26)	1,2-Dichloroethane-D4 (SURR)	10.62	65.0	51894	47.63	ug/l	88
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	117331	50.00	ug/l	85
48)	*CHLOROBENZENE-d5 (ISTD)	17.47	117.0	100565	50.00	ug/l	94
49)	Toluene-D8 (SURR)	14.39	98.0	134163	47.59	ug/l	83
60)	Bromofluorobenzene (SURR)	19.91	95.0	103170	47.09	ug/l	91

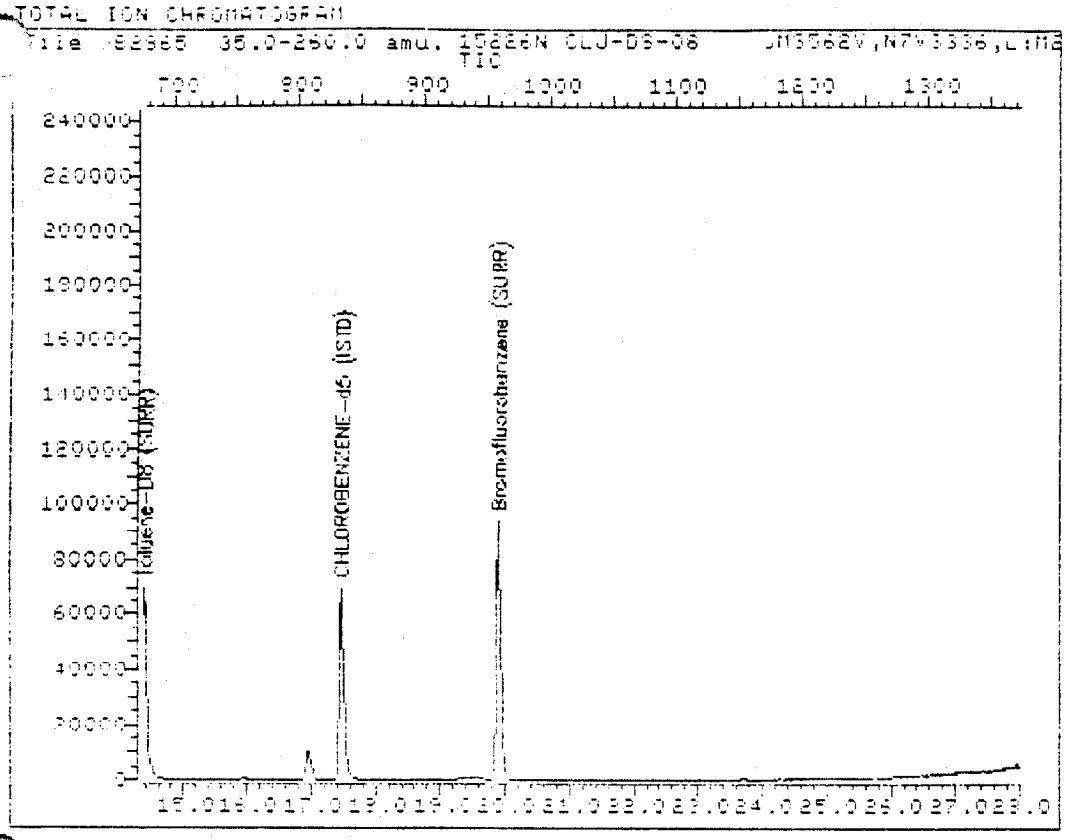
* Compound is ISTD



Data File: >B2865::D6 Quant Output File: ^B2865::QT
Name: 15226N CLJ-09-08
Misc: JM3562V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 16:43
Injected at: 940304 16:15



Data File: >B2865::D4 Quant Output File: ^B2865::QT
Name: 15226N CLJ-DS-08
Misc: JM3562V,N7W3336,L:M2,.200,5:1,

Id File: IR304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSC
Quant Time: 940304 16:43
Injected at: 940304 16:15

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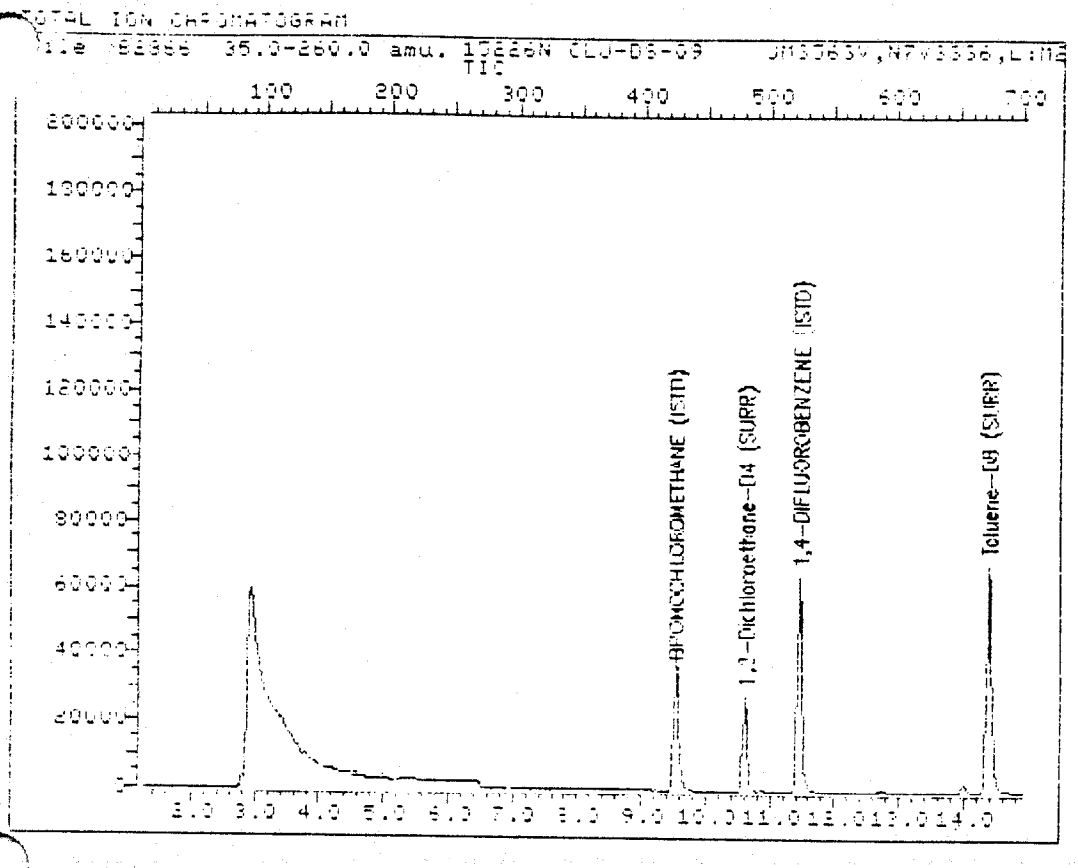
QUANT REPORT

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: 15026N CLJ-09-08
Misc: JM3562U,N2U3336,L:M2,.000,5:1,

ID File: IB304A::D4
Title: MSD-B 08604 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-D4 (SUPP)	10.60	65.0	54757	45.39	ug/l	91
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.44	114.0	131656	50.00	ug/l	92
49)	*CHLOROBENZENE-D5 (ISTD)	17.47	117.0	110193	50.00	ug/l	91
49)	Toluene-D8 (SUPP)	14.39	98.0	141518	45.82	ug/l	83
62)	Bromofluorobenzene (SUPP)	19.09	95.0	106110	44.20	ug/l	98

* Compound is ISTD



Data File: >B2866::D6 Quant Output File: ^B2866::QT
Name: 15226N CLJ-DS-09
Misc: JM3563V,N7V3336,L:M2,.200,5:1,

Id File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES 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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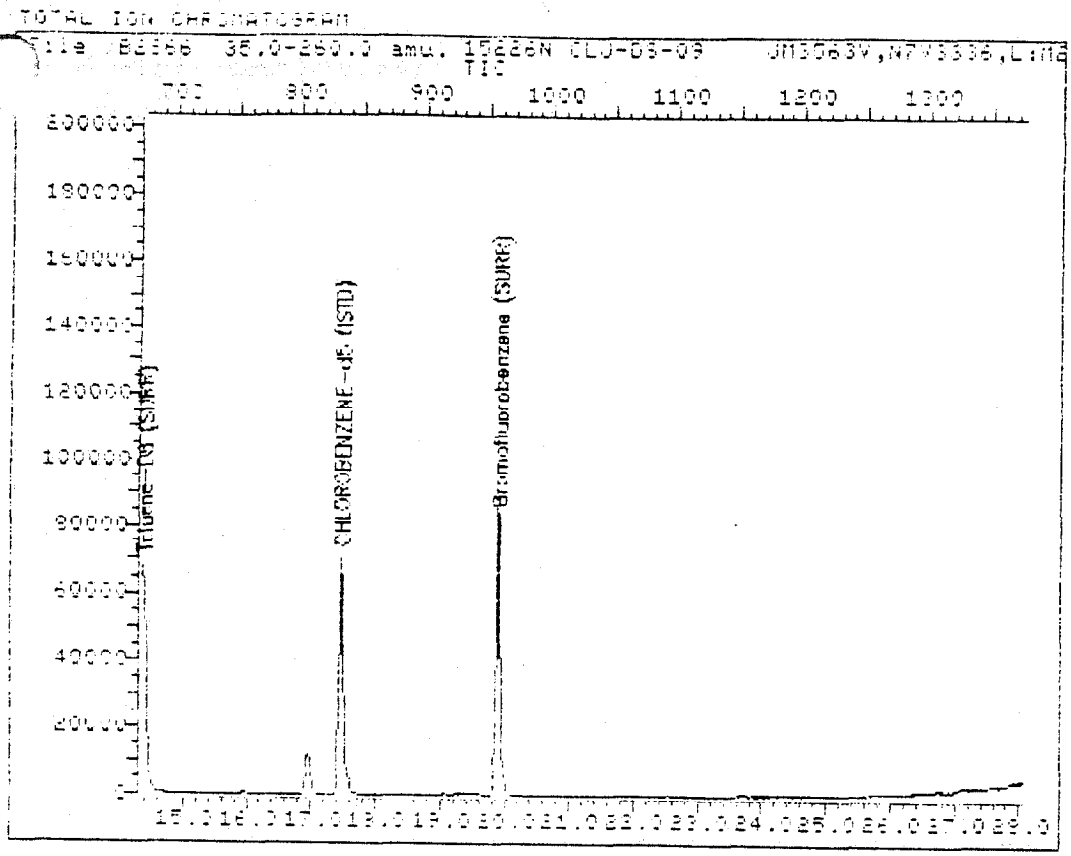

Data File: >B2966::D4 Quant Output File: ^B2966::QT
Name: 15626N CLJ-DS-09
Misc: JM3563V,N7W3336,L:M2,.200,5:1,

Id File: IR304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

Operator ID: USERTSD
Quant Time: 940304 17:20
Injected at: 940304 16:50

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QUANT REPORT

Operator ID: USERTSC
Output File: ^B2866::QT
Data File: ^B2866::D6
Name: 15226N CLJ-DS-09
Misc: JM3563U,N7U3336,L:M2,.200,F:1,

Quant Rev: 7
Quant Time: 940304 17:20
Injected at: 940304 16:50
Dilution Factor: 1.00000

ID File: IB304A::D4
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS
Last Calibration: 940304 10:00

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	9.52	128.0	30671	50.00	ug/l	88
26)	1,2-Dichloroethane-D4 (SURR)	10.61	65.0	52714	43.32	ug/l	87
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	133946	50.00	ug/l	90
48)	*CHLOROBENZENE-d5 (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)	19.91	95.0	101345	42.48	ug/l	85

* Compound is ISTD

SECTION 1 Vol b

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NUMBER	LAB ID	LAB SAMPLE ID	DQO LEVEL	PACKAGE ID	AIRBILL NUMBER
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

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point 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
ASC Sample Number:		JM3815	JM3816	JM3817	JM3818	JM3819	JM3820	JM3821	JM3822
Sample Date:		940223	940223	940223	940223	940223	940223	940223	940223
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
Conventional Data (CV10)									
Flash Point, Seta Flash 60	Deg C	>60	>60	>60	>60	>60	>60	>60	>60
pH (Electrode)	std	6.16	4.17	4.14	5.83	5.16	4.36	4.65	4.44
RCRA TCLP Leachate Metals Analysis, (ME52)									
Arsenic	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Barium	mg/L	.142	.264	.432	.393	.309	.418	.336	.262
Cadmium	mg/L	<.001	.003	.001	<.001	<.001	.004	<.001	.002
Chromium	mg/L	<.004	<.004	.012	.006	<.004	<.004	<.004	.004
Lead	mg/L	<.002	<.002	.011	.008	.002	.009	.006	.006
Mercury	mg/L	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
Selenium	mg/L	<.001	<.001	<.001	<.001	<.001	.001	<.001	.002
Silver	mg/L	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		**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			
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 Corp* **Contract:** NeesA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-CSS-23	JM3815
CLJ-CSS-24	JM3816
CLJ-CSS-25	JM3817
CLJ-CSS-26	JM3818
CLJ-CSS-27	JM3819
CLJ-CSS-28	JM3820
CLJ-CSS-29	JM3821
CLJ-CSS-30	JM3822
CLJ-CSS-31	JM3823
CLJ-CSS-32	JM3824

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

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NeesA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-2

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-CSS-33	JM3825

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 #:** CLJ-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	1.4	U		F
7440-39-3	Barium	142			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) 00005

Lab Name: *Analytical Services Corp* **Contract:** Neesa **EPA SAMPLE #:** CLJ-CSS-24

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-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	1.4	U		F
7440-39-3	Barium	264			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	3.1	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	2.0	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-LSS-25

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-LSS-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	1.4	U		F
7440-39-3	Barium	432			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.5	B		P
7440-47-3	Chromium	12.1			P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	11.3			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		F
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	1.4	U		F
7440-39-3	Barium	393			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	6.0	B		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	8.2			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		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) 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	1.4	U		F
7440-39-3	Barium	309			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	2.2	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	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-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 #:** CLJ-CSS-30

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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 #:** CLJ-CSS-31

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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-23

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	1.4	U		F
7440-39-3	Barium	357			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: ____

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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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:** NeesA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-23

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLJ-CSS-2

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	35.3	34.2	96.9	21.2	22.4	106			
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 #:** CLS-255-2

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLS-055-2

Initial Calibration Source: APG **Continuing Calibration Source:** APG

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium				23.5	21.4	91.0	21.2	90.2	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-2

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 Corp* **Contract:** NeOSA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-OSS-2

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLJ-CSS-2

AA CRDL Standard Source: _____ **ICP CRDL Standard Source:** Ventures

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum								
Antimony								
Arsenic	10.0	10.4	104					
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)

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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum								
Antimony								
Arsenic	10.0	9.0	90					
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)

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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

Lab Name: *Analytical Services Corp* **Contract:** NeesA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-

AA CRDL Standard Source: Ventures **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	2.5	83.3					
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 #:** CLS-CSS-2

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	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 #:** CLJ-CSS-2

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	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-C55

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) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium	0.9	U	1.4	B	0.9	U			0.9	U	P
Beryllium											
Boron											
Cadmium	1.0	U	0.4	U	0.6	U			0.9	U	P
Chromium	-0.6	U	0.5	U	0.7	U			1.9	U	P
Cobalt											
Copper											
Iron											
Lead											
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium											
Silver	-5.2	U	2.7	U	-0.5	U			1.6	U	P
Strontium											
Thallium											
Vanadium											
Zinc											

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NeesA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-7

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) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic	-1.6	B	-.83	U	-1.8	B	-1.4	B	-1.4	U	F
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	~~-2.3~~ 1.3	~~B~~ U	-1.5	U	-1.4	U	-1.5	U	-1.4	U	F
Manganese											
Mercury	-.12	U	-.07	U	-.04	U	-.06	U	-.07	U	CV
Molybdenum											
Nickel											
Selenium	1.0	U	-0.7	U	-1.0	U	-1.0	U	0.1	U	F
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NeesA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-055-

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) 1	C	2	C	3	C	Preparation Blank	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)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-255-2

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) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic	-.8	U	-.2	U	.01	U					
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	-2.3	B	-2.0	B							
Manganese											
Mercury											
Molybdenum											
Nickel											
Selenium											
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

ICP INTERFERENCE CHECK SAMPLE (4)

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	Ø	471	2.1	476	101	1.6	472	100
Beryllium								
Boron								
Cadmium	Ø	874	-9.5	894	102	-10.1	891	102
Chromium	Ø	462	-4.4	467	101	-5.8	464	101
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	Ø	923	4.3	940	102	-5.4	931	101
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	U	20.0	116		F
Barium	75-125	9293		142		10400	88.0		P
Beryllium									
Boron									
Cadmium	75-125	932		0.7	U	1050	88.8		P
Chromium	75-125	4890		3.7	U	5430	90.1		P
Cobalt									
Copper									
Iron									
Lead	75-125	21.2		0.9	U	20.0	106		F
Manganese									
Mercury	75-125	1.94		-.06	U	2.00	97		CV
Molybdenum									
Nickel									
Selenium	75-125	17.8		0.2	U	20.0	89		F
Silver	75-125	90.7		1.1	U	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	U	1050	98.1		P
Chromium		5320		6.4	B	5430	97.9		P
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver		103		-.5	U	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)	C	RPD	Q	M
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 Corp* **Contract:** NeeSA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CL3-665-2

Liquid LCS Source: Ventures **Aqueous LCS Source:** _____

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) 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		9 DLS 3/8/94							
Silver	93.5	95.6	102						
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NeOSA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-

Liquid LCS Source: Ventures **Aqueous LCS Source:** _____

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	20.0	20.1	101						
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	20.0	20.5	103						
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	20.0	22.6	113						
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) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	2.00	2.21	111						
Molybdenum									
Nickel									
Selenium	RLS ~~20.0~~	RLS ~~22.6~~	RLS ~~113~~						
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

ICP SERIAL DILUTIONS (9)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **EPA SAMPLE #:** CLJ-CSS-3

Contract: NEOSA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-2

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

ANALYTE	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
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							

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: _____

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NeesA

Case #: NA **SAS #:** NA **SDG #:** CIJ-CSS-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: _____

ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12A)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NeesA

Case #: NA **SAS #:** NA **SDG #:** CN-CSS-23 **ICP ID #:** 61

Date: _____

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	V
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium	214.44	.00007		.000046		-.00021
Chromium	267.72					.00008
Cobalt						
Copper						
Iron						
Lead						
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 Corp* Lab Code: NA Contract: NeesA

Case #: NA SAS #: NA SDG #: CLJ-CSS-23 Method: P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	3/1/94		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-23S	↓		↓
CLJ-CSS-23S	↓		↓
TCLP BLANK	↓		↓

[signature] 3/10/94

PREPARATION LOG (13)

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-23S			
CLJ-CSS-23S			
TCLP Blank			

3/7/94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NeesA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-23 **Method:** CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	3/1/94	X	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-23S			
CLJ-CSS-23S			
TCLP BLANK			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-23 **Method:** P
Instrument ID Number: 61 **Start Date:** 03/04/94 **End Date:** 03/04/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
STD 1-Blank		0907					X			X	X										X				
STD3		0910																							
STD3		0914					X			X	X										X				
STD2		0918					X			X	X										X				
STD4		0922					X			X	X										X				
ICV		0925					X			X	X										X				
ICB		0929					X			X	X										X				
CRI		0933																							
CRI		0937					X			X	X										X				
ICSA		0941					X			X	X										X				
ICSAB		0945					X			X	X										X				
STD #3		0948					X			X	X										X				
PBW		0956					X			X	X										X				
LCSW		1002					X			X	X										X				
CLJ-CSS-23S		1008					X			X	X										X				

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ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NeesA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-23 **Method:** P

Instrument ID Number: 61 **Start Date:** 03/04/94 **End Date:** 03/04/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-23S		1012					X			X	X										X				
CLJ-CSS-23		1016					X			X	X										X				
CLJ-CSS-23D		1019					X			X	X										X				
CLJ-CSS-24		1023					X			X	X										X				
CLJ-CSS-25		1027					X			X	X										X				
CLJ-CSS-26		1031					X			X	X										X				
CCV		1034					X			X	X										X				
CCB		1037					X			X	X										X				
CLJ-CSS-27		1041					X			X	X										X				
CLJ-CSS-28		1045					X			X	X										X				
CLJ-CSS-29		1049					X			X	X										X				
CLJ-CSS-30		1052					X			X	X										X				
CLJ-CSS-31		1056					X			X	X										X				
CLJ-CSS-32		1100					X			X	X										X				
CLJ-CSS-33		1104					X			X	X										X				

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ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NeesA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-23 **Method:** P

Instrument ID Number: 61 **Start Date:** 03/04/94 **End Date:** 03/04/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-32L	5	1107					X			X	X										X				
CLJ-CSS-32A		1112					X			X	X										X				
TCLP BLK		1115					X			X	X										X				
CCV		1118					X			X	X										X				
CCB		1121					X			X	X										X				
CRI		1126					X			X	X										X				
ICSA		1129					X			X	X										X				
ICSAB		1133					X			X	X										X				

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00053

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:** 03/08/94 **End Date:** 03/08/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
Cal BLK		1304				X																			
STD1		1311				X																			
STD2		1318				X																			
STD3		1325				X																			
STD4		1331				X																			
STD5		1338				X																			
STD6		1345				X																			
ICV		1357				X																			
ICB		1404				X																			
CRA		1410				X																			
PBW		1417				X																			
PBW A		1424	100			X																			
LCSW		1431				X																			
LCSW A		1438	102			X																			
CLJ-CSS-23S		1446				X																			

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000054

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:** 03/08/94 **End Date:** 03/08/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-23S		1453				X																			
CLJ-CSS-23		1500				X																			
CLJ-CSS-23A		1507	107			X																			
CLJ-CSS-23D		1514				X																			
CLJ-CSS-23A		1521	108			X																			
CCV		1528				X																			
CCB		1535				X																			
CLJ-CSS-24		1541																							
CLJ-CSS-24		1551																							
CLJ-CSS-24		1558																							
CCV		1606				X																			
CCB		1612				X																			
CLJ-CSS-24		1619				X																			
CLJ-CSS-24A		1626	105			X																			
CLJ-CSS-25		1633				X																			

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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:** 03/08/94 **End Date:** 03/08/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-25A		1640	101			X																			
CLJ-CSS-26		1647				X																			
CLJ-CSS-26A		1654	104			X																			
CLJ-CSS-27		1701				X																			
CLJ-CSS-27A		1708	102			X																			
CLJ-CSS-28		1715				X																			
CLJ-CSS-28A		1722	102			X																			
CCV		1728				X																			
CCB		1735				X																			

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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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
Cal B/K		703				X																			
STD1		710				X																			
STD2		717				X																			
STD3		724				X																			
STD4		731				X																			
STD5		738				X																			
STD6		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																			

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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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-31A		848	102			X																			
CLJ-CSS-32		854				X																			
CLJ-CSS-32A		901	107			X																			
CLJ-CSS-33		908				X																			
CLJ-CSS-33A		915	100			X																			
CCV		922				X																			
CCB		929				X																			
TCLPBLK		935				X																			
TCLPBLK A		942	104			X																			
CCV		949				X																			
CCB		956				X																			

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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: 51 **Start Date:** 03/03/94 **End Date:** 03/03/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CAL BLK		1426													X										
STD1		1433													X										
STD2		1439													X										
STD3		1446													X										
STD4		1453													X										
STD5		1500													X										
STD6		1506													X										
ICV		1529													X										
ICB		1535													X										
CRA		1542													X										
PBW		1549													X										
PBW A		1555	99												X										
LCSW		1602													X										
LCSW A		1609	94.3												X										
CLJ-CSS-23S		1616													X										

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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: 51 **Start Date:** 03/03/94 **End Date:** 03/03/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
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										

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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: 51 **Start Date:** 03/03/94 **End Date:** 03/03/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-28		1802													X										
CLJ-CSS-28A		1809	90.6												X										
CCV		1816													X										
CCB		1822													X										
CLJ-CSS-29		1829													X										
CLJ-CSS-29A		1835	91.6												X										
CLJ-CSS 30		1842													X										
CLJ-CSS-30A		1849	87.3												X										
CLJ-CSS-31		1855																							
CLJ-CSS-31A		1901																							
CLJ-CSS-32		1908													X										
CLJ-CSS-32A		1914	87.1												X										
CLJ-CSS-33		1921																							
CLJ-CSS-33A		1927																							
CCV		1934													X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NoesA

Case #: NA **SAS #:** NA **SDG #:** CLI-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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCB		1940													X										
TCLPBLK		1947													X										
TCLPBLKA		1954													X										
Z		2000																							
Z		2007																							
Z		2013																							
Z		2020																							
Z		2027																							
Z		2034																							
Z		2040																							
Z		2047																							
CCV		2054													X										
CCB		2101													X										

[signature] 3/8/94

FORM XIV - IN

000623

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: 51 **Start Date:** 03/04/94 **End Date:** 03/04/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
Cal BLK		817													X										
STD1		824													X										
STD2		830													X										
STD3		837													X										
STD4		844													X										
STD5		851													X										
STD6		857													X										
ICV		905													X										
ICB		912													X										
CRA		918													X										
CLJ-CS-31	2	925													X										
CLJ-CSS-31A	2	932													X										
CLJ-CSS-33	2	939																							
CLJ-CSS-33		949													X										
CLJ-CSS-33A		955													X										

FORM XIV - IN

000063

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: 51 **Start Date:** 03/04/94 **End Date:** 03/04/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-33A		1002	88.3												X										
CCV		1009																							
CCV		1014													X										
CCB		1020													X										

FORM XIV - IN

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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
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					
ICV		1344																		X					
ICB		1351																		X					
CRA		1357																		X					
PBW		1404																							
PBW A		1411																							
PBW		1419																		X					
PBW A		1426																		X					
LCSW		1433																		X					

FORM XIV - IN

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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
LCSW A		1440																		X					
CLJ-CSS-23S		1447																		X					
CLJ-CSS-23S		1454																		X					
CLJ-CSS-23		1501																		X					
CLJ-CSS-23A		1508	78																	X					
CCV		1515																		X					
CCB		1522																		X					
CLJ-CSS-23D		1529																		X					
CLJ-CSS-23A		1536	88																	X					
CLJ-CSS-24		1543																		X					
CLJ-CSS-24A		1550	83																	X					
CLJ-CSS-25		1557																		X					
CLJ-CSS-25A		1603	81																	X					
CLJ-CSS-26		1610																		X					
CLJ-CSS-26A		1617	89																	X					

FORM XIV - IN

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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-27		1624																		X					
CLJ-CSS-27A		1631																		X					
CCV		1638																							
CCV		1650																		X					
CCB		1657																		X					
CLJ-CSS-28		1704																		X					
CLJ-CSS-28A		1710	69.8																	X					
CLJ-CSS-29		1717																		X					
CLJ-CSS-29A		1724	72																	X					
CLJ-CSS-30		1731																		X					
CLJ-CSS-30A		1737	75.3																	X					
CLJ-CSS-31		1744																		X					
CLJ-CSS-31A		1751																							
CLJ-CSS-31A		1758	92																	X					
CLJ-CSS-32		1805																		X					

FORM XIV - IN

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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-32A		1811	78																	X					
CCV		1818																		X					
CCB		1825																		X					
CLJ-CSS-33		1832																		X					
CLJ-CSS-33A		1838	77.5																	X					
TCLP BLK		1845																		X					
TCLP BLK A		1852																							
TCLP BLK A		1859	78																	X					
Z		1906																							
Z		1913																							
Z		1919																							
Z		1926																							
Z		1933																							
CCV		1940																		X					
CCB		1947																		X					

FORM XIV - IN

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: **Start Date:** 01/03/94 **End Date:** 01/03/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
STD 1 R1		0855															X								
STD 1 R2		0858															X								
STD 1 R3		0902															X								
STD 2 R1		0905															X								
STD 2 R2		0908															X								
STD 2 R3		0912															X								
STD 3 R1		0915															X								
STD 3 R2		0918															X								
SDD 3 R3		0922															X								
STD 4 R1		0925															X								
STD 4 R2		0929															X								
STD 4 R3		0932															X								
STD 5 R1		0935															X								
STD 5 R2		0939															X								
STD 5 R3		0942															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NeOSA

Case #: NA **SAS #:** 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																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
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								
LCSW		1009															X								
CLJ-CSS-23S		1012															X								
CLJ-CSS-23S		1016															X								
CLJ-CSS-23		1019															X								
CLJ-CSS-23D		1022															X								
CLJ-CSS-24		1025															X								
CLJ-CSS-25		1029															X								
CLJ-CSS-26		1032															X								

FORM XIV - IN

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: **Start Date:** 01/03/94 **End Date:** 01/03/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-27		1035																							
CCB		1039															X								
CCV		1042															X								
CLJ-CSS-28		1045															X								
CLJ-CSS-29		1049															X								
CLJ-CSS-30		1052															X								
CLJ-CSS-31		1055															X								
CLJ-CSS-32		1058															X								
CLJ-CSS-33		1102															X								
TCLP BLK		1105																							
TCLP BLK		1111																							
CCB		1116															X								
CCV		1120															X								
CLJ-CSS-27		1123															X								
TCLP BLK		1126															X								

FORM XIV - IN

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: **Start Date:** 01/03/94 **End Date:** 01/03/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCB		1130															X								
CCV		1133															X								
ZZZZZ		1142																							
ZZZZZ		1145																							
ZZZZZ		1149																							
ZZZZZ		1152																							
ZZZZZ		1155																							
ZZZZZ		1158																							
ZZZZZ		1202																							
ZZZZZ		1205																							
CCB		1208															X								
CCV		1212															X								
		1215															X								

FORM XIV - IN

A0621136

7N/CLPMET/TCLP

00075

0034

QC BATCH # N7M3869

Analyst: BJF Date: 3/1/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO_3 G41050

HCl NX0160312

H_2O_2 _____

H_2SO_4 _____

$KMNO_4$ _____

$K_2S_2O_8$ _____

NH_2OH HCL _____

NaCl _____

$SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ___

HGA _____ mL ___

Stock Hg _____

TCLP 0770 mL 5.0 mL

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK		3869 M	50	50			
MTH SPK		↓ MS					
1 JM3815	152260N	CLJ0523					
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							Review of Inventory 3-1-94
MTX SPK JM3815	152260N	CLJ0523	50	50			
MTX SPK DUP	↓	↓	↓	↓			

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____ Date

(C:\WP51\FORMS\QC-BATCH.645)

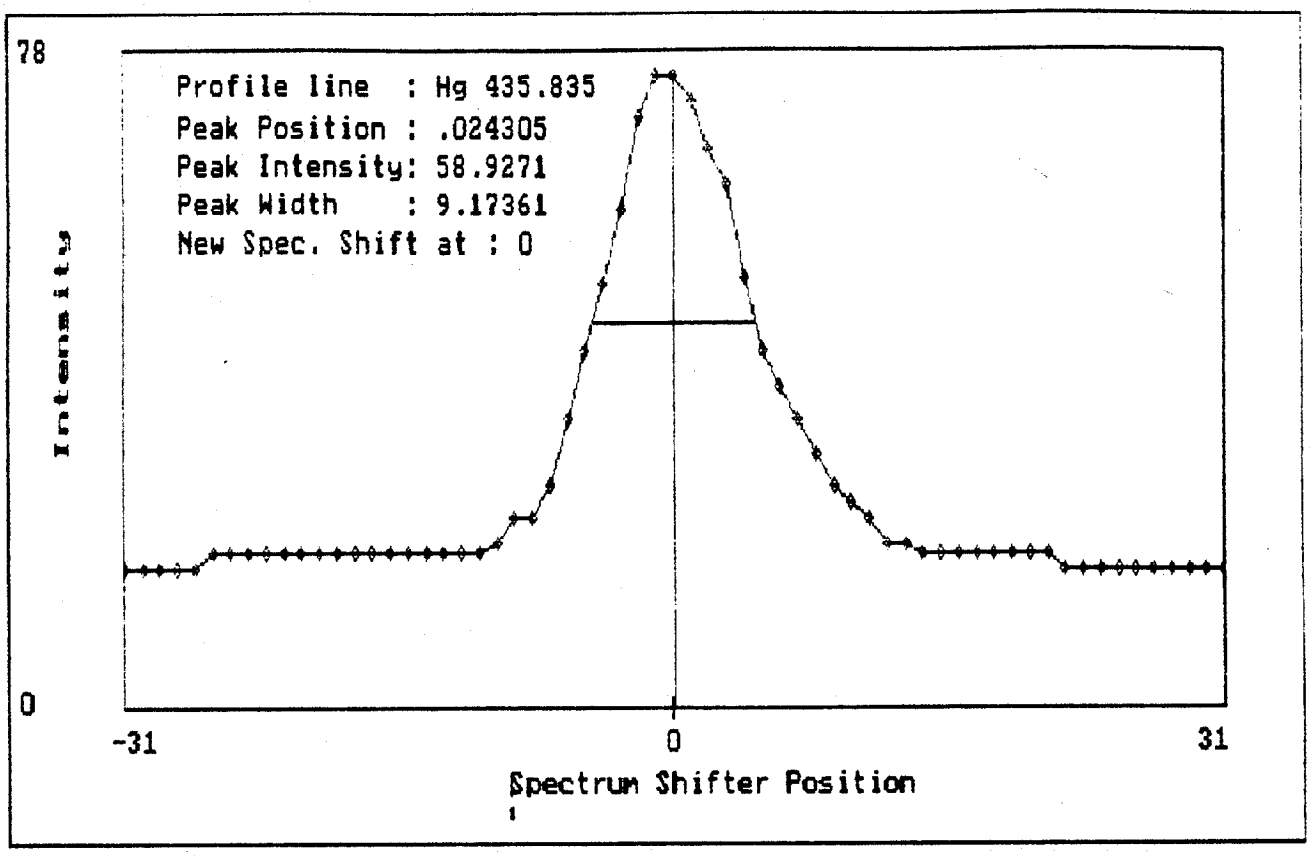
(Revised: 2/24/93)

Analysis Report Summary Sat 03-05-94 07:24:21 AM page 1

#	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 MTX SPK	A030494	ICAP3	03/04/94	10:08	SBB	S	CONC
16	SD,JM3815 MTX 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 MTX SPK	B030494	ICAP3	03/04/94	13:22	SBB	S	CONC
52	SD,JM3563 MTX 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

Analysis Report Summary Sat 03-05-94 07:24:21 AM page 2

#	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,Q2M3839 MET BLK	C030494	ICAP3	03/04/94	14:58	SBB	S	CONC
74	LCSS,Q2M3839 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 JB 3-5-94 XX,JM3201 P006-143-4
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	PBP,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


78
Profile line : Hg 435.835
Peak Position : .024305
Peak Intensity: 58.9271
Peak Width : 9.17361
New Spec. Shift at : 0
Intensity
0
-31
0
31
Spectrum Shifter Position

Method: ICAP3 Standard: STD1-Blank

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avge	-.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
Avge	.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	Mo2020	Sb2068	Mg2790	Ca3179
Avge	.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
Avge	.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	Se1960	Ag3280
Avge	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
Avge	.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%
Rerun

Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avge	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
Avge	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
Avge	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
Avge	.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
Avge	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
Avge	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)/IR

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
Se1960	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	Wavelen	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
Avge	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
Avge	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
Avge	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
Avge	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	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.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
Avge	-.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
Avge	-.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
Avge	.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
Rerun 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
Avge	.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
Avge	.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
Avge	-.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
Avge	.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	Se1960	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	Q.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	Q.1530	1.951	9.864	9.778
#2	-.0010	.0246	.0203	.1140	1.947	9.952	9.923
#3	-.0010	.0242	.0203	Q.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	Q.0139
SDev	.0000	.0007	.239	.0013	.0004
%RSD	.0000	1.335	2.469	1.232	2.952
#1	.0003	.0536	9.762	.1021	Q.0141
#2	.0003	.0525	9.435	.1025	Q.0134

#3	.0003	.0523	9.902	.1045	Q.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
Avge	-.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
Avge	.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
Avge	-.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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	Q.4045	.4488	1.086
#2	.9483	.4441	Q.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: SBB
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
Avge	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
Avge	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
Avge	.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
Avge	.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 MTX 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
Avge	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

Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.951	4.688	4.740	4.583	.0088	.7381	.9225
SDev	.029	.031	.055	.045	.0003	.0252	.0075
%RSD	.5805	.6657	1.151	.9771	3.771	3.417	.8148
#1	4.918	4.653	4.677	4.536	.0085	.7111	.9139
#2	4.964	4.700	4.767	4.587	.0091	.7421	.9256
#3	4.972	4.712	4.775	4.625	.0087	.7611	.9280

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0019	.9279	.9732	.8519	.0229	.4316	S3717.
SDev	.0007	.0080	.0049	.0128	.0184	.0051	.
%RSD	37.12	.8613	.5018	1.504	80.10	1.192	.0080
#1	.0011	.9188	.9696	.8429	.0065	.4258	S3717.
#2	.0023	.9317	.9711	.8666	.0195	.4335	S3717.
#3	.0023	.9334	.9787	.8462	.0428	.4355	S3717.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0100	.9472	.3734	.9368	.0891
SDev	.0005	.0087	.4527	.0091	.0026
%RSD	4.558	.9207	121.2	.9662	2.939
#1	.0105	.9380	.8945	.9267	.0864
#2	.0097	.9481	.0778	.9397	.0895
#3	.0097	.9554	.1478	.9441	.0916

Method: ICAP3 Sample Name: SD,JM3815 MTX REP Operator: SBB
Run Time: 03/04/94 10:12:12
Comment: JM3815MR,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	4.850	9.439	.9519	4.952	4.646	.9845	.0919
SDev	.032	.070	.0128	.029	.038	.0357	.0031
%RSD	.6566	.7369	1.347	.5779	.8127	3.626	3.399
#1	4.853	9.464	.9661	4.956	4.672	1.008	.0892
#2	4.880	9.493	.9412	4.979	4.662	1.002	.0953
#3	4.816	9.361	.9483	4.922	4.602	.9434	.0912

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.017	4.744	4.807	4.646	.0106	.7249	.9363
SDev	.037	.034	.032	.031	.0013	.0218	.0068
%RSD	.7403	.7189	.6560	.6647	12.04	3.007	.7231
#1	5.031	4.749	4.817	4.640	.0113	.7070	.9382
#2	5.045	4.775	4.833	4.679	.0113	.7492	.9419
#3	4.975	4.708	4.772	4.618	.0091	.7185	.9287

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

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	Mo2020	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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	-.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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: SBB
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
Avge	.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
Avge	.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 Operator: SBB
Run Time: 03/04/94 10:37:46
Comment: ID,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	.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

#2	.0097	-.0013	-.1789	-.0068	.1402
#3	.0105	.0020	-.0856	.0029	.1380

Method: ICAP3 Sample Name: XX,JM3820 CLJ-CSS-28 Operator: SBB
Run Time: 03/04/94 10:45:10
Comment: JM3820M,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	.0003	.4179	.0035	.0025	-.0051	-.0138	.0011
SDev	.0148	.0027	.0009	.0014	.0111	.0088	.0089
%RSD	4928.	.6330	26.23	54.50	215.3	63.64	805.5
#1	-.0156	.4158	.0036	.0017	-.0145	-.0081	-.0002
#2	.0136	.4171	.0045	.0041	.0071	-.0094	.0106
#3	.0029	.4209	.0026	.0017	-.0079	-.0239	-.0071

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0112	1.365	.0116	-.0053	.1171	.2599	.0002
SDev	.0043	.010	.0023	.0157	.0032	.0566	.0001
%RSD	37.75	.7516	19.93	297.1	2.773	21.79	84.29
#1	.0107	1.355	.0089	-.0106	.1188	.2837	.0003
#2	.0157	1.364	.0128	.0124	.1191	.3008	.0003
#3	.0073	1.376	.0131	-.0177	.1133	.1953	.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	.0023	.1981	-.0008	-.0026	.0713	.9581	S3717.
SDev	.0015	.0008	.0033	.0312	.0251	.0022	.
%RSD	63.63	.3946	420.5	1180.	35.25	.2335	.0061
#1	.0019	.1972	.0003	-.0190	.0809	.9558	S3716.
#2	.0039	.1985	.0019	.0333	.0902	.9603	S3717.
#3	.0011	.1986	-.0045	-.0223	.0428	.9582	S3716.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0194	.0026	.3189	-.0009	.1615
SDev	.0002	.0021	.4784	.0040	.0011
%RSD	1.178	81.80	150.0	445.0	.6723
#1	.0196	.0037	.3111	-.0005	.1603
#2	.0192	.0039	.8012	.0029	.1624
#3	.0192	.0001	-.1556	-.0052	.1617

Method: ICAP3 Sample Name: XX,JM3821 CLJ-CSS-29 Operator: SBB
Run Time: 03/04/94 10:49:07
Comment: JM3821M,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	.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: SBB
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
Avge	.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		
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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
Avge	.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: SBB
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

Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.407	6.183	5.219	5.021	.2452	.8233	1.018
SDev	.016	.014	.015	.005	.0037	.0085	.003
%RSD	.2945	.2194	.2901	.1038	1.496	1.030	.2606
#1	5.390	6.168	5.202	5.015	.2414	.8170	1.015
#2	5.411	6.194	5.232	5.025	.2456	.8200	1.019
#3	5.421	6.186	5.222	5.022	.2487	.8329	1.020

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0027	1.039	1.068	.9447	.0462	.7651	S3721.
SDev	.0000	.003	.003	.0107	.0039	.0009	.
%RSD	.0000	.2509	.2807	1.137	8.383	.1226	.0041
#1	.0027	1.036	1.066	.9376	.0474	.7645	S3721.
#2	.0027	1.041	1.071	.9571	.0419	.7661	S3721.
#3	.0027	1.041	1.066	.9396	.0493	.7645	S3721.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0161	1.038	-.0622	1.028	.2253
SDev	.0000	.003	.3531	.001	.0029
%RSD	.0000	.3036	567.5	.1234	1.297
#1	.0161	1.035	-.1789	1.027	.2221
#2	.0161	1.042	.3345	1.028	.2278
#3	.0161	1.038	-.3423	1.030	.2261

Method: ICAP3 Sample Name: TCLP BLK Operator: SBB
Run Time: 03/04/94 11:15:24
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	.0064	.0808	-.0003	.0037	.0026	-.0060	.0002
SDev	.0019	.0009	.0006	.0017	.0090	.0079	.0021
%RSD	29.45	1.066	233.3	44.98	349.9	132.3	922.9
#1	.0078	.0818	.0004	.0037	.0129	-.0137	.0025
#2	.0071	.0803	-.0005	.0020	-.0017	.0021	-.0016
#3	.0043	.0804	-.0007	.0054	-.0035	-.0064	-.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	.0022	.0559	.0058	-.0066	.0008	.0899	.0003
SDev	.0017	.0006	.0028	.0065	.0008	.0075	.0000
%RSD	75.03	1.056	47.73	97.58	103.9	8.348	.4313
#1	.0039	.0564	.0090	-.0006	.0014	.0985	.0003
#2	.0022	.0552	.0042	-.0135	.0010	.0868	.0003
#3	.0006	.0560	.0042	-.0058	-.0001	.0845	.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	-.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: SBB
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 Operator: SBB
Run Time: 03/04/94 11:21:44
Comment: ID,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	.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

#3	-.0005	-.0002	-.0021	-.0022	-.0112	-.0023	.0790

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0000	.0001	-.2178	.0007	.0054
SDev	.0005	.0006	.2684	.0008	.0007
%RSD	2351e6	388.5	123.3	115.2	12.55
#1	.0003	.0008	-.2256	.0016	.0058
#2	.0003	-.0003	.0544	.0002	.0047
#3	-.0005	-.0000	-.4823	.0002	.0058

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
Run Time: 03/04/94 11:26:49
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
Avge	.2062	.3974	.0100	.0205	.1428	.1992	.0245
SDev	.0050	.0022	.0004	.0023	.0144	.0152	.0047
%RSD	2.425	.5643	3.952	11.39	10.07	7.632	19.24
#1	.2005	.3954	.0100	.0213	.1591	.2148	.0218
#2	.2084	.3970	.0103	.0179	.1319	.1844	.0218
#3	.2098	.3998	.0095	.0223	.1375	.1985	Q.0300
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	.0398	.0833	.1915	.1997	.4221	.0099
SDev	.0013	.0005	.0037	.0079	.0006	.0091	.0000
%RSD	1.222	1.232	4.398	4.115	.2952	2.154	.0325
#1	.1069	.0394	.0833	.1989	.1992	.4293	.0099
#2	.1043	.0397	.0796	.1832	.1996	.4250	.0099
#3	.1052	.0403	.0869	.1923	.2004	.4118	.0099
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	.0252	.0210	.1259	1.995	10.03	10.01
SDev	.0008	.0001	.0006	.0090	.004	.04	.05
%RSD	150.0	.6091	2.945	7.146	.1885	.3828	.4712
#1	.0003	.0250	.0215	Q.1274	1.992	9.991	9.986
#2	-.0005	.0251	.0211	Q.1341	1.999	10.02	9.972
#3	-.0014	.0253	.0203	.1163	1.992	10.07	10.06
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.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: 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	.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	Q.8634	.4474	1.073
SDev	.0103	.0044	.4111	.0043	.012
%RSD	1.102	.9906	47.61	.9615	1.139
#1	.9305	.4354	Q.4045	.4437	1.066
#2	.9364	.4404	Q1.198	.4463	1.067
#3	.9506	.4441	Q.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/CLP 4[illegible] F/TCLP
7N/CLP PB/F/TCLP
7N/CLP 5[illegible] F/TCLP

0011

QC BATCH # N7M3870

0014

Analyst: BJE Date: 3/1/94 Method #: 3020 Notebook: _____

Reagent Codes:

HNO_3 G41550 H_2SO_4 _____ NH_2OH HCL _____
HCl _____ $KMNO_4$ _____ NaCl _____
H_2O_2 G17802 $K_2S_2O_8$ _____ $SnCl_2$ _____
DI _____

Spike Codes:

ICP _____ mL ____
HGA _____ mL ____
Stock Hg _____
TCLP 0770mL 50m

ASC #	Job #	Sample ID	Vi Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			0 [illegible]
MTH SPK							18.54
1 ———	TCLP	BLK					0
2 JM3815	15226N	WC5623					
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						Duplicate of Fluoride	
MTX SPK	15226N	CWC5623	50	50			3-1-94 2442
JM3815							
MTX SPK DUP	↓	↓	↓	↓			20.18

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____ Dat

(Revised: 2/24/

Element File: RAS.GEL
Element: As
Analyst: rls
Print Data: Main+Suppl.
Peak Storage: 1 Repl./Sample
Print: Calib. Curve+Elem. Params.

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 Volume	Modifier #1	Modifier #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	2100	0	3	0	*	Alt
6	2300	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 & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 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 Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As 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
-----------------------------------------------------------------------------
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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

Mean Conc  (ug/L  ):        5.05        SD: 1.482                RSD(%): 29.33
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
As    ID: Std #1 IN-0781     Seq. No.: 00003    A/S Pos.: 40    Date: 03/04/94

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

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
```

Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 4.42

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

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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

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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

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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

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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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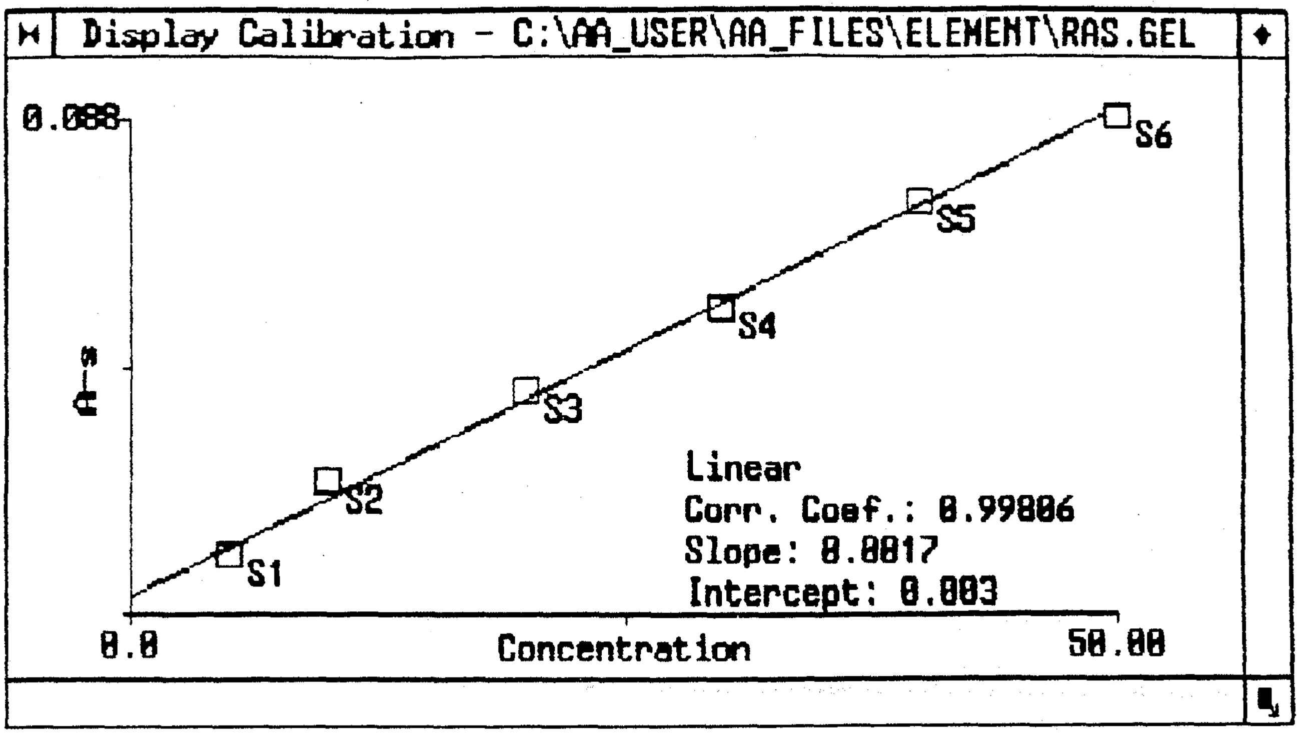
As ID: Std #6 Seq. No.: 00008 A/S Pos.: 40 Date: 03/04/94

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



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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

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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 Peak Height (A): 0.010
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -3.00

Mean Conc (ug/L): -2.52 SD: 0.670 RSD(%): 26.59

QC sample is within range

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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

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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% SB 3-4-94

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As ID: LCSL-N7R3870 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 Q SD: 2.386 RSD(%): 12.87

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As ID: LCSL-N7R3870 SB 3-4-94 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) ok POST SPIKE NOT REQUIRED by CLP SB 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
~~~~~~

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

SB 3.4.94 Automatic Rerun

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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 Q 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 Q 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

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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% SB 3-4-94

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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 ~~109.2%~~ 103.1% SB 3.4.94

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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

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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 - contamination SB 3-4-94

SB 3-4-94 Automatic Reason

Mean Conc (ug/L): 9.51 SD: 17.079 RSD(%): 179.68

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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

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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 ~~116.9%~~ 108.3% (outside of specified limits) SB 3-4-94

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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% SS 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)~~ 113.3% 58 3.4.94

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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 Q   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)~~ 109.7% 58 3.4.94

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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
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Replicate 1 Time: 13:28
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -2.38

uL dispensed: 5 from 0, 5 from 39, 20 from 11
Replicate 2 (Peak Stored) Time: 13:31
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -2.47

Mean Conc (ug/L): -2.43 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 Time: 13:35
Peak Area (A-s): 0.050 Peak Height (A): 0.173
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 26.22

uL dispensed: 5 from 39, 5 from 34, 20 from 11
Replicate 2 (Peak Stored) Time: 13:38
Peak Area (A-s): 0.051 Peak Height (A): 0.189
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 26.79

Mean Conc (ug/L): 26.50 SD: 0.407 RSD(%): 1.53

~~Recovery is 115.7% (outside of specified limits)~~ SB 3.4.94 106.0%

~~~~~~

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 Time: 13:42
Peak Area (A-s): 0.039 Peak Height (A): 0.126
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 20.09

uL dispensed: 5 from 0, 5 from 39, 20 from 38
Replicate 2 (Peak Stored) Time: 13:45
Peak Area (A-s): 0.042 Peak Height (A): 0.143
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 21.67

Mean Conc (ug/L): 20.88 SD: 1.121 RSD(%): 5.37

QC sample is within range 18.4 - 22.6

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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
~~~~~~

SB 3-4-94
~~Recovery is 114.1%~~ 104.1%

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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%~~ 101.7% SB 3-4-94

~~~~~~

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 Q 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 ~~109.9%~~ 99.8% SO 3-7-94

~~~~~~

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 Q 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)~~ SB 3-4-94 110.0%

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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)~~ SB 3.4.94 111.5%

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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

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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

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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)~~ SB 3-4-94 111.0%

~~~~~~

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 postspike Rerun

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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

SB 3- Autosampler failed

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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

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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

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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
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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

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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

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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

VOID

SB 3-4-94 Autosampler failed out of alignment

~~~~~~

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
~~~~~~

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 ID: 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 ID: 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 Q SD: 0.931 RSD(%): 39.92

~~~~~~

As ID: 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)~~ 3B 3-4-94 109.6%

~~~~~~

As ID: LCSL-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: LCSL-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

W

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 Peak Height (A): 0.141
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 17.08

Mean Conc (ug/L): 17.89 SD: 1.148 RSD(%): 6.42

Recovery is ~~74.7%~~ 71.6% (outside of specified limits)
SB 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 ~~87.8%~~ 79.5% SB 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
~~~~~~

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

SB 3-5-94 Autosampler failed before next CCV

~~~~~~

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
~~~~~~

Element File: PBDK.GEL
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 Volume	Modifier #1	Modifier #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 & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 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 Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As 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
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 Volume	Modifier #1	Modifier #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 & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 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 Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As 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: 03/03/94 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

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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

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
~~~~~~

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

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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

~~~~~~

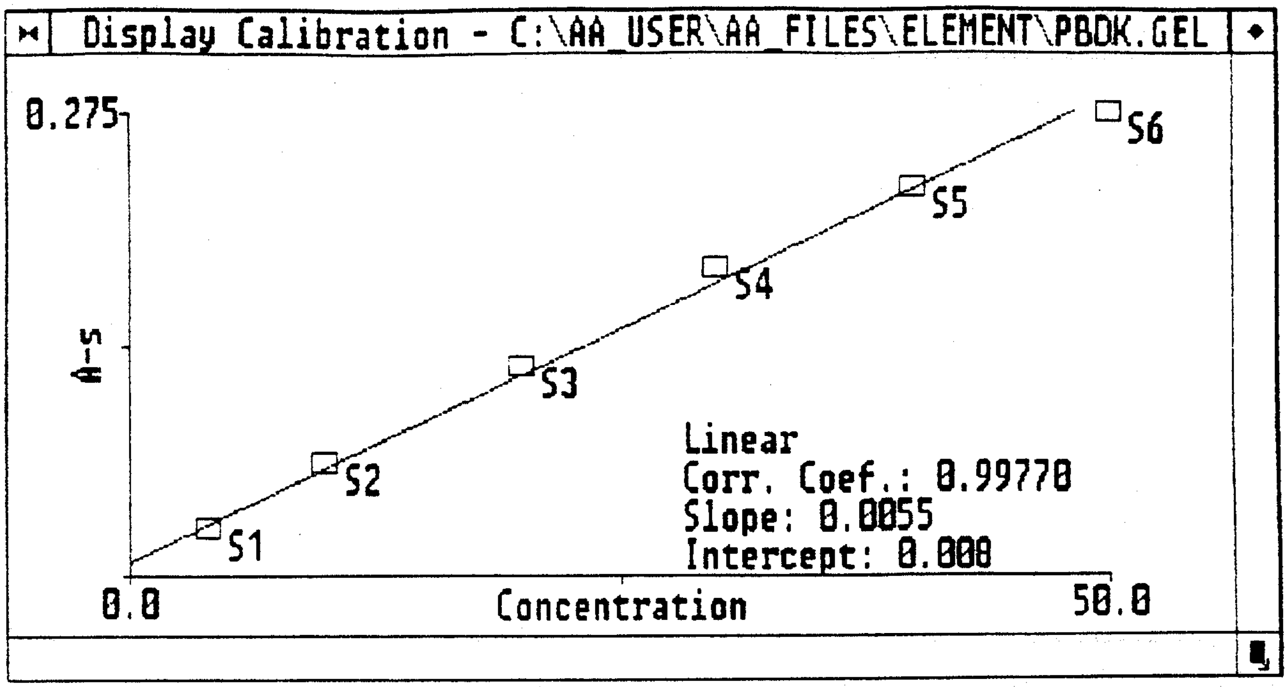
Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/03/94

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
~~~~~~



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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~~ 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 Peak Height (A): 0.204
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 19.7

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 Peak Height (A): 0.201
Background Pk Area (A-s): 0.503 Background Pk Height (A): 0.245
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 20.5

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 Q 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%

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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
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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  ):         8.2Q        SD: 0.03              RSD(%): 0.34

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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%

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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  ):         2.2Q        SD: 0.06              RSD(%): 2.81

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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%

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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%

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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
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Replicate 1 Time: 18:16
Peak Area (A-s): 0.138 Peak Height (A): 0.242
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.132
Concentration (ug/L): 22.4

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 18:19
Peak Area (A-s): 0.136 Peak Height (A): 0.240
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 22.0

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 Time: 18:22
Peak Area (A-s): 0.007 Peak Height (A): 0.010
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.006
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: 18:25
Peak Area (A-s): 0.006 Peak Height (A): 0.010
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.6

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 Time: 18:29
Peak Area (A-s): 0.045 Peak Height (A): 0.071
Background Pk Area (A-s): 0.427 Background Pk Height (A): 0.203
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 5.7

uL dispensed: 5 from 39, 10 from 0, 25 from 12
Replicate 2 (Peak Stored) Time: 18:32
Peak Area (A-s): 0.044 Peak Height (A): 0.069
Background Pk Area (A-s): 0.436 Background Pk Height (A): 0.194
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 5.4

Mean Conc (ug/L): 5.5 Q 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 Q 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

SB Rerun 2x on 3-4-94

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VOID

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
~~~~~~

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

SB Rerun on 3-4-94

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

VOID

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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
~~~~~~

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   Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): -0.4

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   Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 18.2

Mean Conc (ug/L): 18.2   SD: 0.04   RSD(%): 0.21

Recovery is 99.0%

~~~~~~

Pb   ID: LCSL-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: LCSL-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) dr 3.3.94

~~~~~~

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 Q SD: 2.61 RSD(%): 11.01

~~~~~~

Pb ID: 7SD-JM3563 MTXR 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 Q 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 Q 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   Background Pk Height (A): 0.248
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 21.9

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
~~~~~~

ID/Weight File: A030494.IDW
Sample Volume: 100 mL

Analyst: SBB
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
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 Volume	Modifier #1	Modifier #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 & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 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 Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As 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

~~~~~~

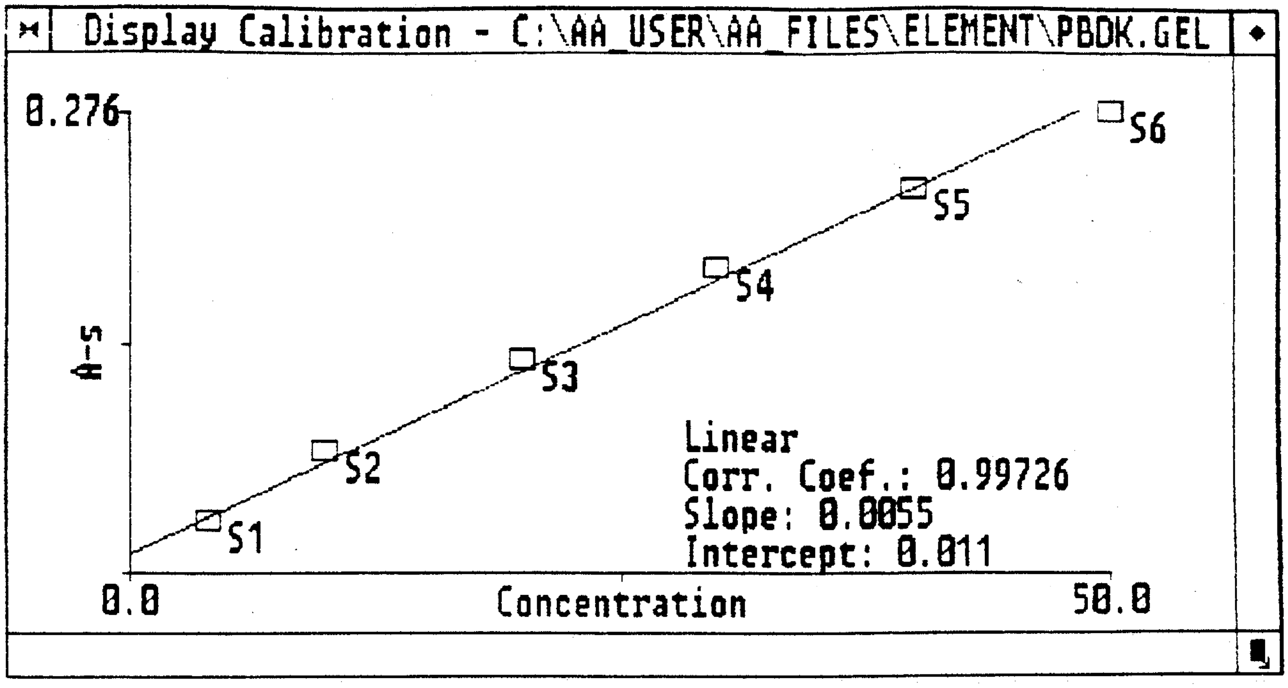
Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/04/94

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
~~~~~~



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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

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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 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

VOID

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 3-4-94
Rerun
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

SB 3-4-94 automatic rerun

Recovery is 87.7%

~~~~~~

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): 0.058 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 17.5

NO ID

SB 3-4-94 Autosampler failed

uL dispensed: 5 from 39, 10 from 0, 25 from 38

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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

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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

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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): 0.006
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

SB 3-4-94

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Element File: SERLS.GEL
Element: Se
Analyst: RLS
Print Data: Main+Suppl.
Peak Storage: All
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100
Technique: HGA
Version: 7.10
Wavelength: 196.0 Peak
Slit: 0.70 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 6.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	CAL BLANK	----------	0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples	----------	----------	--------	25	15	5	

Diluent Location: 0
Modifier #1 Location: 39
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	150	10	10	300		Norm
3	800	10	30	300		Norm
4	20	1	15	300		Norm
5	2300	0	5	0	*	Norm
6	2600	2	5	300		Norm

Injection Temp: 20
Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 10
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L
Measure Recovery on Samples: 1-2,5-19,22-30
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	27	ICV-0793	35.2	43.0	X			
2	0	ICB			X			
3	28	CCV-0793	21.1	25.8		X	X	
4	0	CCB				X	X	
5	26	CRA-0793	3.81	6.35	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations: 1,2
% Recovery for Spike: No Locations: 3,4 Conc: 20 ug/L

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 03/04/94 Time: 12:33 Slit: 0.70 L
Data File: B030494.DAT ID/Wt File: B030394.IDW
Technique: HGA Calib. Type: Linear Energy: 55

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 12:36
Peak Area (A-s): 0.007 Peak Height (A): 0.016
Background Pk Area (A-s): 0.145 Background Pk Height (A): 0.158
Blank Corrected Pk Area (A-s): 0.009

Replicate 2 (Peak Stored) Time: 12:39
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.001

Mean Pk Area (A-s): 0.005 RSD(%): 204.9

Auto-zero performed.

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 12:43
Peak Area (A-s): 0.017 Peak Height (A): 0.041
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.013

Replicate 2 (Peak Stored) Time: 12:46
Peak Area (A-s): 0.020 Peak Height (A): 0.038
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.105
Blank Corrected Pk Area (A-s): 0.017

Mean Pk Area (A-s): 0.015 RSD(%): 19.65

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0037 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 12:49
Peak Area (A-s): 0.034 Peak Height (A): 0.095
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.117
Blank Corrected Pk Area (A-s): 0.030

Replicate 2 (Peak Stored) Time: 12:53
Peak Area (A-s): 0.035 Peak Height (A): 0.076
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.032

Mean Pk Area (A-s): 0.031 RSD(%): 2.88

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99593 Slope: 0.0031 Int: 0.001

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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
~~~~~~

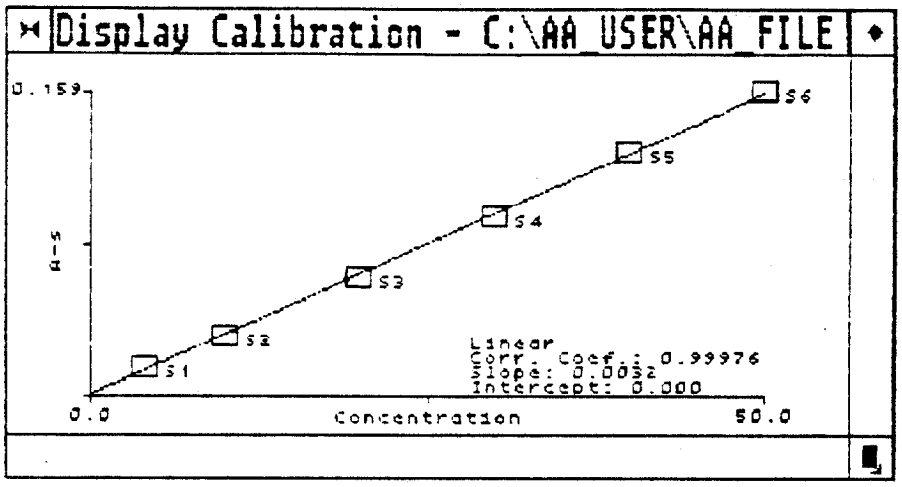
Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 03/04/94

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

SB 3-4-94

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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
~~~~~~

Concentration (ug/L): 12.9

Replicate 2 (Peak Stored) Time: 14:15
Peak Area (A-s): 0.040 Peak Height (A): 0.088
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 11.6

UOTQ

SB 3-4-94

Mean Conc (ug/L): 12.2 SD: 0.90 RSD(%): 7.39

Recovery is 119.0%

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Se ID: PBL-N7R3870 Seq. No.: 00013 A/S Pos.: 1 Date: 03/04/94

Replicate 1 (Peak Stored) Time: 14:19
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.2

Replicate 2 (Peak Stored) Time: 14:22
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.1

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) Time: 14:26
Peak Area (A-s): 0.036 Peak Height (A): 0.082
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 10.2

Replicate 2 (Peak Stored) Time: 14:30
Peak Area (A-s): 0.040 Peak Height (A): 0.081
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 11.5

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) Time: 14:33
Peak Area (A-s): 0.074 Peak Height (A): 0.152
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 22.2
~~~~~~

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 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%

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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 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 Q 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 Q 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): -0.6Q 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 ~~93.1%~~ 88.0% 4/3/94

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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 α SD: 0.23 RSD(%): 104.17

W

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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%~~ 93.6% 4/3/94

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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

W

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 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%

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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 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

W

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

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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%

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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
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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

SB 3-4-94
Rerun

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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

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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

~~~~~~

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): 1.3Q SD: 1.30 RSD(%): 98.22

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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)

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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 Q SD: 0.04 RSD(%): 34.10
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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 W
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): 1.9 Q SD: 0.84 RSD(%): 43.56

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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
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Recovery is 75.3% (outside of specified limits)

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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

SB 3-4-94

Mean Conc (ug/L): 0.2 Q SD: 0.60 RSD(%): 241.81

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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

SB 3-4-94 Automatic Rerun

Recovery is 80.5% (outside of specified limits)

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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
~~~~~~

Mean Conc (ug/L): 9.2 SD: 0.73 RSD(%): 7.92

Recovery is 89.4%

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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

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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%~~ 78.0% (outside of specified limits)
SB 3-4-94

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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

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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

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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

W

Mean Conc (ug/L): 1.9 Q SD: 1.47 RSD(%): 78.38

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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
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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)

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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

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

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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 rerun

Recovery is 71.6% (outside of specified limits)

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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
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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)

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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: LCSL-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
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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

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Se ID: LCSL-N7R3859 Seq. No.: 00057 A/S Pos.: 19 Date: 03/04/94

SB Rerun 3-5-94

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)

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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

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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
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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

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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
~~~~~~

QC BATCH # N7G3871

Analyst: BJF Date: 3/1/94 Method #: 7470 Notebook: _____

Reagent Codes:

HNO_3 _____ H_2SO_4 30350 NH_2OH HCL E38717

HCl _____ $KMNO_4$ G13718 NaCl F49704

H_2O_2 _____ $K_2S_2O_8$ D03710 $SnCl_2$ 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 JM3815	15226N	CLJCSS23					0
2						Replicate	0
3 3816		24					0
4 3817		25					0
5 3818		26					0
6 3819		27					~~1.13~~ 0
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							Renée J. Firestone
MTX SPK	15226N	CLJCSS23	50	50			3-1-94 ~~2-28~~ RJF 1.9
JM3815							
MTX SPK DUP							2

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					JM3819 + the TCLP Blank were
#2					SB 3-1-94 rerun ~~prepared~~ to confirm ~~glassware~~ SB 3-1-94
#3					contamination in 1st runs.
#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			

PgDn

Cup 16 extended ID: CLJ-CSS-33 Cell entry, Ins to switch

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

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: 2.000 Time: 09:52:57 01 Mar 1994

Folder: HG030194 Seq: 19 Print: On

User: Batch: Id: Std6Rep3 Cup: 2 11 Gas: 0.30 LPM

State: Idle Macro ASCCLP 109 : F3 Print Xmit: Off Autosampler: On

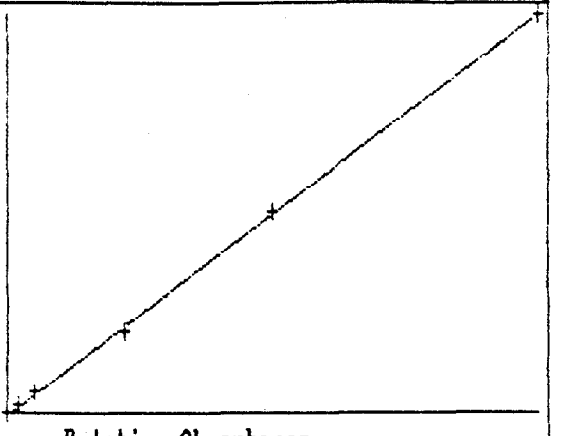
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear Quadratic WtdLinear Accept StdAdd	Conc
S1	.000	-.061	-.061		
S2	.200	.165	-.035		
S3	.500	.472	-.028		C
S4	2.00	2.18	.178		o
S5	5.00	4.97	-.034		n
S6	10.0	9.98	-.020		c

A .0000000 r .999747

B 5.09790e-5 C -6.20767e-2



	Mean	%RSD		Relative Absorbance	
S1	16	639.4	-56	139	-33
S2	4459	2.57	4440	4583	4356
S3	10482	1.39	10315	10576	10556
S4	43944	0.73	44066	44184	43582
S5	98628	0.79	99520	98059	98307
S6	196976	0.21	197013	197362	196554

New cal coefficients stored

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
MET BLK
Hg -.066 ppb .000 -.066

*** Sample ID: N7G3871GS Seq: 23 10:09:26 01 Mar 1994 HG
MET SPK
Hg 2.21 ppb .000 2.21

*** Sample ID: JM3815GS Seq: 24 10:12:44 01 Mar 1994 HG
MTX SPK
Hg 1.94 ppb .000 1.94

*** Sample ID: JM3815GR Seq: 25 10:16:02 01 Mar 1994 HG
MTX SPK REP
Hg 2.01 ppb .000 2.01

*** Sample ID: JM3815G Seq: 26 10:19:20 01 Mar 1994 HG
CLJ-CSS-23
Hg -.059 ppb .000 -.059

*** Sample ID: JM3815GG Seq: 27 10:22:38 01 Mar 1994 HG
DUPLICATE
Hg -.056 ppb .000 -.056

*** Sample ID: JM3816G Seq: 28 10:25:56 01 Mar 1994 HG
CLJ-CSS-24
Hg -.054 ppb .000 -.054

*** Sample ID: JM3817G Seq: 29 10:29:14 01 Mar 1994 HG
CLJ-CSS-25
Hg -.057 ppb .000 -.057

*** Sample ID: JM3818G Seq: 30 10:32:32 01 Mar 1994 HG
CLJ-CSS-26
Hg -.052 ppb .000 -.052

Line Conc. Units SD/RSD 1 2 3 4 5

SB 3-1-94 ~~Possibly~~ Contaminated glassware

*** Sample ID: JM3819G Seq: 31 10:35:50 01 Mar 1994 HG
CLJ-CSS-27
~~Hg 1.13 ppb .000 1.13~~ VOID ~~SB 3-1-94~~ Rerun ↓ SB 3-1-94

*** Check Standard: 1 Ck1 Seq: 32 10:39:09 01 Mar 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.071	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 33 10:42:29 01 Mar 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	5.22	5.00	ppb	.000

*** Sample ID: JM3820G Seq: 34 10:45:49 01 Mar 1994 HG
CLJ-CSS-28
Hg -.059 ppb .000 -.059

*** Sample ID: JM3821G Seq: 35 10:49:06 01 Mar 1994 HG
CLJ-CSS-29
Hg -.031 ppb .000 -.031

*** Sample ID: JM3822G Seq: 36 10:52:22 01 Mar 1994 HG
CLJ-CSS-30
Hg .106 ppb .000 .106

*** Sample ID: JM3823G Seq: 37 10:55:38 01 Mar 1994 HG
CLJ-CSS-31
Hg -.053 ppb .000 -.053

*** Sample ID: JM3824G Seq: 38 10:58:54 01 Mar 1994 HG
CLJ-CSS-32
Hg -.054 ppb .000 -.054

*** Sample ID: JM3825G Seq: 39 11:02:10 01 Mar 1994 HG
CLJ-CSS-33
Hg .047 ppb .000 .047

SB 3-1-94 ~~Contaminated~~ Contaminated in Sample

*** Sample ID: TCLP BLK Seq: 40 11:05:26 01 Mar 1994 HG
3-1-94
~~Hg 1.85 ppb .000 1.85~~ ~~SB 3-1-94 Reprep and~~ Rerun ↓ SB 3-1-94

*** Sample ID: TCLP BLK Seq: 41 11:11:24 01 Mar 1994 HG
3-1-94
~~Hg .291 ppb .000 .291~~ ~~SB 3-1-94 Reprep and~~ Rerun ↓ SB 3-1-94

*** Check Standard: 1 Ck1 Seq: 42 11:16:54 01 Mar 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.039	.200	ppb	.000

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2 Seq: 43 11:20:14 01 Mar 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		108.	5.41	5.00	ppb	.000

*** Sample ID: JM3819G Seq: 44 11:23:34 01 Mar 1994 HG
CLJ-CSS-27
Hg -.100 ppb .000 -.100

*** Sample ID: TCLP BLK Seq: 45 11:26:51 01 Mar 1994 HG
3-1-94
Hg -.061 ppb .000 -.061

*** Check Standard: 1 Ck1 Seq: 46 11:30:09 01 Mar 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.060	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 47 11:33:30 01 Mar 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.	5.37	5.00	ppb	.000

*** Sample ID: Q7G3866G Seq: 48 11:42:36 01 Mar 1994 HG
MET BLK
Hg -.067 ppb .000 -.067

*** Sample ID: Q7G3866GS Seq: 49 11:45:52 01 Mar 1994 HG
MET SPK
Hg 2.12 ppb .000 2.12

*** Sample ID: JM3855GS Seq: 50 11:49:09 01 Mar 1994 HG
MTX SPK
Hg 1.91 ppb .000 1.91

*** Sample ID: JM3855GR Seq: 51 11:52:26 01 Mar 1994 HG
MTX SPK REP
Hg 1.95 ppb .000 1.95

*** Sample ID: JM3855G Seq: 52 11:55:42 01 Mar 1994 HG
B-8
Hg -.041 ppb .000 -.041

*** Sample ID: JM3855GG Seq: 53 11:58:58 01 Mar 1994 HG
DUPLICATE
Hg -.046 ppb .000 -.046

*** Sample ID: JM3828G Seq: 54 12:02:12 01 Mar 1994 HG
LANDFILL
Hg .010 ppb .000 .010

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: TCLP BLK Seq: 55 12:05:26 01 Mar 1994 HG

3-1-94

Hg	-.016	ppb	.000	-.016

*** Check Standard: 1 Ck1 Seq: 56 12:08:43 01 Mar 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.063	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 57 12:12:03 01 Mar 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		108.	5.41	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 58 12:15:37 01 Mar 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		74.3	.149	.200	ppb	.000

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

DW No.:

EPA Sample No.	Lab Sample ID.
CLJ-CSS-23	JM3815
CLJ-CSS-24	JM3816
CLJ-CSS-25	JM3817
CLJ-CSS-26	JM3818
CLJ-CSS-27	JM3819
CLJ-CSS-28	JM3820
CLJ-CSS-29	JM3821
CLJ-CSS-30	JM3822
CLJ-CSS-31	JM3823
CLJ-CSS-32	JM3824
CLJ-CSS-33	JM3825

COMMENTS: See SDJ 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

CONVENTIONAL ANALYSIS DATA SHEET (1)

00208

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-23

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3815

% Solids: 94.2 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	6.16			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-24

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3816

% Solids: 93.2 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.17			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (I)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-25

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3817

% Solids: 83.8 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.14			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 00211

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) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3818

% Solids: 94.8 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	5.83			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-27

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM 3819

% Solids: 92.2 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	5.16			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-2

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3820

% Solids: 75.1 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.36			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-2

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-2

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3821

% Solids: 94.2 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.65			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

00214

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-3

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3822

% Solids: 91.6 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.44			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-3

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-2

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3823

% Solids: 80.6 **Date Received:** 2/24/9

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.33			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-32
Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-23
Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3824
% Solids: 90.7 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	4.93			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____
Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLT-CSS-33

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLT-CSS-23

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3825

% Solids: 89.4 **Date Received:** 2/24/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	5.03			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
		OC	CP	8:11	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 #N-CR 0049. PH buffer #7 - CV0050

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3815	15226N	CLJ.CSS.23	CP	8:15	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	Project #	Sample Point	Analyst	Time	Date
JM3816	15226N	CLJ.CSS.24	CP	8:17	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	Project #	Sample Point	Analyst	Time	Date
JM3817	15226N	CLJ.CSS.25	CP	8:19	3/7/94

pH 4.0 ☑ pH 7.0 ☑ pH 10.0 ☐ Sample pH 4.14

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

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3818	1522GN	CRI.CSS.26	CP	8:25	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3819	1522GN	CRI.CSS.27	CP	8:27	3/7/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.16

Slope: 95.4 mV Temperature: 21.1 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3820	1522GN	CRI.CSS.28	CP	8:30	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3821	1522GN	CRI.CSS.29	CP	8:31	3/7/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 4.65

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

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3822	15226N	CAJ-CSS-31	CP	8:34	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3823	15226N	CAJ-CSS-31	CP	8:37	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3824	15226N	CAJ-CSS-32	CP	8:39	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3825	15226N	CAJ-CSS-33	CP	8:41	3/7/94

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

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM4148	15713	APRSP#1	CP	8:44	3/7/94

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:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM4250	300136	327	CP	8:52	3/7/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 4.45

Slope: 95.4 mV Temperature: 22.2 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	8:53	3/7/94

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 [illegible], PH buffer #10 [illegible]

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	8:56	3/7/94

pH 4.0 [ ] pH 7.0 [✓] 7.02 pH 10.0 [✓] Sample pH 7.00

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)

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-23 **Method:** pH

Instrument ID Number: _____ **Start Date:** 3/7/94 **End Date:** 3/7/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
ICV		0811				X																					
CLJ-CSS-23		0815				X																					
CLJ-CSS-24		0817				X																					
CLJ-CSS-25		0819				X																					
CLJ-CSS-26		0825				X																					
CLJ-CSS-27		0827				X																					
CLJ-CSS-28		0830				X																					
CLJ-CSS-29		0831				X																					
CLJ-CSS-30		0834				X																					
CLJ-CSS-31		0837				X																					
CLJ-CSS-32		0839				X																					
CLJ-CSS-33		0841				X																					
XXXXX		0844				X																					
XXXXX		0852				X																					
CCV		0853				X																					

FORM XIV - IN

SECTION 1a V.1

CONFIRMATION SOIL SAMPLES

(CSS)

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NUMBER	LAB ID	LAB SAMPLE ID	DQO LEVEL	PACKAGE ID	AIRBILL NUMBER
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

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-01	CLJ-CSS-02	CLJ-CSS-03	CLJ-CSS-04	CLJ-CSS-05	CLJ-CSS-06	CLJ-CSS-07	CLJ-CSS-08
ASC Sample Number:		JM3172	JM3173	JM3174	JM3175	JM3176	JM3177	JM3178	JM3179
Sample Date:		940204	940204	940204	940204	940204	940204	940204	940204
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
Conventional Data (CV10)									
Flash Point, Seta Flash 60	Deg C	>60	>60	>60	>60	>60	>60	>60	>60
Reactive Cyanide	mg/kg	<10.0	<10.0	<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	<10.0	<10.0
pH (Test Strip)	std	6.35	5.53	5.33	5.41	5.80	6.18	5.80	5.42
Total Petroleum Hydrocarbons Analysis, GC, (GS17)									
Light hydrocarbons(C2 - C10)	mg/kg	<4.55	<4.38	<3.94	<4.73	<3.88	<3.94	<4.38	<4.15
Medium hydrocarbons(C10 - C21)	mg/kg	<3.30	<3.33	<3.32	<3.31	<3.32	<3.31	3.50	<3.31
Heavy hydrocarbons(C21 - C40)	mg/kg	24.9	<16.8	<16.7	<16.7	<16.7	<16.7	32.4	<16.7
RCRA TCLP Leachate Herbicide Analysis, GC, (GS52)									
2,4-D	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
2,4,5-TP (Silvex)	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)									
Endrin	mg/L	<.002	<.002	<.002	<.002	<.002	<.002	<.002	<.002
Heptachlor	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Heptachlor epoxide	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Methoxychlor	mg/L	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Toxaphene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Gamma-BHC	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
alpha-Chlordane	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
gamma-Chlordane	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
RCRA TCLP Leachate Metals Analysis, (ME52)									
Arsenic	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Barium	mg/L	.735	.533	.691	.495	.664	.485	.927	.571
Cadmium	mg/L	.001	<.001	<.001	<.001	<.001	<.001	.002	<.001
Chromium	mg/L	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
Lead	mg/L	.008	<.002	.002	<.002	.004	.008	.008	<.002
Mercury	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Selenium	mg/L	<.001	<.001	<.001	<.001	<.001	.002	<.001	.002
Silver	mg/L	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008

DATA SUMMARY REPORT

DATE: 11/02/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-01	CLJ-CSS-02	CLJ-CSS-03	CLJ-CSS-04	CLJ-CSS-05	CLJ-CSS-06	CLJ-CSS-07	CLJ-CSS-08
ASC Sample Number:		JM3172	JM3173	JM3174	JM3175	JM3176	JM3177	JM3178	JM3179
Sample Date:		940204	940204	940204	940204	940204	940204	940204	940204
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)									
2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobutadiene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
4-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Nitrobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Pentachlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Pyridine	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Lindane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methoxychlor	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)									
Benzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chloroform	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Methyl ethyl ketone	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
Tetrachloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125

DATA SUMMARY REPORT

DATE: 11/02/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-09	CLJ-CSS-10	CLJ-CSS-11	CLJ-CSS-12	CLJ-CSS-13	CLJ-CSS-14	CLJ-CSS-15	CLJ-CSS-16
ASC Sample Number:		JM3180	JM3181	JM3182	JM3183	JM3184	JM3185	JM3186	JM3187
Sample Date:		940204	940204	940204	940204	940204	940204	940204	940204
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
Conventional Data (CV10)									
Flash Point, Seta Flash 60	Deg C	>60	>60	>60	>60	>60	>60	>60	>60
Reactive Cyanide	mg/kg	<10.0	<10.0	<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	<10.0	<10.0
pH (Test Strip)	std	6.41	5.03	5.42	5.97	5.42	5.58	5.45	5.37
Total Petroleum Hydrocarbons Analysis, GC, (GS17)									
Light hydrocarbons(C2 - C10)	mg/kg	<3.94	<4.55	<4.73	<4.46	<4.73	<4.73	<4.22	<4.08
Medium hydrocarbons(C10 - C21)	mg/kg	<3.31	<3.32	<3.29	<3.32	<3.32	<3.31	<3.32	<3.33
Heavy hydrocarbons(C21 - C40)	mg/kg	21.4	<16.7	<16.5	<16.7	<16.7	<16.7	<16.7	<16.8
RCRA TCLP Leachate Herbicide Analysis, GC, (GS52)									
2,4-D	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
2,4,5-TP (Silvex)	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)									
Endrin	mg/L	<.002	<.002	<.002	<.002	<.002	<.002	<.002	<.002
Heptachlor	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Heptachlor epoxide	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Methoxychlor	mg/L	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Toxaphene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Gamma-BHC	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
alpha-Chlordane	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
gamma-Chlordane	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
RCRA TCLP Leachate Metals Analysis, (ME52)									
Arsenic	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Barium	mg/L	.444	.724	.604	.375	.321	.415	.461	.411
Cadmium	mg/L	<.001	.002	.002	.001	<.001	<.001	<.001	<.001
Chromium	mg/L	<.004	.007	<.004	<.004	<.004	<.004	<.004	<.004
Lead	mg/L	.184	<.002	.033	.002	.007	.003	.005	<.002
Mercury	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Selenium	mg/L	<.001	<.001	<.001	.002	<.001	<.001	<.001	<.001
Silver	mg/L	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008

DATA SUMMARY REPORT

DATE: 11/02/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-09	CLJ-CSS-10	CLJ-CSS-11	CLJ-CSS-12	CLJ-CSS-13	CLJ-CSS-14	CLJ-CSS-15	CLJ-CSS-16
ASC Sample Number:		JM3180	JM3181	JM3182	JM3183	JM3184	JM3185	JM3186	JM3187
Sample Date:		940204	940204	940204	940204	940204	940204	940204	940204
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)									
2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobutadiene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
4-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Nitrobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Pentachlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Pyridine	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Lindane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methoxychlor	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)									
Benzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chloroform	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Methyl ethyl ketone	mg/L	<.250	<.250	<.250	<.250	<.250	<.250	<.250	<.250
Tetrachloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125

DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-17	CLJ-CSS-18	CLJ-CSS-19	CLJ-CSS-20	CLJ-CSS-21	CLJ-CSS-22
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

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-CSS-17	CLJ-CSS-18	CLJ-CSS-19	CLJ-CSS-20	CLJ-CSS-21	CLJ-CSS-22
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						
RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)							
2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobutadiene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
2-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
4-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Nitrobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Pentachlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Pyridine	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Lindane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
Methoxychlor	mg/L	<.100	<.100	<.100	<.100	<.100	<.100
RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)							
Benzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Chlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Chloroform	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Methyl ethyl ketone	mg/L	<.250	<.250	<.250	<.250	<.250	<.250
Tetrachloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

DW No.: _____

EPA Sample No.	Lab Sample ID.
CLJ-CSS-01	JM 3172
CLJ-CSS-02	JM3173
CLJ-CSS-03	JM 3174
CLJ-CSS-04	JM 3175
CLJ-CSS-05	JM 3176
CLJ-CSS-06	JM 3177
CLJ-CSS-07	JM 3178
CLJ-CSS-08	JM 3179
CLJ-CSS-09	JM 3180
CLJ-CSS-10	JM 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 No

COMMENTS: 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 Hnatow **Name:** Joe Hnatow

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-11	JM 3182
CLJ-CSS-12	JM 3183
CLJ-CSS-13	JM 3184
CLJ-CSS-14	JM 3185
CLJ-CSS-15	JM 3186
CLJ-CSS-16	JM 3187
CLJ-CSS-17	JM 3188
CLJ-CSS-18	JM 3189
CLJ-CSS-19	JM 3190
CLJ-CSS-20	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

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: 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	JM3192
CLJ-CSS-22	JM3193
CLJ-DS-01	JM3169
CLJ-DS-01A	JM3170
CLJ-DS-01B	JM3171

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:** 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 #:** CLJ-CSS-01

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) Water **Level:** (low/med) Low **Lab Sample ID:** JM3172

% 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	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				~~P~~
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:** NGESA **EPA SAMPLE #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) Water **Level:** (low/med) Low **Lab Sample ID:** JM3174

% 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	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)

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)

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)

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 #:** CLJ-CSS-07

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-08

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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)

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	72.4			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:** JM3182

% 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)

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 #:** CLJ-CSS-13

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) Water **Level:** (low/med) Low **Lab Sample ID:** JM3184

% 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	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-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)

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:** JM3188

% 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	214			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-13

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)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-19

Lab Code: NA **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)

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)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-21

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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-22

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) Water **Level:** (low/med) Low **Lab Sample ID:** JM3193

% 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	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	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-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-01B

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLJ-CSS-0

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic				20.5	20.9	102.0	20.0	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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL 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:** 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLJ-CSS-01

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
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:** 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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-

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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-C

Initial Calibration Source: APG **Continuing Calibration Source:** APG

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Initial Calibration Source: APG **Continuing Calibration Source:** APG

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	5.0	4.6	92.4	5.0	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 #:** CLJ-CSS-0

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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-

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 #:** CLJ-CSS-01

Initial Calibration Source: NIST **Continuing Calibration Source:** NIST

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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 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	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
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)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** NIST

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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-0

AA CRDL Standard Source: Inorganic Ventures **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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-0

AA CRDL Standard Source: Ventures **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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 #:** CWJ-CSS-01

AA CRDL Standard Source: Ventures **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

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				
				Initial			Final	
	True	Found	%R(1)	True	Found	%R(1)	Found	%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)

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				
				Initial			Final	
	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	5.1	4.7	92.2					
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-01

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	5.1	3.8	74.5					
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 #:** CLJ-CSS-0

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	5	6.9	135					
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-0

AA CRDL Standard Source: NIST **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	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-0

AA CRDL Standard Source: Ventures **ICP CRDL Standard Source:** _____

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	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	.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				
				Initial			Final	
	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	.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:** 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				
				Initial			Final	
	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	.200	.190	95.2					
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)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	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			-Ø	U	P
Cobalt											
Copper											
Iron											
Lead	-2.1	U	-3.3	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 #:** 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) 1	C	2	C	3	C	Preparation Blank	C	M
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-155-0

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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic			-0.9	U	-0.9	U	-1.3	U	-1.2	U	F
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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	C	M
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 #:** ELJ-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) 1	C	2	C	3	C	Preparation Blank	C	M
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:** 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) 1	C	2	C	3	C	Preparation Blank	C	M
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)

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) 1	C	2	C	3	C	Preparation Blank	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 #:** 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) 1	C	2	C	3	C	Preparation Blank	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)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
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 #:** 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) 1	C	2	C	3	C	Preparation Blank	C	M
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:** 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) 1	C	2	C	3	C	Preparation Blank	C	M
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)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
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)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
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)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Boron											
Cadmium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Manganese											
Mercury	-.023	U	.010	U	-.087	U	.032	U	.002	U	CV
Molybdenum											
Nickel											
Selenium											
Silver											
Strontium											
Thallium											
Vanadium											
Zinc											

ICP INTERFERENCE CHECK SAMPLE (4)

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)

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 LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
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	75-125 ~~2-21~~	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)

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:** _____

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	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)

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)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
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)

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	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)

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 **% 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	27.8		8.3		20.0	97.5		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-0

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)	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									
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-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)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
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-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)	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	21.1		2.3	B	20.0	94.0		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-

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)	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									
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-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)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
Aluminum									
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 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									
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-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)	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)	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	1.86		.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 #:** 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)	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 #:** CLJ-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	B	1050	95.0		P
Chromium		5070		2.5	U	5430	93.4		P
Cobalt									
Copper									
Iron									
Lead		5340 42		499		5210	92.9		P
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver		97.2		-1.9	U	93.5	104		P
Srontium									
Thallium									
Vanadium									
Zinc									

COMMENTS:

POST DIGEST SPIKE SAMPLE RECOVERY (5B)

Lab Name: *Analytical Services Corp* **Contract:** NFESA **EPA Sample #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-1

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		10.000		604		10400	90.3		P
Beryllium									
Boron									
Cadmium		969		1.6	B	1050	92.1		P
Chromium		4900		2.0	U	5430	90.2		P
Cobalt									
Copper									
Iron									
Lead		4770		42.4		5210	90.7		P
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver		93.9		5.9	U	93.5	100		P
Srontium									
Thallium									
Vanadium									
Zinc									

COMMENTS:

POST DIGEST SPIKE SAMPLE RECOVERY (5B)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-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		9990		934		10400	91.9		P
Beryllium									
Boron									
Cadmium		915		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 #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-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)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium		92.7		93.1		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)

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 **% 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)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium		375		374		0.3		P
Beryllium								
Boron								
Cadmium		1.4	B	-Ø				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		~~3.7~~ 0.9	U	~~3.5~~ -0.9	U			P
Strontium								
Thallium								
Vanadium								
Zinc								