

02.08-03/01/97-02290

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

Volume IV 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

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OHM Project No. 15226

DUPLICATES (6)

02.08-03/04/97-02290 0111

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-LSS-2
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-LSS-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		539		526		2.4		P
Beryllium								
Boron								
Cadmium		0.8	U	0.6	U			P
Chromium		-1.7	U	-1.5	U			P
Cobalt								
Copper								
Iron								
Lead		-2.3	U	-15.7	U			P
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver		3.7	U	3.5	U			P
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

0112

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 % 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		-1.04	U	-0.29	U			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

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 % Solids for Sample: NA
 Level (low/med): Low % Solids for Duplicate: NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	RPD	Q	M
				C			
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Chromium							
Cobalt							
Copper							
Iron							
Lead	3.0	8.3		9.5	13.5		F
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver							
Strontium							
Thallium							
Vanadium							
Zinc							

DUPLICATES (6)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-C
 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)		DUPLICATE (D)		RPD	Q	M
			C		C			
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium		0.6	U	-0.9	U			F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS

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

Matrix: (soil/water) Water % Solids for Sample: NA

Level (low/med): Low % Solids for Duplicate: NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
Aluminum								
Antimony								
Arsenic		-1.30	U	-1.18	U			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

0116

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 % Solids for Sample: NA
 Level (low/med): LOW % Solids for Duplicate: NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	RPD	Q	M
				C			
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Chromium							
Cobalt							
Copper							
Iron							
Lead	3.0	2.3		3.0	26.4		F
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver							
Strontium							
Thallium							
Vanadium							
Zinc							

DUPLICATES (6)

0117

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-C
 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)		DUPLICATE (D)		RPD	Q	M
			C		C			
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	5.0	2.2	B	2.1	B	4.7		F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

0118

Lab Name: Analytical Services Corp **Contract:** NEESA **EPA Sample #:** CLJ-CSS2
Lab Code: NA **Case #:** NA **SAS #:** _____ **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): _____

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic		-1.17	U	-1.76	B			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSSLab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSSMatrix: (soil/water) Water % Solids for Sample: NALevel (low/med): LOW % Solids for Duplicate: NAConcentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead		0.6	u	0.7	u			F
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: Analytical Services Corp Contract: NECSA EPA Sample #: CLJ-CSS-5Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-CMatrix: (soil/water) Water % Solids for Sample: NALevel (low/med): Low % Solids for Duplicate: NAConcentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
					C			
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	1.3	1.4	B	0.8		54.5		F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

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 % Solids for Sample: NALevel (low/med): Low % Solids for Duplicate: NAConcentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
Aluminium								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	.140	.073	U	.162	B	75.7		CV
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

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 % Solids for Sample: NA
 Level (low/med): Low % Solids for Duplicate: NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	RPD	Q	M
Aluminium							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Chromium							
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury	0.200	0.404		0.018	U 182.9	N	CV
Molybdenum							
Nickel							
Selenium							
Silver							
Strontium							
Thallium							
Vanadium							
Zinc							

DUPLICATES (6)

0123

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 % 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								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury		0.029	U	0.123	U			CV
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0124

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Liquid LCS Source: _____

Aqueous LCS Source: VENTURES

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium	10400	9700	93.3					
Beryllium								
Boron								
Cadmium	1050	968	92.3					
Chromium	5430	4910	90.4					
Cobalt								
Copper								
Iron								
Lead		4800						
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	93.5	92.5	98.9					
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0125

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

Liquid LCS Source: _____

Aqueous LCS Source: VENTURES

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium	17400	9800	94.2					
Beryllium								
Boron								
Cadmium	1050	975	92.9					
Chromium	5430	4970	91.5					
Cobalt								
Copper								
Iron								
Lead		4780						
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	93.5	92.7	99.1					
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0126

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA

SDG #: CLJ-855-01

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium	10400	9450	90.9					
Beryllium								
Boron								
Cadmium	1050	934	89.0					
Chromium	5430	4730	87.1					
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	93.5	93.0	99.5					
Strontium								
Thallium								
Vanadium								
Zinc								

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115

LABORATORY CONTROL SAMPLE (7)

0127

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	19.5	97.5					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0128

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CL3-CSS-01

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	20.0	19.8	99.0					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0129

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	20.0	20.5	102.5					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) 0130

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-1

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	21.9	109.5					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) 0131

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-C

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	20.0	18.5	92.5					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp*Contract: NEESALab Code: NACase #: NASAS #: NASDG #: CLJ-CSS-C

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	20.0	19.8	99.0					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) - 0133

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	19.5	97.5					
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

0134

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	20.0	20.7	103.5					
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	20.0	19.6	98.0					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) 0136

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-0

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	2.00	1.79	89.5					
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) - 0137

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	2.00	1.93	96.5					
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7) 0138

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-C

Liquid LCS Source: _____

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	2.00	2.01	100.5					
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

ICP SERIAL DILUTIONS (9)

0139

Lab Name: Analytical Services Corp Lab Code: NA EPA SAMPLE #: CLS-DS-01
 Contract: NEESA Case #: NA SAS #: NA SDG #: CLS-CSS-01
 Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

ANALYTE	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum							
Antimony							
Arsenic							
Barium	941		955		1.5		P
Beryllium							
Boron							
Cadmium	1.9	B	0.5	U			P
Chromium	2.5	U	4.5	U			P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	-1.9	U	-2.6	U			P
Strontium							
Thallium							
Vanadium							
Zinc							

Handwritten: N/A 3/93
205

ICP SERIAL DILUTIONS (9)

0140

Lab Name: *Analytical Services Corp*

Lab Code: NA

EPA SAMPLE #: CLJ-CSS-11

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

ANALYTE	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum							
Antimony							
Arsenic							
Barium	604		615		1.5		P
Beryllium							
Boron							
Cadmium	1.6	B	3.0				P
Chromium	2.0	U	-5.0				P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	5.9	U	3.5	U			P
Strontium							
Thallium							
Vanadium							
Zinc							

ICP SERIAL DILUTIONS (9)

0141

Lab Name: *Analytical Services Corp*

Lab Code: NA

EPA SAMPLE #: CLJ-CSS-17

Contract: NEESA Case #: IVA

SAS #: NA

SDG #: CLS-CSS-01

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

ANALYTE	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum							
Antimony							
Arsenic							
Barium	434		429		1.2		P
Beryllium							
Boron							
Cadmium	0.7	U	3.5	B			P
Chromium	0.3	U	-3.5	U			P
Cobalt							
Copper							
Iron							
Lead	215		192		11.3		P
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	1.9	U	-28				P
Strontium							
Thallium							
Vanadium							
Zinc							

0142

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp*

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-d ICP ID #: 61

Date: 2-15-94

Flame AA ID #: _____

Furnace AA ID #: _____

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200	41.2	P
Antimony			60		
Arsenic			10	24.7	P
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	5.8	P
Lead	220.35		5	18.4	P
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5	26.1	P
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 #: CLJ-255-01 ICP ID #: 01

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: _____

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: Analytical Services Corp Lab Code: NA Contract: NCESA

Case #: NA SAS #: NA SDG #: CLJCS-01 ICP ID #: _____

Date: 2/12/94 Flame AA ID #: _____ Furnace AA ID #: 5141

58
2-26-94

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic	193.7	132	10	1.4	F
Barium			200		
Beryllium			5		
Boron					
Cadmium			5		
Chromium			10		
Cobalt			50		
Copper			100		
Iron			100		
Lead			5		
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5		
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: _____

ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12A)

Lab Name: Analytical Services CorpLab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLS-CSS-01 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		.00007		.000046		-.00021
Chromium	267.72					.00008
Cobalt						
Copper						
Iron						
Lead	220.35	.001195		.000104		
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07					-.00242
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: _____

ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12B)

Lab Name: Analytical Services CorpLab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLS-655-01 ICP ID #: 61

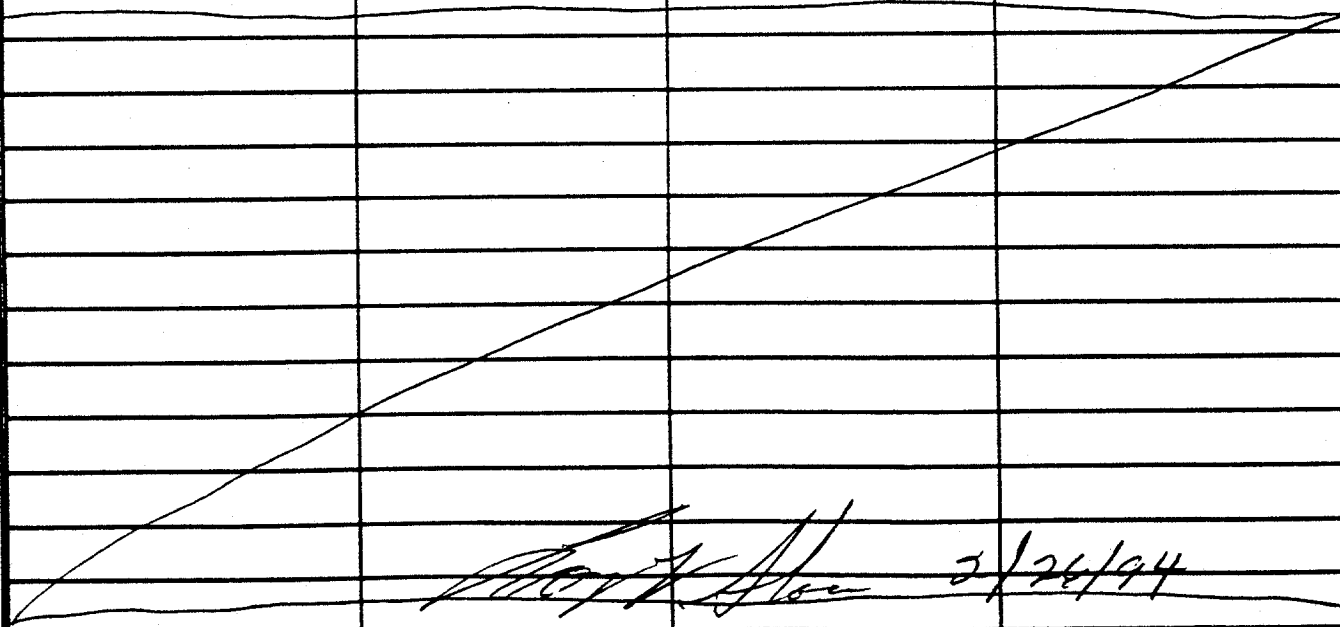
Date: _____

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Mo	MN	Cr	Co	Ni
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium						
Chromium	267.72	-0.00048	.00022			
Cobalt						
Copper						
Iron						
Lead	220.35			-0.00078	-0.0191	.000752
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07	-0.00084	.00011			
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: _____

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp*Lab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLJ-CSS-01 Method: P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 ml
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07A			
CLJ-CSS-07B			
CLJ-CSS-07C	↓		↓
TCLP Blank			
			
			<i>[Signature]</i> 2/26/94

PREPARATION LOG (13)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01 Method: P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 ml
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			
			<u>2/26/94</u>

PREPARATION LOG (13)

Lab Name: Analytical Services Corp

Lab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLJ-ESS-01 Method: P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PRW	02-14-94		50 ml
LCW	02-14-94		
CLJ-ESS-13			
CLJ-ESS-14			
CLJ-ESS-15			
CLJ-ESS-16			
CLJ-ESS-17			
CLJ-ESS-18			
CLJ-ESS-19			
CLJ-ESS-20			
CLJ-ESS-21			
CLJ-ESS-22			
CLJ-ESS-22B			
CLJ-ESS-22S			
CLJ-ESS-22D			
TCLP Blank			
			2/26/94

PREPARATION LOG (13)

Lab Name: Analytical Services CorpLab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLS-CSS-01 Method: F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07S			
CLJ-CSS-07S			
CLJ-CSS-07D			
TCLP Blank			
			Susan Bentley 2-26-94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp*

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01 Method: F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			
		<i>Susan Bender</i> 2-26-94	

PREPARATION LOG (13)

0152

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01 Method: F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-14-94		50 mL
LCSW			
CLJ-CSS-13			
CLJ-CSS-14			
CLJ-CSS-15			
CLJ-CSS-16			
CLJ-CSS-17			
CLJ-CSS-18			
CLJ-CSS-19			
CLJ-CSS-20			
CLJ-CSS-21			
CLJ-CSS-22			
CLJ-CSS-22S			
CLJ-CSS-22S			
CLJ-CSS-22D			
TCLP Blank	↓		↓
			<i>Susan Buntjer</i> 2-26-94

PREPARATION LOG (13)

0153

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01 Method: CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-10-94		50mL
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07S			
CLJ-CSS-07S			
CLJ-CSS-07D			
TCLP Blank	↓		↓
		<i>Susan Bentley</i> 2-26-94	

0154

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp*Lab Code: NAContract: NEESACase #: NASAS #: NASDG #: CLJ-CSS-01Method: CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			
<hr/>			
		Susan Bentley 2-26-94	

PREPARATION LOG (13)

0155

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01 Method: CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-14-94		50 mL
LCSW			
CLS-CSS-13			
CLS-CSS-14			
CLS-CSS-15			
CLS-CSS-16			
CLS-CSS-17			
CLS-CSS-18			
CLS-CSS-19			
CLS-CSS-20			
CLS-CSS-21			
CLS-CSS-22			
CLS-CSS-22S			
CLS-CSS-22S			
CLS-CSS-22D			
TCLP Blank	↓		↓
		<i>Susan Bentley</i> 2-26-94	

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-255-01

Method: P 6010 2.5

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S E	A G	S R	T L	V	Z N
STD1-Blank		1328					X			X	X				X						X				
STD3		1332					X			X	X				X						X				
STD2		1336					X			X	X				X						X				
STD4		1339					X			X	X				X						X				
1CV		1345					X			X	X				X						X				
1CB		1349					X			X	X				X						X				
1RE		1353					X			X	X				X						X				
1CSA		1356					X			X	X				X						X				
1CSAB		1400					X			X	X				X						X				
STD3		1404					X			X	X				X						X				
PBW		1414					X			X	X				X						X				
2CSW		1418					X			X	X				X						X				
CLJ-255-075		1421					X			X	X				X						X				
CLJ-255-078		1425																							
CLJ-255-07		1428					X			X	X				X						X				

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA SAS #: NA

SDG #: CLJ-CSS-01

Method: P

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-07D		1432					X				X	X									X				
CLJ-DS-01		1435					X				X	X									X				
CLJ-DS-01A		1439					X				X	X									X				
CLJ-DS-01B		1442					X				X	X									X				
CCU		1446					X				X	X			X						X				
CCB		1449					X				X	X			X						X				
CLJ-CSS-01		1452					X				X	X									X				
CLJ-CSS-02		1456					X				X	X									X				
CLJ-CSS-03		1459					X				X	X									X				
CLJ-CSS-04		1503					X				X	X									X				
CLJ-CSS-05		1506					X				X	X									X				
CLJ-CSS-06		1510					X				X	X									X				
ZZZZZZ		1514																							
CLJ-DS-01L	5	1517					X				X	X									X				
CLJ-DS-01A		1521					X				X	X									X				

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: P

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																																
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N											
CCU		1524					X				X	X													X											
CCB		1527					X				X	X													X											
ZZZZZ		1530					X																													
ZZZZZ		1534					X																													
ZZZZZ		1537					X																													
PBW		1543					X				X	X													X											
LLSW		1547					X				X	X													X											
CLJ-CSS-12 8		1551					X				X	X													X											
ZZZZZ		1554																																		
CLJ-CSS-12		1558					X				X	X													X											
CLJ-CSS-120		1601					X				X	X													X											
CLJ-CSS-08		1605					X				X	X													X											
CLJ-CSS-09		1608					X				X	X													X											
CLJ-CSS-10		1612					X				X	X													X											
CLJ-CSS-11		1616					X				X	X													X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: P

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																												
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N							
CCV		1619					X				X	X														X						
CCB		1622					X				X	X														X						
CLJ-CSS-11D		1625					X				X	X														X						
CLJ-CSS-11A		1629					X				X	X														X						
CCV		1632					X				X	X														X						
CCB		1635					X				X	X														X						
222222		1639																														
222222		1643																														
222222		1646																														
PBW		1704					X				X	X														X						
LCBW		1708					X				X	X														X						
CLJ-CSS-22S		1712					X				X	X														X						
CLJ-CSS-22S		1715																														
CLJ-CSS-22		1719					X				X	X														X						
CLJ-CSS-22D		1723					X				X	X														X						

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: P

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-13		1726					X				X	X									X				
CLJ-CSS-14		1730					X				X	X									X				
CLJ-CSS-15		1733					X				X	X									X				
CLJ-CSS-16		1737					X				X	X									X				
CCV		1740					X				X	X									X				
CCB		1743					X				X	X									X				
CLJ-CSS-17		1747					X				X	X									X				
CLJ-CSS-18		1751					X				X	X									X				
CLJ-CSS-19		1755					X				X	X									X				
CLJ-CSS-20		1758					X				X	X									X				
CLJ-CSS-21		1802					X				X	X									X				
222222		1806																							
CLJ-CSS-17H		1809					X				X	X									X				
CLJ-CSS-17A		1813					X				X	X									X				
CCV		1816					X				X	X									X				

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

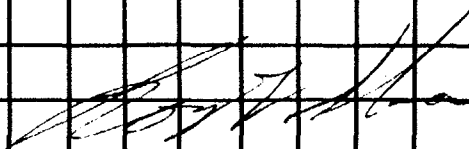
SDG #: CLS-SS-01

Method: P

Instrument ID Number: 61

Start Date: 2/18/94

End Date: 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																															
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N										
CEB		1819					X				X	X					X								X										
CRI		1822					X				X	X					X									X									
1CSA		1826					X				X	X					X									X									
1CSAB		1829					X				X	X					X									X									
 2/26/94																																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEE.SA

Case #: NA

SAB #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
S0		8:33				X																			
S1		8:39				X																			
S2		8:46				X																			
S3		8:53				X																			
S4		9:00				X																			
S5		9:07				X																			
S6		9:14				X																			
ICV		9:33				X																			
ICB		9:40				X																			
CRA		9:47				X																			
PBW		9:54				X																			
PBW		10:01	104.5			X																			
LCSW		10:08				X																			
LCSW		10:15	99.9			X																			
CLS-CSS-075		10:22				X																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
222222		10:24				X	NO SB 2-26 94																		
CLS-CSS-07		10:36				X																			
CLS-CSS-07A		10:43	109.3			X																			
CLS-CSS-07D		10:50				X																			
CLS-CSS-07DA		10:57	102.8			X																			
CCV		11:04				X																			
CCB		11:11				X																			
CLS-DS-01		11:18				X																			
CLS-DS-01A		11:25	101.5			X																			
CLS-DS-01A		11:32				X																			
CLS-DS-01AA		11:39	107.2			X																			
CLS-DS-01B		11:46				X																			
CLS-DS-01BA		11:53	106.8			X																			
CLS-CSS-01		11:59				X																			
CLS-CSS-01A		12:06	104.5			X																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-02		12:13				X																			
CLJ-CSS-02A		12:20	102.8			X																			
CCV		12:27																							
CCB		12:34																							
CLJ-CSS-03		12:41																							
CLJ-CSS-03A		12:47	107.3																						
CCV		12:58				X																			
CCB		13:05				X																			
CLJ-CSS-03		13:12				X																			
CLJ-CSS-03A		13:19	109.0			X																			
CLJ-CSS-04		13:25				X																			
CLJ-CSS-04A		13:32	107.4			X																			
CLJ-CSS-05		13:39				X																			
CLJ-CSS-05A		13:46	111.6			X																			
CLJ-CSS-06		13:53				X																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V
CLS-CSS-06A		14:00	109.2			X																		
ZZZZZZ		14:07																						
ZZZZZZ		14:13	122.6																					
CCV		14:20				X																		
CCB		14:27				X																		
PBW		14:34				X																		
PBW		14:41	105.3			X																		
LCSW		14:48				X																		
LCSW		14:54	110.8			X																		
CLS-CSS-12S		15:01				X																		
ZZZZZZ		15:08																						
CLS-CSS-12		15:15				X																		
CLS-CSS-12A		15:22	97.2			X																		
CLS-CSS-12D		15:30				X																		
CLS-CSS-12DA		15:37	102.0			X																		

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CCV		15:44				X																			
CCB		15:50				X																			
CLS-CSS-08		15:57	⁵⁸²⁻²⁶⁷⁴ 105.2			X																			
CLS-CSS-08A		16:04	105.2			X																			
CLS-CSS-09		16:11				X																			
CLS-CSS-09A		16:18	100.3			X																			
CLS-CSS-10		16:25				X																			
CLS-CSS-10A		16:32	105.4			X																			
CLS-CSS-11		16:39				X																			
CLS-CSS-11A		16:46	100.9			X																			
CCV		16:53				X																			
CCB		17:00				X																			
ZZZZZ		17:07																							
PBW		17:23				X																			
PBW		17:30	102.1			X																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NECSA

Case #: NA

SAB #: NA

BDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V
LCSW		17:37				X																		
LCSW		17:44	109.7			X																		
CLS-CSS-22S		17:51				X																		
CCV		18:00				X																		
CCB		18:07				X																		
222222		18:14				X																		
CLS-CSS-22		18:21				X																		
CLS-CSS-22A		18:28	101.7			X																		
CLS-CSS-22D		18:35				X																		
CLS-CSS-22DA		18:42	102.0			X																		
CLS-CSS-13		18:49				X																		
CLS-CSS-13A		18:56	101.7			X																		
CLS-CSS-14		19:03				X																		
CLS-CSS-14A		19:10	103.6			X																		
CLS-CSS-15		19:17				X																		

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLS-CSS-15A		19:23	101.6			X																			
CCV		19:30				X																			
CCB		19:37				X																			
CLS-CSS-16		19:44				X																			
CLS-CSS-16A		19:51	-9999.9			X																			
CLS-CSS-16A		19:58	132.2			X																			
CLS-CSS-17		20:05				X																			
CLS-CSS-17A		20:12	108.0			X																			
CLS-CSS-18		20:18				X																			
CLS-CSS-18A		20:25	104.6			X																			
CLS-CSS-19		20:32				X																			
CLS-CSS-19A		20:39	105.5			X																			
CLS-CSS-20		20:46				X																			
CLS-CSS-20A		20:52	110.0			X																			
CCV		20:59				X																			

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
CCB		21:06				X																				
<i>Susan Denton 2-26-94</i>																										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
S0		7:31																							
S0		7:46				X																			
S1		7:52				X																			
S2		7:59				X																			
S3		8:06				X																			
S4		8:13				X																			
S5		8:20				X																			
S6		8:27				X																			
ICV		8:35				X																			
ICB		8:42				X																			
CRA		8:49				X																			
CLS-CSS-21		8:56				X																			
CLS-CSS-21A		9:03	104.2			X																			
777777		9:10																							
777777		9:17																							

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 41

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V
222222		9:24																						
222222		9:31																						
222222		9:38																						
222222		9:45																						
222222		9:52																						
222222		9:59																						
CCV		10:06				X																		
CCB		10:13				X																		

Susan Bentley
2-20-94

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
S0		6:55													X										
S1		7:01													X										
S2		7:09													X										
S3		7:15													X										
S4		7:22													X										
S5		7:29													X										
S6		7:35													X										
ICV		7:44													X										
ICB		7:50													X										
CRA		7:57													X										
PBW		8:04													X										
PBW		8:11	96.5												X										
LCSW		8:17													X										
LCSW		8:24	88.1												X										
CLJ-CSS-075		8:31													X										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
722222		8:38																							
722222		8:46																							
CLS-CSS-07		8:52																							
CLS-CSS-07		8:59																							
CLS-CSS-07A		9:06																							
CCV		9:16													X										
CCB		9:23													X										
<i>Susan Bentley</i> 2-26-94																									

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: ²⁻²⁰⁻⁹⁴
~~CLJ-CSS-01~~

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
S0		11:36													X										
S1		11:43													X										
S2		11:50													X										
S3		11:57													X										
S4		12:03													X										
S5		12:10													X										
S6		12:17													X										
ICV		12:27													X										
ICB		12:33													X										
CRA		12:40																							
CRA		12:48													X										
CLJ-CSS-07		12:55													X										
CLJ-CSS-07A		13:02	94.8												X										
CLJ-CSS-07D		13:08													X										
CLJ-CSS-07DA		13:15	91.8												X										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: WA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V
CLS-DS-01A	10.0	13.22																						
CLS-DS-01AA	10.0	13.28	90.2																					
CLS-CSS-01		13.35																						
CLS-CSS-01A		13.42	85.9																					
CLS-CSS-02		13.49																						
CLS-CSS-02A		13.55	93.8																					
CCV		14.02																						
CCB		14.08																						
CLS-CSS-03		14.15																						
CLS-CSS-03A		14.21	85.1																					
CLS-CSS-04		14.28																						
CLS-CSS-04A		14.35	91.1																					
CLS-CSS-05		14.41																						
CLS-CSS-05A		14.48	88.6																					
CLS-CSS-06		14.54																						

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-06A		15:01	88.0												X										
222222		15:07																							
222222		15:14																							
CCV		15:20													X										
CCB		15:27													X										
PBW		15:33													X										
PBW		15:40	93.5												X										
LCSW		15:46													X										
LCSW		15:53	89.1												X										
CLJ-CSS-22S		15:59													X										
222222		16:06													X										
CLJ-CSS-22		16:13													X										
CLJ-CSS-22A		16:19	92.4												X										
CLJ-CSS-22D		16:26													X										
CLJ-CSS-22DA		16:33	93.4												X										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
CCV		16:40													X											
CCB		16:46													X											
CLS-CSS-13		16:53													X											
CLS-CSS-13A		17:00	88.2												X											
CLS-CSS-14		17:06													X											
CLS-CSS-14A		17:13	82.5												X											
CLS-CSS-15		17:20													X											
CLS-CSS-15A		17:27	84.6												X											
CCV		17:39													X											
CCB		17:46													X											
CLS-CSS-18		17:53													X											
CLS-CSS-18A		17:59													X											
CLS-CSS-19		NO INJECT													X											
CCV		18:07													X											
CCB		18:14													X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLJ-CSS-16		18:21														X									
CLJ-CSS-16A		18:28	87.8													X									
CLJ-CSS-18		18:34																							
CLJ-CSS-18 ²⁰ 18 ²⁶⁻⁹⁴		18:41																							
CLJ-CSS-18		18:45																							
CLJ-CSS-18A		18:52																							
CLJ-CSS-19		18:59														X									
CLJ-CSS-19A		19:05	81.6													X									
CLJ-CSS-20		19:12														X									
CLJ-CSS-20A		19:19	88.7													X									
CCV		19:28														X									
CCV		19:34														X									
CCB		19:41														X									
CLJ-CSS-21		19:48														X									
CLJ-CSS-21A		19:55	89.2													X									

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
222222		20:01																							
222222		20:08																							
PBW		20:15												X											
PBW		20:22	93.0											X											
LCSW		20:28												X											
LCSW		20:35	90.5											X											
CLJ-CSS-12S		20:42												X											
222222		20:48																							
CCV		20:55												X											
CCB		21:01												X											
CLJ-CSS-12		21:08												X											
CLJ-CSS-12A		21:14	89.9											X											
CLJ-CSS-12D		21:21												X											
CLJ-CSS-12DA		21:28	89.5											X											
CLJ-CSS-08		21:34												X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/21/94

End Date: 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
CLS-CSS-08A		21:41	92.4												X										
CLS-CSS-09	10.0	21:47													X										
CLS-CSS-09A	10.0	21:54	85.8												X										
CLS-CSS-10		22:00													X										
CLS-CSS-10A		22:07	85.1												X										
CCV		22:13													X										
CCB		22:20													X										
CLS-CSS-11		22:26																							
CLS-CSS-11A		22:33																							
CLS-CSS-18	2.0	22:39													X										
CLS-CSS-18A	2.0	22:46	90.4												X										
CCV		22:53													X										
CCB		22:59													X										

Susan Buntin 2-26-94

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/22/94

End Date: 02/22/94

EPA Sample Number	D/F	Time	% R	Analytes																										
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N					
S0		8:17														X														
S1		8:24														X														
S2		8:30														X														
S3		8:37														X														
S4		8:44														X														
S5		8:50														X														
S6		8:57														X														
ICV		9:11														X														
ICB		9:18														X														
CRA		9:24														X														
CLJ-CSS-11	2.0	9:31														X														
CLJ-CSS-11A	2.0	9:38	93.2													X														
CCV		9:44														X														
CCB		9:51														X														

Susan Bentley 2-26

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/17/94

End Date: 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N			
S0		10:34																	X									
S1		10:41																	X									
S2		10:48																	X									
S3		10:55																	X									
S4		11:02																	X									
S5		11:09																	X									
S6		11:15																	X									
ICV		12:03																	X									
ICB		12:10																	X									
CRA		12:17																	X									
PBW		12:24																	X									
PBW		12:31	99.0																X									
LCSW		12:38																	X									
LCSW		12:45	107.6																X									
CLJ-CSS-075		12:52																	X									

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/17/94

End Date: 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N
222222		12:52																	X						
CLJ-CSS-07		12:59																	X						
CLJ-CSS-07A		13:06	76.1																X						
CLJ-CSS-07D		13:13																	X						
CLJ-CSS-07DA		13:20																							
CLJ-CSS-07DA		13:27	81.1																X						
CCB		13:41																							
CCV		13:48																							
CCV		14:02																	X						
CCB		14:09																	X						
CLJ-DS-01A		14:16																	X						
CLJ-DS-01AA		14:23	83.3																X						
CLJ-DS-01B		14:30																	X						
CLJ-DS-01BA		14:36	91.1																X						
CLJ-CSS-01		14:43																	X						

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/17/94

End Date: 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N			
CLS-CSS-01A		14:50	75.8																					X				
CLS-CSS-02		14:57																						X				
CLS-CSS-02A		15:04	73.4																					X				
CLS-CSS-03		15:11																						X				
CLS-CSS-03A		15:17	85.0																					X				
CCV		15:24																						X				
CCB		15:31																						X				
				Susan Bentley 2-26-94																								

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V
S0		13:15																	X					
S1		13:22																	X					
S2		13:29																	X					
S3		13:35																	X					
S4		13:42																	X					
S5		13:49																	X					
S6		13:56																	X					
ICV		14:18																	X					
ICB		14:25																	X					
CRA		14:31																						
PBW		14:38																						
CRA		14:44																	X					
PBW		14:51																	X					
PBW		14:58	92.0																X					
LCSW		15:05																	X					

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N
LCSW		15.13	93.0																X						
PBW		15.20																							
PBW		15.27																							
LCSW		15.34																	X						
LCSW		15.41	103.4																X						
ZZZZZZ		15.48																							
ZZZZZZ		15.55																							
CCV		16:02																	X						
CCB		16:08																	X						
ZZZZZZ		16:15																							
ZZZZZZ		16:22																							
CLS-DS-01		16:39																	X						
CLS-DS-01A		16:46	80.0																X						
CLS-CSS-03		16:53																							
CLS-CSS-03A		16:59																							

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N	
CLS-CSS-04		17:06																		X						
CLS-CSS-04A		17:13	96.0																	X						
CLS-CSS-05		17:20																		X						
CLS-CSS-05A		17:27																								
CLS-CSS-05A		17:34	65.0																	X						
CCV		17:41																		X						
CCB		17:48																		X						
<i>Summit Analytical</i> 2-26-94																										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

BDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 2/19/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N	
72222Z		21:51																								
CLS-CSS-12		21:58																								
CLS-CSS-12A		22:05	49.8																							
CLS-CSS-12D		22:12																								
CLS-CSS-12DA		22:18	60.4																							
CLS-CSS-08		22:25																								
CLS-CSS-08A		22:32	58.8																							
CCV		22:39																								
CCB		22:46																								
CLS-CSS-09		22:53																								
CLS-CSS-09A		23:00	79.8																							
CLS-CSS-10		23:07																								
CLS-CSS-10A		23:14																								
CLS-CSS-10A		23:21	72.8																							
CLS-CSS-11		23:28																								

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N	
S0		20:07																	X							
S1		20:14																	X							
S2		20:21																	X							
S3		20:27																	X							
S3		20:34																	X							
S4		20:41																	X							
S5		20:48																	X							
S6		20:55																	X							
ICV		21:03																	X							
ICB		21:10																	X							
CRA		21:17																	X							
CLJ-CSS-06		21:24																	X							
CLJ-CSS-06A		21:31	58.0																X							
CLJ-CSS-12S		21:38																	X							
CLJ-CSS-12S		21:44																	X							

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: WA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/18/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V
CLS-CSS-11A		23:35																	X					
CLS-CSS-11A		23:42	83.0																X					
CLS-CSS-22S		23:49																	X					
ZZZZZZ		23:56																						
CCV		00:03																	X					
CCB		00:10																	X					

Susan Antya 2-26-94

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: S1

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N
S0		8:27																		X					
S1		8:34																		X					
S2		8:40																		X					
S3		8:47																							
S4		8:54																							
S4		9:01																		X					
S5		9:08																							
S5		9:15																		X					
S6		9:22																		X					
S3		9:31																		X					
ICV		9:46																		X					
ICB		9:53																		X					
CRA		9:59																		X					
PBW		10:06																		X					
PBW		10:13	103.2																	X					

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NECSA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V	Z N	
CLS-CSS-22		10:20																								
CLS-CSS-22A		10:28																								
CLS-CSS-22		10:37																		X						
CLS-CSS-22A		10:44																								
CLS-CSS-22A		10:51	72.7																	X						
CLS-CSS-22D		10:58																		X						
CLS-CSS-22DA		11:05	80.7																	X						
CLS-CSS-13		11:12																		X						
CLS-CSS-13A		11:19	70.1																	X						
CCV		11:26																								
CCB		11:33																								
CCV		11:40																		X						
CCB		11:47																		X						
CLS-CSS-14		11:54																		X						
CLS-CSS-14A		12:01	70.4																	X						

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V
CLJ-CSS-15		12:08																	X					
CLJ-CSS-15A		12:15	81.0																X					
CLJ-CSS-16		12:21																	X					
CLJ-CSS-16A		12:28	63.1																X					
CLJ-CSS-17		12:35																	X					
CLJ-CSS-17A		12:42	79.0																X					
CLJ-CSS-18		12:47																	X					
CLJ-CSS-18A		12:56																	X					
CLJ-CSS-18A		13:03	68.9																X					
CCV		13:10																	X					
CCV		13:17																	X					
CCB		13:23																	X					
CLJ-CSS-19		13:30																	X					
CLJ-CSS-19A		13:37																	X					
CLJ-CSS-19A		13:44	67.3																X					

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: F

Instrument ID Number: 51

Start Date: 02/19/94

End Date: 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S e	A G	S R	T L	V
CLS-CSS-20		13:51																	X					
CLS-CSS-20A		13:57																						
CLS-CSS-20A		14:04	69.6																X					
CLS-CSS-21		14:11																	X					
CLS-CSS-21A		14:18	76.3																X					
CCV		14:25																	X					
CCB		14:31																	X					
<i>Summit 2/26/94</i>																								

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/10/94

End Date: 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
50		9:42														X										
50		9:45														X										
50		9:48														X										
51		9:52														X										
51		9:55														X										
51		9:59														X										
52		10:02														X										
52		10:05														X										
52		10:09														X										
53		10:12														X										
53		10:15														X										
53		10:19														X										
54		10:22														X										
54		10:25														X										
54		10:29														X										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CL5-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/10/94

End Date: 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N			
S5		10:32															X											
S5		10:36															X											
S5		10:39															X											
ICB		10:42															X											
ICV		10:46															X											
CRA		10:49															X											
222222		11:04																										
222222		11:07																										
222222		11:10																										
222222		11:13																										
222222		11:17																										
222222		11:20																										
222222		11:23																										
222222		11:27																										
PBW		11:30															X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/10/94

End Date: 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N			
LCSW		11:33															X											
CCB		11:37															X											
CCV		11:40															X											
CLJ-CSS-07S		11:43															X											
ZZZZZZ		11:47																										
CLJ-CSS-07		11:50															X											
CLJ-CSS-07D		11:53															X											
CLJ-DS-01		11:56															X											
CLJ-DS-01A		12:00															X											
CLJ-DS-01B		12:03															X											
CLJ-CSS-01		12:06															X											
CLJ-CSS-02		12:09															X											
CLJ-CSS-03		12:13															X											
CCB		12:16															X											
CCV		12:19															X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/10/94

End Date: 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N			
CLS-CSS-04		12:23															X											
CLS-CSS-05		12:26															X											
CLS-CSS-06		12:29															X											
222222		12:32															X											
CCB		12:36															X											
CCV		12:39															X											
<hr/>																												
<hr/>																												
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															<i>Susan Denton 2-26-94</i>													

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLS-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/09/94

End Date: 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
50		11:07															X									
50		11:10															X									
50		11:13															X									
51		11:17															X									
51		11:20															X									
51		11:24															X									
52		11:27															X									
52		11:30															X									
52		11:34															X									
53		11:37															X									
53		11:40															X									
53		11:44															X									
54		11:47															X									
54		11:51															X									
54		11:54															X									

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/09/94

End Date: 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
S5		11:57															X								
S5		12:01															X								
S5		12:04															X								
ICB		12:08															X								
ICV		12:11															X								
CRA		12:14															X								
777777		12:20																							
777777		12:24																							
777777		12:27																							
777777		12:31																							
777777		12:34																							
777777		12:38																							
777777		12:41																							
777777		12:46																							
777777		12:49																							

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/09/94

End Date: 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N
ZZZZZZ		12:53																							
CCB		12:59																							
CCV		13:02																							
ZZZZZZ		13:05																							
ZZZZZZ		13:09																							
ZZZZZZ		13:12																							
ZZZZZZ		13:15																							
ZZZZZZ		13:19																							
ZZZZZZ		13:22																							
ZZZZZZ		13:25																							
ZZZZZZ		13:28																							
ZZZZZZ		13:32																							
PBW		13:35																							
CCB		13:38																							
CCV		13:42																							

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/09/94

End Date: 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N				
LCSW		13:45																											
CLJ-CSS-07S		13:48																											
ZZZZZZ		13:51																											
CLJ-CSS-07		13:55																											
CLJ-CSS-07	10.0	14:03																											
CLJ-CSS-07S	10.0	14:09																											
CCB		14:17																X											
CCV		14:21																X											
PBW		14:26																X											
LCSW		14:29																X											
CLJ-CSS-12S		14:32																X											
ZZZZZZ		14:36																											
CLJ-CSS-12		14:39																X											
CLJ-CSS-12D		14:42																X											
CLJ-CSS-08		14:45																X											

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/09/94

End Date: 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
CLJ-CSS-09		14:49																X								
CLJ-CSS-10		14:52																X								
CLJ-CSS-11		14:55																X								
CCB		14:58																X								
CCV		15:02																X								
<i>Susan Dwyer 2-26-94</i>																										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/14/94

End Date: 02/14/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
S0		9:47															X									
S0		9:50															X									
S0		9:53															X									
S1		9:57															X									
S1		10:00															X									
S1		10:03															X									
S2		10:07															X									
S2		10:10															X									
S2		10:13															X									
S3		10:17															X									
S3		10:20															X									
S3		10:24															X									
S4		10:27															X									
S4		10:30															X									
S4		10:34															X									

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

BDG #: CLS-CSS-01

Method: CV

Instrument ID Number: 200

Start Date: 02/14/94

End Date: 02/14/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N		
S5		10:37															X										
S5		10:40															X										
S5		10:44															X										
ICB		10:47															X										
ICV		10:51															X										
CRA		10:54															X										
PBW		10:57															X										
LCSW		11:00															X										
CLS-CSS-22S		11:04															X										
222222		11:07															X										
CLS-CSS-22		11:10															X										
CLS-CSS-22D		11:14															X										
CLS-CSS-13		11:17															X										
CLS-CSS-14		11:20															X										
CLS-CSS-15		11:24															X										

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: WA

SAS #: NA

BDG #: CLJ-CSS-01

Method: CV

Instrument ID Number: 200

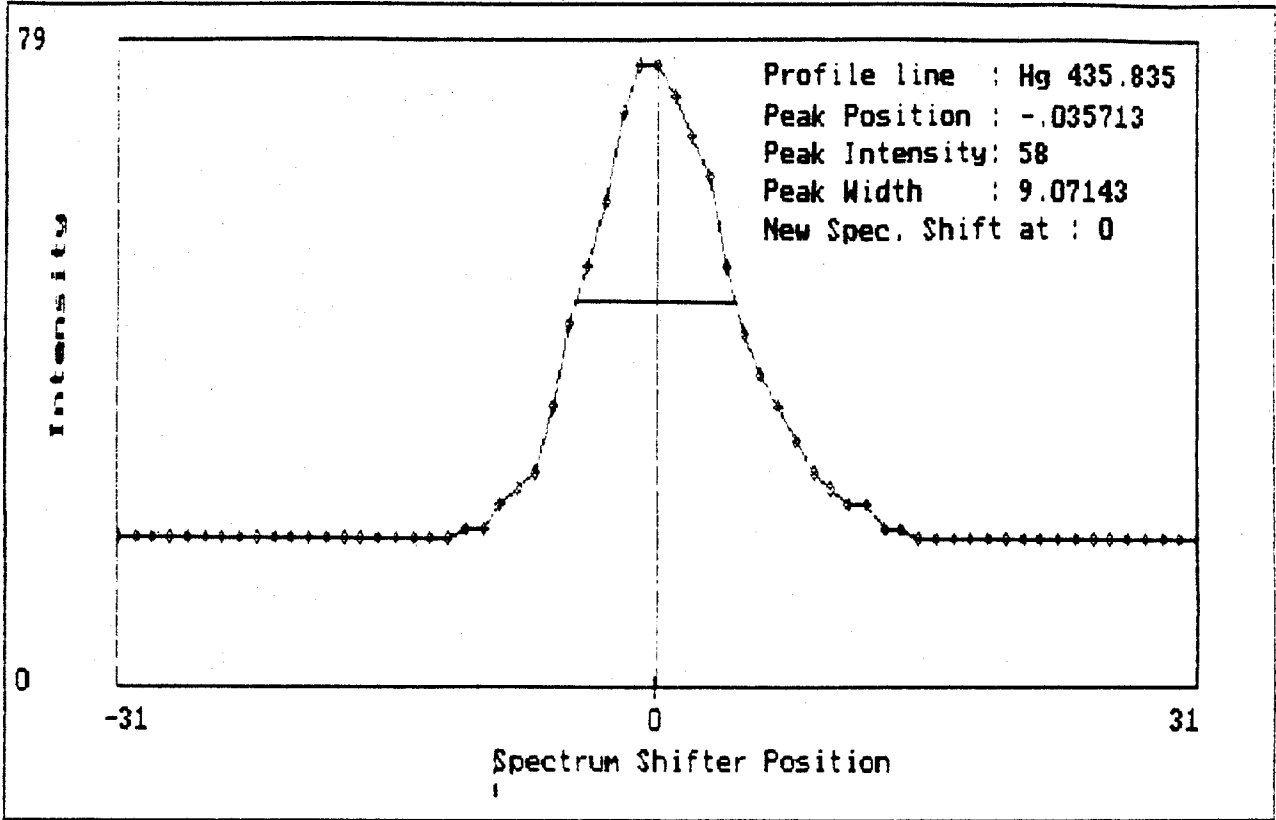
Start Date: 02/14/94

End Date: 02/14/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	B	C D	C R	C O	C U	F E	P B	M N	H G	M O	N I	S	A G	S R	T L	V	Z N	
CLJ-CSS-16		11:27															X									
CCB		11:30															X									
CCV		11:34															X									
CLJ-CSS-17		11:37															X									
CLJ-CSS-18		11:40															X									
CLJ-CSS-19		11:43															X									
CLJ-CSS-20		11:47															X									
CLJ-CSS-21		11:50															X									
ZZZZZZ		11:53															X									
ZZZZZZ		11:56															X									
ZZZZZZ		12:00															X									
ZZZZZZ		12:03															X									
ZZZZZZ		12:06															X									
CCB		12:10															X									
CCV		12:13															X									

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	A021894	ICAP3	02/18/94	13:28	X	IR	
2	STD3 0729	A021894	ICAP3	02/18/94	13:32	X	IR	
3	STD2 0761	A021894	ICAP3	02/18/94	13:36	X	IR	
4	STD4 0775	A021894	ICAP3	02/18/94	13:39	X	IR	
5	ICV,0772	A021894	ICAP3	02/18/94	13:45	SBB	Q	CONC
6	ICB	A021894	ICAP3	02/18/94	13:49	SBB	S	CONC
7	CRI,0784	A021894	ICAP3	02/18/94	13:53	SBB	Q	CONC
8	ICSA,0775	A021894	ICAP3	02/18/94	13:56	SBB	Q	CONC
9	ICSAB,0786	A021894	ICAP3	02/18/94	14:00	SBB	Q	CONC
10	STD #3	A021894	ICAP3	02/18/94	14:04	SBB	S	CONC
11	PBL,N7M3774 MET BLK	A021894	ICAP3	02/18/94	14:14	SBB	S	CONC
12	LCSL,N7M3774 MET SPK	A021894	ICAP3	02/18/94	14:18	SBB	S	CONC
13	SM,JM3178 MIX SPK	A021894	ICAP3	02/18/94	14:21	SBB	S	CONC
14	SD,JM3178 MIX REP	A021894	ICAP3	02/18/94	14:25	SBB	S	CONC
15	XX,JM3178 CLJCSS07	A021894	ICAP3	02/18/94	14:28	SBB	S	CONC
16	XX,JM3178 DUPLICATE	A021894	ICAP3	02/18/94	14:32	SBB	S	CONC
17	XX,JM3169 CLJDS01	A021894	ICAP3	02/18/94	14:35	SBB	S	CONC
18	XX,JM3170 CLJDS01A	A021894	ICAP3	02/18/94	14:39	SBB	S	CONC
19	XX,JM3171 CLJDS01B	A021894	ICAP3	02/18/94	14:42	SBB	S	CONC
20	CCV,0777	A021894	ICAP3	02/18/94	14:46	SBB	Q	CONC
21	CCB	A021894	ICAP3	02/18/94	14:49	SBB	S	CONC
22	XX,JM3172 CLJCSS01	A021894	ICAP3	02/18/94	14:52	SBB	S	CONC
23	XX,JM3173 CLJCSS02	A021894	ICAP3	02/18/94	14:56	SBB	S	CONC
24	XX,JM3174 CLJCSS03	A021894	ICAP3	02/18/94	14:59	SBB	S	CONC
25	XX,JM3175 CLJCSS04	A021894	ICAP3	02/18/94	15:03	SBB	S	CONC
26	XX,JM3176 CLJCSS05	A021894	ICAP3	02/18/94	15:06	SBB	S	CONC
27	XX,JM3177 CLJCSS06	A021894	ICAP3	02/18/94	15:10	SBB	S	CONC
28	TCLP BLK	A021894	ICAP3	02/18/94	15:14	SBB	S	CONC
29	LD,JM3169 X5	A021894	ICAP3	02/18/94	15:17	SBB	S	CONC
30	AS,JM3169,0770 9:1PS	A021894	ICAP3	02/18/94	15:21	SBB	S	CONC
31	CCV,0777	A021894	ICAP3	02/18/94	15:24	SBB	Q	CONC
32	CCB	A021894	ICAP3	02/18/94	15:27	SBB	S	CONC
33	CRI,0784	A021894	ICAP3	02/18/94	15:30	SBB	Q	CONC
34	ICSA,0775	A021894	ICAP3	02/18/94	15:34	SBB	Q	CONC
35	ICSAB,0786 ^{8.1.1.1}	A021894	ICAP3	02/18/94	15:37	SBB	Q	CONC
36	PBL,N7M3776 MET BLK	A021894	ICAP3	02/18/94	15:43	SBB	S	CONC
37	LCSL,N7M3776 MET SPK	A021894	ICAP3	02/18/94	15:47	SBB	S	CONC
38	SM,JM3183 MIX SPK	A021894	ICAP3	02/18/94	15:51	SBB	S	CONC
39	SD,JM3183 MIX REP	A021894	ICAP3	02/18/94	15:54	SBB	S	CONC
40	XX,JM3183 CLJCSS12	A021894	ICAP3	02/18/94	15:58	SBB	S	CONC
41	XX,JM3183 DUPLICATE	A021894	ICAP3	02/18/94	16:01	SBB	S	CONC
42	XX,JM3179 CLJCSS08	A021894	ICAP3	02/18/94	16:05	SBB	S	CONC
43	XX,JM3180 CLJCSS09	A021894	ICAP3	02/18/94	16:08	SBB	S	CONC
44	XX,JM3181 CLJCSS10	A021894	ICAP3	02/18/94	16:12	SBB	S	CONC
45	XX,JM3182 CLJCSS11	A021894	ICAP3	02/18/94	16:16	SBB	S	CONC
46	CCV,0777	A021894	ICAP3	02/18/94	16:19	SBB	Q	CONC
47	CCB	A021894	ICAP3	02/18/94	16:22	SBB	S	CONC
48	LD,JM3182 X5	A021894	ICAP3	02/18/94	16:25	SBB	S	CONC
49	AS,JM3182,0770 9:1PS	A021894	ICAP3	02/18/94	16:29	SBB	S	CONC
50	CCV,0777	A021894	ICAP3	02/18/94	16:32	SBB	Q	CONC
51	CCB	A021894	ICAP3	02/18/94	16:35	SBB	S	CONC
52	CRI,0784	A021894	ICAP3	02/18/94	16:39	SBB	Q	CONC
53	ICSA,0775	A021894	ICAP3	02/18/94	16:43	SBB	Q	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	ICSAB,0786	A021894	ICAP3	02/18/94	16:46	SBB	Q	CONC
55	PBL,N7M3793 MET BLK	B021894	ICAP3	02/18/94	17:04	SBB	S	CONC
56	LCSL,N7M3793 MET SPK	B021894	ICAP3	02/18/94	17:08	SBB	S	CONC
57	SM,JM3193 MIX SPK	B021894	ICAP3	02/18/94	17:12	SBB	S	CONC
58	SD,JM3193 MIX REP	B021894	ICAP3	02/18/94	17:15	SBB	S	CONC
59	XX,JM3193 CLJCSS22	B021894	ICAP3	02/18/94	17:19	SBB	S	CONC
60	XX,JM3193 DUPLICATE	B021894	ICAP3	02/18/94	17:23	SBB	S	CONC
61	XX,JM3184 CLJCSS13	B021894	ICAP3	02/18/94	17:26	SBB	S	CONC
62	XX,JM3185 CLJCSS14	B021894	ICAP3	02/18/94	17:30	SBB	S	CONC
63	XX,JM3186 CLJCSS15	B021894	ICAP3	02/18/94	17:33	SBB	S	CONC
64	XX,JM3187 CLJCSS16	B021894	ICAP3	02/18/94	17:37	SBB	S	CONC
65	CCV,0777	B021894	ICAP3	02/18/94	17:40	SBB	Q	CONC
66	CCB	B021894	ICAP3	02/18/94	17:43	SBB	S	CONC
67	XX,JM3188 CLJCSS17	B021894	ICAP3	02/18/94	17:47	SBB	S	CONC
68	XX,JM3189 CLJCSS18	B021894	ICAP3	02/18/94	17:51	SBB	S	CONC
69	XX,JM3190 CLJCSS19	B021894	ICAP3	02/18/94	17:55	SBB	S	CONC
70	XX,JM3191 CLJCSS20	B021894	ICAP3	02/18/94	17:58	SBB	S	CONC
71	XX,JM3192 CLJCSS21	B021894	ICAP3	02/18/94	18:02	SBB	S	CONC
72	TCLP BLK	B021894	ICAP3	02/18/94	18:06	SBB	S	CONC
73	LD,JM3188 X5	B021894	ICAP3	02/18/94	18:09	SBB	S	CONC
74	AS,JM3188,0770 9:1PS	B021894	ICAP3	02/18/94	18:13	SBB	S	CONC
75	CCV,0777	B021894	ICAP3	02/18/94	18:16	SBB	Q	CONC
76	CCB	B021894	ICAP3	02/18/94	18:19	SBB	S	CONC
77	CRI,0784	B021894	ICAP3	02/18/94	18:22	SBB	Q	CONC
78	ICSA,0775	B021894	ICAP3	02/18/94	18:26	SBB	Q	CONC
79	ICSAB,0786	B021894	ICAP3	02/18/94	18:29	SBB	Q	CONC



Method: ICAP3

Standard: STD1-Blank

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avg	.0008	-.0002	-.0023	.0053	.0004	.0021	.0012
SDev	.0008	.0003	.0035	.0036	.0018	.0063	.0022
%RSD	98.97	173.2	149.1	67.90	393.9	304.3	177.4
#1	.0017	.0000	-.0040	.0083	-.0013	-.0043	.0013
#2	.0003	.0000	.0017	.0062	.0005	.0023	.0033
#3	.0003	-.0005	-.0047	.0013	.0022	.0082	-.0010
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Fe	Al3082
Avg	-.0003	.0004	-.0003	-.0014	-.0769	-.0009	.0029
SDev	.0007	.0004	.0018	.0010	.0112	.0012	.0050
%RSD	217.9	89.72	567.3	66.62	14.50	131.7	168.1
#1	-.0007	.0006	-.0021	-.0020	-.0723	-.0010	.0013
#2	.0005	.0008	-.0005	-.0003	-.0688	.0003	.0085
#3	-.0008	.0000	.0016	-.0020	-.0897	-.0020	-.0010
Elem	Be3130	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179
Avg	.0007	.0006	.0005	.0005	-.0017	-.0009	.0008
SDev	.0000	.0005	.0008	.0004	.0012	.0036	.0017
%RSD	.0000	91.65	152.8	88.19	72.11	379.4	215.7
#1	.0007	.0007	.0012	.0007	-.0007	-.0018	.0010
#2	.0007	.0010	.0007	.0000	-.0013	.0030	.0023
#3	.0007	.0000	-.0003	.0008	-.0030	-.0040	-.0010
Elem	Na5889	Sr4215	Co2286	K_7664	V_2924	B_1826	
Avg	.9082	.0000	.0000	.0195	-.0016	.2172	
SDev	.0216	.0000	.0013	.0006	.0020	.0021	
%RSD	2.375	.0000	57260.	3.082	129.2	.9866	
#1	.9102	.0000	.0002	.0190	-.0013	.2157	
#2	.9287	.0000	.0012	.0193	.0003	.2197	
#3	.8857	.0000	-.0014	.0202	-.0037	.2163	

Method: ICAP3

Standard: STD3 0729

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avg	1.900	13.24	38.75	2.235	3.148	3.223	.5946
SDev	.013	.10	.30	.021	.019	.026	.0048
%RSD	.6813	.7509	.7841	.9577	.6142	.7974	.8135
#1	1.893	13.15	38.97	2.224	3.142	3.209	.5913
#2	1.915	13.35	38.87	2.260	3.170	3.253	.6002
#3	1.892	13.23	38.40	2.221	3.132	3.208	.5923
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Avg	.4884	2.279	3.704	1.580	4.069	5.282	.6183
SDev	.0048	.018	.029	.012	.029	.050	.0047
%RSD	.9903	.7816	.7835	.7734	.7130	.9491	.7578
#1	.4852	2.264	3.686	1.576	4.052	5.265	.6152
#2	.4940	2.299	3.738	1.594	4.103	5.339	.6237
#3	.4862	2.275	3.689	1.571	4.053	5.243	.6160

Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avge	7.767	1.235	8.900	20.81	19.73	7.349	.3769
SDev	.083	.013	.081	.16	.15	.052	.0036
%RSD	1.066	1.054	.9089	.7579	.7378	.7014	.9609

#1	7.771	1.230	8.876	20.73	19.62	7.323	.3763
#2	7.848	1.250	8.991	20.99	19.90	7.408	.3808
#3	7.683	1.225	8.834	20.71	19.68	7.316	.3737

Elem	V_2924
Avge	2.383
SDev	.018
%RSD	.7575

#1	2.370
#2	2.403
#3	2.375

Method: ICAP3 Standard: STD2 0761

Elem	Ti3349	Mo2020	Sr4215	B_1826
Avge	3.895	.4049	2.085	6.200
SDev	.029	.0031	.015	.041
%RSD	.7557	.7605	.7156	.6611

#1	3.923	.4067	2.100	6.232
#2	3.898	.4067	2.086	6.214
#3	3.864	.4013	2.070	6.154

Method: ICAP3 Standard: STD4 0775

Elem	Fe
Avge	10.39
SDev	.10
%RSD	.9740

#1	10.36
#2	10.50
#3	10.31

Method: ICAP3 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
As1890	189.042	STD3 0729	STD1-Blank	5.26516	-.004095	02/18/94 01:39:46
Ba4934	493.409	STD3 0729	STD1-Blank	1.51025	.000252	02/18/94 01:39:46
Cd2144	214.423	STD3 0729	STD1-Blank	.129034	.000301	02/18/94 01:39:46
Cr2677	267.716	STD3 0729	STD1-Blank	.897040	-.004734	02/18/94 01:39:46
Pb2203	220.353	STD3 0729	STD1-Blank	3.17707	-.001412	02/18/94 01:39:46
Sel960	196.026	STD3 0729	STD1-Blank	3.10452	-.006382	02/18/94 01:39:46
Ag3280	328.068	STD3 0729	STD1-Blank	4.21309	-.005149	02/18/94 01:39:46
Cu3247	324.754	STD3 0729	STD1-Blank	5.11480	.001705	02/18/94 01:39:46

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Zn2138	213.856	STD3 0729	STD1-Blank	2.19430	-.000975	02/18/94 01:39:46
Ni2316	231.604	STD3 0729	STD1-Blank	1.34961	.000434	02/18/94 01:39:46
Tl1908	190.864	STD3 0729	STD1-Blank	6.32222	.009132	02/18/94 01:39:46
Fe	259.940	STD3 0729	STD1-Blank	2.45697	.002184	02/18/94 01:39:46
Fe	385.958	STD4 0775	STD1-Blank	19.1055	1.47007	02/18/94 01:39:46
Al3082	308.215	STD3 0729	STD1-Blank	3.78844	-.011155	02/18/94 01:39:46
Be3130	313.042	STD3 0729	STD1-Blank	.809571	-.000540	02/18/94 01:39:46
Ti3349	334.941	STD2 0761	STD1-Blank	2.56794	-.001427	02/18/94 01:39:46
Mn2576	257.610	STD3 0729	STD1-Blank	.643768	-.000322	02/18/94 01:39:46
Mo2020	202.030	STD2 0761	STD1-Blank	2.91798	-.001459	02/18/94 01:39:46
Sb2068	206.838	STD3 0729	STD1-Blank	8.08625	.013477	02/18/94 01:39:46
Mg2790	279.079	STD3 0729	STD1-Blank	5.61724	.005305	02/18/94 01:39:46
Ca3179	317.933	STD3 0729	STD1-Blank	2.40292	-.001869	02/18/94 01:39:46
Na5889	588.995	STD3 0729	STD1-Blank	2.65614	-2.41221	02/18/94 01:39:46
Sr4215	421.552	STD2 0761	STD1-Blank	2.39770	.000000	02/18/94 01:39:46
Co2286	228.616	STD3 0729	STD1-Blank	.680360	-.000002	02/18/94 01:39:46
K 7664	766.491	STD3 0729	STD1-Blank	139.882	-2.72770	02/18/94 01:39:46
V_2924	292.402	STD3 0729	STD1-Blank	2.09712	.003262	02/18/94 01:39:46
B_1826	182.640	STD2 0761	STD1-Blank	.835740	-.181541	02/18/94 01:39:46

Method: ICAP3 Sample Name: ICV,0772 Operator: SBB
 Run Time: 02/18/94 13:45:01
 Comment: IA,N7M3774
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.733	9.370	2.555	.9803	4.726	4.726	1.266
SDev	.038	.050	.003	.0054	.032	.054	.009
%RSD	.7998	.5311	.1194	.5559	.6789	1.134	.7171
#1	4.714	9.358	2.558	.9780	4.722	4.724	1.259
#2	4.708	9.328	2.552	.9763	4.696	4.674	1.262
#3	4.776	9.425	2.557	.9865	4.760	4.781	1.276

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.410	9.240	2.530	.9730	4.680	4.590	1.260
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	1.253	2.500	2.551	4.663	4.719	9.748	.2488
SDev	.006	.015	.020	.017	.021	.043	.0013
%RSD	.4540	.5822	.7832	.3679	.4521	.4388	.5040
#1	1.254	2.495	2.561	4.666	4.716	9.727	.2484
#2	1.247	2.489	2.528	4.645	4.699	9.720	.2478
#3	1.258	2.517	2.564	4.678	4.742	9.797	.2502

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.260	2.480	2.500	4.510	4.670	9.630	.2480
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.763	2.583	.2515	4.747	23.36	23.87	24.03

SDev	.024	.016	.0015	.015	.12	.11	.14
%RSD	.4964	.6365	.5826	.3059	.4970	.4446	.5680
#1	4.756	2.580	.2512	4.750	23.33	23.84	23.95
#2	4.745	2.568	.2503	4.731	23.27	23.77	23.95
#3	4.790	2.601	.2531	4.760	23.49	23.98	24.19
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.690	2.500	.2530	4.620	23.30	23.10	23.80
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	2.588	2.526	24.30	4.751	2.361		
SDev	.013	.012	.45	.023	.009		
%RSD	.4904	.4583	1.851	.4773	.3827		
#1	2.585	2.522	24.15	4.747	2.364		
#2	2.578	2.517	23.94	4.731	2.350		
#3	2.602	2.539	24.81	4.776	2.368		
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
Run Time: 02/18/94 13:49:21
Comment: IC,N7M3774
Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0055	.0014	.0009	-.0015	-.0021	-.0109	-.0023
SDev	.0087	.0013	.0007	.0015	.0133	.0123	.0106
%RSD	156.1	97.54	81.89	100.5	622.2	112.9	453.3
#1	-.0155	.0025	.0012	-.0013	.0102	-.0245	-.0037
#2	.0003	.0017	.0001	-.0001	-.0004	-.0007	.0089
#3	-.0014	-.0001	.0014	-.0031	-.0162	-.0074	-.0122
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0034	.0001	.0001	.0052	.0044	.0274	-.0000
SDev	.0089	.0013	.0042	.0202	.0065	.0940	.0000
%RSD	259.8	979.5	4596.	386.9	149.4	342.4	2770.
#1	.0085	.0016	-.0047	.0101	.0075	.0692	-.0000
#2	.0085	-.0003	.0029	.0224	.0087	.0933	-.0000
#3	-.0068	-.0009	.0020	-.0169	-.0031	-.0802	.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0009	.0004	-.0024	.0207	.0225	.0077	.0273
SDev	.0027	.0011	.0010	.0623	.0376	.0104	.1104
%RSD	321.5	276.0	39.88	300.7	167.3	134.5	404.3

#1	.0029	.0011	-.0015	.0593	.0428	.0133	.0868
#2	.0020	.0010	-.0024	.0540	.0456	.0142	.0952
#3	-.0023	-.0009	-.0034	-.0512	-.0209	-.0043	-.1000

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0004	.0007	-.0155	.0001	.0086
SDev	.0004	.0045	.6429	.0061	.0024
%RSD	100.0	628.4	4136.	5200.	27.66

#1	.0008	.0040	.6528	.0005	.0105
#2	.0000	.0025	-.0699	.0061	.0093
#3	.0004	-.0044	-.6295	-.0062	.0059

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
 Run Time: 02/18/94 13:53:09
 Comment: IL,N7M3774
 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	.2035	.4090	.0111	.0196	.1577	.2104	.0216
SDev	.0203	.0032	.0001	.0017	.0095	.0163	.0109
%RSD	9.990	.7886	1.025	8.582	6.027	7.767	50.72

#1	.1809	.4053	.0111	.0205	.1674	.1985	Q.0330
#2	.2204	.4102	.0113	.0177	.1484	.2290	Q.0113
#3	.2090	.4114	.0111	.0207	.1573	.2036	.0204

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	.1063	.0431	.0874	.2120	.2210	.4337	.0102
SDev	.0052	.0007	.0031	.0049	.0039	.0462	.0001
%RSD	4.902	1.547	3.567	2.292	1.766	10.66	1.509

#1	.1108	.0427	.0869	.2173	.2235	.4671	.0102
#2	.1006	.0427	.0845	.2078	.2165	.3809	.0102
#3	.1074	.0439	.0907	.2107	.2231	.4531	.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	-.0010	.0263	.0204	.1200	2.045	10.35	10.39
SDev	.0015	.0004	.0013	.0115	.028	.07	.08
%RSD	154.5	1.633	6.307	9.549	1.354	.6780	.7245

#1	.0003	.0263	.0199	Q.1286	2.051	10.30	10.36
#2	-.0027	.0259	.0194	.1070	2.014	10.33	10.34
#3	-.0006	.0267	.0218	.1245	2.069	10.43	10.48

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	.0016	.0534	10.55	.1064	Q.0801		
SDev	.0000	.0013	.32	.0041	.0024		
%RSD	.0000	2.473	3.016	3.846	2.933		
#1	.0016	.0540	10.77	.1095	Q.0817		
#2	.0016	.0519	10.70	.1018	Q.0774		
#3	.0016	.0542	10.19	.1081	Q.0812		
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: 02/18/94 13:56:41
 Comment: IF,N7M3774
 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	-.0098	.0020	-.0099	-.0091	.0020	.0016	-.0098
SDev	.0098	.0007	.0006	.0024	.0061	.0178	.0057
%RSD	99.68	33.51	5.785	26.16	302.1	1102.	57.80
#1	-.0186	.0025	-.0103	-.0103	-.0050	-.0180	-.0066
#2	.0008	.0012	-.0092	-.0064	.0046	.0166	-.0164
#3	-.0117	.0022	-.0101	-.0107	.0064	.0063	-.0066

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	.0057	.0172	-.0063	.0132	178.0	487.6	-.0001
SDev	.0043	.0012	.0023	.0177	1.7	4.4	.0002
%RSD	75.55	7.097	37.33	133.7	.9298	.8952	172.8
#1	.0102	.0171	-.0086	.0336	177.3	485.5	.0000
#2	.0017	.0185	-.0063	.0020	176.8	484.6	-.0003
#3	.0051	.0160	-.0039	.0041	179.9	492.6	-.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	-.0039	-.0017	.0021	.0490	240.0	185.3	1.161
SDev	.0016	.0005	.0004	.0450	2.7	1.9	.065

Avge	-.0004	5.097	-.0025	10.03	50.39	50.11	50.17
SDev	.0007	.029	.0014	.04	.37	.28	.25
%RSD	152.8	.5726	54.13	.3891	.7322	.5599	.5073
#1	-.0006	5.130	-.0009	10.07	50.72	50.39	50.44
#2	.0003	5.086	-.0033	10.03	50.45	50.13	50.14
#3	-.0010	5.075	-.0033	9.992	49.99	49.83	49.94
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0160	5.025	50.23	5.027	.0384		
SDev	.0000	.027	.61	.029	.0008		
%RSD	.0000	.5464	1.207	.5674	2.214		
#1	.0160	5.049	50.85	5.056	.0394		
#2	.0160	5.031	50.22	5.025	.0383		
#3	.0160	4.995	49.63	4.999	.0377		

Method: ICAP3 Sample Name: PBL,N7M3774 MET BLK Operator: SBB
 Run Time: 02/18/94 14:14:23
 Comment: N7M3774M,N7M3774,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	.0012	.0006	.0002	-.0000	.0056	-.0090	-.0009
SDev	.0088	.0008	.0008	.0027	.0071	.0103	.0088
%RSD	747.6	147.2	345.7	598200.	126.3	115.0	933.1
#1	.0099	.0013	.0012	.0011	.0086	.0029	.0061
#2	.0012	-.0003	-.0001	-.0031	-.0025	-.0147	-.0108
#3	-.0076	.0008	-.0004	.0020	.0107	-.0152	.0019
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0159	.0108	.0016	.0224	.0079	.0105	.0000
SDev	.0077	.0015	.0016	.0162	.0028	.0612	.0000
%RSD	48.32	13.66	104.4	72.01	35.81	583.0	260.9
#1	.0239	.0122	.0033	.0407	.0095	.0414	-.0000
#2	.0085	.0093	.0015	.0166	.0046	-.0600	.0000
#3	.0153	.0108	-.0000	.0100	.0096	.0501	.0000
Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0011	.0005	-.0013	.0144	.0031	.0347	-.0606
SDev	.0014	.0003	.0007	.0339	.0232	.0061	.0612
%RSD	120.5	70.62	56.93	235.5	744.8	17.47	101.0
#1	-.0001	.0008	-.0015	.0391	.0100	.0374	-.0509
#2	-.0027	.0001	-.0019	-.0242	-.0228	.0278	-.1262
#3	-.0006	.0005	-.0005	.0283	.0222	.0390	-.0049
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0003	-.0012	.0699	-.0014	.0049		

SDev	.0002	.0025	.2331	.0035	.0016
%RSD	86.60	217.8	333.3	251.6	33.17
#1	.0004	.0002	.3031	.0019	.0043
#2	.0000	-.0041	-.1632	-.0051	.0037
#3	.0004	.0004	.0699	-.0009	.0068

Method: ICAP3 Sample Name: LC SL,N7M3774 MET SPK Operator: SBB
 Run Time: 02/18/94 14:18:00
 Comment: N7M3774MS,N7M3774,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	4.769	9.695	.9684	4.912	4.796	.9561	.0925
SDev	.069	.140	.0019	.061	.044	.0200	.0046
%RSD	1.441	1.445	.1913	1.235	.9256	2.087	4.959

#1	4.724	9.714	.9669	4.899	4.755	.9410	.0969
#2	4.736	9.546	.9679	4.859	4.791	.9787	.0877
#3	4.848	9.824	.9705	4.978	4.843	.9487	.0927

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.965	4.671	4.844	4.878	.0054	-.0224	.9413
SDev	.074	.073	.077	.073	.0020	.0249	.0130
%RSD	1.498	1.559	1.594	1.491	37.28	111.0	1.380

#1	4.959	4.648	4.824	4.851	.0077	.0055	.9400
#2	4.894	4.613	4.779	4.823	.0042	-.0304	.9291
#3	5.042	4.753	4.929	4.961	.0043	-.0423	.9550

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.9591	.9969	.8876	.0056	.0554	-.0105
SDev	.0005	.0137	.0111	.0220	.0214	.0022	.0110
%RSD	34.64	1.427	1.116	2.473	380.2	4.025	105.2

#1	.0020	.9586	.9905	.8870	.0287	.0578	.0022
#2	.0011	.9457	.9906	.8660	.0016	.0534	-.0177
#3	.0011	.9731	1.010	.9099	-.0134	.0550	-.0159

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0059	.9714	.1554	.9603	.0109
SDev	.0005	.0125	1.003	.0134	.0004
%RSD	7.873	1.290	645.2	1.398	3.917

#1	.0056	.9675	-.5362	.9599	.0110
#2	.0064	.9613	1.306	.9470	.0104
#3	.0056	.9854	-.3031	.9739	.0112

Method: ICAP3 Sample Name: SM,JM3178 MIX SPK Operator: SBB
 Run Time: 02/18/94 14:21:35

Comment: JM3178MS,N7M3774,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.840	10.20	.9577	4.820	4.702	.9531	.0910
SDev	.027	.05	.0037	.019	.037	.0063	.0008
%RSD	.5550	.5142	.3908	.3922	.7885	.6631	.8828
#1	4.844	10.25	.9620	4.825	4.671	.9462	.0905
#2	4.812	10.15	.9551	4.800	4.692	.9545	.0919
#3	4.866	10.22	.9561	4.837	4.743	.9586	.0906
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.867	5.576	4.748	4.754	.1108	.8176	.9328
SDev	.027	.022	.017	.035	.0008	.0296	.0037
%RSD	.5486	.3964	.3630	.7368	.7248	3.619	.3977
#1	4.885	5.569	4.739	4.730	.1100	.7842	.9327
#2	4.836	5.559	4.737	4.737	.1108	.8282	.9292
#3	4.879	5.601	4.768	4.794	.1116	.8404	.9366
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0108	.9740	.9827	.9027	.2974	5.485	S3502.
SDev	.0018	.0034	.0031	.0250	.0142	.025	.
%RSD	16.43	.3471	.3160	2.771	4.764	.4497	.0094
#1	.0088	.9740	.9804	.8747	.2862	5.472	S3502.
#2	.0123	.9706	.9814	.9102	.3133	5.470	S3502.
#3	.0114	.9774	.9862	.9230	.2927	5.514	S3502.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0330	.9501	.5518	.9471	.4318		
SDev	.0005	.0053	.4480	.0029	.0020		
%RSD	1.397	.5624	81.20	.3062	.4667		
#1	.0328	.9462	.0699	.9481	.4305		
#2	.0328	.9478	.6295	.9439	.4308		
#3	.0336	.9562	.9559	.9495	.4341		

Method: ICAP3 Sample Name: SD,JM3178 MIX REP Operator: SBB

Run Time: 02/18/94 14:25:08

Comment: JM3178MR,N7M3774,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.566	9.703	.9030	4.556	4.460	.9085	.0838
SDev	.028	.051	.0049	.037	.027	.0102	.0025
%RSD	.6177	.5308	.5394	.8135	.6118	1.122	2.950
#1	4.591	9.722	.8980	4.543	4.439	.9167	.0813
#2	4.536	9.644	.9031	4.527	4.451	.8971	.0840
#3	4.573	9.741	.9078	4.597	4.491	.9116	.0862

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.591	5.368	4.476	4.503	.1177	.8124	.8819
SDev	.025	.029	.027	.024	.0037	.0284	.0041
%RSD	.5479	.5389	.6110	.5229	3.152	3.502	.4672

#1	4.592	5.363	4.453	4.478	.1137	.7879	.8816
#2	4.566	5.342	4.468	4.505	.1183	.8057	.8780
#3	4.616	5.399	4.506	4.525	.1210	.8436	.8862

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0100	.9262	.9299	.8435	.2986	5.641	S3501.
SDev	.0010	.0045	.0063	.0252	.0136	.033	.
%RSD	9.897	.4852	.6724	2.982	4.546	.5917	.0065

#1	.0088	.9276	.9299	.8176	.2852	5.625	S3501.
#2	.0106	.9212	.9236	.8450	.2983	5.620	S3502.
#3	.0106	.9299	.9361	.8679	.3124	5.680	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0338	.8973	.9714	.8950	.4358
SDev	.0005	.0048	.1687	.0042	.0028
%RSD	1.364	.5333	17.36	.4667	.6488

#1	.0344	.8929	1.166	.8948	.4363
#2	.0336	.8967	.8859	.8909	.4327
#3	.0336	.9024	.8626	.8993	.4383

Method: ICAP3 Sample Name: XX,JMB178 CLJCSS07 Operator: SBB
 Run Time: 02/18/94 14:28:44
 Comment: JMB178M,N7M3774,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0120	.9269	.0015	.0041	.0325	.0107	-.0012
SDev	.0078	.0071	.0013	.0037	.0253	.0342	.0020
%RSD	64.95	.7673	83.49	91.27	77.78	319.4	173.1

#1	-.0094	.9338	.0030	.0081	.0603	.0495	-.0023
#2	-.0058	.9274	.0009	.0008	.0263	-.0152	-.0023
#3	-.0208	.9196	.0007	.0033	.0109	-.0022	.0012

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0219	.9548	.0090	.0084	.1268	.7634	.0003
SDev	.0018	.0077	.0021	.0187	.0013	.0404	.0000
%RSD	8.120	.8057	23.63	222.2	.9873	5.287	.6907

#1	.0205	.9625	.0107	.0240	.1255	.7268	.0003
#2	.0213	.9546	.0066	-.0123	.1271	.7567	.0003
#3	.0239	.9471	.0097	.0136	.1279	.8067	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0020	.0411	.0020	.0120	.2958	5.541	S3502.
SDev	.0017	.0002	.0047	.0363	.0214	.025	.
%RSD	85.71	.3989	240.2	301.8	7.219	.4554	.0029

#1	.0003	.0411	.0073	-.0070	.2768	5.561	S3502.
#2	.0020	.0410	.0000	-.0108	.2918	5.549	S3502.
#3	.0037	.0413	-.0015	.0539	.3189	5.513	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0289	.0031	1.500	.0006	.4451
SDev	.0002	.0013	.841	.0018	.0013
%RSD	.7982	42.30	56.10	317.2	.2958

#1	.0292	.0046	2.471	-.0010	.4455
#2	.0288	.0022	1.026	.0001	.4461
#3	.0288	.0025	1.002	.0025	.4436

Method: ICAP3 Sample Name: XX, JM3178 DUPLICATE Operator: SBB
 Run Time: 02/18/94 14:32:27
 Comment: JM3178MM, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0023	.9313	.0004	-.0007	.0170	-.0143	.0007
SDev	.0110	.0184	.0004	.0007	.0080	.0094	.0032
%RSD	470.4	1.970	105.0	107.4	46.65	65.74	453.9

#1	-.0111	.9173	-.0001	-.0015	.0252	-.0157	.0040
#2	.0100	.9520	.0006	-.0004	.0093	-.0043	-.0023
#3	-.0058	.9244	.0007	-.0001	.0167	-.0229	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0193	.9594	.0046	.0085	.1689	.8119	.0001
SDev	.0010	.0170	.0016	.0056	.0033	.0052	.0002
%RSD	5.096	1.774	34.17	66.37	1.939	.6416	175.2

#1	.0188	.9456	.0042	.0122	.1656	.8085	-.0000
#2	.0205	.9784	.0063	.0112	.1722	.8092	-.0000
#3	.0188	.9542	.0032	.0020	.1689	.8179	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0031	.0412	-.0011	.0045	.3136	5.576	S3502.
SDev	.0005	.0003	.0024	.0054	.0047	.102	.
%RSD	15.75	.6016	219.1	120.3	1.502	1.830	.0069

#1	.0029	.0409	-.0014	-.0013	.3180	5.497	S3502.
#2	.0029	.0413	-.0034	.0054	.3086	5.691	S3501.
#3	.0037	.0413	.0015	.0094	.3143	5.540	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
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Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0290	.0019	.8859	.0006	.4324
SDev	.0005	.0001	.3450	.0011	.0082
%RSD	1.589	5.929	38.94	198.9	1.895
#1	.0288	.0020	.7227	.0018	.4251
#2	.0296	.0018	.6528	.0001	.4412
#3	.0288	.0019	1.282	-.0003	.4308

Method: ICAP3 Sample Name: XX,JM3169 CLJDS01 Operator: SBB
 Run Time: 02/18/94 14:35:58
 Comment: JM3169M,N7M3774,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0228	.9406	.0019	.0025	.4989	-.0033	-.0019
SDev	.0146	.0077	.0003	.0021	.0065	.0100	.0016
%RSD	64.10	.8187	13.62	85.15	1.304	306.5	86.19
#1	-.0111	.9339	.0017	.0047	.4915	.0081	-.0009
#2	-.0181	.9390	.0019	.0005	.5015	-.0074	-.0009
#3	-.0392	.9490	.0022	.0023	.5036	-.0105	-.0038

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0176	1.922	.0099	-.0001	.1242	1.033	-.0000
SDev	.0036	.006	.0020	.0050	.0017	.017	.0000
%RSD	20.14	.3248	20.25	3772.	1.333	1.626	51.64
#1	.0188	1.916	.0082	.0009	.1257	1.037	-.0000
#2	.0205	1.923	.0121	.0043	.1245	1.047	-.0000
#3	.0136	1.928	.0093	-.0056	.1224	1.014	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0009	.1075	-.0006	.0170	.3476	8.830	S3507.
SDev	.0006	.0005	.0023	.0307	.0177	.049	.
%RSD	76.38	.4990	358.5	180.2	5.084	.5499	.0044
#1	.0007	.1070	.0019	.0444	.3629	8.777	S3507.
#2	.0016	.1080	-.0014	.0229	.3517	8.839	S3507.
#3	.0003	.1075	-.0024	-.0162	.3283	8.873	S3507.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0384	.0040	.8937	.0008	.4180
SDev	.0000	.0005	.5587	.0003	.0007
%RSD	.0000	13.20	62.52	43.80	.1763
#1	.0384	.0046	.5828	.0005	.4171
#2	.0384	.0036	.5595	.0012	.4182
#3	.0384	.0038	1.539	.0008	.4185

Method: ICAP3 Sample Name: XX, JM3170 CLJDS01A Operator: SBB
 Run Time: 02/18/94 14:39:30
 Comment: JM3170M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0052	.6980	.0018	.0004	.1231	-.0136	-.0003
SDev	.0083	.0027	.0002	.0013	.0153	.0121	.0025
%RSD	159.0	.3827	9.190	324.6	12.44	89.12	1016.

#1	-.0146	.7008	.0019	.0020	.1349	-.0198	-.0024
#2	.0012	.6956	.0018	-.0004	.1285	.0004	.0026
#3	-.0023	.6975	.0016	-.0003	.1058	-.0214	-.0010

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0168	1.972	.0110	.0127	.1330	1.178	-.0000
SDev	.0013	.007	.0013	.0069	.0015	.004	.0000
%RSD	7.762	.3548	11.74	53.92	1.112	.3681	652.9

#1	.0179	1.972	.0125	.0049	.1346	1.173	.0000
#2	.0171	1.965	.0104	.0179	.1317	1.182	-.0000
#3	.0153	1.979	.0102	.0154	.1326	1.179	-.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	.0006	.1626	.0008	.0337	.4163	11.95	S3502.
SDev	.0005	.0003	.0020	.0115	.0110	.03	.
%RSD	86.60	.1907	245.6	34.15	2.651	.2834	.0053

#1	.0003	.1622	.0015	.0350	.4041	11.96	S3503.
#2	.0011	.1628	.0024	.0445	.4191	11.91	S3502.
#3	.0003	.1628	-.0014	.0216	.4257	11.98	S3503.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0418	.0027	.8160	.0006	.2889
SDev	.0005	.0011	.5600	.0035	.0009
%RSD	1.103	40.47	68.63	615.6	.3210

#1	.0424	.0017	1.002	-.0030	.2881
#2	.0416	.0038	1.259	.0039	.2887
#3	.0416	.0025	.1865	.0008	.2900

Method: ICAP3 Sample Name: XX, JM3171 CLJDS01B Operator: SBB
 Run Time: 02/18/94 14:42:58
 Comment: JM3171M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0190	.4346	.0021	-.0020	3.774	-.0081	-.0047
SDev	.0124	.0022	.0005	.0018	.036	.0091	.0021
%RSD	65.19	.5179	25.59	87.79	.9606	113.1	45.71

#1	-.0304	.4320	.0015	-.0031	3.732	-.0126	-.0066
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#2	-.0058	.4360	.0023	.0000	3.791	.0024	-.0024
#3	-.0207	.4357	.0025	-.0030	3.798	-.0141	-.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	.0153	2.548	.0126	.0064	.0965	.9694	-.0000
SDev	.0017	.016	.0026	.0105	.0007	.0028	.0001
%RSD	11.12	.6334	20.29	165.9	.7373	.2901	180.3
#1	.0153	2.530	.0138	.0009	.0969	.9713	.0000
#2	.0136	2.561	.0097	.0185	.0957	.9662	.0000
#3	.0170	2.555	.0144	-.0003	.0969	.9707	-.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	.0003	.1164	.0013	.0180	.5377	25.21	S3505.
SDev	.0004	.0006	.0018	.0034	.0094	.16	.
%RSD	150.0	.4878	139.9	19.12	1.753	.6423	.0019
#1	.0007	.1158	.0000	.0216	.5464	25.03	S3505.
#2	-.0001	.1166	.0034	.0148	.5389	25.30	S3505.
#3	.0003	.1168	.0005	.0176	.5277	25.32	S3505.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0571	.0027	.2409	-.0013	.2673		
SDev	.0007	.0010	.5002	.0009	.0022		
%RSD	1.211	36.29	207.6	71.69	.8141		
#1	.0563	.0036	.0000	-.0020	.2647		
#2	.0575	.0027	-.0933	-.0016	.2684		
#3	.0575	.0017	.8160	-.0002	.2686		

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
 Run Time: 02/18/94 14:46:17
 Comment: IB,N7M3774
 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	2.354	4.753	1.283	.4695	2.417	2.387	.6072
SDev	.023	.050	.009	.0027	.015	.004	.0020
%RSD	.9609	1.044	.6698	.5756	.6235	.1740	.3336
#1	2.348	4.809	1.291	.4698	2.403	2.388	.6061
#2	2.335	4.714	1.274	.4667	2.414	2.391	.6060
#3	2.379	4.736	1.285	.4720	2.433	2.383	.6095
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	.6243	1.233	1.284	2.341	2.372	4.757	.1222
SDev	.0020	.009	.004	.027	.012	.010	.0009

%RSD	.3165	.7086	.3063	1.158	.5158	.2132	.7642
#1	.6254	1.241	1.288	2.361	2.385	4.769	.1232
#2	.6220	1.224	1.284	2.311	2.360	4.754	.1213
#3	.6254	1.233	1.281	2.353	2.372	4.749	.1221
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
Avg	2.412	1.272	.1238	2.354	12.14	11.97	12.26
SDev	.018	.006	.0023	.011	.02	.05	.13
%RSD	.7589	.5103	1.852	.4473	.1560	.3998	1.054
#1	2.432	1.279	.1230	2.357	12.13	12.02	12.41
#2	2.396	1.266	.1220	2.362	12.13	11.93	12.21
#3	2.408	1.270	.1264	2.342	12.16	11.98	12.16
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		
Avg	1.303	1.271	12.24	2.401	1.176		
SDev	.014	.005	.68	.014	.004		
%RSD	1.068	.3691	5.534	.5993	.3342		
#1	1.319	1.274	11.54	2.416	1.179		
#2	1.292	1.266	12.29	2.387	1.172		
#3	1.299	1.274	12.89	2.399	1.178		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.310	1.280	11.92	2.410	1.210		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB
 Run Time: 02/18/94 14:49:37
 Comment: ID,N7M3774
 Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0254	.0005	.0002	-.0033	-.0133	-.0190	-.0002
SDev	.0288	.0003	.0003	.0011	.0034	.0192	.0053
%RSD	113.1	71.54	118.9	31.80	25.87	101.1	2265.
#1	-.0585	.0008	-.0000	-.0043	-.0158	-.0328	.0054
#2	-.0120	.0006	.0002	-.0022	-.0094	.0029	-.0009
#3	-.0058	.0001	.0006	-.0035	-.0147	-.0271	-.0052
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0017	.0004	.0010	.0015	.0023	.0311	.0000

SDev	.0017	.0012	.0014	.0094	.0002	.0248	.0001
%RSD	100.1	283.3	139.5	641.4	10.10	79.74	37000.
#1	.0034	.0018	.0020	-.0031	.0026	.0596	.0001
#2	.0017	-.0003	.0017	.0123	.0022	.0147	-.0001
#3	-.0000	-.0002	-.0006	-.0048	.0022	.0190	.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	.0001	.0001	.0008	.0360	.0128	.0035	.1659
SDev	.0009	.0004	.0022	.0063	.0171	.0017	.0343
%RSD	624.5	303.4	267.9	17.45	133.5	48.04	20.66
#1	.0011	.0005	-.0015	.0432	.0325	.0053	.2054
#2	-.0001	.0002	.0029	.0324	.0016	.0029	.1452
#3	-.0006	-.0003	.0010	.0324	.0044	.0021	.1470
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0003	-.0003	-.3419	-.0003	.0061		
SDev	.0005	.0007	.2240	.0024	.0008		
%RSD	173.2	224.8	65.52	682.6	13.89		
#1	.0008	-.0005	-.1399	.0015	.0071		
#2	.0000	.0004	-.5828	.0005	.0059		
#3	.0000	-.0008	-.3031	-.0030	.0054		

Method: ICAP3 Sample Name: XX, JM3172 CLJCSS01 Operator: SBB
 Run Time: 02/18/94 14:52:55
 Comment: JM3172M, N7M3774, 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	.7348	.0014	-.0008	.0209	.0081	.0030
SDev	.0134	.0062	.0003	.0009	.0167	.0271	.0004
%RSD	1515.	.8457	22.05	119.1	79.79	334.0	13.28
#1	-.0041	.7303	.0011	-.0016	.0045	-.0157	.0026
#2	.0161	.7322	.0016	.0002	.0379	.0376	.0033
#3	-.0094	.7419	.0017	-.0009	.0204	.0024	.0033
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0122	.4698	.0057	.0059	.0459	.8329	.0003
SDev	.0013	.0056	.0034	.0117	.0002	.0171	.0000
%RSD	10.65	1.197	59.18	196.8	.5133	2.056	.1835
#1	.0136	.4637	.0028	-.0054	.0457	.8394	.0003
#2	.0119	.4708	.0049	.0053	.0461	.8459	.0003
#3	.0111	.4748	.0094	.0179	.0461	.8135	.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	.0379	.0007	.0337	.8875	23.69	S3501.
SDev	.0003	.0006	.0027	.0222	.0027	.20	

%RSD	24.74	1.608	410.1	65.81	.3045	.8630	.0076
#1	.0007	.0378	.0024	.0081	.8844	23.51	S3501.
#2	.0011	.0374	-.0024	.0459	.8891	23.66	S3501.
#3	.0011	.0386	.0020	.0472	.8891	23.91	S3501.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0581	.0029	1.624	.0028	.3346		
SDev	.0009	.0013	.152	.0004	.0019		
%RSD	1.589	43.56	9.339	14.49	.5528		
#1	.0575	.0019	1.772	.0026	.3336		
#2	.0575	.0043	1.632	.0033	.3336		
#3	.0591	.0025	1.469	.0026	.3368		

Method: ICAP3 Sample Name: XX, JM3173 CLJCSS02 Operator: SBB
 Run Time: 02/18/94 14:56:21
 Comment: JM3173M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0102	.5328	.0001	-.0012	.0156	-.0102	-.0007
SDev	.0116	.0076	.0002	.0011	.0151	.0222	.0004
%RSD	113.4	1.429	287.5	88.61	96.56	218.4	57.76
#1	-.0015	.5241	.0002	-.0003	.0329	.0154	-.0009
#2	-.0234	.5382	-.0002	-.0010	.0049	-.0209	-.0009
#3	-.0058	.5360	.0002	-.0023	.0091	-.0250	-.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	.0108	.3333	.0039	.0039	.0483	.9480	-.0000
SDev	.0036	.0045	.0024	.0053	.0017	.0376	.0000
%RSD	32.87	1.363	63.08	137.1	3.531	3.965	853.0
#1	.0136	.3284	.0050	-.0007	.0488	.9852	-.0000
#2	.0068	.3373	.0011	.0026	.0464	.9100	.0000
#3	.0119	.3343	.0056	.0097	.0496	.9486	-.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	.0010	.0060	.0002	.0171	.2740	2.442	S3506.
SDev	.0014	.0002	.0011	.0069	.0239	.026	.
%RSD	137.8	3.094	660.4	40.57	8.718	1.058	.0035
#1	.0020	.0062	.0015	.0189	.2974	2.412	S3507.
#2	-.0006	.0059	-.0005	.0094	.2497	2.458	S3506.
#3	.0016	.0059	-.0005	.0230	.2749	2.455	S3506.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0186	.0002	.9636	.0001	.2781		
SDev	.0005	.0005	.5013	.0009	.0046		
%RSD	2.474	211.1	52.02	825.6	1.636		

#1	.0184	.0005	1.515	.0008	.2738
#2	.0184	-.0003	.5362	-.0009	.2829
#3	.0192	.0005	.8393	.0005	.2776

Method: ICAP3 Sample Name: XX, JM3174 CLJCSS03 Operator: SBB
 Run Time: 02/18/94 14:59:55
 Comment: JM3174M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0123	.6908	-.0003	-.0003	.0110	.0036	-.0002
SDev	.0169	.0043	.0002	.0013	.0061	.0086	.0021
%RSD	137.2	.6238	71.31	374.0	55.82	236.9	893.7

#1	.0029	.6859	-.0001	.0011	.0041	.0133	.0019
#2	-.0304	.6920	-.0004	-.0014	.0131	-.0033	-.0023
#3	-.0094	.6943	-.0004	-.0007	.0157	.0009	-.0002

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0082	.2745	.0052	.0064	.0749	1.601	.0000
SDev	.0013	.0033	.0007	.0006	.0012	.017	.0000
%RSD	15.81	1.205	14.32	10.15	1.577	1.036	156.6

#1	.0085	.2707	.0044	.0071	.0742	1.618	-.0000
#2	.0094	.2763	.0052	.0061	.0763	1.599	.0000
#3	.0068	.2766	.0059	.0060	.0742	1.585	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0031	.0017	.0007	.0188	.0683	.4803	S3499.
SDev	.0003	.0003	.0025	.0054	.0112	.0042	.
%RSD	7.873	14.75	379.4	28.72	16.34	.8824	.0072

#1	.0033	.0018	.0000	.0135	.0811	.4755	S3499.
#2	.0033	.0018	-.0014	.0243	.0605	.4819	S3499.
#3	.0029	.0014	.0034	.0188	.0633	.4835	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0117	.0005	.4041	-.0011	.2500
SDev	.0005	.0004	.1687	.0017	.0022
%RSD	3.936	75.59	41.74	156.2	.8704

#1	.0120	.0006	.5129	.0008	.2486
#2	.0120	.0008	.2098	-.0016	.2489
#3	.0112	.0001	.4896	-.0023	.2525

Method: ICAP3 Sample Name: XX, JM3175 CLJCSS04 Operator: SBB
 Run Time: 02/18/94 15:03:25
 Comment: JM3175M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0000	.4952	.0011	.0019	.0023	-.0040	.0030
SDev	.0184	.0019	.0007	.0016	.0109	.0192	.0042
%RSD	1104000.	.3821	68.38	80.18	470.8	484.9	139.2

#1	.0187	.4935	.0016	.0024	.0124	.0169	.0026
#2	-.0006	.4949	.0002	.0002	-.0093	-.0209	-.0009
#3	-.0181	.4973	.0013	.0032	.0039	-.0079	.0075

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0108	.2676	.0085	.0064	.0458	.4128	.0003
SDev	.0013	.0020	.0039	.0133	.0013	.0193	.0000
%RSD	12.06	.7601	46.36	206.5	2.737	4.687	.5404

#1	.0094	.2653	.0114	.0056	.0455	.4226	.0003
#2	.0119	.2686	.0099	.0201	.0472	.4252	.0003
#3	.0111	.2690	.0040	-.0064	.0447	.3905	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0013	.0059	-.0010	.0067	.0846	1.539	S3502.
SDev	.0006	.0006	.0017	.0089	.0084	.009	.
%RSD	50.92	10.91	180.1	131.9	9.984	.5726	.0057

#1	.0020	.0053	-.0005	.0081	.0765	1.530	S3502.
#2	.0011	.0059	-.0029	.0149	.0933	1.540	S3502.
#3	.0007	.0065	.0005	-.0027	.0839	1.548	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0131	.0002	.1399	.0008	.1995
SDev	.0005	.0003	.3922	.0016	.0025
%RSD	3.535	163.9	280.4	197.6	1.257

#1	.0136	-.0001	.4430	.0005	.2007
#2	.0128	.0005	-.3031	-.0006	.1966
#3	.0128	.0002	.2798	.0026	.2012

Method: ICAP3 Sample Name: XX, JM3176 CLJCSS05 Operator: SBB
 Run Time: 02/18/94 15:06:58
 Comment: JM3176M, N7M3774, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0035	.6642	.0004	.0006	.0010	-.0055	-.0019
SDev	.0188	.0068	.0007	.0019	.0092	.0083	.0027
%RSD	533.9	1.029	164.9	322.0	884.1	149.7	142.3

#1	.0082	.6633	.0002	.0014	.0049	.0014	-.0037
#2	.0064	.6578	.0012	.0020	.0076	-.0147	.0012
#3	-.0251	.6714	-.0002	-.0016	-.0094	-.0033	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
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Avge	.0006	.0178	.0010	.0324	.0724	2.638	S3503.
SDev	.0006	.0001	.0005	.0185	.0112	.007	.
%RSD	114.6	.6979	49.69	57.22	15.43	.2686	.0122
#1	.0007	.0179	.0005	.0486	.0802	2.639	S3503.
#2	-.0001	.0177	.0010	.0122	.0596	2.644	S3503.
#3	.0011	.0177	.0015	.0364	.0774	2.630	S3502.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0123	.0014	.2798	.0003	.2194		
SDev	.0005	.0008	.3049	.0014	.0009		
%RSD	3.765	55.84	109.0	412.9	.4081		
#1	.0120	.0022	.6295	.0019	.2188		
#2	.0128	.0006	.1399	.0001	.2204		
#3	.0120	.0014	.0699	-.0009	.2191		

Method: ICAP3 Sample Name: TCLP BLK Operator: SBB
 Run Time: 02/18/94 15:14:08
 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	-.0076	.3337	.0000	-.0012	.0077	-.0166	-.0000
SDev	.0144	.0013	.0003	.0016	.0051	.0043	.0032
%RSD	188.9	.3748	1472.	137.7	66.62	26.03	415900.

#1	-.0199	.3337	-.0002	-.0028	.0064	-.0152	.0019
#2	-.0111	.3350	.0004	.0005	.0033	-.0131	-.0037
#3	.0082	.3325	-.0001	-.0013	.0134	-.0214	.0019

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.1663	.0077	.0051	.0210	.0541	.0000
SDev	.0026	.0011	.0014	.0057	.0016	.0433	.0000
%RSD	45.84	.6913	18.31	113.5	7.782	79.99	1322.

#1	.0085	.1653	.0071	.0116	.0226	.0944	-.0000
#2	.0034	.1676	.0067	.0026	.0194	.0083	.0000
#3	.0051	.1661	.0093	.0009	.0210	.0596	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0004	.0010	-.0005	.0243	.0409	.2613	S3497.
SDev	.0009	.0004	.0015	.0108	.0197	.0042	.
%RSD	208.2	37.64	303.3	44.62	48.25	1.600	.0116

#1	.0011	.0014	-.0019	.0351	.0615	.2661	S3497.
#2	-.0006	.0006	.0010	.0135	.0222	.2584	S3498.
#3	.0007	.0010	-.0005	.0243	.0390	.2592	S3497.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0065	.0004	.3730	-.0001	.1740		

SDev	.0002	.0005	.2749	.0012	.0008
%RSD	3.535	130.0	73.69	1042.	.4891
#1	.0064	.0003	.6761	.0012	.1731
#2	.0064	-.0001	.3031	-.0013	.1748
#3	.0068	.0010	.1399	-.0002	.1742

Method: ICAP3 Sample Name: LD,JM3169 X5 Operator: SBB
 Run Time: 02/18/94 15:17:43
 Comment: JM3169ML,N7M3774,L,A5,50,50,5
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0017	.1905	.0001	.0009	.1000	-.0153	-.0026
SDev	.0083	.0011	.0002	.0032	.0056	.0054	.0027
%RSD	477.7	.5859	141.6	356.1	5.594	35.43	103.1

#1	-.0102	.1898	.0002	-.0013	.1021	-.0209	.0005
#2	.0064	.1900	-.0001	-.0006	.0936	-.0152	-.0037
#3	-.0015	.1918	.0003	.0045	.1042	-.0100	-.0045

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0071	.4064	.0027	.0046	.0362	.2684	.0000
SDev	.0013	.0034	.0017	.0088	.0058	.0103	.0002
%RSD	18.33	.8291	63.68	190.4	16.08	3.836	344.2

#1	.0068	.4071	.0017	.0092	.0323	.2775	.0001
#2	.0085	.4028	.0017	.0103	.0335	.2705	.0001
#3	.0060	.4094	.0047	-.0055	.0429	.2573	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0003	.0229	-.0023	.0081	.1479	1.958	240.2
SDev	.0000	.0002	.0011	.0081	.0136	.006	1.5
%RSD	.0000	.9746	49.63	100.2	9.223	.2866	.6251

#1	.0003	.0232	-.0029	.0162	.1588	1.956	238.9
#2	.0003	.0229	-.0010	.0000	.1523	1.953	239.8
#3	.0003	.0227	-.0029	.0080	.1326	1.964	241.8

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0171	.0015	.5984	-.0002	.1470
SDev	.0005	.0010	.6231	.0007	.0132
%RSD	2.706	66.83	104.1	297.2	8.945

#1	.0168	.0017	1.026	.0005	.1622
#2	.0168	.0024	.8859	-.0002	.1391
#3	.0176	.0004	-.1166	-.0009	.1398

Method: ICAP3 Sample Name: AS,JM3169,0770 9:1PS Operator: SBB
 Run Time: 02/18/94 15:21:04

Comment: JMB169MP,N7M3774,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	5.023	10.59	.9977	5.070	5.340	.9977	.0972
SDev	.023	.09	.0056	.047	.051	.0207	.0025
%RSD	.4606	.8222	.5564	.9351	.9558	2.074	2.567
#1	5.032	10.57	.9913	5.041	5.326	.9772	.0970
#2	5.040	10.69	1.001	5.124	5.396	1.019	.0998
#3	4.997	10.52	1.001	5.043	5.297	.9974	.0949
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.063	6.547	4.957	4.928	.1317	1.023	.9784
SDev	.042	.044	.041	.035	.0024	.014	.0076
%RSD	.8278	.6778	.8220	.7048	1.822	1.346	.7736
#1	5.049	6.543	4.949	4.925	.1294	1.009	.9763
#2	5.110	6.593	5.001	4.964	.1342	1.024	.9868
#3	5.030	6.504	4.921	4.894	.1315	1.036	.9721
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	1.092	1.019	.9370	.4665	8.281	S3510.
SDev	.0003	.009	.009	.0129	.0115	.062	.
%RSD	5.587	.8627	.8468	1.377	2.477	.7512	.0059
#1	.0046	1.089	1.014	.9222	.4537	8.253	S3510.
#2	.0041	1.102	1.028	.9423	.4697	8.352	S3509.
#3	.0046	1.084	1.013	.9463	.4762	8.238	S3510.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0590	.9903	2.153	.9902	.4542		
SDev	.0006	.0074	.049	.0100	.0065		
%RSD	1.034	.7483	2.255	1.015	1.427		
#1	.0583	.9893	2.098	.9874	.4472		
#2	.0595	.9981	2.191	1.001	.4600		
#3	.0591	.9834	2.168	.9818	.4553		

Method: ICAP3 Sample Name: CCV,0777
 Run Time: 02/18/94 15:24:28
 Comment: IB,N7M3774
 Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.364	4.788	1.297	.4873	2.433	2.441	.6164
SDev	.029	.016	.005	.0016	.006	.021	.0025
%RSD	1.244	.3275	.3525	.3387	.2513	.8709	.4006
#1	2.334	4.806	1.302	.4891	2.427	2.462	.6166
#2	2.393	4.777	1.298	.4871	2.435	2.443	.6138
#3	2.365	4.782	1.293	.4858	2.439	2.419	.6187

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	.6300	1.241	1.296	2.373	2.402	4.850	.1235
SDev	.0020	.005	.005	.023	.007	.020	.0004
%RSD	.3133	.3938	.3626	.9648	.2908	.4224	.3289

#1	.6323	1.246	1.297	2.395	2.410	4.843	.1240
#2	.6288	1.236	1.300	2.349	2.397	4.835	.1235
#3	.6288	1.242	1.291	2.373	2.398	4.874	.1232

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	2.434	1.291	.1241	2.414	12.30	12.11	12.39
SDev	.007	.004	.0022	.004	.01	.01	.12
%RSD	.3051	.2957	1.772	.1803	.0446	.1153	.9605

#1	2.442	1.294	.1219	2.417	12.30	12.13	12.53
#2	2.429	1.293	.1239	2.409	12.30	12.10	12.32
#3	2.430	1.287	.1263	2.416	12.29	12.10	12.32

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	1.314	1.283	12.26	2.427	1.184
SDev	.004	.003	.11	.007	.005
%RSD	.3426	.2506	.8787	.2701	.4045

#1	1.320	1.286	12.19	2.435	1.190
#2	1.312	1.283	12.19	2.423	1.183
#3	1.312	1.279	12.38	2.423	1.181

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: 02/18/94 15:27:47

Comment: ID,N7M3774

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	.0023	.0012	.0003	-.0024	.0021	.0026	.0023
SDev	.0238	.0009	.0002	.0037	.0064	.0147	.0049

%RSD	1016.	71.84	52.24	153.1	303.4	568.8	210.6
#1	-.0252	.0018	.0002	-.0023	.0044	-.0095	.0019
#2	.0152	.0016	.0005	.0012	.0070	.0190	.0075
#3	.0170	.0002	.0002	-.0061	-.0051	-.0017	-.0023
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	.0005	-.0004	.0051	.0008	.0216	.0001
SDev	.0020	.0009	.0037	.0077	.0013	.0392	.0000
%RSD	69.28	203.4	872.8	151.4	153.0	181.8	1.015
#1	.0017	.0010	-.0046	.0071	.0005	.0135	.0001
#2	.0051	-.0006	.0025	.0115	.0022	.0642	.0001
#3	.0017	.0010	.0008	-.0034	-.0003	-.0130	.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	.0004	-.0006	.0158	.0162	.0037	.1691
SDev	.0003	.0003	.0022	.0213	.0114	.0032	.0483
%RSD	57.74	86.59	339.4	134.9	70.50	85.71	28.58
#1	.0003	.0005	.0015	-.0027	.0137	.0037	.1957
#2	.0007	.0005	-.0005	.0391	.0287	.0069	.1983
#3	.0003	.0000	-.0029	.0109	.0062	.0005	.1133
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0003	.0009	-.0544	.0016	.0051		
SDev	.0005	.0016	.2449	.0014	.0011		
%RSD	173.2	184.6	450.2	88.99	21.38		
#1	.0008	.0005	-.0466	.0012	.0054		
#2	.0000	.0026	.1865	.0033	.0059		
#3	.0000	-.0005	-.3031	.0005	.0039		

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
 Run Time: 02/18/94 15:30:56
 Comment: IL,N7M3774
 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	.2081	.4178	.0111	.0190	.1617	.2140	.0246
SDev	.0123	.0043	.0004	.0019	.0022	.0386	.0042
%RSD	5.901	1.040	4.015	10.13	1.372	18.05	17.12
#1	.2081	.4224	.0115	.0168	.1610	.1943	.0204
#2	.1958	.4174	.0111	.0198	.1600	.1892	.0246
#3	.2204	.4137	.0106	.0204	.1642	Q.2585	Q.0288
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	.1086	.0436	.0866	.2217	.2262	.4426	.0104
SDev	.0026	.0005	.0044	.0049	.0027	.0082	.0000
%RSD	2.399	1.132	5.074	2.214	1.204	1.861	.0076
#1	.1108	.0437	.0911	.2268	.2292	.4512	.0104
#2	.1057	.0431	.0823	.2214	.2255	.4348	.0104
#3	.1091	.0440	.0864	.2170	.2239	.4417	.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	-.0001	.0269	.0226	Q.1304	2.086	10.54	10.69
SDev	.0004	.0003	.0010	.0179	.008	.08	.11
%RSD	300.0	1.005	4.465	13.69	.3817	.7862	1.022
#1	.0003	.0272	.0223	.1098	2.095	10.63	10.81
#2	-.0001	.0268	.0218	Q.1407	2.080	10.53	10.66
#3	-.0006	.0266	.0238	Q.1407	2.083	10.46	10.60
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	.0016	.0534	10.09	.1085	Q.0832		
SDev	.0000	.0010	.49	.0009	.0013		
%RSD	.0000	1.918	4.850	.8099	1.520		
#1	.0016	.0525	9.605	.1084	Q.0845		
#2	.0016	.0533	10.09	.1077	Q.0830		
#3	.0016	.0545	10.58	.1095	Q.0820		
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: 02/18/94 15:34:15

Comment: IF,N7M3774

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	-.0053	.0022	-.0107	-.0092	.0086	.0054	-.0077
SDev	.0315	.0002	.0006	.0014	.0063	.0158	.0015
%RSD	589.3	8.306	5.526	14.81	73.75	291.3	19.01
#1	.0303	.0023	-.0103	-.0077	.0062	-.0010	-.0072
#2	-.0171	.0020	-.0114	-.0094	.0157	.0234	-.0065
#3	-.0292	.0024	-.0104	-.0104	.0038	-.0061	-.0094

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
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Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.0177	-.0108	.0264	181.5	497.2	.0000
SDev	.0010	.0012	.0063	.0083	1.3	4.1	.0000
%RSD	43.34	6.771	58.19	31.58	.7344	.8321	891.2

#1	.0034	.0179	-.0119	.0298	182.0	498.4	-.0000
#2	.0017	.0188	-.0165	.0169	182.6	500.5	-.0000
#3	.0017	.0165	-.0041	.0326	180.0	492.5	.0000

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass 177.0 20.00	QC Pass 487.0 20.00	NOCHECK
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Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0029	-.0012	.0057	.0635	245.3	188.9	1.278
SDev	.0005	.0000	.0031	.0384	1.8	1.4	.029
%RSD	17.32	.0135	53.79	60.45	.7172	.7398	2.265

#1	-.0023	-.0012	.0077	.0912	246.0	189.4	1.304
#2	-.0031	-.0012	.0073	.0197	246.6	190.0	1.283
#3	-.0031	-.0012	.0022	.0796	243.3	187.3	1.247

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass 243.0 20.00	QC Pass 184.0 20.00	NOCHECK
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Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0080	-.0047	-.4196	.0001	.9410
SDev	.0000	.0027	.4280	.0013	.0091
%RSD	.0000	57.90	102.0	1250.	.9675

#1	.0080	-.0016	-.7227	.0005	.9457
#2	.0080	-.0064	-.6062	.0012	.9468
#3	.0080	-.0062	.0699	-.0014	.9306

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
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Method: ICAP3 Sample Name: ICSAB,0786 Operator: SEB
 Run Time: 02/18/94 15:37:37
 Comment: IG,N7M3774
 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	.9518	.4809	.9047	.4651	.9150	.8957	.9414
SDev	.0290	.0025	.0053	.0028	.0086	.0118	.0045
%RSD	3.042	.5112	.5867	.5951	.9385	1.321	.4802

#1	.9220	.4781	.9101	.4624	.9129	.8826	.9363
#2	.9535	.4823	.8995	.4679	.9244	.8989	.9447
#3	.9799	.4823	.9045	.4649	.9077	.9056	.9433
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	.4875	.9381	.8932	.9129	177.0	491.4	.4707
SDev	.0013	.0042	.0026	.0113	.7	2.5	.0018
%RSD	.2675	.4420	.2857	1.235	.4206	.5160	.3907
#1	.4861	.9333	.8946	.9014	176.1	488.5	.4686
#2	.4886	.9400	.8903	.9135	177.5	492.9	.4720
#3	.4878	.9409	.8947	.9239	177.4	492.8	.4716
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	.9320	.4651	.9474	.9902	498.8	229.6	Q2.050
SDev	.0041	.0024	.0025	.0241	2.2	.9	.013
%RSD	.4381	.5216	.2647	2.438	.4406	.3760	.6305
#1	.9273	.4623	.9467	.9671	496.4	228.6	Q2.035
#2	.9346	.4663	.9453	1.015	500.7	230.2	Q2.058
#3	.9342	.4667	.9502	.9883	499.4	229.9	Q2.057
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
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	.9747	.4431	.5362	.4566	Q1.718		
SDev	.0038	.0020	.3894	.0027	.008		
%RSD	.3911	.4574	72.62	.6023	.4688		
#1	.9703	.4418	.4663	.4535	Q1.710		
#2	.9771	.4454	Q.9559	.4582	Q1.726		
#3	.9767	.4421	Q.1865	.4582	Q1.719		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail		
Value	.9516	.4323	.5666	.4458	1.083		
Range	20.00	20.00	20.00	20.00	20.00		

Method: ICAP3 Sample Name: PBL, N7M3776 MET BLK Operator: SBB
 Run Time: 02/18/94 15:43:51
 Comment: N7M3776M, N7M3776, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0131	-.0013	-.0002	-.0048	-.0122	-.0124	-.0103
SDev	.0169	.0008	.0001	.0016	.0153	.0073	.0085
%RSD	128.8	67.77	67.61	34.25	125.4	59.17	82.14

#1	-.0321	-.0022	-.0004	-.0067	-.0279	-.0059	-.0192
#2	-.0076	-.0007	-.0001	-.0038	-.0116	-.0110	-.0094
#3	.0003	-.0009	-.0002	-.0038	.0028	-.0203	-.0024

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0023	.0066	.0005	-.0021	.0120	.0033	-.0001
SDev	.0043	.0003	.0019	.0067	.0022	.0696	.0002
%RSD	188.8	4.946	430.3	325.1	17.98	2116.	177.2

#1	-.0068	.0070	.0023	-.0097	.0096	-.0771	-.0004
#2	.0017	.0063	.0007	.0010	.0128	.0457	.0000
#3	-.0017	.0065	-.0016	.0026	.0137	.0413	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0019	-.0005	-.0052	-.0093	.0144	.0419	-.0692
SDev	.0034	.0007	.0003	.0367	.0318	.0054	.0566
%RSD	183.2	140.9	5.358	393.1	221.6	13.01	81.79

#1	-.0057	-.0012	-.0053	-.0484	-.0209	.0358	-.1328
#2	.0007	-.0003	-.0053	.0244	.0409	.0462	-.0505
#3	-.0006	.0001	-.0049	-.0039	.0231	.0438	-.0243

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0001	-.0024	-.8937	-.0054	.0080
SDev	.0002	.0025	.5867	.0036	.0020
%RSD	173.2	103.9	65.65	66.95	25.24

#1	.0000	-.0054	-1.515	-.0093	.0057
#2	.0000	-.0013	-.8160	-.0044	.0093
#3	.0004	-.0007	-.3497	-.0023	.0090

Method: ICAP3 Sample Name: LCSL,N7M3776 MET SPK Operator: SBB

Run Time: 02/18/94 15:47:31

Comment: N7M3776MS,N7M3776,L,A5,50,50,1

Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.758	9.785	.9745	4.966	4.783	.9403	.0927
SDev	.048	.055	.0082	.028	.010	.0142	.0068
%RSD	1.006	.5595	.8417	.5547	.2164	1.513	7.301

#1	4.712	9.737	.9726	4.937	4.778	.9404	.0976
#2	4.754	9.774	.9674	4.970	4.776	.9544	.0955
#3	4.807	9.845	.9835	4.992	4.795	.9259	.0850

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
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Avg	.0051	.9465	.9798	.9083	.0893	1.976	S3502.
SDev	.0005	.0033	.0038	.0208	.0133	.006	.
%RSD	9.623	.3506	.3840	2.288	14.92	.3075	.0081
#1	.0054	.9428	.9779	.9306	.1045	1.975	S3501.
#2	.0046	.9492	.9841	.8895	.0802	1.983	S3502.
#3	.0054	.9474	.9774	.9048	.0830	1.971	S3502.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0155	.9513	-.2098	.9566	.1563		
SDev	.0006	.0050	.4442	.0039	.0001		
%RSD	3.950	.5300	211.7	.4063	.0514		
#1	.0148	.9495	-.4663	.9550	.1562		
#2	.0156	.9570	-.4663	.9610	.1564		
#3	.0160	.9475	.3031	.9536	.1564		

Method: ICAP3 Sample Name: SD,JM3183 MIX REP Operator: SBB
 Run Time: 02/18/94 15:54:58
 Comment: JM3183MR,N7M3776,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	4.968	10.04	.9825	5.007	4.801	.9917	.0963
SDev	.030	.08	.0097	.038	.034	.0373	.0044
%RSD	.6039	.8361	.9856	.7645	.7119	3.757	4.575
#1	5.002	10.10	.9745	5.031	4.834	1.007	.0998
#2	4.944	9.944	.9796	4.963	4.765	.9492	.0913
#3	4.959	10.07	.9933	5.027	4.804	1.019	.0977

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	5.007	4.911	4.880	4.833	.0234	.8330	.9625
SDev	.038	.028	.026	.038	.0009	.0136	.0066
%RSD	.7565	.5715	.5292	.7793	4.059	1.630	.6885
#1	5.035	4.935	4.906	4.854	.0223	.8207	.9678
#2	4.964	4.880	4.854	4.789	.0241	.8309	.9551
#3	5.023	4.918	4.880	4.854	.0236	.8476	.9648

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0041	.9675	1.005	.8972	.0693	2.083	S3500.
SDev	.0004	.0112	.005	.0116	.0070	.014	1.
%RSD	10.34	1.154	.4671	1.296	10.14	.6499	.0151
#1	.0037	.9776	1.008	.9076	.0624	2.092	S3500.
#2	.0041	.9555	1.000	.8993	.0690	2.068	S3500.
#3	.0046	.9693	1.008	.8846	.0765	2.091	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0160	.9751	.1632	.9811	.1606		

SDev	.0000	.0088	.5250	.0070	.0026
%RSD	.0000	.8975	321.7	.7178	1.611
#1	.0160	.9823	.6761	.9875	.1636
#2	.0160	.9654	.1865	.9735	.1589
#3	.0160	.9777	-.3730	.9822	.1594

Method: ICAP3 Sample Name: XX,JM3183 CLJCSS12 Operator: SBB
 Run Time: 02/18/94 15:58:23
 Comment: JM3183M,N7M3776,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	-.0114	.3745	.0014	.0030	.0271	.0021	.0009
SDev	.0059	.0023	.0004	.0015	.0073	.0151	.0022
%RSD	51.22	.6030	29.83	50.11	26.77	727.5	228.3
#1	-.0050	.3758	.0014	.0015	.0193	-.0064	-.0009
#2	-.0129	.3758	.0018	.0045	.0337	-.0069	.0033
#3	-.0164	.3719	.0010	.0029	.0283	.0195	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0091	.1593	.0082	.0098	.0335	.8362	.0002
SDev	.0010	.0013	.0011	.0042	.0013	.0095	.0002
%RSD	10.83	.7929	13.45	43.20	3.941	1.132	87.56
#1	.0085	.1592	.0085	.0142	.0345	.8254	.0003
#2	.0102	.1606	.0090	.0094	.0320	.8432	.0003
#3	.0085	.1581	.0069	.0058	.0341	.8400	-.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	.0029	.0031	.0026	.0112	.0917	2.019	S3501.
SDev	.0007	.0006	.0023	.0077	.0052	.016	.
%RSD	25.98	21.03	88.52	68.88	5.620	.7807	.0053
#1	.0024	.0030	.0000	.0175	.0952	2.026	S3501.
#2	.0037	.0038	.0044	.0026	.0858	2.030	S3501.
#3	.0024	.0025	.0034	.0134	.0942	2.001	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0112	.0020	.2409	.0019	.1488
SDev	.0000	.0018	.3718	.0023	.0006
%RSD	.0000	94.31	154.3	123.4	.3898
#1	.0112	.0003	-.0699	-.0006	.1494
#2	.0112	.0039	.6528	.0040	.1486
#3	.0112	.0017	.1399	.0022	.1483

Method: ICAP3 Sample Name: XX,JM3183 DUPLICATE Operator: SBB
 Run Time: 02/18/94 16:01:56

Comment: JM3183MM,N7M3776,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	-.0140	.3738	-.0000	-.0010	.0080	-.0266	-.0007
SDev	.0171	.0017	.0002	.0037	.0143	.0034	.0023
%RSD	122.0	.4633	522.3	351.9	179.3	12.79	321.6

#1	-.0313	.3748	-.0003	-.0035	-.0046	-.0271	-.0016
#2	.0029	.3748	.0002	-.0028	.0049	-.0229	-.0023
#3	-.0138	.3718	.0000	.0032	.0236	-.0297	.0019

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	.1565	.0060	.0034	.0412	.8141	-.0000
SDev	.0038	.0008	.0012	.0035	.0008	.0191	.0000
%RSD	122.9	.5221	19.35	101.8	2.063	2.342	968.1

#1	.0034	.1559	.0050	.0075	.0419	.8184	.0000
#2	-.0009	.1574	.0073	.0014	.0402	.7932	.0000
#3	.0068	.1562	.0058	.0014	.0415	.8306	-.0000

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0017	.0042	-.0005	.0045	.0790	2.007	S3502.
SDev	.0005	.0002	.0019	.0148	.0135	.001	.
%RSD	28.87	5.292	406.2	327.0	17.16	.0641	.0025

#1	.0011	.0044	.0015	.0054	.0877	2.008	S3502.
#2	.0020	.0040	-.0024	-.0107	.0633	2.005	S3502.
#3	.0020	.0043	-.0005	.0188	.0858	2.007	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0109	-.0014	-.1399	.0001	.1440
SDev	.0005	.0040	.1529	.0013	.0017
%RSD	4.225	282.8	109.3	1120.	1.166

#1	.0112	-.0026	-.1166	-.0009	.1438
#2	.0104	-.0047	-.3031	-.0002	.1424
#3	.0112	.0030	.0000	.0015	.1458

Method: ICAP3 Sample Name: XX, JM3179 CLJCSS08 Operator: SBB
 Run Time: 02/18/94 16:05:19
 Comment: JM3179M,N7M3776,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	-.0099	.5715	.0002	-.0007	.0018	-.0152	.0000
SDev	.0117	.0023	.0001	.0012	.0142	.0058	.0008
%RSD	117.6	.3967	35.47	162.6	775.5	38.43	233800.

#1	-.0199	.5692	.0002	.0006	.0045	-.0219	-.0009
#2	.0029	.5737	.0002	-.0013	-.0135	-.0116	.0005
#3	-.0129	.5716	.0003	-.0016	.0146	-.0121	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0085	.3018	.0045	.0037	.0319	1.279	-.0000
SDev	.0026	.0040	.0030	.0058	.0013	.012	.0000
%RSD	30.00	1.320	66.90	159.1	3.916	.9034	247.8
#1	.0085	.2974	.0079	-.0028	.0317	1.269	.0000
#2	.0111	.3029	.0036	.0053	.0333	1.292	-.0000
#3	.0060	.3051	.0021	.0085	.0308	1.275	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0014	.0017	-.0018	.0090	.0824	1.059	S3503.
SDev	.0005	.0003	.0006	.0209	.0073	.005	.
%RSD	34.64	16.55	31.59	231.9	8.827	.4540	.0098
#1	.0020	.0014	-.0015	.0027	.0802	1.054	S3503.
#2	.0011	.0019	-.0024	-.0080	.0905	1.063	S3503.
#3	.0011	.0018	-.0015	.0324	.0765	1.059	S3503.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0168	.0010	.3730	.0008	.3680		
SDev	.0000	.0002	.0841	.0022	.0028		
%RSD	.0000	17.03	22.53	268.6	.7583		
#1	.0168	.0010	.4663	-.0016	.3653		
#2	.0168	.0008	.3031	.0026	.3709		
#3	.0168	.0011	.3497	.0015	.3678		

Method: ICAP3 Sample Name: XX,JM3180 CLJCSS09 Operator: SBB
 Run Time: 02/18/94 16:08:56
 Comment: JM3180M,N7M3776,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0140	.4441	.0005	.0011	.1314	-.0019	-.0045
SDev	.0051	.0018	.0005	.0017	.0112	.0128	.0053
%RSD	36.02	.4022	116.1	155.1	8.494	679.6	119.3
#1	-.0111	.4420	.0009	.0023	.1284	.0097	.0005
#2	-.0199	.4454	-.0001	.0018	.1221	.0004	-.0101
#3	-.0111	.4449	.0006	-.0008	.1438	-.0157	-.0037
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0065	.8132	.0050	.0030	.0628	.3976	.0000
SDev	.0051	.0055	.0056	.0012	.0031	.0568	.0000
%RSD	78.63	.6811	111.5	39.78	4.891	14.28	195.9
#1	.0119	.8068	.0108	.0042	.0660	.4619	-.0000
#2	.0017	.8154	.0047	.0029	.0598	.3544	.0000
#3	.0060	.8172	-.0004	.0019	.0627	.3765	.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	.0006	.0121	.0005	.0323	.1136	4.787	S3508.
SDev	.0005	.0004	.0026	.0352	.0225	.019	.
%RSD	86.60	3.066	523.3	109.1	19.79	.4027	.0035

#1	.0011	.0123	.0015	.0727	.1382	4.766	S3507.
#2	.0003	.0123	-.0024	.0080	.0942	4.791	S3508.
#3	.0003	.0117	.0024	.0161	.1083	4.804	S3508.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0185	.0037	.6139	-.0013	.1664
SDev	.0005	.0027	.2216	.0026	.0015
%RSD	2.492	73.87	36.09	204.6	.8858

#1	.0188	.0068	.8393	.0015	.1647
#2	.0188	.0016	.6062	-.0037	.1675
#3	.0180	.0027	.3963	-.0016	.1670

Method: ICAP3 Sample Name: XX, JM3181 CLJCSS10 Operator: SBB
 Run Time: 02/18/94 16:12:24
 Comment: JM3181M,N7M3776,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	-.0029	.7245	.0019	.0073	.0177	.0004	.0005
SDev	.0105	.0022	.0003	.0029	.0029	.0018	.0031
%RSD	355.9	.3062	18.26	39.51	16.40	508.1	646.5

#1	.0091	.7230	.0022	.0056	.0207	.0014	.0019
#2	-.0076	.7235	.0021	.0107	.0175	-.0017	.0026
#3	-.0103	.7270	.0015	.0057	.0149	.0014	-.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	.0136	.4445	.0055	.0029	.0520	1.455	.0011
SDev	.0017	.0033	.0049	.0099	.0014	.032	.0000
%RSD	12.50	.7524	88.44	345.6	2.757	2.207	.0876

#1	.0136	.4415	.0105	.0142	.0521	1.449	.0011
#2	.0119	.4438	.0053	-.0016	.0533	1.490	.0011
#3	.0153	.4481	.0008	-.0040	.0505	1.427	.0011

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0021	.0034	.0010	.0174	.1152	1.823	S3503.
SDev	.0005	.0006	.0040	.0230	.0263	.003	.
%RSD	23.09	17.58	413.0	132.4	22.84	.1706	.0095

#1	.0024	.0038	-.0034	.0363	.1176	1.820	S3503.
#2	.0024	.0036	.0044	.0240	.1401	1.824	S3503.
#3	.0016	.0027	.0019	-.0082	.0877	1.826	S3503.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
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Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0226	.0017	1.274	.0021	.3881
SDev	.0005	.0018	.586	.0011	.0007
%RSD	2.038	105.1	46.00	51.04	.1807

#1	.0224	.0009	1.072	.0019	.3873
#2	.0232	.0038	1.935	.0032	.3887
#3	.0224	.0005	.8160	.0012	.3882

Method: ICAP3 Sample Name: XX, JM3182 CLJCSS11 Operator: SBB
 Run Time: 02/18/94 16:16:11
 Comment: JM3182M, N7M3776, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0100	.6044	.0016	.0020	.0424	-.0124	.0059
SDev	.0266	.0050	.0003	.0026	.0122	.0023	.0011
%RSD	266.9	.8190	20.25	130.1	28.82	18.80	18.36

#1	.0205	.6037	.0019	.0048	.0424	-.0100	.0047
#2	-.0287	.5999	.0013	.0014	.0546	-.0147	.0061
#3	-.0217	.6097	.0016	-.0002	.0301	-.0126	.0068

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0099	.3567	.0078	.0123	.0449	1.482	-.0000
SDev	.0025	.0021	.0025	.0096	.0019	.049	.0000
%RSD	24.75	.5866	32.44	77.77	4.115	3.284	51.33

#1	.0085	.3548	.0054	.0035	.0431	1.434	-.0000
#2	.0085	.3563	.0105	.0109	.0447	1.480	-.0000
#3	.0128	.3589	.0075	.0225	.0468	1.531	-.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	.0020	.0043	.0023	.0480	.1554	2.221	S3502.
SDev	.0000	.0001	.0020	.0066	.0084	.013	.
%RSD	.0000	2.862	86.72	13.74	5.399	.6004	.0082

#1	.0020	.0044	.0005	.0525	.1457	2.212	S3502.
#2	.0020	.0042	.0044	.0512	.1607	2.214	S3502.
#3	.0020	.0044	.0020	.0404	.1598	2.236	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0212	.0019	.7538	.0017	.2945
SDev	.0004	.0003	.0971	.0009	.0008
%RSD	1.887	17.53	12.88	50.59	.2851

#1	.0216	.0021	.8626	.0008	.2937
#2	.0212	.0021	.6761	.0019	.2944
#3	.0208	.0015	.7227	.0026	.2954

Method: ICAP3 Sample Name: CCV,0777

Operator: SBB

Run Time: 02/18/94 16:19:22

Comment: IB,N7M3776

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	2.317	4.771	1.271	.4773	2.397	2.373	.6088
SDev	.008	.002	.003	.0009	.016	.003	.0024
%RSD	.3614	.0456	.2495	.1954	.6860	.1214	.3998

#1	2.308	4.773	1.274	.4765	2.378	2.376	.6074
#2	2.325	4.769	1.271	.4783	2.405	2.371	.6074
#3	2.318	4.770	1.268	.4770	2.408	2.373	.6116

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	.6220	1.223	1.281	2.339	2.378	4.783	.1223
SDev	.0017	.001	.004	.006	.004	.005	.0002
%RSD	.2742	.1086	.3352	.2551	.1604	.0996	.1283

#1	.6203	1.222	1.285	2.344	2.380	4.778	.1224
#2	.6220	1.223	1.282	2.339	2.373	4.788	.1224
#3	.6237	1.224	1.276	2.332	2.380	4.783	.1221

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	2.415	1.265	.1200	2.354	12.14	11.95	12.38
SDev	.002	.005	.0010	.022	.01	.00	.12
%RSD	.0738	.4136	.8122	.9380	.1102	.0260	.9521

#1	2.414	1.259	.1210	2.349	12.13	11.95	12.51
#2	2.417	1.267	.1200	2.335	12.16	11.95	12.33
#3	2.413	1.269	.1191	2.378	12.15	11.96	12.30

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	1.308	1.265	11.70	2.405	1.162
SDev	.001	.001	.27	.001	.001
%RSD	.1058	.1038	2.310	.0587	.0969

#1	1.310	1.266	11.56	2.404	1.161
#2	1.308	1.263	12.01	2.406	1.162
#3	1.308	1.265	11.52	2.407	1.163

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
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Avge	-.0111	.1227	.0006	-.0010	.0156	-.0124	.0007
SDev	.0018	.0007	.0001	.0015	.0095	.0047	.0027
%RSD	15.77	.6024	7.197	140.1	61.13	37.81	378.5
#1	-.0094	.1231	.0006	-.0019	.0130	-.0090	.0026
#2	-.0129	.1231	.0007	-.0019	.0077	-.0178	.0019
#3	-.0111	.1218	.0006	.0006	.0262	-.0105	-.0023
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.0850	.0028	.0077	.0162	.3713	-.0000
SDev	.0043	.0006	.0080	.0095	.0021	.0130	.0000
%RSD	75.50	.7085	285.4	123.8	12.92	3.497	1292.
#1	.0051	.0844	.0095	.0035	.0157	.3702	-.0000
#2	.0017	.0856	-.0060	.0010	.0145	.3588	-.0000
#3	.0102	.0849	.0048	.0186	.0185	.3847	.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	.0019	.0019	.0008	.0144	.1925	.7927	284.2
SDev	.0011	.0005	.0006	.0102	.0173	.0064	3.3
%RSD	58.08	26.14	69.19	70.74	9.005	.8020	1.162
#1	.0020	.0016	.0015	.0027	.2057	.7951	285.5
#2	.0007	.0016	.0005	.0216	.1729	.7975	286.7
#3	.0029	.0025	.0005	.0188	.1991	.7855	280.5
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0256	.0009	.5984	.0001	.1261		
SDev	.0000	.0015	.1654	.0010	.0044		
%RSD	.0000	168.8	27.64	920.6	3.498		
#1	.0256	.0011	.4196	.0012	.1214		
#2	.0256	-.0007	.7460	.0001	.1302		
#3	.0256	.0022	.6295	-.0009	.1266		

Method: ICAP3 Sample Name: AS, JM3182, 0770 9:1PS Operator: SBB
Run Time: 02/18/94 16:29:20
Comment: JM3182MP, N7M3776, L, A5, 50, 50, 1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.850	10.04	.9686	4.897	4.765	.9717	.0939
SDev	.024	.06	.0063	.029	.017	.0062	.0041
%RSD	.4998	.6313	.6456	.5869	.3576	.6353	4.372
#1	4.853	9.978	.9617	4.864	4.746	.9689	.0955
#2	4.825	10.03	.9699	4.910	4.778	.9787	.0969
#3	4.873	10.10	.9740	4.917	4.771	.9674	.0892
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.924	4.988	4.799	4.744	.0574	1.338	.9476

SDev	.027	.029	.022	.036	.0049	.040	.0052
%RSD	.5547	.5750	.4557	.7665	8.551	3.025	.5432
#1	4.893	4.955	4.774	4.703	.0528	1.304	.9420
#2	4.931	5.007	4.808	4.771	.0625	1.383	.9488
#3	4.946	5.002	4.815	4.760	.0568	1.328	.9521
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0049	.9654	.9859	.9086	.2085	2.286	S3505.
SDev	.0005	.0062	.0036	.0162	.0179	.019	.
%RSD	10.19	.6449	.3646	1.785	8.568	.8182	.0024
#1	.0046	.9588	.9818	.9011	.1916	2.264	S3505.
#2	.0054	.9664	.9880	.9272	.2272	2.298	S3505.
#3	.0046	.9711	.9880	.8975	.2066	2.295	S3505.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0386	.9574	1.609	.9630	.3226		
SDev	.0005	.0034	.727	.0052	.0097		
%RSD	1.195	.3514	45.21	.5432	3.019		
#1	.0392	.9536	2.378	.9578	.3115		
#2	.0384	.9599	1.515	.9627	.3299		
#3	.0384	.9588	.9325	.9683	.3263		

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
 Run Time: 02/18/94 16:32:33
 Comment: IB,N7M3776
 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	2.331	4.759	1.272	.4751	2.390	2.368	.6062
SDev	.009	.011	.003	.0008	.011	.009	.0081
%RSD	.3862	.2380	.2692	.1731	.4610	.3837	1.344
#1	2.321	4.768	1.268	.4759	2.382	2.378	.5969
#2	2.339	4.746	1.273	.4743	2.403	2.360	.6116
#3	2.334	4.763	1.275	.4752	2.386	2.368	.6102
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	.6220	1.219	1.272	2.323	2.369	4.766	.1217
SDev	.0015	.002	.012	.008	.006	.039	.0001
%RSD	.2377	.1386	.9498	.3644	.2595	.8266	.1086
#1	.6212	1.217	1.263	2.322	2.363	4.732	.1217
#2	.6212	1.218	1.286	2.332	2.369	4.758	.1216
#3	.6237	1.220	1.269	2.315	2.375	4.809	.1219

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	2.406	1.265	.1223	2.366	12.09	11.91	12.25
SDev	.003	.003	.0015	.007	.07	.04	.06
%RSD	.1262	.2597	1.213	.3161	.5679	.3036	.5258

#1	2.406	1.267	.1210	2.367	12.01	11.87	12.33
#2	2.403	1.261	.1220	2.358	12.11	11.91	12.22
#3	2.409	1.267	.1239	2.373	12.14	11.94	12.21

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	1.305	1.258	11.92	2.394	1.158
SDev	.002	.004	.33	.005	.005
%RSD	.1620	.3342	2.809	.2127	.4163

#1	1.306	1.254	12.17	2.389	1.153
#2	1.303	1.258	12.05	2.393	1.157
#3	1.307	1.262	11.54	2.399	1.163

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: 02/18/94 16:35:57

Comment: ID,N7M3776

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	-.0091	.0012	.0002	-.0016	-.0032	-.0060	.0033
SDev	.0132	.0005	.0003	.0014	.0137	.0127	.0028
%RSD	145.7	41.19	111.9	85.83	429.4	210.7	85.78

#1	-.0243	.0017	.0006	-.0004	.0033	-.0048	.0061
#2	-.0023	.0008	.0001	-.0013	-.0189	-.0193	.0005
#3	-.0006	.0010	.0001	-.0031	.0060	.0060	.0033

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0026	.0002	.0036	.0141	.0012	.0144	.0002
SDev	.0031	.0006	.0019	.0100	.0025	.0217	.0001
%RSD	120.2	324.8	52.25	70.42	200.9	150.6	86.56

#1	.0060	-.0001	.0057	.0219	.0038	.0382	.0003
#2	.0000	-.0003	.0020	.0029	-.0011	-.0041	.0000
#3	.0017	.0009	.0032	.0177	.0010	.0091	.0003

Avge	.0001	.0253	.0225	Q.1384	2.030	10.13	10.33
SDev	.0011	.0014	.0028	.0163	.022	.09	.11
%RSD	755.0	5.378	12.31	11.77	1.088	.8840	1.041
#1	.0003	.0258	.0247	Q.1568	2.051	10.21	10.43
#2	.0011	.0237	.0233	Q.1325	2.032	10.03	10.22
#3	-.0010	.0263	.0194	.1258	2.007	10.14	10.35
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/1	mg/1	mg/1	mg/1	ppm		
Avge	.0016	.0536	10.41	.1048	Q.0815		
SDev	.0000	.0011	.50	.0011	.0020		
%RSD	.0000	2.100	4.824	1.017	2.472		
#1	.0016	.0547	10.98	.1060	Q.0828		
#2	.0016	.0537	10.23	.1046	Q.0792		
#3	.0016	.0525	10.02	.1039	Q.0826		
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: 02/18/94 16:43:12
Comment: IF,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/1	mg/1	mg/1	mg/1	mg/1	mg/1	mg/1
Avge	-.0095	.0018	-.0102	-.0090	.0067	-.0359	-.0110
SDev	.0094	.0005	.0010	.0005	.0207	.0224	.0011
%RSD	99.78	27.17	9.793	5.858	309.5	62.40	9.751
#1	-.0036	.0013	-.0100	-.0089	-.0163	-.0130	-.0122
#2	-.0044	.0018	-.0093	-.0085	.0240	-.0370	-.0108
#3	-.0204	.0023	-.0112	-.0095	.0124	-.0577	-.0101
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/1	mg/1	mg/1	mg/1	mg/1	mg/1	mg/1
Avge	.0023	.0157	-.0041	.0186	176.7	484.1	-.0002
SDev	.0036	.0013	.0049	.0149	1.4	4.4	.0001
%RSD	156.2	8.085	120.3	79.87	.7756	.9105	43.66
#1	-.0017	.0149	-.0070	.0047	176.7	485.3	-.0003
#2	.0051	.0171	.0016	.0169	175.3	479.2	-.0001
#3	.0034	.0150	-.0070	.0342	178.0	487.8	-.0001
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	-.0033	-.0014	.0009	.0524	237.5	183.2	.4048
SDev	.0012	.0002	.0017	.0056	1.9	1.4	.0469
%RSD	37.65	15.61	187.8	10.57	.8142	.7771	11.60
#1	-.0040	-.0016	-.0006	.0587	236.8	183.1	.3586
#2	-.0019	-.0015	.0027	.0482	236.0	181.9	.4524
#3	-.0040	-.0012	.0005	.0504	239.7	184.7	.4033
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	.0072	-.0047	-.4507	-.0014	.4357		
SDev	.0004	.0016	.0485	.0005	.0032		
%RSD	5.556	33.30	10.77	34.08	.7450		
#1	.0072	-.0064	-.3963	-.0014	.4347		
#2	.0076	-.0034	-.4663	-.0009	.4330		
#3	.0068	-.0042	-.4896	-.0019	.4393		
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK		
Value							
Range							

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
 Run Time: 02/18/94 16:46:36
 Comment: IG,N7M3776
 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	.9280	.4674	.8766	.4454	.8635	.8687	.9168
SDev	.0299	.0033	.0052	.0016	.0192	.0206	.0050
%RSD	3.217	.7120	.5939	.3683	2.228	2.372	.5447
#1	.8970	.4647	.8732	.4435	.8539	.8479	.9123
#2	.9566	.4711	.8826	.4467	.8510	.8891	.9222
#3	.9303	.4664	.8740	.4459	.8856	.8692	.9158
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	.4662	.9064	.8660	.8513	171.4	475.7	.4558
SDev	.0010	.0063	.0080	.0190	1.0	3.5	.0030
%RSD	.2116	.6997	.9275	2.237	.5617	.7399	.6658

#1	.4656	.9031	.8594	.8390	170.8	473.4	.4541
#2	.4673	.9137	.8750	.8732	172.5	479.7	.4593
#3	.4656	.9023	.8636	.8416	170.9	473.9	.4541
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	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.9029	.4512	.9090	.9125	480.7	222.0	Q1.986
SDev	.0071	.0019	.0042	.0050	2.7	1.3	.016
%RSD	.7832	.4204	.4582	.5528	.5642	.5767	.7851
#1	.8982	.4503	.9063	.9163	478.7	221.1	Q1.975
#2	.9110	.4534	.9138	.9145	483.8	223.5	Q1.979
#3	.8995	.4499	.9068	.9068	479.7	221.5	Q2.004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
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		
Avg	.9478	.4277	.5440	.4431	Q1.656		
SDev	.0067	.0014	.3182	.0036	.006		
%RSD	.7060	.3362	58.50	.8012	.3473		
#1	.9439	.4264	Q.8859	.4407	Q1.652		
#2	.9555	.4292	.4896	.4472	Q1.662		
#3	.9439	.4273	Q.2565	.4414	Q1.652		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail		
Value	.9516	.4323	.5666	.4458	1.083		
Range	20.00	20.00	20.00	20.00	20.00		

Method: ICAP3 Sample Name: PBL,N7M3793 MET BLK Operator: SBB
 Run Time: 02/18/94 17:04:41
 Comment: N7M3793M,N7M3793,L,A5,50,50,1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0079	.0006	.0001	-.0018	-.0024	-.0003	.0021
SDev	.0094	.0006	.0003	.0012	.0149	.0103	.0015
%RSD	118.8	93.93	230.9	63.01	628.0	3024.	69.43
#1	-.0058	.0008	.0003	-.0022	-.0041	-.0121	.0026
#2	.0003	.0011	.0003	-.0005	.0133	.0040	.0033
#3	-.0181	-.0000	-.0002	-.0028	-.0163	.0071	.0005
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0037	.0049	-.0012	.0135	.0265	.0659	.0000
SDev	.0034	.0006	.0007	.0007	.0024	.0226	.0000
%RSD	93.25	13.05	58.25	5.272	9.073	34.31	237.7

#1	.0017	.0042	-.0018	.0127	.0292	.0501	.0000
#2	.0077	.0053	-.0012	.0141	.0255	.0917	-.0000
#3	.0017	.0052	-.0005	.0138	.0247	.0557	.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	.0014	.0001	.0007	.0364	.0222	.0392	.0717
SDev	.0005	.0003	.0017	.0199	.0129	.0026	.0266
%RSD	34.64	264.7	260.6	54.69	58.09	6.560	37.07

#1	.0011	-.0002	-.0010	.0229	.0250	.0374	.0637
#2	.0020	.0002	.0024	.0593	.0334	.0422	.1014
#3	.0011	.0003	.0005	.0270	.0081	.0382	.0500

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0015	.0002	.0933	-.0002	.0524		
SDev	.0002	.0013	.3894	.0007	.0009		
%RSD	15.75	575.8	417.6	295.9	1.809		

#1	.0016	-.0004	.5129	-.0009	.0514		
#2	.0016	.0018	.0233	.0005	.0527		
#3	.0012	-.0006	-.2565	-.0002	.0532		

Method: ICAP3 Sample Name: LCSSL,N7M3793 MET SPK Operator: SBB
 Run Time: 02/18/94 17:08:29
 Comment: N7M3793MS,N7M3793,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	4.555	9.454	.9343	4.730	4.604	.9046	.0931
SDev	.015	.058	.0059	.036	.023	.0284	.0032
%RSD	.3367	.6090	.6256	.7605	.4931	3.139	3.406

#1	4.553	9.504	.9410	4.749	4.597	.8872	.0898
#2	4.571	9.467	.9321	4.751	4.630	.9374	.0961
#3	4.540	9.391	.9299	4.688	4.586	.8893	.0933

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.787	4.474	4.690	4.648	.0086	.0060	.9102
SDev	.024	.021	.023	.034	.0008	.0101	.0055
%RSD	.4948	.4623	.4866	.7221	9.122	170.4	.6034

#1	4.803	4.487	4.701	4.667	.0094	-.0055	.9136
#2	4.799	4.486	4.706	4.668	.0085	.0095	.9132
#3	4.760	4.450	4.664	4.610	.0078	.0138	.9039

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	.9600	.9493	.8561	.0234	.0529	.0909
SDev	.0005	.0045	.0039	.0256	.0103	.0030	.0107
%RSD	21.65	.4680	.4127	2.991	44.06	5.736	11.74

#1	.0020	.9631	.9475	.8265	.0165	.0494	.0797
#2	.0020	.9620	.9538	.8723	.0184	.0550	.1009
#3	.0029	.9548	.9466	.8694	.0353	.0542	.0921

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0067	.9337	.0078	.9320	.0525		
SDev	.0002	.0034	.5399	.0038	.0007		
%RSD	3.464	.3657	6948.	.4110	1.405		

#1	.0064	.9341	-.4430	.9338	.0527		
#2	.0068	.9368	.6062	.9345	.0530		
#3	.0068	.9300	-.1399	.9276	.0516		

Method: ICAP3 Sample Name: SM,JMB193 MIX SPK Operator: SBB
 Run Time: 02/18/94 17:12:09
 Comment: JMB193MS,N7MB793,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	4.799	9.887	.9525	4.796	4.687	.9579	.0952
SDev	.034	.040	.0057	.015	.021	.0186	.0063
%RSD	.7138	.4033	.5986	.3131	.4579	1.945	6.647

#1	4.830	9.933	.9507	4.813	4.711	.9793	.0892
#2	4.806	9.865	.9479	4.785	4.682	.9451	.0948
#3	4.762	9.863	.9588	4.790	4.669	.9493	.1018

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.876	4.887	4.739	4.684	.0261	.3895	.9347
SDev	.017	.019	.005	.005	.0033	.0289	.0040
%RSD	.3536	.3844	.1043	.1088	12.50	7.431	.4296

#1	4.896	4.908	4.742	4.678	.0260	.3817	.9393
#2	4.863	4.876	4.734	4.685	.0229	.3652	.9326
#3	4.869	4.876	4.743	4.688	.0294	.4215	.9322

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0041	.9676	.9727	.9141	.3071	5.337	S3501.
SDev	.0011	.0045	.0044	.0243	.0272	.019	.
%RSD	27.37	.4695	.4551	2.654	8.848	.3641	.0134

#1	.0037	.9725	.9775	.9155	.3058	5.359	S3501.
#2	.0033	.9636	.9688	.8891	.2805	5.324	S3502.
#3	.0054	.9665	.9717	.9376	.3348	5.328	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0368	.9458	.4974	.9533	.2309		
SDev	.0000	.0032	.0883	.0027	.0020		
%RSD	.0000	.3342	17.75	.2855	.8726		

#1	.0368	.9493	.5362	.9551	.2333		
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Avge	-.0085	.5391	.0008	-.0017	-.0023	-.0012	.0037
SDev	.0133	.0046	.0003	.0018	.0090	.0120	.0055
%RSD	156.6	.8619	35.65	105.9	391.7	999.6	145.6
#1	-.0234	.5423	.0006	-.0035	-.0078	.0097	-.0023
#2	.0020	.5338	.0006	.0000	.0081	.0009	.0054
#3	-.0041	.5412	.0011	-.0016	-.0073	-.0141	.0082
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0074	.2354	.0051	.0100	.0229	.4465	.0002
SDev	.0039	.0023	.0032	.0060	.0021	.0320	.0002
%RSD	53.28	.9856	62.88	60.56	8.985	7.170	88.81
#1	.0051	.2380	.0041	.0142	.0226	.4252	.0003
#2	.0119	.2345	.0088	.0031	.0251	.4833	.0003
#3	.0051	.2337	.0025	.0127	.0210	.4310	-.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	.0024	.0024	-.0016	.0154	.3080	5.469	S3501.
SDev	.0013	.0005	.0012	.0326	.0136	.030	.
%RSD	52.94	20.83	75.79	212.3	4.408	.5538	.0076
#1	.0024	.0018	-.0014	-.0215	.2946	5.495	S3501.
#2	.0037	.0028	-.0005	.0405	.3217	5.436	S3500.
#3	.0011	.0025	-.0029	.0271	.3077	5.476	S3501.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0325	.0003	.5207	.0022	.1957		
SDev	.0005	.0020	.3798	.0022	.0020		
%RSD	1.420	565.3	72.94	98.73	1.027		
#1	.0328	-.0002	.2565	.0005	.1979		
#2	.0328	.0025	.9559	.0015	.1940		
#3	.0320	-.0013	.3497	.0047	.1951		

Method: ICAP3 Sample Name: XX, JM3193 DUPLICATE Operator: SBB
 Run Time: 02/18/94 17:23:01
 Comment: JM3193MM, N7M3793, 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	-.0029	.5263	.0006	-.0015	.0157	-.0029	.0035
SDev	.0081	.0021	.0005	.0014	.0064	.0165	.0033
%RSD	277.7	.3971	83.13	94.96	40.72	563.1	94.65
#1	.0064	.5282	.0007	-.0014	.0135	-.0059	-.0002
#2	-.0076	.5265	.0009	-.0029	.0230	-.0178	.0047
#3	-.0076	.5241	.0000	-.0001	.0108	.0148	.0061
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0094	.2338	.0033	.0066	.0226	.4366	-.0000

SDev	.0039	.0040	.0007	.0098	.0029	.0287	.0000
%RSD	41.66	1.710	20.55	148.8	13.03	6.577	197.1
#1	.0060	.2353	.0041	.0053	.0194	.4138	.0000
#2	.0085	.2368	.0030	-.0025	.0235	.4272	-.0000
#3	.0136	.2293	.0028	.0169	.0251	.4689	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0027	.0024	-.0016	.0221	.3211	5.329	S3501.
SDev	.0015	.0004	.0012	.0263	.0179	.025	.
%RSD	55.45	17.84	75.57	119.3	5.565	.4748	.0044
#1	.0011	.0020	-.0015	.0000	.3077	5.351	S3501.
#2	.0029	.0024	-.0029	.0149	.3143	5.335	S3501.
#3	.0041	.0029	-.0005	.0512	.3414	5.301	S3501.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0333	.0016	.4740	.0012	.2008		
SDev	.0005	.0012	.3798	.0024	.0025		
%RSD	1.386	73.16	80.11	208.1	1.259		
#1	.0336	.0007	.3031	-.0016	.2018		
#2	.0328	.0012	.2098	.0026	.2026		
#3	.0336	.0030	.9092	.0026	.1979		

Method: ICAP3 Sample Name: XX, JM3184 CLJCSS13 Operator: SBB
Run Time: 02/18/94 17:26:38
Comment: JM3184M, N7M3793, L, A5, 50, 50, 1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0006	.3214	.0009	-.0010	.0069	-.0062	-.0014
SDev	.0113	.0029	.0001	.0011	.0011	.0199	.0051
%RSD	1910.	.9046	16.56	107.9	16.04	320.6	361.5
#1	.0134	.3202	.0011	.0002	.0079	-.0281	.0012
#2	-.0076	.3247	.0008	-.0019	.0073	-.0012	.0019
#3	-.0041	.3193	.0009	-.0013	.0057	.0107	-.0073
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0051	.1254	.0010	.0041	.0396	.6962	.0000
SDev	.0017	.0018	.0025	.0073	.0019	.0169	.0000
%RSD	33.32	1.446	266.4	178.6	4.887	2.422	369.3
#1	.0051	.1248	.0038	-.0041	.0381	.6771	-.0000
#2	.0034	.1274	.0000	.0067	.0418	.7087	-.0000
#3	.0068	.1239	-.0010	.0097	.0389	.7030	.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0046	.0119	-.0005	.0198	.2316	2.839	S3500.
SDev	.0004	.0000	.0035	.0112	.0085	.020	.

%RSD	9.375	.0027	730.1	56.74	3.669	.7063	.0116
#1	.0041	.0119	.0034	.0161	.2328	2.826	S3500.
#2	.0050	.0119	-.0015	.0108	.2225	2.862	S3499.
#3	.0046	.0119	-.0034	.0324	.2394	2.828	S3500.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0152	.0011	.2176	-.0007	.1174		
SDev	.0007	.0008	.2896	.0026	.0028		
%RSD	4.558	81.08	133.1	375.3	2.409		
#1	.0148	.0018	.3963	.0012	.1168		
#2	.0160	.0001	-.1166	.0005	.1204		
#3	.0148	.0012	.3730	-.0037	.1149		

Method: ICAP3 Sample Name: XX,JM3185 CLJCSS14 Operator: SBB
 Run Time: 02/18/94 17:30:18
 Comment: JM3185M,N7M3793,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	-.0082	.4152	.0005	-.0019	-.0023	-.0219	-.0047
SDev	.0130	.0051	.0007	.0026	.0243	.0090	.0077
%RSD	158.3	1.237	136.2	135.4	1075.	41.20	165.3
#1	-.0181	.4175	.0011	.0005	.0163	-.0115	-.0051
#2	-.0129	.4188	.0006	-.0016	.0067	-.0281	.0033
#3	.0065	.4093	-.0002	-.0047	-.0298	-.0260	-.0122

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	.1936	.0040	.0011	.0337	1.135	.0000
SDev	.0088	.0024	.0040	.0095	.0048	.075	.0000
%RSD	192.4	1.226	99.90	894.2	14.32	6.611	556.6
#1	.0068	.1946	.0060	.0070	.0349	1.147	-.0000
#2	.0119	.1953	.0066	.0061	.0377	1.204	-.0000
#3	-.0051	.1909	-.0006	-.0099	.0283	1.055	.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	.0020	.0070	-.0019	.0023	.1161	1.605	S3500.
SDev	.0019	.0009	.0039	.0603	.0334	.028	.
%RSD	93.40	13.20	199.0	2624.	28.74	1.731	.0030
#1	.0029	.0072	.0024	.0350	.1195	1.612	S3500.
#2	.0033	.0078	-.0034	.0392	.1476	1.628	S3500.
#3	-.0001	.0060	-.0048	-.0673	.0811	1.574	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0125	-.0005	-.0389	-.0008	.1757		
SDev	.0005	.0030	.4688	.0042	.0035		
%RSD	3.685	583.4	1206.	509.4	1.983		

#1	.0128	.0013	.3497	.0005	.1756
#2	.0128	.0011	.0933	.0026	.1792
#3	.0120	-.0039	-.5595	-.0055	.1723

Method: ICAP3 Sample Name: XX, JM3186 CLJCSS15 Operator: SBB
 Run Time: 02/18/94 17:33:50
 Comment: JM3186M, N7M3793, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0134	.4613	.0002	-.0010	.0128	-.0091	-.0021
SDev	.0243	.0037	.0004	.0020	.0065	.0318	.0077
%RSD	181.0	.8010	259.7	195.7	50.60	348.2	365.8

#1	.0135	.4571	.0004	.0012	.0197	.0060	.0005
#2	-.0339	.4626	.0004	-.0023	.0069	.0122	.0040
#3	-.0199	.4641	-.0003	-.0019	.0118	-.0457	-.0108

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0051	.2008	.0048	.0051	.0135	.9720	.0000
SDev	.0090	.0019	.0037	.0150	.0052	.0825	.0000
%RSD	176.4	.9525	76.44	295.2	38.64	8.487	4041.

#1	.0085	.1990	.0052	.0151	.0161	.9828	-.0000
#2	.0119	.2028	.0083	.0122	.0169	1.049	-.0000
#3	-.0051	.2006	.0010	-.0121	.0075	.8846	.0000

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0014	.0031	-.0024	.0149	.0883	1.156	S3500.
SDev	.0018	.0008	.0000	.0425	.0481	.009	1.
%RSD	124.9	25.61	.2020	285.5	54.52	.7932	.0159

#1	.0020	.0031	-.0024	.0270	.1083	1.149	S3500.
#2	.0029	.0040	-.0024	.0500	.1233	1.166	S3499.
#3	-.0006	.0024	-.0024	-.0323	.0334	1.153	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0120	-.0002	.4585	-.0002	.1730
SDev	.0000	.0020	.1499	.0053	.0011
%RSD	.0000	827.2	32.69	2267.	.6392

#1	.0120	.0013	.6295	.0015	.1717
#2	.0120	.0005	.3963	.0040	.1734
#3	.0120	-.0024	.3497	-.0062	.1738

Method: ICAP3 Sample Name: XX, JM3187 CLJCSS16 Operator: SBB
 Run Time: 02/18/94 17:37:21
 Comment: JM3187M, N7M3793, L, A5, 50, 50, 1
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0026	.4109	-.0000	-.0019	.0006	-.0010	.0005
SDev	.0102	.0032	.0007	.0017	.0083	.0191	.0074
%RSD	385.7	.7823	3619.	89.83	1330.	1855.	1569.

#1	-.0067	.4141	-.0004	-.0016	.0100	.0210	.0012
#2	.0012	.4077	.0008	-.0038	-.0022	-.0121	.0075
#3	.0135	.4109	-.0005	-.0004	-.0059	-.0121	-.0073

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0057	.2234	.0022	.0013	.0251	1.095	-.0000
SDev	.0036	.0039	.0066	.0070	.0037	.054	.0000
%RSD	62.47	1.743	293.5	532.7	14.94	4.946	240.5

#1	.0068	.2239	.0095	.0046	.0259	1.119	-.0000
#2	.0085	.2192	.0004	.0061	.0284	1.132	-.0000
#3	.0017	.2270	-.0032	-.0067	.0210	1.032	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0017	.0007	-.0003	.0162	.0506	.5634	S3500.
SDev	.0017	.0007	.0007	.0190	.0216	.0041	.
%RSD	101.0	96.47	232.6	116.8	42.73	.7296	.0054

#1	.0020	.0014	-.0005	.0243	.0596	.5668	S3500.
#2	.0033	.0005	-.0010	.0298	.0662	.5644	S3500.
#3	-.0001	.0001	.0005	-.0054	.0259	.5588	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avg	.0089	-.0001	.3652	.0017	.2094
SDev	.0006	.0018	.1102	.0042	.0031
%RSD	6.840	1366.	30.16	240.6	1.467

#1	.0096	.0015	.3264	.0015	.2120
#2	.0088	.0000	.4896	.0061	.2101
#3	.0084	-.0019	.2798	-.0023	.2060

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
 Run Time: 02/18/94 17:40:30
 Comment: IB,N7M3793
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	2.268	4.653	1.244	.4586	2.319	2.308	.6017
SDev	.013	.034	.004	.0025	.005	.017	.0134
%RSD	.5637	.7389	.3297	.5497	.1943	.7293	2.233

#1	2.258	4.634	1.247	.4565	2.317	2.320	.5932
#2	2.283	4.631	1.239	.4580	2.324	2.314	.5946
#3	2.264	4.692	1.246	.4614	2.316	2.288	.6172

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	.6135	1.201	1.249	2.257	2.320	4.688	.1189
SDev	.0045	.002	.008	.030	.011	.055	.0006
%RSD	.7368	.1440	.6453	1.325	.4793	1.174	.4822
#1	.6100	1.200	1.245	2.244	2.314	4.638	.1185
#2	.6117	1.203	1.244	2.237	2.314	4.679	.1187
#3	.6186	1.200	1.258	2.292	2.333	4.747	.1196
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	2.355	1.264	.1162	2.301	11.87	11.66	12.25
SDev	.015	.025	.0010	.025	.06	.06	.13
%RSD	.6508	1.968	.8383	1.067	.5207	.4849	1.095
#1	2.347	1.249	.1172	2.297	11.82	11.62	12.39
#2	2.346	1.251	.1152	2.278	11.85	11.63	12.12
#3	2.373	1.293	.1162	2.327	11.94	11.72	12.25
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	1.276	1.233	11.65	2.347	1.128		
SDev	.009	.003	.38	.016	.002		
%RSD	.7080	.2653	3.235	.6618	.2104		
#1	1.272	1.231	12.05	2.338	1.126		
#2	1.270	1.232	11.59	2.338	1.128		
#3	1.286	1.237	11.31	2.365	1.131		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.310	1.280	11.92	2.410	1.210		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB
 Run Time: 02/18/94 17:43:52
 Comment: ID,N7M3793
 Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0015	.0005	.0000	-.0040	-.0025	.0007	.0035
SDev	.0224	.0009	.0008	.0025	.0166	.0123	.0054
%RSD	1514.	164.3	3618.	61.73	666.1	1781.	153.0

#1	.0117	.0015	.0009	-.0011	.0166	.0148	.0047
#2	.0170	-.0003	-.0003	-.0053	-.0141	-.0074	-.0024
#3	-.0243	.0004	-.0005	-.0055	-.0100	-.0053	.0082

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	-.0005	-.0033	.0065	.0018	.0155	-.0000
SDev	.0042	.0009	.0008	.0100	.0039	.0472	.0000
%RSD	295.7	171.0	25.51	153.9	219.5	304.3	254.3

#1	.0034	.0005	-.0023	-.0007	.0054	.0395	-.0000
#2	-.0034	-.0010	-.0037	.0023	-.0023	-.0388	.0000
#3	.0043	-.0011	-.0038	.0179	.0022	.0459	-.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	.0006	.0003	-.0040	.0172	.0203	.0027	.1724
SDev	.0018	.0013	.0034	.0195	.0264	.0054	.0709
%RSD	312.2	523.6	84.30	113.2	130.0	204.2	41.11

#1	.0020	.0014	-.0005	.0270	.0306	.0069	.2528
#2	-.0014	-.0012	-.0073	-.0052	-.0097	-.0035	.1191
#3	.0011	.0005	-.0044	.0298	.0399	.0045	.1452

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0000	-.0004	-.4818	.0009	-.0012		
SDev	.0000	.0016	1.0099	.0029	.0011		
%RSD	.0000	397.2	209.6	310.7	93.72		

#1	.0000	.0014	.6528	.0019	.0001		
#2	.0000	-.0017	-1.282	-.0023	-.0017		
#3	.0000	-.0009	-.8160	.0033	-.0019		

Method: ICAP3 Sample Name: XX, JM3188 CLJCSS17 Operator: SBB
 Run Time: 02/18/94 17:47:48
 Comment: JM3188M, N7M3793, 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	-.0075	.4340	.0007	.0003	.2145	-.0031	.0019
SDev	.0105	.0026	.0005	.0016	.0124	.0127	.0067
%RSD	140.1	.5967	82.81	471.8	5.801	414.0	362.4

#1	-.0075	.4327	.0012	-.0015	.2095	.0050	.0026
#2	.0030	.4370	.0006	.0013	.2053	.0035	.0082
#3	-.0181	.4323	.0001	.0012	.2286	-.0177	-.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	.0171	5.823	.0072	.0092	.1780	1.602	-.0000
SDev	.0029	.031	.0043	.0027	.0033	.052	.0000
%RSD	17.32	.5337	59.42	29.16	1.874	3.232	189.8

#1	.0154	5.811	.0107	.0122	.1788	1.583	-.0000
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#2	.0205	5.858	.0083	.0083	.1808	1.661	-.0000
#3	.0154	5.799	.0025	.0071	.1743	1.562	.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	.0263	.2542	-.0003	.0301	.1857	2.898	S3500.
SDev	.0018	.0020	.0023	.0265	.0257	.018	.
%RSD	6.788	.7739	746.8	88.09	13.85	.6175	.0061
#1	.0268	.2546	.0005	.0269	.1935	2.892	S3500.
#2	.0277	.2559	-.0029	.0580	.2066	2.918	S3500.
#3	.0243	.2520	.0015	.0053	.1570	2.883	S3500.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0131	.0031	.7849	.0021	.1689		
SDev	.0005	.0019	.6309	.0039	.0020		
%RSD	3.535	62.66	80.38	186.4	1.189		
#1	.0128	.0018	.9325	.0018	.1706		
#2	.0128	.0053	.0933	.0060	.1695		
#3	.0136	.0021	1.329	-.0017	.1667		

Method: ICAP3 Sample Name: XX, JM3189 CLJCSS18 Operator: SBB
 Run Time: 02/18/94 17:51:40
 Comment: JM3189M, N7M3793, 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	.0032	.4697	.0024	.0004	.0390	.0040	.0066
SDev	.0174	.0001	.0008	.0017	.0144	.0136	.0072
%RSD	541.4	.0219	32.72	392.1	36.86	340.4	110.0
#1	-.0120	.4698	.0027	.0002	.0468	-.0074	.0005
#2	.0222	.4696	.0015	-.0012	.0224	.0004	.0145
#3	-.0006	.4698	.0029	.0023	.0479	.0190	.0047
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0784	2.360	.0092	.0041	.1021	.4394	-.0000
SDev	.0029	.002	.0015	.0084	.0017	.0307	.0000
%RSD	3.764	.0839	16.85	204.0	1.666	6.987	147.1
#1	.0818	2.362	.0098	.0122	.1035	.4669	-.0000
#2	.0767	2.359	.0103	.0048	.1027	.4451	-.0000
#3	.0767	2.360	.0074	-.0046	.1002	.4063	-.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	.0029	.0248	-.0005	.0148	.0908	2.008	S3498.
SDev	.0000	.0004	.0021	.0296	.0057	.002	.
%RSD	.0000	1.562	443.8	199.5	6.299	.0806	.0022
#1	.0029	.0249	.0005	.0364	.0896	2.010	S3498.
#2	.0029	.0251	-.0029	.0271	.0971	2.008	S3498.

#3	.0029	.0244	.0010	-.0189	.0858	2.007	S3498.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0136	.0026	.9481	.0028	.1857		
SDev	.0000	.0008	.3007	.0040	.0004		
%RSD	.0000	30.11	31.71	145.0	.2166		
#1	.0136	.0019	.8626	.0005	.1859		
#2	.0136	.0023	.6994	.0074	.1852		
#3	.0136	.0034	1.282	.0005	.1859		

Method: ICAP3 Sample Name: XX, JM3190 CLJCSS19 Operator: SBB
 Run Time: 02/18/94 17:55:24
 Comment: JM3190M, N7M3793, L, A5, 50, 50, 1
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0064	.4934	.0001	-.0013	.0010	-.0040	-.0037
SDev	.0175	.0083	.0003	.0005	.0025	.0006	.0061
%RSD	271.5	1.676	439.7	35.67	248.1	15.05	163.7

#1	-.0137	.4997	-.0001	-.0019	.0029	-.0043	-.0009
#2	.0161	.4965	.0004	-.0010	-.0018	-.0043	-.0108
#3	.0170	.4840	-.0001	-.0011	.0019	-.0033	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0009	.2678	.0029	-.0013	.0353	.7859	.0000
SDev	.0070	.0024	.0006	.0030	.0036	.0397	.0000
%RSD	818.0	.8977	21.08	242.6	10.29	5.053	7696.

#1	-.0009	.2696	.0027	-.0017	.0366	.7990	-.0000
#2	-.0051	.2686	.0025	-.0040	.0312	.7413	.0000
#3	.0085	.2650	.0036	.0020	.0382	.8175	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	.0014	.0017	-.0015	.0059	.0674	1.476	S3499.
SDev	.0026	.0003	.0018	.0290	.0324	.007	.
%RSD	183.3	19.53	120.8	493.7	48.12	.4560	.0107

#1	.0020	.0016	.0000	.0054	.0708	1.483	S3500.
#2	-.0014	.0014	-.0010	-.0229	.0334	1.474	S3499.
#3	.0037	.0020	-.0034	.0351	.0980	1.470	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avgc	.0147	-.0001	.3575	-.0001	.2061		
SDev	.0005	.0010	.3349	.0044	.0039		
%RSD	3.149	713.6	93.68	3712.	1.899		

#1	.0144	-.0009	.4896	.0015	.2101		
#2	.0152	-.0006	.6062	-.0051	.2057		
#3	.0144	.0010	-.0233	.0033	.2023		

Method: ICAP3 Sample Name: XX, JM3191 CLJCSS20 Operator: SBB
 Run Time: 02/18/94 17:58:56
 Comment: JM3191M, N7M3793, 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	-.0132	.3814	.0006	-.0013	.0054	-.0147	-.0012
SDev	.0085	.0036	.0011	.0012	.0053	.0047	.0042
%RSD	64.74	.9435	186.9	89.90	96.75	32.38	362.0

#1	-.0058	.3804	.0013	-.0006	.0115	-.0198	.0033
#2	-.0111	.3784	-.0007	-.0007	.0029	-.0105	-.0052
#3	-.0225	.3854	.0012	-.0026	.0019	-.0136	-.0016

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0063	.5070	.0052	.0066	.0442	.7651	-.0000
SDev	.0020	.0063	.0010	.0060	.0011	.0202	.0000
%RSD	31.49	1.250	19.64	90.87	2.444	2.634	395.0

#1	.0085	.5099	.0063	.0124	.0438	.7555	-.0000
#2	.0051	.4997	.0047	.0004	.0434	.7515	.0000
#3	.0051	.5113	.0045	.0071	.0455	.7882	.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	.0029	.0148	-.0002	.0063	.3461	7.560	S3500.
SDev	.0007	.0003	.0011	.0031	.0186	.073	1.
%RSD	25.98	2.219	724.4	49.17	5.390	.9593	.0169

#1	.0033	.0147	.0005	.0027	.3573	7.535	S3500.
#2	.0020	.0145	.0005	.0081	.3246	7.504	S3499.
#3	.0033	.0151	-.0014	.0081	.3564	7.642	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0234	.0002	.5284	.0006	.1844
SDev	.0005	.0017	.3165	.0023	.0026
%RSD	1.968	920.9	59.90	402.9	1.387

#1	.0232	.0015	.6994	.0033	.1826
#2	.0232	-.0017	.7227	-.0009	.1833
#3	.0240	.0008	.1632	-.0006	.1873

Method: ICAP3 Sample Name: XX, JM3192 CLJCSS21 Operator: SBB
 Run Time: 02/18/94 18:02:30
 Comment: JM3192M, N7M3793, 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	.0018	.6353	-.0005	-.0011	-.0001	-.0090	.0037
SDev	.0071	.0032	.0007	.0022	.0106	.0178	.0049

%RSD	403.7	.5093	149.3	191.8	10180.	198.7	131.8
#1	-.0058	.6321	-.0006	-.0016	.0009	.0112	.0089
#2	.0029	.6386	-.0010	-.0031	-.0112	-.0224	-.0009
#3	.0082	.6354	.0003	.0012	.0099	-.0157	.0033
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0063	.3801	.0023	.0043	.0828	.7090	-.0000
SDev	.0055	.0020	.0017	.0156	.0046	.0697	.0000
%RSD	87.67	.5339	74.55	362.4	5.569	9.825	139.4
#1	.0102	.3819	.0035	.0062	.0856	.7606	-.0000
#2	.0000	.3805	.0003	-.0122	.0774	.6298	.0000
#3	.0085	.3779	.0031	.0189	.0852	.7365	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0023	.0106	.0000	.0180	.1123	3.759	S3499.
SDev	.0025	.0007	.0032	.0506	.0306	.009	.
%RSD	108.3	6.216	34550.	281.0	27.21	.2338	.0013
#1	.0037	.0113	-.0005	.0486	.1411	3.752	S3499.
#2	-.0006	.0100	-.0029	-.0404	.0802	3.769	S3500.
#3	.0037	.0104	.0034	.0458	.1158	3.756	S3499.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avg	.0208	.0026	.4740	.0020	.2027		
SDev	.0000	.0027	.2393	.0028	.0004		
%RSD	.0000	100.7	50.47	144.2	.2099		
#1	.0208	.0046	.5362	.0040	.2032		
#2	.0208	-.0004	.2098	-.0013	.2026		
#3	.0208	.0037	.6761	.0032	.2023		

Method: ICAP3 Sample Name: TCLP BLK Operator: SBB
 Run Time: 02/18/94 18:06:01
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	-.0149	.1783	-.0001	-.0032	.0019	-.0266	-.0019
SDev	.0112	.0015	.0004	.0017	.0053	.0041	.0077
%RSD	74.95	.8342	522.7	52.26	284.8	15.46	412.9
#1	-.0093	.1800	.0004	-.0038	-.0036	-.0281	.0033
#2	-.0278	.1772	-.0004	-.0044	.0022	-.0297	-.0108
#3	-.0076	.1776	-.0002	-.0013	.0070	-.0219	.0019
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.0028	.1058	-.0007	.0032	.0061	.0428	.0000
SDev	.0047	.0004	.0009	.0066	.0020	.0257	.0002
%RSD	165.2	.3359	129.9	207.9	32.79	60.14	452.0

#1	.0026	.1062	-.0018	.0008	.0071	.0672	-.0000
#2	-.0017	.1058	-.0001	-.0019	.0038	.0159	-.0001
#3	.0077	.1055	-.0003	.0106	.0075	.0452	.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	.0000	-.0001	-.0027	.0046	.0225	.1669	1.340
SDev	.0013	.0005	.0022	.0255	.0165	.0044	.148
%RSD	4493e6	709.1	81.57	555.8	73.64	2.644	11.07

#1	.0003	.0001	-.0015	.0244	.0334	.1711	1.511
#2	-.0014	-.0006	-.0053	-.0241	.0034	.1623	1.257
#3	.0011	.0003	-.0015	.0135	.0306	.1671	1.252

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0039	-.0011	-.0389	-.0002	.1337		
SDev	.0008	.0029	.5199	.0030	.0014		
%RSD	21.53	253.3	1338.	1321.	1.049		

#1	.0036	.0006	.1632	.0012	.1335		
#2	.0032	-.0044	-.6295	-.0037	.1324		
#3	.0048	.0005	.3497	.0019	.1352		

Method: ICAP3 Sample Name: LD, JM3188 X5
 Run Time: 02/18/94 18:09:34
 Comment: JM3188ML, N7M3793, L, A5, 50, 50, 5
 Mode: CONC Corr. Factor: 1

Operator: SBB

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0152	.0858	.0007	-.0007	.0384	-.0040	-.0056
SDev	.0097	.0012	.0006	.0018	.0120	.0268	.0111
%RSD	63.57	1.351	89.59	270.5	31.28	678.1	197.6

#1	-.0146	.0870	.0004	.0008	.0521	.0257	.0040
#2	-.0251	.0846	.0014	-.0027	.0299	-.0265	-.0178
#3	-.0058	.0859	.0002	-.0001	.0331	-.0110	-.0031

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	1.174	.0009	-.0062	.0371	.3358	.0000
SDev	.0066	.005	.0056	.0101	.0035	.0520	.0000
%RSD	466.0	.4043	611.2	163.2	9.507	15.50	170.2

#1	.0068	1.179	.0074	.0008	.0402	.3823	-.0000
#2	-.0060	1.170	-.0022	-.0178	.0333	.2796	.0000
#3	.0034	1.173	-.0025	-.0016	.0378	.3455	.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	.0043	.0502	.0000	.0045	.0814	.7605	290.5
SDev	.0027	.0008	.0013	.0420	.0362	.0046	.9
%RSD	64.29	1.618	18160.	940.2	44.43	.6103	.3095

#1	.0063	.0512	.0010	.0485	.1064	.7659	291.3
#2	.0011	.0499	-.0014	-.0351	.0399	.7575	290.5
#3	.0054	.0497	.0005	-.0001	.0980	.7583	289.5

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0144	-.0013	.0855	-.0032	.1351		
SDev	.0000	.0040	.4600	.0054	.0097		
%RSD	.0000	297.8	538.1	171.8	7.203		

#1	.0144	.0006	.3963	.0022	.1369		
#2	.0144	-.0059	-.4430	-.0086	.1438		
#3	.0144	.0013	.3031	-.0030	.1246		

Method: ICAP3 Sample Name: AS,JM3188,0770 9:1PS Operator: SBB
 Run Time: 02/18/94 18:13:12
 Comment: JM3188MP,N7M3793,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	4.879	9.993	.9747	4.966	4.934	.9826	.0955
SDev	.043	.120	.0072	.054	.052	.0084	.0069
%RSD	.8788	1.205	.7394	1.084	1.063	.8569	7.235

#1	4.878	9.966	.9697	4.948	4.896	.9767	.1032
#2	4.922	10.12	.9830	5.026	4.994	.9922	.0899
#3	4.836	9.888	.9715	4.923	4.912	.9788	.0934

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.971	9.903	4.851	4.752	.1854	1.457	.9526
SDev	.057	.103	.049	.051	.0021	.029	.0114
%RSD	1.144	1.040	1.010	1.079	1.130	1.971	1.196

#1	4.961	9.879	4.848	4.730	.1862	1.479	.9491
#2	5.032	10.02	4.901	4.811	.1870	1.466	.9653
#3	4.920	9.815	4.803	4.715	.1830	1.424	.9434

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0253	1.232	.9863	.9092	.2465	2.819	S3504.
SDev	.0009	.008	.0097	.0184	.0030	.031	.
%RSD	3.528	.6410	.9874	2.019	1.221	1.116	.0057

#1	.0260	1.232	.9812	.9254	.2487	2.809	S3504.
#2	.0243	1.239	.9975	.9131	.2431	2.854	S3504.
#3	.0255	1.223	.9802	.8893	.2478	2.794	S3504.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0293	.9624	.2798	.9715	.2499		
SDev	.0005	.0106	.3031	.0093	.0037		
%RSD	1.575	1.097	108.3	.9552	1.465		

#1	.0288	.9605	.6295	.9739	.2521		
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#2	.0296	.9737	.0933	.9794	.2519
#3	.0296	.9529	.1166	.9613	.2457

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
 Run Time: 02/18/94 18:16:15
 Comment: IB,N7M3793
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Sel960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.266	4.731	1.244	.4701	2.355	2.339	.6041
SDev	.039	.034	.008	.0029	.025	.037	.0064
%RSD	1.718	.7160	.6220	.6197	1.047	1.568	1.053

#1	2.260	4.728	1.248	.4702	2.375	2.354	.6101
#2	2.230	4.698	1.235	.4671	2.327	2.297	.5975
#3	2.307	4.766	1.248	.4729	2.362	2.366	.6046

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	.6163	1.207	1.262	2.287	2.341	4.732	.1205
SDev	.0084	.009	.013	.026	.015	.069	.0009
%RSD	1.366	.7043	1.014	1.151	.6478	1.460	.7730

#1	.6203	1.206	1.274	2.281	2.343	4.778	.1205
#2	.6066	1.200	1.248	2.264	2.325	4.653	.1195
#3	.6220	1.217	1.264	2.316	2.355	4.766	.1213

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	2.383	1.309	.1186	2.303	11.96	11.79	12.16
SDev	.016	.011	.0027	.038	.13	.10	.12
%RSD	.6918	.8712	2.271	1.649	1.064	.8184	.9935

#1	2.384	1.312	.1181	2.328	11.98	11.80	12.24
#2	2.367	1.296	.1162	2.259	11.82	11.69	12.02
#3	2.400	1.318	.1215	2.322	12.07	11.88	12.22

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	1.296	1.240	11.89	2.370	1.139
SDev	.008	.010	.32	.018	.011
%RSD	.6336	.8440	2.653	.7447	1.009

#1	1.296	1.242	12.19	2.371	1.139
#2	1.288	1.228	11.56	2.352	1.128
#3	1.305	1.249	11.91	2.388	1.150
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: SEB
 Run Time: 02/18/94 18:19:28
 Comment: ID,N7M3793
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0000	.0015	.0004	-.0027	-.0014	-.0231	.0007
SDev	.0027	.0004	.0009	.0003	.0083	.0212	.0051
%RSD	39690.	29.26	266.3	11.35	576.9	91.88	722.8

#1	-.0023	.0020	.0014	-.0031	.0076	-.0421	.0033
#2	.0029	.0015	-.0003	-.0026	-.0030	-.0002	-.0052
#3	-.0006	.0011	-.0000	-.0025	-.0089	-.0271	.0040

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	-.0001	.0010	.0076	.0027	.0325	-.0000
SDev	.0036	.0005	.0033	.0052	.0019	.0104	.0000
%RSD	124.9	424.8	320.4	68.24	69.46	31.90	360.0

#1	.0017	-.0006	.0048	.0073	.0038	.0205	-.0000
#2	.0068	-.0002	-.0004	.0130	.0038	.0381	.0000
#3	.0000	.0005	-.0013	.0026	.0005	.0388	-.0000

Elem	Ti3349	Mn2576	Mb2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0007	.0005	-.0005	.0131	.0072	.0040	.1310
SDev	.0013	.0002	.0005	.0034	.0009	.0030	.0205
%RSD	180.0	40.00	100.9	26.14	13.04	75.72	15.64

#1	.0007	.0003	.0000	.0163	.0062	.0053	.1501
#2	.0020	.0005	-.0010	.0095	.0072	.0061	.1337
#3	-.0006	.0008	-.0005	.0136	.0081	.0005	.1093

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0004	.1399	.0009	-.0022
SDev	.0005	.0020	.2865	.0034	.0024
%RSD	173.2	503.0	204.8	369.6	106.3

#1	.0008	.0007	.4663	.0026	.0001
#2	.0000	.0022	.0233	-.0030	-.0046
#3	.0000	-.0017	-.0699	.0033	-.0021

Method: ICAP3 Sample Name: CRI,0784 Operator: SEB

Run Time: 02/18/94 18:22:51
 Comment: IL,N7M3793
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.2020	.4087	.0106	.0166	.1463	.1897	.0183
SDev	.0103	.0037	.0003	.0004	.0080	.0080	.0085
%RSD	5.123	.8973	2.605	2.691	5.466	4.235	46.59
#1	.1994	.4067	.0109	.0166	.1478	.1892	.0232
#2	.1932	.4065	.0105	.0162	.1377	.1819	Q.0084
#3	.2134	.4129	.0104	.0171	.1535	.1980	.0232
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
Avg	.1080	.0412	.0825	.2129	.2203	.4606	.0101
SDev	.0010	.0013	.0023	.0083	.0017	.0353	.0001
%RSD	.9117	3.091	2.781	3.907	.7730	7.673	.7628
#1	.1074	.0414	.0850	.2036	.2190	.4298	.0100
#2	.1074	.0398	.0806	.2198	.2198	.4528	.0100
#3	.1091	.0424	.0818	.2152	.2222	.4992	.0102
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
Avg	.0006	.0271	.0184	.1246	2.014	10.16	10.41
SDev	.0005	.0013	.0022	.0094	.022	.11	.09
%RSD	86.60	4.774	12.11	7.557	1.099	1.051	.8788
#1	.0003	.0259	.0165	.1152	1.994	10.10	10.34
#2	.0011	.0284	.0209	.1245	2.012	10.09	10.38
#3	.0003	.0269	.0179	Q.1340	2.038	10.28	10.51
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		
Avg	.0013	.0516	9.800	.1039	Q.0839		
SDev	.0005	.0010	.350	.0031	.0025		
%RSD	34.64	1.910	3.571	2.934	2.934		
#1	.0016	.0508	10.00	.1060	Q.0827		
#2	.0008	.0527	10.00	.1004	Q.0823		
#3	.0016	.0513	9.395	.1053	Q.0867		
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: 02/18/94 18:26:12
 Comment: IF,N7M3793
 Mode: CCNC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avgc	-.0042	.0019	-.0104	-.0082	.0060	-.0240	-.0033
SDev	.0211	.0011	.0015	.0020	.0124	.0101	.0016
%RSD	508.3	56.79	14.78	24.75	207.6	42.09	49.49

#1	-.0177	.0026	-.0106	-.0083	.0025	-.0124	-.0051
#2	-.0150	.0007	-.0119	-.0101	-.0043	-.0286	-.0023
#3	.0202	.0025	-.0088	-.0061	.0198	-.0309	-.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
Avgc	.0028	.0174	-.0090	.0119	176.0	481.9	-.0000
SDev	.0013	.0018	.0011	.0100	1.1	3.9	.0001
%RSD	45.78	10.42	12.70	84.43	.6373	.8087	6850.

#1	.0043	.0193	-.0097	.0211	176.9	484.7	.0001
#2	.0017	.0157	-.0077	.0133	176.3	483.7	-.0000
#3	.0026	.0172	-.0097	.0012	174.7	477.5	-.0001

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
Avgc	-.0033	-.0015	-.0011	.0436	236.9	182.7	.4304
SDev	.0011	.0002	.0048	.0253	1.3	1.0	.0234
%RSD	32.83	16.89	429.6	58.04	.5446	.5519	5.435

#1	-.0023	-.0012	.0043	.0600	238.2	183.6	.4365
#2	-.0031	-.0016	-.0050	.0145	236.8	182.9	.4046
#3	-.0044	-.0016	-.0027	.0564	235.6	181.6	.4502

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
Avgc	.0075	-.0047	.1166	.0020	.4412
SDev	.0002	.0025	.3894	.0011	.0024
%RSD	3.093	52.86	334.1	53.33	.5385

#1	.0076	-.0025	.5362	.0010	.4432
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#2	.0072	-.0073	-.2331	.0032	.4419
#3	.0076	-.0042	.0466	.0019	.4386
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value					
Range					

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
 Run Time: 02/18/94 18:29:27
 Comment: IG,N7M3793
 Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.9239	.4654	.8644	.4417	.8793	.8778	.9132
SDev	.0374	.0060	.0078	.0056	.0146	.0246	.0054
%RSD	4.043	1.300	.9008	1.279	1.660	2.799	.5884
#1	.9653	.4720	.8733	.4477	.8684	.8871	.9179
#2	.9138	.4602	.8588	.4410	.8959	.8963	.9074
#3	.8927	.4639	.8611	.4365	.8738	.8499	.9144
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.4642	.9008	.8666	.8512	170.8	473.2	.4537
SDev	.0034	.0029	.0077	.0254	1.7	5.7	.0051
%RSD	.7424	.3224	.8937	2.986	.9794	1.207	1.132
#1	.4673	.9027	.8755	.8803	172.6	479.3	.4593
#2	.4605	.8975	.8629	.8338	169.4	468.0	.4492
#3	.4648	.9023	.8613	.8394	170.2	472.3	.4527
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avg	.8988	.4552	.9052	.9101	480.3	221.5	Q2.013
SDev	.0105	.0059	.0139	.0518	4.2	2.0	.051
%RSD	1.164	1.301	1.531	5.692	.8802	.9163	2.539
#1	.9102	.4617	.9211	.9669	485.2	223.8	Q1.974
#2	.8896	.4503	.8989	.8655	477.4	219.9	Q2.071
#3	.8965	.4535	.8956	.8978	478.3	220.8	Q1.994
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
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	.9428	.4244	Q1.080	.4404	Q1.659
SDev	.0124	.0024	.458	.0020	.020
%RSD	1.320	.5599	42.42	.4604	1.183
#1	.9559	.4267	Q.7927	.4426	Q1.681
#2	.9311	.4219	Q1.609	.4398	Q1.643
#3	.9415	.4244	Q.8393	.4387	Q1.652
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail
Value	.9516	.4323	.5666	.4458	1.083
Range	20.00	20.00	20.00	20.00	20.00

QC BATCH # N7M3774

Analyst: RJF

Date: 2/9/94

Method #: 3010

Notebook: _____

Reagent Codes:

HNO₃ G41050

H₂SO₄ _____

NH₂OH HCL _____

Spike Codes:

ICP _____ mL

HCl NX060312

KMNO₄ _____

NaCl _____

HGA _____ mL

H₂O₂ _____

K₂S₂O₈ _____

SnCl₂ _____

Stock Hg _____

DI _____

TCLP 0770 mL

ASC #	Job #	Sample ID	V ₁ /W ₁	V _f	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1	JM3169	15226N CLW0501					
2	3170	↓ N/A					
3	3171	↓ Q1B					
4	3172	CLW5501					
5	3173	02					
6	3174	03					
7	3175	04					
8	3176	05					
9	3177	06					
10	3178	↓ 07					
11	↓	↓	↓	↓			Replicate
12	TCLP	Blk	↓	↓			
13	/						
14	/						
15	/						
16	/						
17	/						
18	/						
19	/						
20	/						
MTX SPK	15226N	CLW6507	50	50			Binary Inertone 2-9-94
JM3178	↓	↓	↓	↓			
MTX SPK DUP							

Hg Standard	mL Stock	V _f	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____

Date _____

QC BATCH # N7M3793

0017

Analyst: RJF Date: 2/14/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO₃ G41050
 HCl NV06031Z
 H₂O₂ _____
 H₂SO₄ _____
 KMNO₄ _____
 K₂S₂O₈ _____

NH₂OH HCL _____
 NaCl _____
 SnCl₂ _____
 DI _____

Spike Codes:

ICP _____ mL _____
 HGA _____ mL _____
 Stock Hg _____
 TCLP 0.970 mL 5.0 mg

ASC #	Job #	Sample ID	V _i /W _i	V _f	F	Filtered	Comments
MTH BLK	—	3793 M	50	50			
MTH SPK	—	↓ MS					
1 JM3184	15226N	CLJ05513					
2 3185		14					
3 3186		15					
4 3187		16					
5 3188		17					
6 3189		18					
7 3190		19					
8 3191		20					
9 3192		21					
10 3193	↓	↓ 22					
11 ↓	↓	↓					
12 —	TCLP	Blank	↓	↓			Replicate
13							
14							
15							
16							
17							
18							
19							
20							
MTX SPK	15226N	CLJ05522	50	50			Remedy Zone tone 2-14-94
JM3193	↓	↓	↓	↓			
MTX SPK DUP	↓	↓	↓	↓			

Hg Standard	mL Stock	V _f	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____

Date _____

QC BATCH # N7M3776

0014

Analyst: RUF Date: 2/9/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO₃ S41050

HCl NX060372

H₂O₂ _____

H₂SO₄ _____

KMNO₄ _____

K₂S₂O₈ _____

NH₂OH HCL _____

NaCl _____

SnCl₂ _____

DI _____

Spike Codes:

ICP _____ mL _____

HGA _____ mL _____

Stock Hg _____

TCLP 0770 mL 5.0

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1	UM 3179	15226N CWSS05					
2	3180		09				
3	3181		10				
4	3182		11				
5	3183		12				
6	3184		13				
7	3185		14				
8	3186		15				
9	3187		16				
10	3188		17				
11	3189	✓	18				
12	3183	✓	12	✓			Replicate
13							
14							
15							
16							
17							
18							
19							
20							
MTX SPK	15226N	CWSS05	50	50			Replicate for reference 2-9-94
JM 3189	✓		12				
MTX SPK DUP	✓	✓		✓			
1M3183							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					See prev. Batch for (N74377)
#2					TCLP Blanking
#3					Samples marked out
#4					were not yet tumbled.
#5					

Water Bath Temp: _____

 Element File: KAS.GEL Element: As Wavelength: 193.7
 Date: 02/18/94 Time: 08:30 Slit: 0.70 L
 Data File: AL021894.DAT ID/Wt File: AL021794.IDW
 Technique: HGA Calib. Type: Linear Energy: 50

As ID: cal blk Seq. No.: 00004 A/S Pos.: 0 Date: 02/18/94

As ID: Std #1 1N-0781 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

Standard number 1 applied. [5.000]
 Correlation coefficient: 1.00000 Slope: 0.0026 Int: 0.000

As ID: Std #2 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

Standard number 2 applied. [10.000]
 Correlation coefficient: 0.99807 Slope: 0.0023 Int: 0.000

As ID: Std #3 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

Standard number 3 applied. [20.000]
 Correlation coefficient: 0.99946 Slope: 0.0023 Int: 0.001

As ID: Std #4 Seq. No.: 00008 A/S Pos.: 40 Date: 02/18/94

Standard number 4 applied. [30.000]
 Correlation coefficient: 0.99921 Slope: 0.0022 Int: 0.001

As ID: Std #5 Seq. No.: 00009 A/S Pos.: 40 Date: 02/18/94

Standard number 5 applied. [40.000]
 Correlation coefficient: 0.99961 Slope: 0.0022 Int: 0.001

As ID: Std #6 Seq. No.: 00010 A/S Pos.: 40 Date: 02/18/94

Standard number 6 applied. [50.000]
 Correlation coefficient: 0.99977 Slope: 0.0022 Int: 0.001

As ID: 1CV-0788 Seq. No.: 00011 A/S Pos.: 37 Date: 02/18/94

As ID: 1CB Seq. No.: 00012 A/S Pos.: 0 Date: 02/18/94

As ID: CRA-0789 Seq. No.: 00013 A/S Pos.: 36 Date: 02/18/94

As ID: PBL-N7R3773 Seq. No.: 00014 A/S Pos.: 1 Date: 02/18/94

	ID: PBL-N7R3773	Seq. No. : 00015	A/S Pos. : 1	Date: 02/18/94
As	ID: LC SL-N7R3773	Seq. No. : 00016	A/S Pos. : 2	Date: 02/18/94
As	ID: LC SL-N7R3773	Seq. No. : 00017	A/S Pos. : 2	Date: 02/18/94
As	ID: 7SM-JM3178 MTXS	Seq. No. : 00018	A/S Pos. : 3	Date: 02/18/94
As	ID: 7SD-JM3178 MTXR	Seq. No. : 00019	A/S Pos. : 4	Date: 02/18/94
As	ID: 7XX-JM3178 SS07	Seq. No. : 00020	A/S Pos. : 5	Date: 02/18/94
As	ID: 7XX-JM3178 SS07	Seq. No. : 00021	A/S Pos. : 5	Date: 02/18/94
As	ID: 7XX-JM3178 DUP	Seq. No. : 00022	A/S Pos. : 6	Date: 02/18/94
As	ID: 7XX-JM3178 DUP	Seq. No. : 00023	A/S Pos. : 6	Date: 02/18/94
As	ID: CCV-0787	Seq. No. : 00024	A/S Pos. : 38	Date: 02/18/94
As	ID: CCB	Seq. No. : 00025	A/S Pos. : 0	Date: 02/18/94
As	ID: 7XX-JM3169 DS01	Seq. No. : 00026	A/S Pos. : 7	Date: 02/18/94
As	ID: 7XX-JM3169 DS01	Seq. No. : 00027	A/S Pos. : 7	Date: 02/18/94
As	ID: 7XX-JM3170 01A	Seq. No. : 00028	A/S Pos. : 8	Date: 02/18/94
As	ID: 7XX-JM3170 01A	Seq. No. : 00029	A/S Pos. : 8	Date: 02/18/94
As	ID: 7XX-JM3171 01B	Seq. No. : 00030	A/S Pos. : 9	Date: 02/18/94
As	ID: 7XX-JM3171 01B	Seq. No. : 00031	A/S Pos. : 9	Date: 02/18/94
	ID: 7XX-JM3172 SS01	Seq. No. : 00032	A/S Pos. : 10	Date: 02/18/94

ID: 7XX-JM3172 SS01 Seq. No. : 00033 A/S Pos. : 10 Date: 02/18/94

AS ID: 7XX-JM3173 SS02 Seq. No. : 00034 A/S Pos. : 11 Date: 02/18/94

AS ID: 7XX-JM3173 SS02 Seq. No. : 00035 A/S Pos. : 11 Date: 02/18/94

AS ID: CCV-0787 Seq. No. : 00036 A/S Pos. : 38 Date: 02/18/94

AS ID: CCB Seq. No. : 00037 A/S Pos. : 0 Date: 02/18/94

AS ID: 7XX-JM3174 SS03 Seq. No. : 00038 A/S Pos. : 12 Date: 02/18/94

AS ID: 7XX-JM3174 SS03 Seq. No. : 00039 A/S Pos. : 12 Date: 02/18/94

AS ID: CCV-0787 Seq. No. : 00040 A/S Pos. : 38 Date: 02/18/94

AS ID: CCB Seq. No. : 00041 A/S Pos. : 0 Date: 02/18/94

ID: 7XX-JM3174 SS03 Seq. No. : 00042 A/S Pos. : 12 Date: 02/18/94

AS ID: 7XX-JM3174 SS03 Seq. No. : 00043 A/S Pos. : 12 Date: 02/18/94

AS ID: 7XX-JM3175 SS04 Seq. No. : 00044 A/S Pos. : 13 Date: 02/18/94

AS ID: 7XX-JM3175 SS04 Seq. No. : 00045 A/S Pos. : 13 Date: 02/18/94

AS ID: 7XX-JM3176 SS05 Seq. No. : 00046 A/S Pos. : 14 Date: 02/18/94

AS ID: 7XX-JM3176 SS05 Seq. No. : 00047 A/S Pos. : 14 Date: 02/18/94

AS ID: 7XX-JM3177 SS06 Seq. No. : 00048 A/S Pos. : 15 Date: 02/18/94

AS ID: 7XX-JM3177 SS06 Seq. No. : 00049 A/S Pos. : 15 Date: 02/18/94

ID: TCLP BLK 3773 Seq. No. : 00050 A/S Pos. : 16 Date: 02/18/94

AS ID: TCLP BLK 3773 Seq. No. : 00051 A/S Pos. : 16 Date: 02/18/94

ID: CCV-0787	Seq. No. : 00052	A/S Pos. : 38	Date: 02/18/94
AS ID: CCB	Seq. No. : 00053	A/S Pos. : 0	Date: 02/18/94
AS ID: PBK-N7R3777	Seq. No. : 00054	A/S Pos. : 17	Date: 02/18/94
AS ID: PBK-N7R3777	Seq. No. : 00055	A/S Pos. : 17	Date: 02/18/94
AS ID: LCSK-N7R3777	Seq. No. : 00056	A/S Pos. : 18	Date: 02/18/94
AS ID: LCSK-N7R3777	Seq. No. : 00057	A/S Pos. : 18	Date: 02/18/94
AS ID: 7SM-JM3183 MTXS	Seq. No. : 00058	A/S Pos. : 19	Date: 02/18/94
AS ID: 7SD-JM3183 MTXR	Seq. No. : 00059	A/S Pos. : 20	Date: 02/18/94
AS ID: 7XX-JM3183 SS12	Seq. No. : 00060	A/S Pos. : 21	Date: 02/18/94
AS ID: 7XX-JM3183 SS12	Seq. No. : 00061	A/S Pos. : 21	Date: 02/18/94
AS ID: 7XX-JM3183 DUP	Seq. No. : 00062	A/S Pos. : 22	Date: 02/18/94
AS ID: 7XX-JM3183 DUP	Seq. No. : 00063	A/S Pos. : 22	Date: 02/18/94
AS ID: CCV-0787	Seq. No. : 00064	A/S Pos. : 38	Date: 02/18/94
AS ID: CCB	Seq. No. : 00065	A/S Pos. : 0	Date: 02/18/94
AS ID: 7XX-JM3179 SS08	Seq. No. : 00066	A/S Pos. : 23	Date: 02/18/94
AS ID: 7XX-JM3179 SS08	Seq. No. : 00067	A/S Pos. : 23	Date: 02/18/94
AS ID: 7XX-JM3180 SS09	Seq. No. : 00068	A/S Pos. : 24	Date: 02/18/94
ID: 7XX-JM3180 SS09	Seq. No. : 00069	A/S Pos. : 24	Date: 02/18/94

As ID: 7XX-JM3181 SS10 Seq. No.: 00070 A/S Pos.: 25 Date: 02/18/94

As ID: 7XX-JM3181 SS10 Seq. No.: 00071 A/S Pos.: 25 Date: 02/18/94

As ID: 7XX-JM3182 SS11 Seq. No.: 00072 A/S Pos.: 26 Date: 02/18/94

As ID: 7XX-JM3182 SS11 Seq. No.: 00073 A/S Pos.: 26 Date: 02/18/94

As ID: CCV-0787 Seq. No.: 00074 A/S Pos.: 38 Date: 02/18/94

As ID: CCB Seq. No.: 00075 A/S Pos.: 0 Date: 02/18/94

As ID: CRA-0789 Seq. No.: 00076 A/S Pos.: 36 Date: 02/18/94

Element File: KAS.GEL

Element: As

Wavelength: 193.7

Date: 02/18/94

Time: 17:20

Slit: 0.70 L

Data File: AL021894.DAT

ID/Wt. File: AL021794.IDW

Technique: HGA

Calib. Type: Linear

Energy: 51

ID: PBL-N7R3791 Seq. No.: 00077 A/S Pos.: 1 Date: 02/18/94

As ID: PBL-N7R3791 Seq. No.: 00078 A/S Pos.: 1 Date: 02/18/94

As ID: LCSL-N7R3791 Seq. No.: 00079 A/S Pos.: 2 Date: 02/18/94

As ID: LCSL-N7R3791 Seq. No.: 00080 A/S Pos.: 2 Date: 02/18/94

As ID: 7SM-JM3193 MTXS Seq. No.: 00081 A/S Pos.: 3 Date: 02/18/94

As ID: CCV-0787 Seq. No.: 00082 A/S Pos.: 38 Date: 02/18/94

As ID: CCB Seq. No.: 00083 A/S Pos.: 0 Date: 02/18/94

As ID: 7SD-JM3193 MTXR Seq. No.: 00084 A/S Pos.: 4 Date: 02/18/94

As ID: 7XX-JM3193 SS22 Seq. No.: 00085 A/S Pos.: 5 Date: 02/18/94

As ID: 7XX-JM3193 SS22 Seq. No.: 00086 A/S Pos.: 5 Date: 02/18/94

ID: 7XX-JM3193 DUP	Seq. No. : 00087	A/S Pos. : 6	Date: 02/18/94
As ID: 7XX-JM3193 DUP	Seq. No. : 00088	A/S Pos. : 6	Date: 02/18/94
As ID: 7XX-JM3184 SS13	Seq. No. : 00089	A/S Pos. : 7	Date: 02/18/94
As ID: 7XX-JM3184 SS13	Seq. No. : 00090	A/S Pos. : 7	Date: 02/18/94
As ID: 7XX-JM3185 SS14	Seq. No. : 00091	A/S Pos. : 8	Date: 02/18/94
As ID: 7XX-JM3185 SS14	Seq. No. : 00092	A/S Pos. : 8	Date: 02/18/94
As ID: 7XX-JM3186 SS15	Seq. No. : 00093	A/S Pos. : 9	Date: 02/18/94
As ID: 7XX-JM3186 SS15	Seq. No. : 00094	A/S Pos. : 9	Date: 02/18/94
As ID: CCV-0787	Seq. No. : 00095	A/S Pos. : 38	Date: 02/18/94
As ID: CCB	Seq. No. : 00095	A/S Pos. : 0	Date: 02/18/94
As ID: 7XX-JM3187 SS16	Seq. No. : 00097	A/S Pos. : 10	Date: 02/18/94
As ID: 7XX-JM3187 SS16	Seq. No. : 00098	A/S Pos. : 10	Date: 02/18/94
As ID: 7XX-JM3187 SS16	Seq. No. : 00099	A/S Pos. : 10	Date: 02/18/94
As ID: 7XX-JM3188 SS17	Seq. No. : 00100	A/S Pos. : 11	Date: 02/18/94
As ID: 7XX-JM3188 SS17	Seq. No. : 00101	A/S Pos. : 11	Date: 02/18/94
As ID: 7XX-JM3189 SS18	Seq. No. : 00102	A/S Pos. : 12	Date: 02/18/94
As ID: 7XX-JM3189 SS18	Seq. No. : 00103	A/S Pos. : 12	Date: 02/18/94
As ID: 7XX-JM3190 SS19	Seq. No. : 00104	A/S Pos. : 13	Date: 02/18/94

AS	ID: 7XX-JM3190 SS19	Seq. No.: 00105	A/S Pos.: 13	Date: 02/18/94
AS	ID: 7XX-JM3191 SS20	Seq. No.: 00106	A/S Pos.: 14	Date: 02/18/94
AS	ID: 7XX-JM3191 SS20	Seq. No.: 00107	A/S Pos.: 14	Date: 02/18/94
AS	ID: CCV-0787	Seq. No.: 00108	A/S Pos.: 38	Date: 02/18/94
AS	ID: CCB	Seq. No.: 00109	A/S Pos.: 0	Date: 02/18/94
AS	ID: 7XX-JM3192 SS21	Seq. No.: 00110	A/S Pos.: 15	Date: 02/18/94
AS	ID: 7XX-JM3192 SS21	Seq. No.: 00111	A/S Pos.: 15	Date: 02/18/94
AS	ID: TCLP BLK 3791	Seq. No.: 00112	A/S Pos.: 16	Date: 02/18/94
AS	ID: TCLP BLK 3791	Seq. No.: 00113	A/S Pos.: 16	Date: 02/18/94
AS	ID: CCV-0787	Seq. No.: 00114	A/S Pos.: 38	Date: 02/18/94
AS	ID: CCB	Seq. No.: 00115	A/S Pos.: 0	Date: 02/18/94
AS	ID: CCB	Seq. No.: 00116	A/S Pos.: 0	Date: 02/18/94
AS	ID: CRA-0789	Seq. No.: 00117	A/S Pos.: 36	Date: 02/18/94

Experiment File: KAS.GEL Element: As Wavelength: 193.7
Date: 02/19/94 Time: 07:28 Slit: 0.70 L
Data File: AL021994.DAT ID/Wt File: AL021994.1DW
Technique: HGA Calib. Type: Linear Energy: 51

As ID: cal blk Seq. No.: 00001 A/S Pos.: 0 Date: 02/19/94

As ID: cal blk Seq. No.: 00002 A/S Pos.: 0 Date: 02/19/94

As ID: Std #1 IN-0781 Seq. No.: 00003 A/S Pos.: 40 Date: 02/19/94

Standard number 1 applied. [5.000]
Correlation coefficient: 1.00000 Slope: 0.0031 Int: 0.000

As ID: Std #2 Seq. No.: 00004 A/S Pos.: 40 Date: 02/19/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99438 Slope: 0.0026 Int: 0.001

As ID: Std #3 Seq. No.: 00005 A/S Pos.: 40 Date: 02/19/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99337 Slope: 0.0022 Int: 0.002

As ID: Std #4 Seq. No.: 00006 A/S Pos.: 40 Date: 02/19/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99531 Slope: 0.0021 Int: 0.003

As ID: Std #5 Seq. No.: 00007 A/S Pos.: 40 Date: 02/19/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99739 Slope: 0.0020 Int: 0.004

As ID: Std #6 Seq. No.: 00008 A/S Pos.: 40 Date: 02/19/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99851 Slope: 0.0020 Int: 0.004

As ID: ICV-0788 Seq. No.: 00009 A/S Pos.: 37 Date: 02/19/94

As ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 02/19/94

As ID: CRA-0789 Seq. No.: 00011 A/S Pos.: 36 Date: 02/19/94

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|    |                     |                  |               |                |
|----|---------------------|------------------|---------------|----------------|
|    | ID: 7XX-JM3192 SS21 | Seq. No. : 00012 | A/S Pos. : 1  | Date: 02/19/94 |
| As | ID: 7XX-JM3192 SS21 | Seq. No. : 00013 | A/S Pos. : 1  | Date: 02/19/94 |
| As | ID: TCLP BLK 3791   | Seq. No. : 00014 | A/S Pos. : 2  | Date: 02/19/94 |
| As | ID: TCLP BLK 3791   | Seq. No. : 00015 | A/S Pos. : 2  | Date: 02/19/94 |
| As | ID: PBL-Q7R3809     | Seq. No. : 00016 | A/S Pos. : 3  | Date: 02/19/94 |
| As | ID: PBL-Q7R3809     | Seq. No. : 00017 | A/S Pos. : 3  | Date: 02/19/94 |
| As | ID: LC SL-Q7R3809   | Seq. No. : 00018 | A/S Pos. : 4  | Date: 02/19/94 |
| As | ID: LC SL-Q7R3809   | Seq. No. : 00019 | A/S Pos. : 4  | Date: 02/19/94 |
|    | ID: 7SM-JM3447 MTXS | Seq. No. : 00020 | A/S Pos. : 5  | Date: 02/19/94 |
| As | ID: 7SD-JM3447 MTXR | Seq. No. : 00021 | A/S Pos. : 6  | Date: 02/19/94 |
| As | ID: CCV-0787        | Seq. No. : 00022 | A/S Pos. : 38 | Date: 02/19/94 |
| As | ID: CCB             | Seq. No. : 00023 | A/S Pos. : 0  | Date: 02/19/94 |
| As | ID: 7XX-JM3447 CO-2 | Seq. No. : 00024 | A/S Pos. : 7  | Date: 02/19/94 |
| As | ID: 7XX-JM3447 CO-2 | Seq. No. : 00025 | A/S Pos. : 7  | Date: 02/19/94 |
| As | ID: TCLP BLK 3809   | Seq. No. : 00026 | A/S Pos. : 8  | Date: 02/19/94 |
| As | ID: TCLP BLK 3809   | Seq. No. : 00027 | A/S Pos. : 8  | Date: 02/19/94 |
| As | ID: PBW-Q1R3819     | Seq. No. : 00028 | A/S Pos. : 9  | Date: 02/19/94 |
|    | ID: PBW-Q1R3819     | Seq. No. : 00029 | A/S Pos. : 9  | Date: 02/19/94 |

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ID: PBW-Q1R3819 Seq. No. : 00030 A/S Pos. : 9 Date: 02/19/94

As ID: LCSW-Q1R3819 Seq. No. : 00031 A/S Pos. : 10 Date: 02/19/94

As ID: LCSW-Q1R3819 Seq. No. : 00032 A/S Pos. : 10 Date: 02/19/94

As ID: 1SM-JM3503 MTXS Seq. No. : 00033 A/S Pos. : 11 Date: 02/19/94

As ID: CCV-0787 Seq. No. : 00034 A/S Pos. : 38 Date: 02/19/94

As ID: CCV-0787 Seq. No. : 00035 A/S Pos. : 38 Date: 02/19/94

As ID: CCB Seq. No. : 00036 A/S Pos. : 0 Date: 02/19/94

As ID: 1SD-JM3503 MTXR Seq. No. : 00037 A/S Pos. : 12 Date: 02/19/94

As ID: 1XX-JM3503 EWEB Seq. No. : 00038 A/S Pos. : 13 Date: 02/19/94

As ID: 1XX-JM3503 EWEB Seq. No. : 00039 A/S Pos. : 13 Date: 02/19/94

As ID: 1XX-JM3503 DUP Seq. No. : 00040 A/S Pos. : 14 Date: 02/19/94

As ID: 1XX-JM3503 DUP Seq. No. : 00041 A/S Pos. : 14 Date: 02/19/94

As ID: PBS-Q2R3822 Seq. No. : 00042 A/S Pos. : 15 Date: 02/19/94

As ID: PBS-Q2R3822 Seq. No. : 00043 A/S Pos. : 15 Date: 02/19/94

As ID: LCSS-Q2R3822 Seq. No. : 00044 A/S Pos. : 16 Date: 02/19/94

As ID: LCSS-Q2R3822 Seq. No. : 00045 A/S Pos. : 16 Date: 02/19/94

As ID: 2SM-JM3502 MTXS Seq. No. : 00046 A/S Pos. : 17 Date: 02/19/94

As ID: CCV-0787 Seq. No. : 00047 A/S Pos. : 38 Date: 02/19/94

As ID: CCB Seq. No. : 00048 A/S Pos. : 0 Date: 02/19/94

ID: 25D-JM3502 MTXR Seq. No.: 00049 A/S Pos.: 18 Date: 02/19/94

As ID: 2XX-JM3502 SB3 Seq. No.: 00050 A/S Pos.: 19 Date: 02/19/94

As ID: 2XX-JM3502 SB3 Seq. No.: 00051 A/S Pos.: 19 Date: 02/19/94

As ID: 2XX-JM3502 DUP Seq. No.: 00052 A/S Pos.: 20 Date: 02/19/94

As ID: 2XX-JM3502 DUP Seq. No.: 00053 A/S Pos.: 20 Date: 02/19/94

As ID: 2XX-JM3500 SB1 Seq. No.: 00054 A/S Pos.: 21 Date: 02/19/94

As ID: 2XX-JM3500 SB1 Seq. No.: 00055 A/S Pos.: 21 Date: 02/19/94

As ID: 2XX-JM3501 SB2 Seq. No.: 00056 A/S Pos.: 22 Date: 02/19/94

ID: 2XX-JM3501 SB2 Seq. No.: 00057 A/S Pos.: 22 Date: 02/19/94

As ID: CCV-0787 Seq. No.: 00058 A/S Pos.: 38 Date: 02/19/94

As ID: CCB Seq. No.: 00059 A/S Pos.: 0 Date: 02/19/94

As ID: CRA-0789 Seq. No.: 00060 A/S Pos.: 36 Date: 02/19/94

Element File: RAS.GEL

Element: As

Int Data: Main+Suppl.

Int: Calib. Curve+Elem. Params.

Analyst: rls

Peak Storage: 1 Repl./Sample

INSTRUMENT: 4100 ZL
 Wavelength: 193.7 Peak
 Signal Type: Zeeman AA
 Read Time: 3.0
 Sample Replicates: 2
 Standard Replicates: 2

Technique: HGA Version: 7.20
 Slit: 0.70 Low
 Signal Measurement: Peak Area
 Read Delay: 0.0 BGC Time: 2
 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent	Modifier	
						#1	#2
Calib. Blank	cal blk	-----	0	20	5	5	
Standard 1	Std #1 IN-0781	5.00	40	2	23	5	
Standard 2	Std #2	10.00	40	4	21	5	
Standard 3	Std #3	20.00	40	8	17	5	
Standard 4	Std #4	30.00	40	12	13	5	
Standard 5	Std #5	40.00	40	16	9	5	
Standard 6	Std #6	50.00	40	20	5	5	
Samples	-----	-----	-----	20	5	5	

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

Trace 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

Recovery on Samples: 1-4, 7-11, 14-17, 20-23

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

#	A/S	QC Sample	Conc. Limits		After	Periodic	At	Count As
	Loc.	ID	Lower	Upper	Calib	Check	End	Sample
	37	ICV-0788	29.5	36.1	X			
	0	ICB			X			
	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

As ID: cal blk Seq. No.: 00001 A/S Pos.: 0 Date: 02/18/94

dispensed: 10 from 0, 5 from 39, 25 from 0

As ID: cal blk Seq. No.: 00002 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 10 from 0, 5 from 39, 25 from 0

As ID: cal blk Seq. No.: 00003 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

As ID: cal blk Seq. No.: 00004 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1

Time: 08:33

Peak Area (A-s): 0.003

Peak Height (A): 0.011

Background Pk Area (A-s): 0.019

Background Pk Height (A): 0.028

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L): 0.66

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 08:36

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.014

Background Pk Height (A): 0.021

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L): 0.03

Mean Conc (ug/L): 0.35

SD: 0.442

RSD(%): 127.69

Auto-zero performed.

As ID: Std #1 1N-0781 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 23 from 0, 5 from 39, 2 from 40

Replicate 1

Time: 08:39

Peak Area (A-s): 0.014

Peak Height (A): 0.042

Background Pk Area (A-s): 0.020

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.013

Concentration (ug/L): 3.81

uL dispensed: 23 from 0, 5 from 39, 2 from 40

Replicate 2 (Peak Stored)

Time: 08:43

Peak Area (A-s): 0.015

Peak Height (A): 0.044

Background Pk Area (A-s): 0.019

Background Pk Height (A): 0.026

Blank Corrected Pk Area (A-s): 0.013

Concentration (ug/L): 3.94

Mean Conc (ug/L): 3.87

SD: 0.093

RSD(%): 2.40

Standard number 1 applied. [5.00]

Correlation coefficient: 1.00000

Slope: 0.0026

Int: 0.000

As ID: Std #2 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 21 from 0, 5 from 39, 4 from 40

NO
INJECTION
5B
2-18-94

Replicate 1
 Peak Area (A-s): 0.024
 Background Pk Area (A-s): 0.020
 Blank Corrected Pk Area (A-s): 0.022
 Concentration (ug/L): 8.79

Time: 08:46
 Peak Height (A): 0.067
 Background Pk Height (A): 0.028

uL dispensed: 21 from 0, 5 from 39, 4 from 40

Replicate 2 (Peak Stored)
 Peak Area (A-s): 0.026
 Background Pk Area (A-s): 0.019
 Blank Corrected Pk Area (A-s): 0.024
 Concentration (ug/L): 9.27

Time: 08:50
 Peak Height (A): 0.073
 Background Pk Height (A): 0.025

Mean Conc (ug/L): 9.03 SD: 0.340 RSD(%): 3.76

Standard number 2 applied. [10.00]

Correlation coefficient: 0.99807 Slope: 0.0023 Int: 0.000

As ID: Std #3 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 17 from 0, 5 from 39, 8 from 40

Replicate 1
 Peak Area (A-s): 0.046
 Background Pk Area (A-s): 0.021
 Blank Corrected Pk Area (A-s): 0.044
 Concentration (ug/L): 19.07

Time: 08:53
 Peak Height (A): 0.128
 Background Pk Height (A): 0.031

uL dispensed: 17 from 0, 5 from 39, 8 from 40

Replicate 2 (Peak Stored)
 Peak Area (A-s): 0.049
 Background Pk Area (A-s): 0.020
 Blank Corrected Pk Area (A-s): 0.047
 Concentration (ug/L): 20.09

Time: 08:57
 Peak Height (A): 0.130
 Background Pk Height (A): 0.032

Mean Conc (ug/L): 19.58 SD: 0.723 RSD(%): 3.69

Standard number 3 applied. [20.00]

Correlation coefficient: 0.99946 Slope: 0.0023 Int: 0.001

As ID: Std #4 Seq. No.: 00008 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 13 from 0, 5 from 39, 12 from 40

Replicate 1
 Peak Area (A-s): 0.068
 Background Pk Area (A-s): 0.019
 Blank Corrected Pk Area (A-s): 0.066
 Concentration (ug/L): 29.01

Time: 09:00
 Peak Height (A): 0.167
 Background Pk Height (A): 0.030

uL dispensed: 13 from 0, 5 from 39, 12 from 40

Replicate 2 (Peak Stored)
 Peak Area (A-s): 0.066
 Background Pk Area (A-s): 0.022
 Blank Corrected Pk Area (A-s): 0.064
 Concentration (ug/L): 28.14

Time: 09:03
 Peak Height (A): 0.173
 Background Pk Height (A): 0.031

Mean Conc (ug/L): 28.58 SD: 0.615 RSD(%): 2.15

Standard number 4 applied. [30.00]

Correlation coefficient: 0.99921

Slope: 0.0022

Int: 0.001

ID: Std #5

Seq. No.: 00009

A/S Pos.: 40

Date: 02/18/94

uL dispensed: 9 from 0, 5 from 39, 16 from 40

Replicate 1

Time: 09:07

Peak Area (A-s): 0.090

Peak Height (A): 0.218

Background Pk Area (A-s): 0.022

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.089

Concentration (ug/L): 40.41

uL dispensed: 9 from 0, 5 from 39, 16 from 40

Replicate 2 (Peak Stored)

Time: 09:10

Peak Area (A-s): 0.089

Peak Height (A): 0.217

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.087

Concentration (ug/L): 39.84

Mean Conc (ug/L): 40.13

SD: 0.407

RSD(%): 1.01

Standard number 5 applied. [40.00]

Correlation coefficient: 0.99961

Slope: 0.0022

Int: 0.001

As ID: Std #6

Seq. No.: 00010

A/S Pos.: 40

Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 40

Replicate 1

Time: 09:14

Peak Area (A-s): 0.111

Peak Height (A): 0.260

Background Pk Area (A-s): 0.022

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.110

Concentration (ug/L): 50.05

uL dispensed: 5 from 0, 5 from 39, 20 from 40

Replicate 2 (Peak Stored)

Time: 09:17

Peak Area (A-s): 0.113

Peak Height (A): 0.251

Background Pk Area (A-s): 0.022

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.111

Concentration (ug/L): 50.66

Mean Conc (ug/L): 50.36

SD: 0.432

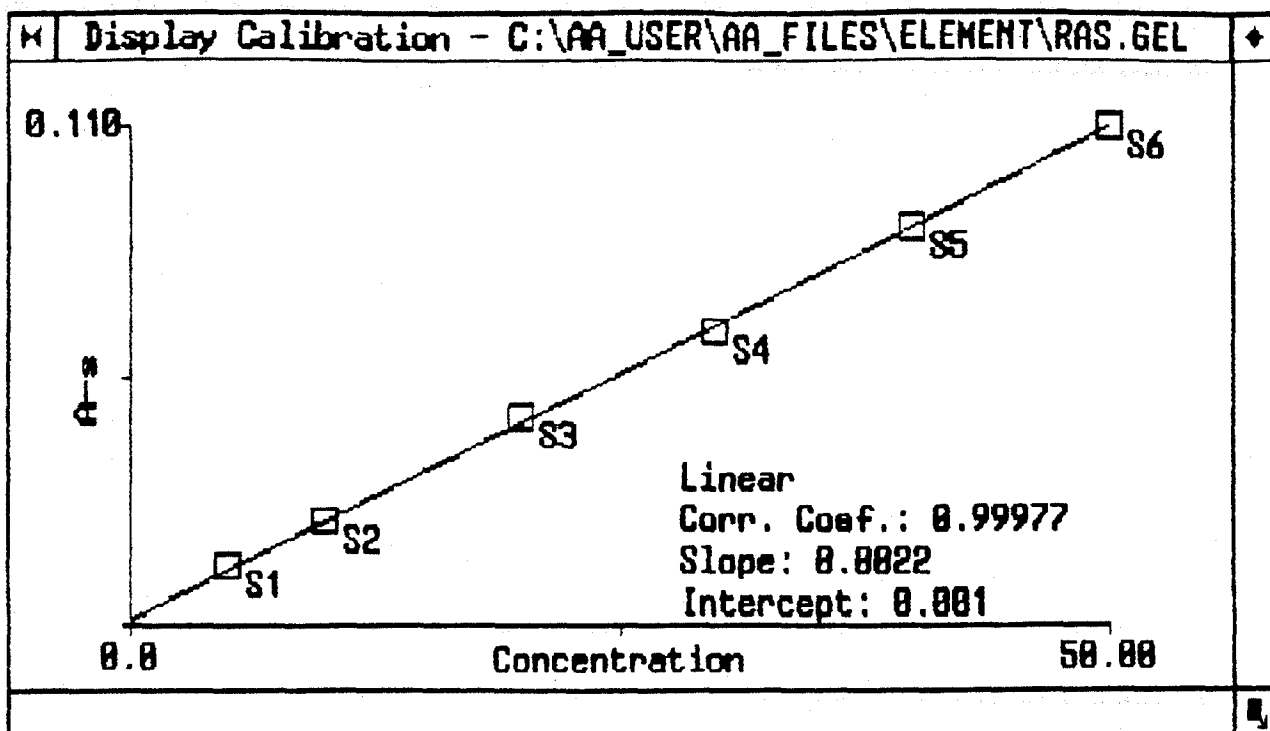
RSD(%): 0.86

Standard number 6 applied. [50.00]

Correlation coefficient: 0.99977

Slope: 0.0022

Int: 0.001



ID: ICV-0788

Seq. No.: 00011

A/S Pos.: 37

Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 1

Time: 09:33

Peak Area (A-s): 0.076

Peak Height (A): 0.176

Background Pk Area (A-s): 0.023

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.074

Concentration (ug/L): 33.55

uL dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 2 (Peak Stored)

Time: 09:36

Peak Area (A-s): 0.077

Peak Height (A): 0.182

Background Pk Area (A-s): 0.023

Background Pk Height (A): 0.031

Blank Corrected Pk Area (A-s): 0.075

Concentration (ug/L): 34.14

Mean Conc (ug/L): 33.85

SD: 0.417

RSD(%): 1.23

QC sample is within range 29.5 - 36.1

As ID: ICB

Seq. No.: 00012

A/S Pos.: 0

Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1

Time: 09:40

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.018

Background Pk Height (A): 0.023

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L): -1.02

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 09:43

Peak Area (A-s): 0.001 Peak Height (A): 0.009
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.025
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (ug/L): -0.91

Mean Conc (ug/L): -0.97 SD: 0.078 RSD(%): 8.06

QC sample is within range

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 As    1D: CRA-0789                      Seq. No.: 00013            A/S Pos.: 36            Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
 Replicate 1                                      Time: 09:47  
 Peak Area (A-s): 0.025                      Peak Height (A): 0.063  
 Background Pk Area (A-s): 0.017            Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 10.19

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
 Replicate 2 (Peak Stored)                      Time: 09:50  
 Peak Area (A-s): 0.028                      Peak Height (A): 0.066  
 Background Pk Area (A-s): 0.017            Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 11.43

Mean Conc (ug/L ):            10.81                      SD: 0.874                      RSD(%): 8.08

QC sample is within range 7.50 - 12.5

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 As 1D: PBL-N7R3773 Seq. No.: 00014 A/S Pos.: 1 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 1
 Replicate 1 Time: 09:54
 Peak Area (A-s): 0.001 Peak Height (A): 0.008
 Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.021
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (ug/L): -0.75

uL dispensed: 5 from 0, 5 from 39, 20 from 1
 Replicate 2 (Peak Stored) Time: 09:57
 Peak Area (A-s): 0.002 Peak Height (A): 0.010
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.022
 Blank Corrected Pk Area (A-s): -0.000
 Concentration (ug/L): -0.61

Mean Conc (ug/L): -0.68 SD: 0.100 RSD(%): 14.67

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 As    1D: PBL-N7R3773                      Seq. No.: 00015            A/S Pos.: 1            Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
 Replicate 1                                      Time: 10:01  
 Peak Area (A-s): 0.059                      Peak Height (A): 0.151  
 Background Pk Area (A-s): 0.016            Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.60

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
Replicate 2 (Peak Stored) Time: 10:04  
Peak Area (A-s): 0.061 Peak Height (A): 0.186  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 26.63

Mean Conc (ug/L ): 26.12 SD: 0.734 RSD(%): 2.81

Recovery is 107.2%

As ID: LC SL-N7R3773 Seq. No.: 00016 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
Replicate 1 Time: 10:08  
Peak Area (A-s): 0.046 Peak Height (A): 0.131  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.044  
Concentration (ug/L ): 19.85

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
Replicate 2 (Peak Stored) Time: 10:11  
Peak Area (A-s): 0.045 Peak Height (A): 0.136  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.043  
Concentration (ug/L ): 19.21

Mean Conc (ug/L ): 19.53 SD: 0.453 RSD(%): 2.32

As ID: LC SL-N7R3773 Seq. No.: 00017 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
Replicate 1 Time: 10:15  
Peak Area (A-s): 0.099 Peak Height (A): 0.291  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 44.29

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
Replicate 2 (Peak Stored) Time: 10:18  
Peak Area (A-s): 0.100 Peak Height (A): 0.302  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.098  
Concentration (ug/L ): 44.73

Mean Conc (ug/L ): 44.51 SD: 0.313 RSD(%): 0.70

Recovery is 99.9%

As ID: 7SM-JM3178 MTXS Seq. No.: 00018 A/S Pos.: 3 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 3  
Replicate 1 Time: 10:22  
Peak Area (A-s): 0.050 Peak Height (A): 0.108  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.048

Concentration (ug/L ): 21.76

uL dispensed: 5 from 0, 5 from 39, 20 from 3

Replicate 2 (Peak Stored)

Time: 10:25

Peak Area (A-s): 0.048

Peak Height (A): 0.108

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.030

Blank Corrected Pk Area (A-s): 0.046

Concentration (ug/L ): 20.84

Mean Conc (ug/L ): 21.30

SD: 0.645

RSD(%): 3.03

As ID: 7SD-JM3178 MTXR Seq. No.: 00019 A/S Pos.: 4 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 1

Time: 10:29

Peak Area (A-s): 0.049

Peak Height (A): 0.105

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.047

Concentration (ug/L ): 21.17

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 2 (Peak Stored)

Time: 10:33

Peak Area (A-s): 0.051

Peak Height (A): 0.105

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.028

Blank Corrected Pk Area (A-s): 0.049

Concentration (ug/L ): 22.00

Mean Conc (ug/L ): 21.59

SD: 0.588

RSD(%): 2.72

As ID: 7XX-JM3178 SS07 Seq. No.: 00020 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 5

Replicate 1

Time: 10:36

Peak Area (A-s): -0.001

Peak Height (A): 0.007

Background Pk Area (A-s): 0.022

Background Pk Height (A): 0.027

Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -1.80

uL dispensed: 5 from 0, 5 from 39, 20 from 5

Replicate 2 (Peak Stored)

Time: 10:40

Peak Area (A-s): 0.002

Peak Height (A): 0.011

Background Pk Area (A-s): 0.021

Background Pk Height (A): 0.027

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.28

Mean Conc (ug/L ): -1.04

SD: 1.074

RSD(%): 103.64

As ID: 7XX-JM3178 SS07 Seq. No.: 00021 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 5

Replicate 1

Time: 10:43

Peak Area (A-s): 0.062

Peak Height (A): 0.130

Background Pk Area (A-s): 0.019

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.060

Concentration (ug/L ): 27.15



uL dispensed: 5 from 39, 5 from 34, 20 from 5  
 Replicate 2 (Peak Stored) Time: 10:47  
 Peak Area (A-s): 0.063 Peak Height (A): 0.140  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.061  
 Concentration (ug/L ): 27.51

Mean Conc (ug/L ): 27.33 SD: 0.253 RSD(%): 0.92

Recovery is 113.5%

As ID: 7XX-JM3178 DUP Seq. No.: 00022 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
 Replicate 1 Time: 10:50  
 Peak Area (A-s): 0.003 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -0.11

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
 Replicate 2 (Peak Stored) Time: 10:54  
 Peak Area (A-s): 0.002 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.48

In Conc (ug/L ): -0.29 Q SD: 0.262 RSD(%): 90.11

As ID: 7XX-JM3178 DUP Seq. No.: 00023 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
 Replicate 1 Time: 10:57  
 Peak Area (A-s): 0.059 Peak Height (A): 0.133  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 25.97

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
 Replicate 2 (Peak Stored) Time: 11:01  
 Peak Area (A-s): 0.058 Peak Height (A): 0.125  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.45

Mean Conc (ug/L ): 25.71 SD: 0.366 RSD(%): 1.42

Recovery is 104.0%

As ID: CCV-0787 Seq. No.: 00024 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1 Time: 11:04  
 Peak Area (A-s): 0.052 Peak Height (A): 0.112  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.050

Concentration (ug/L ): 22.47

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 11:08  
Peak Area (A-s): 0.050 Peak Height (A): 0.110  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 21.58

Mean Conc (ug/L ): 22.03 SD: 0.626 RSD(%): 2.84

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00025 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1 Time: 11:11  
Peak Area (A-s): 0.001 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.70

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 11:14  
Peak Area (A-s): 0.003 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.09  
Mean Conc (ug/L ): -0.40 SD: 0.436 RSD(%): 110.40

QC sample is within range

As ID: 7XX-JM3169 DS01 Seq. No.: 00026 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 1 Time: 11:18  
Peak Area (A-s): -0.002 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -2.03

uL dispensed: 5 from 0, 5 from 39, 20 from 7  
Replicate 2 (Peak Stored) Time: 11:21  
Peak Area (A-s): 0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.97  
Mean Conc (ug/L ): -1.50 Q SD: 0.752 RSD(%): 50.18

As ID: 7XX-JM3169 DS01 Seq. No.: 00027 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 7  
Replicate 1 Time: 11:25  
Peak Area (A-s): 0.058 Peak Height (A): 0.123

Background Pk Area (A-s): 0.024      Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.16

dispensed: 5 from 39, 5 from 34, 20 from 7  
 Replicate 2 (Peak Stored)      Time: 11:28  
 Peak Area (A-s): 0.059      Peak Height (A): 0.126  
 Background Pk Area (A-s): 0.026      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.59

Mean Conc (ug/L ):      25.37      SD: 0.309      RSD(%): 1.22

Recovery is 107.5%

As ID: 7XX-JM3170 01A      Seq. No.: 00028      A/S Pos.: 8      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 8  
 Replicate 1      Time: 11:32  
 Peak Area (A-s): 0.004      Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.025      Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.67

uL dispensed: 5 from 0, 5 from 39, 20 from 8  
 Replicate 2 (Peak Stored)      Time: 11:35  
 Peak Area (A-s): -0.001      Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.028      Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.64

Mean Conc (ug/L ):      -0.49      SD: 1.632      RSD(%): 335.34

As ID: 7XX-JM3170 01A      Seq. No.: 00029      A/S Pos.: 8      Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
 Replicate 1      Time: 11:39  
 Peak Area (A-s): 0.061      Peak Height (A): 0.127  
 Background Pk Area (A-s): 0.029      Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.87

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
 Replicate 2 (Peak Stored)      Time: 11:42  
 Peak Area (A-s): 0.061      Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.027      Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.73

Mean Conc (ug/L ):      26.80      SD: 0.097      RSD(%): 0.36

Recovery is 109.1%

As ID: 7XX-JM3171 01B      Seq. No.: 00030      A/S Pos.: 9      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 9

Replicate 1 Time: 11:46  
 Peak Area (A-s): 0.001 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.88

uL dispensed: 5 from 0, 5 from 39, 20 from 9

Replicate 2 (Peak Stored) Time: 11:49  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.64

Mean Conc (ug/L ): -0.76 Q SD: 0.174 RSD(%): 22.86

As ID: 7XX-JM3171 01B Seq. No.: 00031 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 9

Replicate 1 Time: 11:53  
 Peak Area (A-s): 0.060 Peak Height (A): 0.122  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 26.21

uL dispensed: 5 from 39, 5 from 34, 20 from 9

Replicate 2 (Peak Stored) Time: 11:56  
 Peak Area (A-s): 0.062 Peak Height (A): 0.129  
 Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 27.21

Mean Conc (ug/L ): 26.71 SD: 0.705 RSD(%): 2.64

Recovery is 109.9%

As ID: 7XX-JM3172 SS01 Seq. No.: 00032 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 10

Replicate 1 Time: 11:59  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.72

uL dispensed: 5 from 0, 5 from 39, 20 from 10

Replicate 2 (Peak Stored) Time: 12:03  
 Peak Area (A-s): -0.000 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.45

Mean Conc (ug/L ): -1.08 Q SD: 0.517 RSD(%): 47.73

As ID: 7XX-JM3172 SS01 Seq. No.: 00033 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 10

Replicate 1  
 Peak Area (A-s): 0.059  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 25.95  
 Time: 12:06  
 Peak Height (A): 0.132  
 Background Pk Height (A): 0.036

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.060  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 26.28  
 Time: 12:10  
 Peak Height (A): 0.120  
 Background Pk Height (A): 0.036

Mean Conc (ug/L ): 26.12 SD: 0.235 RSD(%): 0.90

Recovery is 108.8%

As ID: 7XX-JM3173 SS02 Seq. No.: 00034 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 11  
 Replicate 1  
 Peak Area (A-s): -0.001  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.67  
 Time: 12:13  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.033

uL dispensed: 5 from 0, 5 from 39, 20 from 11  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): -0.001  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.92  
 Time: 12:17  
 Peak Height (A): 0.011  
 Background Pk Height (A): 0.031

Mean Conc (ug/L ): -1.79 SD: 0.177 RSD(%): 9.85

As ID: 7XX-JM3173 SS02 Seq. No.: 00035 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 11  
 Replicate 1  
 Peak Area (A-s): 0.059  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.68  
 Time: 12:20  
 Peak Height (A): 0.123  
 Background Pk Height (A): 0.037

uL dispensed: 5 from 39, 5 from 34, 20 from 11  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.059  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.71  
 Time: 12:24  
 Peak Height (A): 0.132  
 Background Pk Height (A): 0.037

Mean Conc (ug/L ): 25.69 SD: 0.023 RSD(%): 0.09

Recovery is 109.9%

As ID: CCV-0787 Seq. No.: 00036 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 1 Time: 12:27  
Peak Area (A-s): 0.053 Peak Height (A): 0.109  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 23.18

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 12:30  
Peak Area (A-s): 0.054 Peak Height (A): 0.111  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 23.40

Mean Conc (ug/L ): 23.29 SD: 0.153 RSD(%): 0.66

QC sample is out of range 18.4 - 22.6

*Replaced  
CCV  
w/ fresh  
Revan*

As ID: CCB Seq. No.: 00037 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1 Time: 12:34  
Peak Area (A-s): -0.000 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.42

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 12:37  
Peak Area (A-s): -0.001 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.75

Mean Conc (ug/L ): -1.58 SD: 0.233 RSD(%): 14.73

QC sample is within range

*1 SB  
2-18  
✓*

As ID: 7XX-JM3174 SS03 Seq. No.: 00038 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 12  
Replicate 1 Time: 12:41  
Peak Area (A-s): 0.002 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.57

uL dispensed: 5 from 0, 5 from 39, 20 from 12  
Replicate 2 (Peak Stored) Time: 12:44  
Peak Area (A-s): -0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.64

Mean Conc (ug/L ): -1.11 SD: 0.756 RSD(%): 68.37

ID: 7XX-JM3174 SS03 Seq. No.: 00039 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 12  
 Replicate 1 Time: 12:47  
 Peak Area (A-s): 0.060 Peak Height (A): 0.131  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 26.34

uL dispensed: 5 from 39, 5 from 34, 20 from 12  
 Replicate 2 (Peak Stored) Time: 12:51  
 Peak Area (A-s): 0.062 Peak Height (A): 0.136  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 27.31

Mean Conc (ug/L ): 26.83 SD: 0.686 RSD(%): 2.56

Recovery is 111.7%

As ID: CCV-0787 Seq. No.: 00040 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1 Time: 12:58  
 Peak Area (A-s): 0.050 Peak Height (A): 0.107  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.47

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 13:02  
 Peak Area (A-s): 0.048 Peak Height (A): 0.111  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 20.75

Mean Conc (ug/L ): 21.11 SD: 0.507 RSD(%): 2.40

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00041 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 1 Time: 13:05  
 Peak Area (A-s): 0.000 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.20

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 2 (Peak Stored) Time: 13:08  
 Peak Area (A-s): -0.001 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): -0.003

*SB*  
*2-18-94*  
*Renin after fresh CCV*

Concentration (ug/L ): -1.87

Mean Conc (ug/L ): -1.53

SD: 0.474

RSD(%): 30.88

sample is within range

As ID: 7XX-JM3174 SS03 Seq. No.: 00042 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 12

Replicate 1

Time: 13:12

Peak Area (A-s): -0.001

Peak Height (A): 0.008

Background Pk Area (A-s): 0.027

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -1.71

uL dispensed: 5 from 0, 5 from 39, 20 from 12

Replicate 2 (Peak Stored)

Time: 13:15

Peak Area (A-s): 0.000

Peak Height (A): 0.008

Background Pk Area (A-s): 0.027

Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -1.11

Mean Conc (ug/L ): -1.41

SD: 0.423

RSD(%): 29.95

As ID: 7XX-JM3174 SS03 Seq. No.: 00043 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 12

Replicate 1

Time: 13:19

Peak Area (A-s): 0.061

Peak Height (A): 0.135

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.037

Blank Corrected Pk Area (A-s): 0.059

Concentration (ug/L ): 26.71

uL dispensed: 5 from 39, 5 from 34, 20 from 12

Replicate 2 (Peak Stored)

Time: 13:22

Peak Area (A-s): 0.063

Peak Height (A): 0.135

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.061

Concentration (ug/L ): 27.78

Mean Conc (ug/L ): 27.24

SD: 0.756

RSD(%): 2.77

Recovery is 114.6%

As ID: 7XX-JM3175 SS04 Seq. No.: 00044 A/S Pos.: 13 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 13

Replicate 1

Time: 13:25

Peak Area (A-s): 0.001

Peak Height (A): 0.009

Background Pk Area (A-s): 0.018

Background Pk Height (A): 0.026

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.97

uL dispensed: 5 from 0, 5 from 39, 20 from 13

Replicate 2 (Peak Stored)

Time: 13:29

Peak Area (A-s): 0.001

Peak Height (A): 0.007



Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.92

Mean Conc (ug/L ): -0.95 Q SD: 0.036 RSD(%): 3.80

As ID: 7XX-JM3175 SS04 Seq. No.: 00045 A/S Pos.: 13 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 13  
Replicate 1 Time: 13:32  
Peak Area (A-s): 0.062 Peak Height (A): 0.139  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.060  
Concentration (ug/L ): 27.25

uL dispensed: 5 from 39, 5 from 34, 20 from 13  
Replicate 2 (Peak Stored) Time: 13:36  
Peak Area (A-s): 0.060 Peak Height (A): 0.134  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 26.47

Mean Conc (ug/L ): 26.86 SD: 0.552 RSD(%): 2.06

Recovery is 111.2%

ID: 7XX-JM3176 SS05 Seq. No.: 00046 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 14  
Replicate 1 Time: 13:39  
Peak Area (A-s): -0.000 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.34

uL dispensed: 5 from 0, 5 from 39, 20 from 14  
Replicate 2 (Peak Stored) Time: 13:42  
Peak Area (A-s): 0.000 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.11

Mean Conc (ug/L ): -1.23 Q SD: 0.164 RSD(%): 13.39

As ID: 7XX-JM3176 SS05 Seq. No.: 00047 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
Replicate 1 Time: 13:46  
Peak Area (A-s): 0.064 Peak Height (A): 0.132  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.062  
Concentration (ug/L ): 28.23

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
Replicate 2 (Peak Stored) Time: 13:49  
Peak Area (A-s): 0.063 Peak Height (A): 0.129

Background Pk Area (A-s): 0.029      Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 27.59

Mean Conc (ug/L ):      27.91      SD: 0.453      RSD(%): 1.62

Recovery is 116.6% (outside of specified limits)

As ID: 7XX-JM3177 SS06      Seq. No.: 00048      A/S Pos.: 15      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
Replicate 1      Time: 13:53  
Peak Area (A-s): 0.001      Peak Height (A): 0.007  
Background Pk Area (A-s): 0.020      Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.78

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
Replicate 2 (Peak Stored)      Time: 13:56  
Peak Area (A-s): 0.000      Peak Height (A): 0.011  
Background Pk Area (A-s): 0.020      Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.26

Mean Conc (ug/L ):      -1.02      SD: 0.337      RSD(%): 33.10

ID: 7XX-JM3177 SS06      Seq. No.: 00049      A/S Pos.: 15      Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
Replicate 1      Time: 14:00  
Peak Area (A-s): 0.060      Peak Height (A): 0.141  
Background Pk Area (A-s): 0.021      Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): 0.058  
Concentration (ug/L ): 26.25

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
Replicate 2 (Peak Stored)      Time: 14:03  
Peak Area (A-s): 0.065      Peak Height (A): 0.139  
Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.063  
Concentration (ug/L ): 28.35

Mean Conc (ug/L ):      27.30      SD: 1.484      RSD(%): 5.44

Recovery is 113.3%

As ID: TCLP BLK 3773      Seq. No.: 00050      A/S Pos.: 16      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 16  
Replicate 1      Time: 14:07  
Peak Area (A-s): 0.000      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.32

uL dispensed: 5 from 0, 5 from 39, 20 from 16

Replicate 2 (Peak Stored) Time: 14:10  
 Peak Area (A-s): 0.000 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.24

Mean Conc (ug/L ): -1.28 Q SD: 0.061 RSD(%): 4.74

As ID: TCLP BLK 3773 Seq. No.: 00051 A/S Pos.: 16 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 16  
 Replicate 1 Time: 14:13  
 Peak Area (A-s): 0.063 Peak Height (A): 0.140  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.062  
 Concentration (ug/L ): 27.82

uL dispensed: 5 from 39, 5 from 34, 20 from 16  
 Replicate 2 (Peak Stored) Time: 14:17  
 Peak Area (A-s): 0.076 Peak Height (A): 0.142  
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): 0.074  
 Concentration (ug/L ): 33.46

Mean Conc (ug/L ): 30.64 SD: 3.984 RSD(%): 13.00

Recovery is 127.7% (outside of specified limits)

As ID: CCV-0787 Seq. No.: 00052 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1 Time: 14:20  
 Peak Area (A-s): 0.051 Peak Height (A): 0.104  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 22.05

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 14:24  
 Peak Area (A-s): 0.051 Peak Height (A): 0.104  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 22.05

Mean Conc (ug/L ): 22.05 SD: 0.002 RSD(%): 0.01

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00053 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 1 Time: 14:27  
 Peak Area (A-s): 0.002 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.32

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 2 (Peak Stored) Time: 14:30  
 Peak Area (A-s): 0.000 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.28

Mean Conc (ug/L ): -0.80 SD: 0.682 RSD(%): 85.06

QC sample is within range

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 ID: PBM-N7R3777 Seq. No.: 00054 A/S Pos.: 17 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 17  
 Replicate 1 Time: 14:34  
 Peak Area (A-s): -0.000 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.34

uL dispensed: 5 from 0, 5 from 39, 20 from 17  
 Replicate 2 (Peak Stored) Time: 14:37  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.00

Mean Conc (ug/L ): -1.17 SD: 0.244 RSD(%): 20.89

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 ID: PBM-N7R3777 Seq. No.: 00055 A/S Pos.: 17 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 17  
 Replicate 1 Time: 14:41  
 Peak Area (A-s): 0.060 Peak Height (A): 0.155  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.43

uL dispensed: 5 from 39, 5 from 34, 20 from 17  
 Replicate 2 (Peak Stored) Time: 14:44  
 Peak Area (A-s): 0.060 Peak Height (A): 0.150  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 26.24

Mean Conc (ug/L ): 26.33 SD: 0.137 RSD(%): 0.52

Recovery is 110.0%

-----  
 ID: LCS-N7R3777 Seq. No.: 00056 A/S Pos.: 18 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
 Replicate 1 Time: 14:48  
 Peak Area (A-s): 0.052 Peak Height (A): 0.116  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.050

Concentration (ug/L ): 22.38

uL dispensed: 5 from 0, 5 from 39, 20 from 18  
 Replicate 2 (Peak Stored) Time: 14:51  
 Peak Area (A-s): 0.050 Peak Height (A): 0.119  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.43

Mean Conc (ug/L ): 21.90 Q SD: 0.673 RSD(%): 3.07

As ID: LCS<sup>18.74</sup>-N7R3777 Seq. No.: 00057 A/S Pos.: 18 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 18  
 Replicate 1 Time: 14:54  
 Peak Area (A-s): 0.112 Peak Height (A): 0.271  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.110  
 Concentration (ug/L ): 49.93

uL dispensed: 5 from 39, 5 from 34, 20 from 18  
 Replicate 2 (Peak Stored) Time: 14:58  
 Peak Area (A-s): 0.110 Peak Height (A): 0.259  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.108  
 Concentration (ug/L ): 49.29

Mean Conc (ug/L ): 49.61 SD: 0.450 RSD(%): 0.91

Recovery is 110.8%

As ID: 7SM-JM3183 MTXS Seq. No.: 00058 A/S Pos.: 19 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 19  
 Replicate 1 Time: 15:01  
 Peak Area (A-s): 0.051 Peak Height (A): 0.114  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.050  
 Concentration (ug/L ): 22.31

uL dispensed: 5 from 0, 5 from 39, 20 from 19  
 Replicate 2 (Peak Stored) Time: 15:05  
 Peak Area (A-s): 0.054 Peak Height (A): 0.115  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.052  
 Concentration (ug/L ): 23.31

Mean Conc (ug/L ): 22.81 Q SD: 0.709 RSD(%): 3.11

As ID: 7SD-JM3183 MTXR Seq. No.: 00059 A/S Pos.: 20 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 20  
 Replicate 1 Time: 15:08  
 Peak Area (A-s): 0.055 Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.053

Concentration (ug/L ): 24.11

uL dispensed: 5 from 0, 5 from 39, 20 from 20  
 Replicate 2 (Peak Stored) Time: 15:12  
 Peak Area (A-s): 0.055 Peak Height (A): 0.115  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 23.88

Mean Conc (ug/L ): 24.00 SD: 0.160 RSD(%): 0.67

As ID: 7XX-JM3183 SS12 Seq. No.: 00060 A/S Pos.: 21 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 21  
 Replicate 1 Time: 15:15  
 Peak Area (A-s): -0.000 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.42

uL dispensed: 5 from 0, 5 from 39, 20 from 21  
 Replicate 2 (Peak Stored) Time: 15:19  
 Peak Area (A-s): 0.000 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.17

Mean Conc (ug/L ): -1.30 SD: 0.179 RSD(%): 13.80

As ID: 7XX-JM3183 SS12 Seq. No.: 00061 A/S Pos.: 21 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 21  
 Replicate 1 Time: 15:22  
 Peak Area (A-s): 0.057 Peak Height (A): 0.131  
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.055  
 Concentration (ug/L ): 24.81

uL dispensed: 5 from 39, 5 from 34, 20 from 21  
 Replicate 2 (Peak Stored) Time: 15:26  
 Peak Area (A-s): 0.055 Peak Height (A): 0.124  
 Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 23.81

Mean Conc (ug/L ): 24.31 SD: 0.707 RSD(%): 2.91

Recovery is 102.4%

ID: 7XX-JM3183 DUP Seq. No.: 00062 A/S Pos.: 22 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 22  
 Replicate 1 Time: 15:30  
 Peak Area (A-s): -0.002 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): -0.003

Concentration (ug/L ): -2.07

dispensed: 5 from 0, 5 from 39, 20 from 22  
 Replicate 2 (Peak Stored) Time: 15:33  
 Peak Area (A-s): 0.002 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.28

Mean Conc (ug/L ): -1.18 Q SD: 1.264 RSD(%): 107.27

As ID: 7XX-JM3183 DUP Seq. No.: 00063 A/S Pos.: 22 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 22  
 Replicate 1 Time: 15:37  
 Peak Area (A-s): 0.058 Peak Height (A): 0.128  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.17

uL dispensed: 5 from 39, 5 from 34, 20 from 22  
 Replicate 2 (Peak Stored) Time: 15:40  
 Peak Area (A-s): 0.059 Peak Height (A): 0.142  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.82

Mean Conc (ug/L ): 25.50 SD: 0.464 RSD(%): 1.82

Recovery is 106.7%

As ID: CCV-0787 Seq. No.: 00064 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1 Time: 15:44  
 Peak Area (A-s): 0.050 Peak Height (A): 0.119  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.66

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 15:47  
 Peak Area (A-s): 0.047 Peak Height (A): 0.114  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 20.50

Mean Conc (ug/L ): 21.08 SD: 0.816 RSD(%): 3.87

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00065 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 1 Time: 15:50  
 Peak Area (A-s): 0.002 Peak Height (A): 0.011

Background Pk Area (A-s): 0.019      Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.42

dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored)      Time: 15:54  
Peak Area (A-s): 0.000      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.022      Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.32

Mean Conc (ug/L ):      -0.87      SD: 0.642      RSD(%): 73.85

QC sample is within range

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As ID: 7XX-JM3179 SS08      Seq. No.: 00066      A/S Pos.: 23      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 23  
Replicate 1      Time: 15:57  
Peak Area (A-s): -0.000      Peak Height (A): 0.009  
Background Pk Area (A-s): 0.027      Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.45

uL dispensed: 5 from 0, 5 from 39, 20 from 23  
Replicate 2 (Peak Stored)      Time: 16:01  
Peak Area (A-s): 0.000      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.024      Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.26

Mean Conc (ug/L ):      -1.36      SD: 0.136      RSD(%): 10.00

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As ID: 7XX-JM3179 SS08      Seq. No.: 00067      A/S Pos.: 23      Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 23  
Replicate 1      Time: 16:04  
Peak Area (A-s): 0.060      Peak Height (A): 0.134  
Background Pk Area (A-s): 0.023      Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.058  
Concentration (ug/L ): 26.31

uL dispensed: 5 from 39, 5 from 34, 20 from 23  
Replicate 2 (Peak Stored)      Time: 16:08  
Peak Area (A-s): 0.060      Peak Height (A): 0.134  
Background Pk Area (A-s): 0.023      Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.058  
Concentration (ug/L ): 26.29

Mean Conc (ug/L ):      26.30      SD: 0.014      RSD(%): 0.05

Recovery is 110.6%

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As ID: 7XX-JM3180 SS09      Seq. No.: 00068      A/S Pos.: 24      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 24



Replicate 1  
 Peak Area (A-s): 0.000  
 Background Pk Area (A-s): 0.024  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.26  
 Time: 16:11  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.024

uL dispensed: 5 from 0, 5 from 39, 20 from 24  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): -0.000  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.35  
 Time: 16:15  
 Peak Height (A): 0.012  
 Background Pk Height (A): 0.026

Mean Conc (ug/L ): -1.31 Q SD: 0.061 RSD(%): 4.64

As 1D: 7XX-JM3180 SS09 Seq. No.: 00069 A/S Pos.: 24 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 24  
 Replicate 1  
 Peak Area (A-s): 0.057  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): 0.055  
 Concentration (ug/L ): 24.90  
 Time: 16:18  
 Peak Height (A): 0.133  
 Background Pk Height (A): 0.032

uL dispensed: 5 from 39, 5 from 34, 20 from 24  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.058  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.26  
 Time: 16:22  
 Peak Height (A): 0.132  
 Background Pk Height (A): 0.026

Mean Conc (ug/L ): 25.08 SD: 0.259 RSD(%): 1.03

Recovery is 105.5%

As 1D: 7XX-JM3181 SS10 Seq. No.: 00070 A/S Pos.: 25 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 25  
 Replicate 1  
 Peak Area (A-s): -0.000  
 Background Pk Area (A-s): 0.031  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.48  
 Time: 16:25  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.038

uL dispensed: 5 from 0, 5 from 39, 20 from 25  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.002  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.32  
 Time: 16:29  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.035

Mean Conc (ug/L ): -0.90 Q SD: 0.817 RSD(%): 90.65

As 1D: 7XX-JM3181 SS10 Seq. No.: 00071 A/S Pos.: 25 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 25

Replicate 1  
 Peak Area (A-s): 0.059  
 Background Pk Area (A-s): 0.029  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.69

Time: 16:32  
 Peak Height (A): 0.130  
 Background Pk Height (A): 0.036

uL dispensed: 5 from 39, 5 from 34, 20 from 25

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.062  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 26.99

Time: 16:36  
 Peak Height (A): 0.129  
 Background Pk Height (A): 0.034

Mean Conc (ug/L ): 26.34 SD: 0.923 RSD(%): 3.50

Recovery is 109.0%

As ID: 7XX-JM3182 SS11 Seq. No.: 00072 A/S Pos.: 26 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 26

Replicate 1  
 Peak Area (A-s): 0.001  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.93

Time: 16:39  
 Peak Height (A): 0.010  
 Background Pk Height (A): 0.031

uL dispensed: 5 from 0, 5 from 39, 20 from 26

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.001  
 Background Pk Area (A-s): 0.028  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.94

Time: 16:43  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.036

Mean Conc (ug/L ): -0.94 Q SD: 0.006 RSD(%): 0.64

As ID: 7XX-JM3182 SS11 Seq. No.: 00073 A/S Pos.: 26 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 26

Replicate 1  
 Peak Area (A-s): 0.056  
 Background Pk Area (A-s): 0.029  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 24.52

Time: 16:46  
 Peak Height (A): 0.133  
 Background Pk Height (A): 0.036

uL dispensed: 5 from 39, 5 from 34, 20 from 26

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.059  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.94

Time: 16:50  
 Peak Height (A): 0.141  
 Background Pk Height (A): 0.032

Mean Conc (ug/L ): 25.23 SD: 1.006 RSD(%): 3.99

Recovery is 104.7%

As ID: CCV-0787 Seq. No.: 00074 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 1 Time: 16:53  
Peak Area (A-s): 0.048 Peak Height (A): 0.113  
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.046  
Concentration (ug/L ): 20.78

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
Replicate 2 (Peak Stored) Time: 16:57  
Peak Area (A-s): 0.049 Peak Height (A): 0.110  
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 20.98

Mean Conc (ug/L ): 20.88 SD: 0.145 RSD(%): 0.69

QC sample is within range 18.4 - 22.6

As ID: CCB Seq. No.: 00075 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 1 Time: 17:00  
Peak Area (A-s): 0.002 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.46

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
Replicate 2 (Peak Stored) Time: 17:04  
Peak Area (A-s): -0.000 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.38

Mean Conc (ug/L ): -0.92 SD: 0.650 RSD(%): 70.93

QC sample is within range

As ID: CRA-0789 Seq. No.: 00076 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
Replicate 1 Time: 17:07  
Peak Area (A-s): 0.023 Peak Height (A): 0.061  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 9.46

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
Replicate 2 (Peak Stored) Time: 17:10  
Peak Area (A-s): 0.021 Peak Height (A): 0.068  
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 8.42

Mean Conc (ug/L ):

8.94

SD: 0.735

RSD(%): 8.23

0321

sample is within range 7.50 - 12.5

As ID: PBL-N7R3791 Seq. No.: 00077 A/S Pos.: 1 Date: 02/18/94

dispensed: 5 from 0, 5 from 39, 20 from 1  
 Replicate 1 Time: 17:23  
 Peak Area (A-s): 0.000 Peak Height (A): 0.00/  
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.16

uL dispensed: 5 from 0, 5 from 39, 20 from 1  
 Replicate 2 (Peak Stored) Time: 17:27  
 Peak Area (A-s): -0.000 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.55

Mean Conc (ug/L ): -1.35 Q SD: 0.276 RSD(%): 20.44

As ID: PBL-N7R3791 Seq. No.: 00078 A/S Pos.: 1 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
 Replicate 1 Time: 17:30  
 Peak Area (A-s): 0.058 Peak Height (A): 0.202  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.34

dispensed: 5 from 39, 5 from 34, 20 from 1  
 Replicate 2 (Peak Stored) Time: 17:34  
 Peak Area (A-s): 0.059 Peak Height (A): 0.192  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.72

Mean Conc (ug/L ): 25.53 SD: 0.268 RSD(%): 1.05

Recovery is 107.5%

As ID: LCSL-N7R3791 Seq. No.: 00079 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
 Replicate 1 Time: 17:37  
 Peak Area (A-s): 0.045 Peak Height (A): 0.153  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.043  
 Concentration (ug/L ): 19.24

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
 Replicate 2 (Peak Stored) Time: 17:41  
 Peak Area (A-s): 0.046 Peak Height (A): 0.149  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.044  
 Concentration (ug/L ): 19.77

Mean Conc (ug/L ): 19.50 Q SD: 0.378 RSD(%): 1.94

As ID: LC SL-N7R3791 Seq. No.: 00080 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
 Replicate 1 Time: 17:44  
 Peak Area (A-s): 0.104 Peak Height (A): 0.334  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.102  
 Concentration (ug/L ): 46.48

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
 Replicate 2 (Peak Stored) Time: 17:48  
 Peak Area (A-s): 0.106 Peak Height (A): 0.333  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.104  
 Concentration (ug/L ): 47.37

Mean Conc (ug/L ): 46.92 SD: 0.626 RSD(%): 1.33

Recovery is 109.7%

As ID: 7SM-JM3193 MTXS Seq. No.: 00081 A/S Pos.: 3 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 3  
 Replicate 1 Time: 17:51  
 Peak Area (A-s): 0.047 Peak Height (A): 0.146  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.045  
 Concentration (ug/L ): 20.15

uL dispensed: 5 from 0, 5 from 39, 20 from 3  
 Replicate 2 (Peak Stored) Time: 17:55  
 Peak Area (A-s): 0.048 Peak Height (A): 0.135  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 20.51

Mean Conc (ug/L ): 20.33 SD: 0.254 RSD(%): 1.25

As ID: CCV-0787 Seq. No.: 00082 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1 Time: 18:00  
 Peak Area (A-s): 0.048 Peak Height (A): 0.122  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 20.53

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 2 (Peak Stored) Time: 18:03  
 Peak Area (A-s): 0.045 Peak Height (A): 0.134  
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): 0.043  
 Concentration (ug/L ): 19.51

Mean Conc (ug/L ): 20.02 SD: 0.720 RSD(%): 3.60

QC sample is within range 18.4 - 22.6

ID: CCB Seq. No.: 00083 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 1 Time: 18:07
Peak Area (A-s): 0.000 Peak Height (A): 0.007
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L ): -1.11

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 18:10
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L ): -1.40

Mean Conc (ug/L ): -1.26 SD: 0.204 RSD(%): 16.22

QC sample is within range

As ID: 7SD-JM3193 MTXR Seq. No.: 00084 A/S Pos.: 4 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 4
Replicate 1 Time: 18:14
Peak Area (A-s): 0.047 Peak Height (A): 0.139
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L ): 20.35

uL dispensed: 5 from 0, 5 from 39, 20 from 4
Replicate 2 (Peak Stored) Time: 18:17
Peak Area (A-s): 0.046 Peak Height (A): 0.141
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L ): 19.61

Mean Conc (ug/L ): 19.98 SD: 0.525 RSD(%): 2.63

As ID: 7XX-JM3193 SS22 Seq. No.: 00085 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 5
Replicate 1 Time: 18:21
Peak Area (A-s): -0.001 Peak Height (A): 0.006
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L ): -1.88

uL dispensed: 5 from 0, 5 from 39, 20 from 5
Replicate 2 (Peak Stored) Time: 18:24
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L ): -0.45

Mean Conc (ug/L ): -1.17  $\odot$  SD: 1.013 RSD(%): 86.78

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ID: 7XX-JM3193 SS22 Seq. No.: 00086 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 5  
Replicate 1 Time: 18:28  
Peak Area (A-s): 0.057 Peak Height (A): 0.189  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.055  
Concentration (ug/L ): 24.94

uL dispensed: 5 from 39, 5 from 34, 20 from 5  
Replicate 2 (Peak Stored) Time: 18:31  
Peak Area (A-s): 0.059 Peak Height (A): 0.187  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.057  
Concentration (ug/L ): 25.91

Mean Conc (ug/L ): 25.42 SD: 0.682 RSD(%): 2.68

Recovery is 106.4%

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As ID: 7XX-JM3193 DUP Seq. No.: 00087 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
Replicate 1 Time: 18:35  
Peak Area (A-s): 0.000 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.26

uL dispensed: 5 from 0, 5 from 39, 20 from 6  
Replicate 2 (Peak Stored) Time: 18:38  
Peak Area (A-s): -0.002 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.25

Mean Conc (ug/L ): -1.76  $\odot$  SD: 0.697 RSD(%): 39.71

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As ID: 7XX-JM3193 DUP Seq. No.: 00088 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
Replicate 1 Time: 18:42  
Peak Area (A-s): 0.058 Peak Height (A): 0.192  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.027  
Blank Corrected Pk Area (A-s): 0.056  
Concentration (ug/L ): 25.40

uL dispensed: 5 from 39, 5 from 34, 20 from 6  
Replicate 2 (Peak Stored) Time: 18:45  
Peak Area (A-s): 0.059 Peak Height (A): 0.185  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.057  
Concentration (ug/L ): 25.58



Mean Conc (ug/L ): 25.49 SD: 0.126 RSD(%): 0.49

Recovery is 109.0%

As ID: 7XX-JM3184 SS13 Seq. No.: 00089 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7

Replicate 1 Time: 18:49  
 Peak Area (A-s): 0.000 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.11

uL dispensed: 5 from 0, 5 from 39, 20 from 7

Replicate 2 (Peak Stored) Time: 18:52  
 Peak Area (A-s): -0.000 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.50

Mean Conc (ug/L ): -1.31 Q SD: 0.277 RSD(%): 21.14

As ID: 7XX-JM3184 SS13 Seq. No.: 00090 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 7

Replicate 1 Time: 18:56  
 Peak Area (A-s): 0.058 Peak Height (A): 0.180  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.51

uL dispensed: 5 from 39, 5 from 34, 20 from 7

Replicate 2 (Peak Stored) Time: 18:59  
 Peak Area (A-s): 0.058 Peak Height (A): 0.175  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.33

Mean Conc (ug/L ): 25.42 SD: 0.125 RSD(%): 0.49

Recovery is 106.9%

As ID: 7XX-JM3185 SS14 Seq. No.: 00091 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 8

Replicate 1 Time: 19:03  
 Peak Area (A-s): 0.001 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.01

uL dispensed: 5 from 0, 5 from 39, 20 from 8

Replicate 2 (Peak Stored) Time: 19:06  
 Peak Area (A-s): 0.000 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -1.26

n Conc (ug/L ): -1.13 Q SD: 0.177 RSD(%): 15.57

As ID: 7XX-JM3185 SS14 Seq. No.: 00092 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
 Replicate 1 Time: 19:10  
 Peak Area (A-s): 0.058 Peak Height (A): 0.187  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.45

uL dispensed: 5 from 39, 5 from 34, 20 from 8  
 Replicate 2 (Peak Stored) Time: 19:13  
 Peak Area (A-s): 0.060 Peak Height (A): 0.195  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.058  
 Concentration (ug/L ): 26.32

Mean Conc (ug/L ): 25.89 SD: 0.619 RSD(%): 2.39

Recovery is 108.1%

As ID: 7XX-JM3186 SS15 Seq. No.: 00093 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 9  
 Replicate 1 Time: 19:17  
 Peak Area (A-s): -0.002 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -2.07

uL dispensed: 5 from 0, 5 from 39, 20 from 9  
 Replicate 2 (Peak Stored) Time: 19:20  
 Peak Area (A-s): 0.003 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.18

Mean Conc (ug/L ): -0.95 Q SD: 1.590 RSD(%): 168.06

As ID: 7XX-JM3186 SS15 Seq. No.: 00094 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 9  
 Replicate 1 Time: 19:23  
 Peak Area (A-s): 0.059 Peak Height (A): 0.192  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.83

uL dispensed: 5 from 39, 5 from 34, 20 from 9  
 Replicate 2 (Peak Stored) Time: 19:27  
 Peak Area (A-s): 0.057 Peak Height (A): 0.180  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.055

Concentration (ug/L ): 24.96

Mean Conc (ug/L ): 25.40 SD: 0.613 RSD(%): 2.41

Recovery is 105.4%

As ID: CCV-0787 Seq. No.: 00095 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38
Replicate 1 Time: 19:30
Peak Area (A-s): 0.050 Peak Height (A): 0.147
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L ): 21.58

uL dispensed: 5 from 0, 5 from 39, 20 from 38
Replicate 2 (Peak Stored) Time: 19:34
Peak Area (A-s): 0.048 Peak Height (A): 0.147
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L ): 20.93

Mean Conc (ug/L ): 21.26 SD: 0.461 RSD(%): 2.17

QC sample is within range 18.4 - 22.6

ID: CCB Seq. No.: 00096 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 1 Time: 19:37
Peak Area (A-s): 0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L ): -0.26

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 19:41
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L ): -1.77

Mean Conc (ug/L ): -1.02 SD: 1.070 RSD(%): 105.26

QC sample is within range

As ID: 7XX-JM3187 SS16 Seq. No.: 00097 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 10
Replicate 1 Time: 19:44
Peak Area (A-s): 0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L ): -1.25

uL dispensed: 5 from 0, 5 from 39, 20 from 10

Replicate 2 (Peak Stored) Time: 19:47  
 Peak Area (A-s): 0.001 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.72

Mean Conc (ug/L ): -0.99 Q SD: 0.376 RSD(%): 38.09

As ID: 7XX-JM3187 SS16 Seq. No.: 00098 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
 Replicate 1 Time: 19:51  
 Peak Area (A-s): 0.061 Peak Height (A): 0.193  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.85

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
 Sample abs. is greater than that of the largest standard.  
 Replicate 2 (Peak Stored) Time: 19:54  
 Peak Area (A-s): 0.185 Peak Height (A): 0.158  
 Background Pk Area (A-s): 0.161 Background Pk Height (A): 0.116  
 Blank Corrected Pk Area (A-s): 0.183  
 Concentration (ug/L ): 83.61

Mean Conc (ug/L ): 55.23 SD: 40.131 RSD(%): 72.66

Recovery is 224.9% (outside of specified limits)

As ID: 7XX-JM3187 SS16 Seq. No.: 00099 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
 Replicate 1 Time: 19:58  
 Peak Area (A-s): 0.079 Peak Height (A): 0.179  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.077  
 Concentration (ug/L ): 34.99

uL dispensed: 5 from 39, 5 from 34, 20 from 10  
 Replicate 2 (Peak Stored) Time: 20:01  
 Peak Area (A-s): 0.071 Peak Height (A): 0.199  
 Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.069  
 Concentration (ug/L ): 31.11

Mean Conc (ug/L ): 33.05 SD: 2.741 RSD(%): 8.29

Recovery is 136.1% (outside of specified limits)

As ID: 7XX-JM3188 SS17 Seq. No.: 00100 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 11  
 Replicate 1 Time: 20:05  
 Peak Area (A-s): 0.003 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): 0.002

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Concentration (ug/L ): 0.24

dispensed: 5 from 0, 5 from 39, 20 from 11  
 Replicate 2 (Peak Stored) Time: 20:08  
 Peak Area (A-s): 0.002 Peak Height (A): 0.012  
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.46

Mean Conc (ug/L ): -0.11 Q SD: 0.495 RSD(%): 433.33

As ID: 7XX-JM3188 SS17 Seq. No.: 00101 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 11  
 Replicate 1 Time: 20:12  
 Peak Area (A-s): 0.061 Peak Height (A): 0.190  
 Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.78

uL dispensed: 5 from 39, 5 from 34, 20 from 11  
 Replicate 2 (Peak Stored) Time: 20:15  
 Peak Area (A-s): 0.062 Peak Height (A): 0.189  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.028  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 27.21

In Conc (ug/L ): 26.99 SD: 0.302 RSD(%): 1.12

Recovery is 108.4%

As ID: 7XX-JM3189 SS18 Seq. No.: 00102 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 12  
 Replicate 1 Time: 20:18  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -0.66

uL dispensed: 5 from 0, 5 from 39, 20 from 12  
 Replicate 2 (Peak Stored) Time: 20:22  
 Peak Area (A-s): -0.000 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.46

Mean Conc (ug/L ): -1.06 Q SD: 0.566 RSD(%): 53.58

As ID: 7XX-JM3189 SS18 Seq. No.: 00103 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 12  
 Replicate 1 Time: 20:25  
 Peak Area (A-s): 0.059 Peak Height (A): 0.194  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.057

Concentration (ug/L ): 25.64

uL dispensed: 5 from 39, 5 from 34, 20 from 12  
 Replicate 2 (Peak Stored) Time: 20:29  
 Peak Area (A-s): 0.061 Peak Height (A): 0.199  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.023  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.65

Mean Conc (ug/L ): 26.14 SD: 0.715 RSD(%): 2.73

Recovery is 108.8%

As ID: 7XX-JM3190 SS19 Seq. No.: 00104 A/S Pos.: 13 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 13  
 Replicate 1 Time: 20:32  
 Peak Area (A-s): 0.002 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.049  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -0.22

uL dispensed: 5 from 0, 5 from 39, 20 from 13  
 Replicate 2 (Peak Stored) Time: 20:35  
 Peak Area (A-s): -0.001 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.82

Mean Conc (ug/L ): -1.02 Q SD: 1.135 RSD(%): 110.99

As ID: 7XX-JM3190 SS19 Seq. No.: 00105 A/S Pos.: 13 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 13  
 Replicate 1 Time: 20:39  
 Peak Area (A-s): 0.059 Peak Height (A): 0.195  
 Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 25.79

uL dispensed: 5 from 39, 5 from 34, 20 from 13  
 Replicate 2 (Peak Stored) Time: 20:42  
 Peak Area (A-s): 0.062 Peak Height (A): 0.194  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.026  
 Blank Corrected Pk Area (A-s): 0.060  
 Concentration (ug/L ): 26.97

Mean Conc (ug/L ): 26.38 SD: 0.838 RSD(%): 3.18

Recovery is 109.6%

As ID: 7XX-JM3191 SS20 Seq. No.: 00106 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 14  
 Replicate 1 Time: 20:46  
 Peak Area (A-s): -0.001 Peak Height (A): 0.008

Background Pk Area (A-s): 0.032      Background Pk Height (A): 0.035  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.59

dispensed: 5 from 0, 5 from 39, 20 from 14  
 Replicate 2 (Peak Stored)      Time: 20:49  
 Peak Area (A-s): -0.000      Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.032      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.40

Mean Conc (ug/L ):      -1.50 Q      SD: 0.132      RSD(%): 8.83

As ID: 7XX-JM3191 SS20      Seq. No.: 00107      A/S Pos.: 14      Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
 Replicate 1      Time: 20:52  
 Peak Area (A-s): 0.063      Peak Height (A): 0.179  
 Background Pk Area (A-s): 0.034      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.061  
 Concentration (ug/L ): 27.55

uL dispensed: 5 from 39, 5 from 34, 20 from 14  
 Replicate 2 (Peak Stored)      Time: 20:56  
 Peak Area (A-s): 0.063      Peak Height (A): 0.181  
 Background Pk Area (A-s): 0.034      Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.061  
 Concentration (ug/L ): 27.44

Mean Conc (ug/L ):      27.49      SD: 0.076      RSD(%): 0.28

Recovery is 115.9% (outside of specified limits)

As ID: CCV-0787      Seq. No.: 00108      A/S Pos.: 38      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 1      Time: 20:59  
 Peak Area (A-s): 0.050      Peak Height (A): 0.143  
 Background Pk Area (A-s): 0.025      Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.048  
 Concentration (ug/L ): 21.65

uL dispensed: 5 from 0, 5 from 39, 20 from 38  
 Replicate 2 (Peak Stored)      Time: 21:03  
 Peak Area (A-s): 0.051      Peak Height (A): 0.147  
 Background Pk Area (A-s): 0.024      Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.049  
 Concentration (ug/L ): 22.14

Mean Conc (ug/L ):      21.90      SD: 0.352      RSD(%): 1.61

sample is within range 18.4 - 22.6

As ID: CCB      Seq. No.: 00109      A/S Pos.: 0      Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1  
 Peak Area (A-s): 0.001  
 Background Pk Area (A-s): 0.019  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.90  
 Time: 21:06  
 Peak Height (A): 0.011  
 Background Pk Height (A): 0.029

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.001  
 Background Pk Area (A-s): 0.019  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.91  
 Time: 21:09  
 Peak Height (A): 0.007  
 Background Pk Height (A): 0.026

Mean Conc (ug/L ): -0.91 SD: 0.005 RSD(%): 0.53

QC sample is within range

As ID: 7XX-JM3192 SS21 Seq. No.: 00110 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
 Replicate 1  
 Peak Area (A-s): 0.003  
 Background Pk Area (A-s): 0.021  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -0.14  
 Time: 21:13  
 Peak Height (A): 0.010  
 Background Pk Height (A): 0.026

uL dispensed: 5 from 0, 5 from 39, 20 from 15  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): -0.002  
 Background Pk Area (A-s): 0.024  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -2.03  
 Time: 21:16  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.024

Mean Conc (ug/L ): -1.09 Q SD: 1.337 RSD(%): 123.16

As ID: 7XX-JM3192 SS21 Seq. No.: 00111 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
 Replicate 1  
 Peak Area (A-s): 0.061  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): 0.059  
 Concentration (ug/L ): 26.59  
 Time: 21:20  
 Peak Height (A): 0.189  
 Background Pk Height (A): 0.028

uL dispensed: 5 from 39, 5 from 34, 20 from 15  
 Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.064  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): 0.062  
 Concentration (ug/L ): 28.00  
 Time: 21:23  
 Peak Height (A): 0.194  
 Background Pk Height (A): 0.024

Mean Conc (ug/L ): 27.30 SD: 0.995 RSD(%): 3.65

Recovery is 113.5%

*Return  
2-19-94  
SB*



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 |    | Modifier |  |
|--------------|----------------|-------|----------|--------|---------|----|----------|--|
|              |                |       |          |        | Volume  | #1 | #2       |  |
| Calib. Blank | cal blk        | ----- | 0        | 20     | 5       | 5  |          |  |
| Standard 1   | Std #1 IN-0781 | 5.00  | 40       | 2      | 23      | 5  |          |  |
| Standard 2   | Std #2         | 10.00 | 40       | 4      | 21      | 5  |          |  |
| Standard 3   | Std #3         | 20.00 | 40       | 8      | 17      | 5  |          |  |
| Standard 4   | Std #4         | 30.00 | 40       | 12     | 13      | 5  |          |  |
| Standard 5   | Std #5         | 40.00 | 40       | 16     | 9       | 5  |          |  |
| Standard 6   | Std #6         | 50.00 | 40       | 20     | 5       | 5  |          |  |
| Samples      |                | ----- |          | 20     | 5       | 5  |          |  |

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

## Run Time/Temperature Program:

| Rep | 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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

5 uL of 100 ug/L Standard at Location 34 Gives 25.00 ug/L

Measure Recovery on Samples: 1-4, 7-10, 13-16, 19-22

Add to QC Samples: No

% Recovery Limits: 85 to 115

## QC:

| # | A/S | QC Sample ID | Conc. | Limits Lower | Upper | (After Calibr) | (Periodic Check) | (At End) | (Count Sample) |
|---|-----|--------------|-------|--------------|-------|----------------|------------------|----------|----------------|
| 1 | 37  | ICV-0788     | 29.5  | 29.5         | 36.1  | X              |                  |          |                |
|   | 0   | ICB          |       |              |       | X              |                  |          |                |
|   | 38  | CCV-0787     | 18.4  | 18.4         | 22.6  |                | X                | X        |                |
| 4 | 0   | CCB          |       |              |       |                | X                | X        |                |
| 5 | 36  | CRA-0789     | 7.50  | 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: 02/19/94                            Time: 07:28                    Slit: 0.70 L  
 Data File: AL021994.DAT                ID/Wt File: AL021994.IDW      Lamp Current: 0  
 Technique: HGA                            Calib. Type: Linear            Energy: 51  
 -----

As ID: cal blk                            Seq. No.: 00001                A/S Pos.: 0                    Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0  
 Sample abs. is greater than that of the largest standard.

Replicate 1                                Time: 07:31  
 Peak Area (A-s): 0.016                    Peak Height (A): 0.047  
 Background Pk Area (A-s): 0.028        Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 7.95

*Contaminated*  
*SB*  
*2-19-94*

uL dispensed: 5 from 0, 5 from 39, 20 from 0

As ID: cal blk                            Seq. No.: 00002                A/S Pos.: 0                    Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1                                Time: 07:46  
 Peak Area (A-s): 0.003                    Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.008        Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.65

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored)                Time: 07:49  
 Peak Area (A-s): -0.001                    Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.011        Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.71

Mean Conc (ug/L ):                    0.47                            SD: 1.669                            RSD(%): 355.53

Auto-zero performed.

As ID: Std #1 IN-0781                    Seq. No.: 00003                A/S Pos.: 40                    Date: 02/19/94

uL dispensed: 23 from 0, 5 from 39, 2 from 40

Replicate 1                                Time: 07:52  
 Peak Area (A-s): 0.016                    Peak Height (A): 0.058  
 Background Pk Area (A-s): 0.012        Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 7.41

uL dispensed: 23 from 0, 5 from 39, 2 from 40

Replicate 2 (Peak Stored)                Time: 07:56  
 Peak Area (A-s): 0.017                    Peak Height (A): 0.059  
 Background Pk Area (A-s): 0.012        Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 8.33

Mean Conc (ug/L ):                    7.87                            SD: 0.647                            RSD(%): 8.22

Standard number 1 applied. [5.00]

Correlation coefficient: 1.00000 Slope: 0.0031 Int: -0.000

ID: Std #2 Seq. No.: 00004 A/S Pos.: 40 Date: 02/19/94

. dispensed: 21 from 0, 5 from 39, 4 from 40
Replicate 1 Time: 07:59
Peak Area (A-s): 0.027 Peak Height (A): 0.109
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L ): 8.26

uL dispensed: 21 from 0, 5 from 39, 4 from 40
Replicate 2 (Peak Stored) Time: 08:03
Peak Area (A-s): 0.028 Peak Height (A): 0.125
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L ): 8.63

Mean Conc (ug/L ): 8.44 SD: 0.266 RSD(%): 3.15

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99438 Slope: 0.0026 Int: 0.001

As ID: Std #3 Seq. No.: 00005 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 17 from 0, 5 from 39, 8 from 40
Replicate 1 Time: 08:06
Peak Area (A-s): 0.045 Peak Height (A): 0.178
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L ): 16.63

uL dispensed: 17 from 0, 5 from 39, 8 from 40
Replicate 2 (Peak Stored) Time: 08:09
Peak Area (A-s): 0.047 Peak Height (A): 0.198
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L ): 17.39

Mean Conc (ug/L ): 17.01 SD: 0.540 RSD(%): 3.18

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99337 Slope: 0.0022 Int: 0.002

As ID: Std #4 Seq. No.: 00006 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 13 from 0, 5 from 39, 12 from 40
Replicate 1 Time: 08:13
Peak Area (A-s): 0.063 Peak Height (A): 0.258
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L ): 26.90

. dispensed: 13 from 0, 5 from 39, 12 from 40
Replicate 2 (Peak Stored) Time: 08:16
Peak Area (A-s): 0.066 Peak Height (A): 0.275

Background Pk Area (A-s): 0.017      Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.065  
 Concentration (ug/L ): 28.22

Mean Conc (ug/L ): 27.56      SD: 0.930      RSD(%): 3.37

Standard number 4 applied. [30.00]

Correlation coefficient: 0.99531      Slope: 0.0021      Int: 0.003

As ID: Std #5      Seq. No.: 00007      A/S Pos.: 40      Date: 02/19/94

uL dispensed: 9 from 0, 5 from 39, 16 from 40

Replicate 1      Time: 08:20  
 Peak Area (A-s): 0.084      Peak Height (A): 0.354  
 Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.083  
 Concentration (ug/L ): 38.74

uL dispensed: 9 from 0, 5 from 39, 16 from 40

Replicate 2 (Peak Stored)      Time: 08:23  
 Peak Area (A-s): 0.085      Peak Height (A): 0.303  
 Background Pk Area (A-s): 0.020      Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.084  
 Concentration (ug/L ): 39.08

Mean Conc (ug/L ): 38.91      SD: 0.238      RSD(%): 0.61

Standard number 5 applied. [40.00]

Correlation coefficient: 0.99739      Slope: 0.0020      Int: 0.004

As ID: Std #6      Seq. No.: 00008      A/S Pos.: 40      Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 40

Replicate 1      Time: 08:27  
 Peak Area (A-s): 0.104      Peak Height (A): 0.415  
 Background Pk Area (A-s): 0.018      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.103  
 Concentration (ug/L ): 49.22

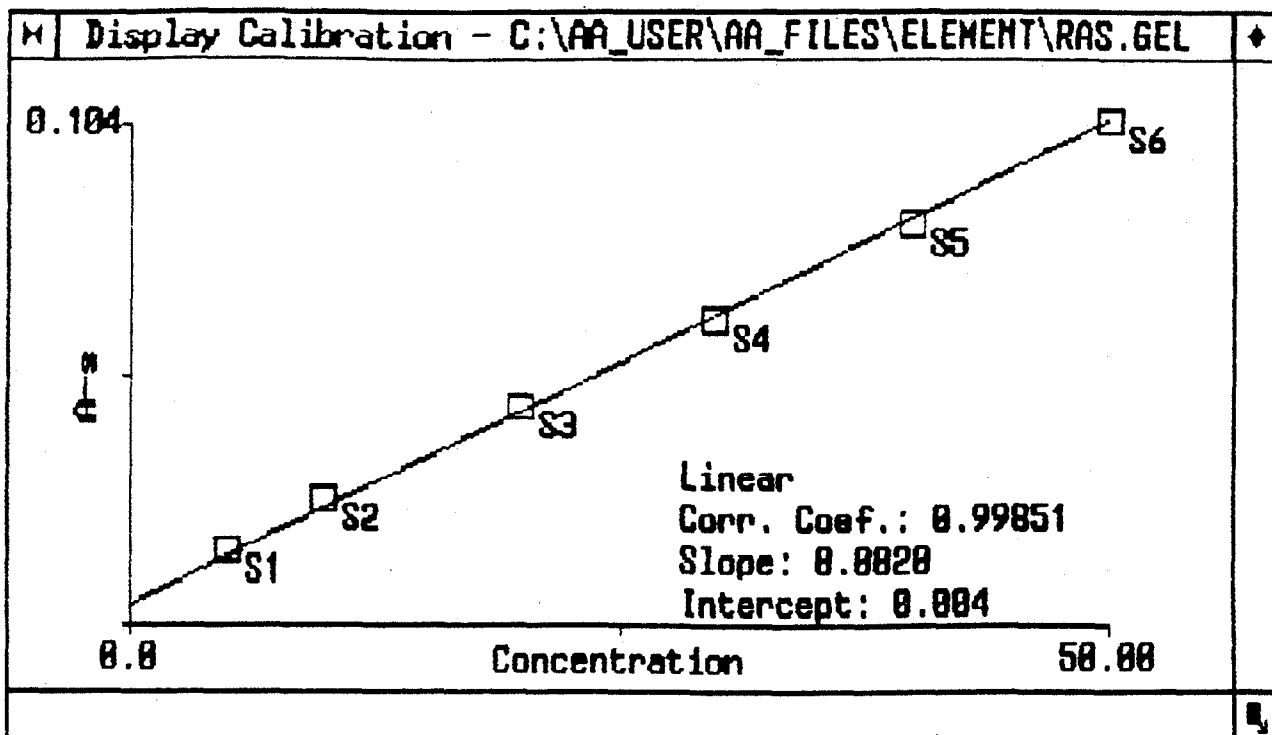
uL dispensed: 5 from 0, 5 from 39, 20 from 40

Replicate 2 (Peak Stored)      Time: 08:30  
 Peak Area (A-s): 0.107      Peak Height (A): 0.448  
 Background Pk Area (A-s): 0.017      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.106  
 Concentration (ug/L ): 50.47

Mean Conc (ug/L ): 49.85      SD: 0.887      RSD(%): 1.78

Standard number 6 applied. [50.00]

Correlation coefficient: 0.99851      Slope: 0.0020      Int: 0.004



As ID: ICV-0788 Seq. No.: 00009 A/S Pos.: 37 Date: 02/19/94

dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 1 Time: 08:35  
Peak Area (A-s): 0.069 Peak Height (A): 0.218  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.068  
Concentration (ug/L ): 32.11

uL dispensed: 5 from 0, 5 from 39, 20 from 37

Replicate 2 (Peak Stored) Time: 08:39  
Peak Area (A-s): 0.071 Peak Height (A): 0.197  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L ): 32.81

Mean Conc (ug/L ): 32.46 SD: 0.494 RSD(%): 1.52

QC sample is within range 29.5 - 36.1

As ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1 Time: 08:42  
Peak Area (A-s): 0.001 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -1.78

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored) Time: 08:45

Peak Area (A-s): 0.001                      Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.009            Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.99

Mean Conc (ug/L ):            -1.89                      SD: 0.143                      RSD(%): 7.61

QC sample is within range

-----  
 As ID: CRA-0789                      Seq. No.: 00011            A/S Pos.: 36            Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
 Replicate 1                              Time: 08:49  
 Peak Area (A-s): 0.024                      Peak Height (A): 0.091  
 Background Pk Area (A-s): 0.014            Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 9.72

uL dispensed: 5 from 0, 5 from 39, 20 from 36  
 Replicate 2 (Peak Stored)                Time: 08:52  
 Peak Area (A-s): 0.026                      Peak Height (A): 0.090  
 Background Pk Area (A-s): 0.013            Background Pk Height (A): 0.031  
 Blank Corrected Pk Area (A-s): 0.025  
 Concentration (ug/L ): 10.46

Mean Conc (ug/L ):            10.09                      SD: 0.522                      RSD(%): 5.17

QC sample is within range 7.50 - 12.5

-----  
 As ID: 7XX-JM3192 SS21                Seq. No.: 00012            A/S Pos.: 1            Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 1  
 Replicate 1                              Time: 08:56  
 Peak Area (A-s): 0.002                      Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.017            Background Pk Height (A): 0.021  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.32

uL dispensed: 5 from 0, 5 from 39, 20 from 1  
 Replicate 2 (Peak Stored)                Time: 08:59  
 Peak Area (A-s): 0.001                      Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.020            Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.91

Mean Conc (ug/L ):            -1.62                      SD: 0.420                      RSD(%): 25.97

-----  
 As ID: 7XX-JM3192 SS21                Seq. No.: 00013            A/S Pos.: 1            Date: 02/19/94

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
 Replicate 1                              Time: 09:03  
 Peak Area (A-s): 0.058                      Peak Height (A): 0.205  
 Background Pk Area (A-s): 0.020            Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L ): 26.33

uL dispensed: 5 from 39, 5 from 34, 20 from 1  
 Replicate 2 (Peak Stored) Time: 09:06  
 Peak Area (A-s): 0.057 Peak Height (A): 0.191  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.022  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 25.79

Mean Conc (ug/L ): 26.06 SD: 0.382 RSD(%): 1.46

Recovery is 110.7%

As ID: TCLP BLK 3791 Seq. No.: 00014 A/S Pos.: 2 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
 Replicate 1 Time: 09:10  
 Peak Area (A-s): 0.001 Peak Height (A): 0.009  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.029  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -1.85

uL dispensed: 5 from 0, 5 from 39, 20 from 2  
 Replicate 2 (Peak Stored) Time: 09:14  
 Peak Area (A-s): -0.000 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -2.37

Mean Conc (ug/L ): -2.11 SD: 0.366 RSD(%): 17.34

As ID: TCLP BLK 3791 Seq. No.: 00015 A/S Pos.: 2 Date: 02/19/94

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
 Replicate 1 Time: 09:17  
 Peak Area (A-s): 0.056 Peak Height (A): 0.173  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.055  
 Concentration (ug/L ): 25.55

uL dispensed: 5 from 39, 5 from 34, 20 from 2  
 Replicate 2 (Peak Stored) Time: 09:21  
 Peak Area (A-s): 0.055 Peak Height (A): 0.167  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.022  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 25.07

Mean Conc (ug/L ): 25.31 SD: 0.339 RSD(%): 1.34

Recovery is 109.7%

As ID: PBL-Q7R3809 Seq. No.: 00016 A/S Pos.: 3 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 3  
 Replicate 1 Time: 09:24  
 Peak Area (A-s): 0.001 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.027  
 Blank Corrected Pk Area (A-s): 0.000



Concentration (ug/L ): -1.68

uL dispensed: 5 from 0, 5 from 39, 20 from 3

Replicate 2 (Peak Stored) Time: 09:28  
 Peak Area (A-s): 0.001 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -1.75

Mean Conc (ug/L ): -1.71  $\text{\textcircled{Q}}$  SD: 0.049 RSD(%): 2.84

As ID: PBL-Q7R3809 Seq. No.: 00017 A/S Pos.: 3 Date: 02/19/94

uL dispensed: 5 from 39, 5 from 34, 20 from 3

Replicate 1 Time: 09:31  
 Peak Area (A-s): 0.052 Peak Height (A): 0.180  
 Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 23.60

uL dispensed: 5 from 39, 5 from 34, 20 from 3

Replicate 2 (Peak Stored) Time: 09:35  
 Peak Area (A-s): 0.055 Peak Height (A): 0.159  
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 24.99

Mean Conc (ug/L ): 24.29 SD: 0.982 RSD(%): 4.04

Recovery is 104.0%

As ID: LCSL-Q7R3809 Seq. No.: 00018 A/S Pos.: 4 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 1 Time: 09:38  
 Peak Area (A-s): 0.045 Peak Height (A): 0.126  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.044  
 Concentration (ug/L ): 20.10

uL dispensed: 5 from 0, 5 from 39, 20 from 4

Replicate 2 (Peak Stored) Time: 09:42  
 Peak Area (A-s): 0.047 Peak Height (A): 0.132  
 Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.046  
 Concentration (ug/L ): 21.17

Mean Conc (ug/L ): 20.63  $\text{\textcircled{Q}}$  SD: 0.751 RSD(%): 3.64

As ID: LCSL-Q7R3809 Seq. No.: 00019 A/S Pos.: 4 Date: 02/19/94

uL dispensed: 5 from 39, 5 from 34, 20 from 4

Replicate 1 Time: 09:45  
 Peak Area (A-s): 0.097 Peak Height (A): 0.335  
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.051  
 Blank Corrected Pk Area (A-s): 0.096

Concentration (ug/L ): 46.04

uL dispensed: 5 from 39, 5 from 34, 20 from 4

Replicate 2 (Peak Stored)

Time: 09:49

Peak Area (A-s): 0.097

Peak Height (A): 0.360

Background Pk Area (A-s): 0.017

Background Pk Height (A): 0.037

Blank Corrected Pk Area (A-s): 0.096

Concentration (ug/L ): 45.75

Mean Conc (ug/L ): 45.89

SD: 0.201

RSD(%): 0.44

Recovery is 101.0%

As ID: 7SM-JM3447 MTXS Seq. No.: 00020 A/S Pos.: 5 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 5

Replicate 1

Time: 09:52

Peak Area (A-s): 0.053

Peak Height (A): 0.112

Background Pk Area (A-s): 0.157

Background Pk Height (A): 0.162

Blank Corrected Pk Area (A-s): 0.053

Concentration (ug/L ): 24.21

uL dispensed: 5 from 0, 5 from 39, 20 from 5

Replicate 2 (Peak Stored)

Time: 09:56

Peak Area (A-s): 0.050

Peak Height (A): 0.105

Background Pk Area (A-s): 0.120

Background Pk Height (A): 0.095

Blank Corrected Pk Area (A-s): 0.049

Concentration (ug/L ): 22.39

Mean Conc (ug/L ): 23.30

SD: 1.284

RSD(%): 5.51

As ID: 7SD-JM3447 MTXR Seq. No.: 00021 A/S Pos.: 6 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 6

Replicate 1

Time: 09:59

Peak Area (A-s): 0.050

Peak Height (A): 0.108

Background Pk Area (A-s): 0.117

Background Pk Height (A): 0.098

Blank Corrected Pk Area (A-s): 0.049

Concentration (ug/L ): 22.37

uL dispensed: 5 from 0, 5 from 39, 20 from 6

Replicate 2 (Peak Stored)

Time: 10:03

Peak Area (A-s): 0.050

Peak Height (A): 0.103

Background Pk Area (A-s): 0.162

Background Pk Height (A): 0.151

Blank Corrected Pk Area (A-s): 0.049

Concentration (ug/L ): 22.44

Mean Conc (ug/L ): 22.40

SD: 0.048

RSD(%): 0.21

As ID: CCV-0787 Seq. No.: 00022 A/S Pos.: 38 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 1

Time: 10:06

Peak Area (A-s): 0.046

Peak Height (A): 0.114

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.029

Blank Corrected Pk Area (A-s): 0.045

Concentration (ug/L ): 20.45

uL dispensed: 5 from 0, 5 from 39, 20 from 38

Replicate 2 (Peak Stored)

Time: 10:10

Peak Area (A-s): 0.046

Peak Height (A): 0.127

Background Pk Area (A-s): 0.021

Background Pk Height (A): 0.027

Blank Corrected Pk Area (A-s): 0.045

Concentration (ug/L ): 20.68

Mean Conc (ug/L ): 20.56

SD: 0.162

RSD(%): 0.79

QC sample is within range 18.4 - 22.6

As ID: CCB

Seq. No.: 00023

A/S Pos.: 0

Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 1

Time: 10:13

Peak Area (A-s): -0.001

Peak Height (A): 0.006

Background Pk Area (A-s): 0.010

Background Pk Height (A): 0.013

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -2.76

uL dispensed: 5 from 0, 5 from 39, 20 from 0

Replicate 2 (Peak Stored)

Time: 10:16

Peak Area (A-s): 0.001

Peak Height (A): 0.008

Background Pk Area (A-s): 0.009

Background Pk Height (A): 0.013

Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L ): -2.11

Mean Conc (ug/L ): -2.44

SD: 0.465

RSD(%): 19.10

QC sample is within range

As ID: 7XX-JM3447 CO-2

Seq. No.: 00024

A/S Pos.: 7

Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7

Replicate 1

Time: 10:20

Peak Area (A-s): 0.004

Peak Height (A): 0.012

Background Pk Area (A-s): 0.162

Background Pk Height (A): 0.175

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): -0.58

uL dispensed: 5 from 0, 5 from 39, 20 from 7

Replicate 2 (Peak Stored)

Time: 10:23

Peak Area (A-s): 0.004

Peak Height (A): 0.013

Background Pk Area (A-s): 0.125

Background Pk Height (A): 0.093

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): -0.46

Mean Conc (ug/L ): -0.52

SD: 0.084

RSD(%): 16.04

ID: 7XX-JM3447 CO-2

Seq. No.: 00025

A/S Pos.: 7

Date: 02/19/94

dispensed: 5 from 39, 5 from 34, 20 from 7

Replicate 1

Time: 10:27

Peak Area (A-s): 0.059

Peak Height (A): 0.131

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94

Method: 7421

Analyst: SBB

Calibration STD: IN0785

Modifier: Mixed

Correlation: 0.99852

Slope: 0.0057

Int: 0.009

Data File: AC22194

Gases: Argon / 5% Hydrogen Argon

| Run #                                  | Job ID #                                   | Project #   | Sample #                  | Batch # | Dilutions          |
|----------------------------------------|--------------------------------------------|-------------|---------------------------|---------|--------------------|
| 1                                      | CAL BLK                                    | 0 ppb Pb    |                           |         |                    |
| 2                                      | STD 1                                      | 4.0 ppb Pb  |                           |         |                    |
| 3                                      | STD 2                                      | 10.0 ppb Pb |                           |         |                    |
| 4                                      | STD 3                                      | 20.0 ppb Pb |                           |         |                    |
| 5                                      | STD 4                                      | 30.0 ppb Pb |                           |         |                    |
| 6                                      | STD 5                                      | 40.0 ppb Pb |                           |         |                    |
| 7                                      | STD 6                                      | 50.0 ppb Pb |                           |         |                    |
| 8                                      | ICV                                        | pass        |                           |         |                    |
| 9                                      | ICB                                        | ↓           |                           |         |                    |
| 10                                     | CRA                                        | ↓           |                           |         |                    |
| 11                                     | N7R3773R                                   | -           | MET BLK                   | N7R3773 | 1x                 |
| 12                                     | ↓                                          | ↓           | ↓                         |         | post spike         |
| 13                                     | N7R3773RS                                  | ↓           | MET SPK                   |         |                    |
| 14                                     | <del>Jm 3178RS</del> <sup>SB 2-22-94</sup> | ↓           | ↓                         |         | post spike         |
| 15                                     | Jm 3178RS                                  | 15226N      | MIX SPK<br>CLJ-CSS-07     |         |                    |
| 16                                     | Jm 3178RR                                  | ↓           | MIX SPK REP<br>CLJ-CSS-07 |         |                    |
| <del>17</del> <sup>SB 2-22-94</sup> 18 | Jm 3178RR                                  | ↓           | ↓                         |         |                    |
| <del>18</del> 19                       | Jm 3178R                                   | ↓           | CLJ-CSS-07                |         |                    |
| <del>19</del> 20                       | Jm 3178R                                   | ↓           | ↓                         |         | SB 2-22-94<br>post |
| <del>20</del> 21                       | Jm 3178R                                   | ↓           | ↓                         |         | post-spike         |
| <del>21</del> 22                       | CCV                                        | Aborted     |                           |         |                    |
| <del>22</del> 23                       | CCV                                        | pass        |                           |         |                    |

COMMENTS/MAINTENANCE:

No sequence run #17.

# AA Daily Run Log -- Perkin Elmer 5100

Date: 03/21/94 cont.

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: \_\_\_\_\_

Modifier: \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run #            | Job ID #  | Project # | Sample #                | Batch # | Dilutions |
|------------------|-----------|-----------|-------------------------|---------|-----------|
| 24               | CCB       | pass      |                         |         |           |
| 25               | Jm3178R   | 15226N    | CL5-CSS-C7              | N7R3773 | 1x        |
| 26               | ↓         |           | ↓                       |         |           |
| 27               | Jm3178R   |           | DUPLICATE<br>CL5-CSS-C7 |         | post-f    |
| 28               |           |           |                         |         | post:     |
| <del>29</del> 30 |           |           |                         |         |           |
| <del>31</del>    |           |           |                         |         | postsp    |
| 31 32            | ↓         | ↓         | ↓                       | ↓       | postsp    |
| 32 33            | Jm3169R   | Aborted   |                         |         |           |
| 33 34            | Jm3170R   | ↓         |                         |         |           |
| <del>34</del> 35 | CAL BLANK |           |                         |         |           |
| 36               | STD1      |           |                         |         |           |
| 37               | STD2      |           |                         |         |           |
| 38               | STD3      |           |                         |         |           |
| 39               | STD4      |           |                         |         |           |
| 40               | STD5      |           |                         |         |           |
| 41               | STD6      |           |                         |         |           |
| 42               | STD4      |           |                         |         |           |
| 43               | STD6      |           |                         |         |           |
| 44               | CAL BLANK |           |                         |         |           |
| 45               | STD1      |           |                         |         |           |
| 46               | STD2      |           |                         |         |           |

COMMENTS/MAINTENANCE:

No Sequence Run # 29

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: ~~7~~NO785

Modifier: ~~0-CT3~~ SB

Correlation: 0.99731

Slope: 0.0062

Int: 0.0000

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run # | Job ID #        | Project #    | Sample #                | Batch # | Dilutions |
|-------|-----------------|--------------|-------------------------|---------|-----------|
| 47    | STD 3           |              |                         |         |           |
| 48    | STD 4           |              |                         |         |           |
| 49    | STD 5           |              |                         |         |           |
| 50    | STD 6           |              |                         |         |           |
| 51    | ICV             | pass         |                         |         |           |
| 52    | ICB             | pass         |                         |         |           |
| 53    | CRA             | fail, re-run |                         |         |           |
| 54    | CRA             | pass         |                         |         |           |
| 55    | JM3178R         | 15226N       | CLS-CSS-C7              | N7R3773 | 1X        |
| 56    | ↓               |              | ↓                       |         | PS        |
| 57    | JM3178R         |              | DUPLICATE<br>CLS-CSS-C7 |         |           |
| 58    | SB222-1<br>JM ↓ |              | ↓                       |         | PS        |
| 59    | JM317CR         |              | CLS-CSS-C1A             |         |           |
| 60    | ↓               |              | ↓                       |         | PS        |
| 61    | JM3172R         |              | CLS-CSS-C1              |         |           |
| 62    | ↓               |              | ↓                       |         | PS        |
| 63    | JM3173R         |              | CLS-CSS-C2              |         |           |
| 64    | ↓               |              | ↓                       |         | PS        |
| 65    | CCV             | pass         |                         |         |           |
| 66    | CCB             | pass         |                         |         |           |
| 67    | JM3174R         | 15226N       | CLS-CSS-03              | N7R3773 | 1X        |
| 68    | ↓               | ↓            | ↓                       | ↓       | PS        |

COMMENTS/MAINTENANCE:

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## AA Daily Run Log -- Perkin Elmer 5100

Page: 004

Date: 02/21/94 cont.

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: \_\_\_\_\_

Modifier: \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run #                 | Job ID #  | Project # | Sample #                  | Batch # | Dilutions |
|-----------------------|-----------|-----------|---------------------------|---------|-----------|
| 69                    | JM3175R   | 15226N    | CLS-CSS-04                | N7R3773 | 1x        |
| 70                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 71                    | JM3176R   | ↓         | CLS-CSS-05                | ↓       | ↓         |
| 72                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 73                    | JM3177R   | ↓         | CLS-CSS-06                | ↓       | ↓         |
| 74                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 75                    | TCLP BLK  | —         | 2-9-94                    | ↓       | ↓         |
| 76                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 77                    | CCV       | PASS      |                           |         |           |
| 78                    | CCB       | PASS      |                           |         |           |
| 79                    | N7R3791R  | —         | MET BLK                   | N7R3791 | 1x        |
| 80                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 81                    | N7R3791RS | —         | MET-SPK                   |         |           |
| 82                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 83                    | JM3193RS  | 15226N    | MTX SPK<br>CLS-CSS-22     |         |           |
| 84                    | JM3193RR  | ↓         | MTX SPK REP<br>CLS-CSS-22 |         |           |
| 85                    | JM3193R   | ↓         | CLS-CSS-22                |         |           |
| 86                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 87                    | JM3193R   | ↓         | DUPLICATE<br>CLS-CSS-22   |         |           |
| 88                    | ↓         | ↓         | ↓                         | ↓       | ↓ p.s.    |
| 89                    | CCV       | PASS      |                           |         |           |
| 90                    | CCB       | PASS      |                           |         |           |
| COMMENTS/MAINTENANCE: |           |           |                           |         |           |
|                       |           |           |                           |         |           |
|                       |           |           |                           |         |           |
|                       |           |           |                           |         |           |

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 cont.

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: \_\_\_\_\_

Modifier: \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run # | Job ID # | Project # | Sample #   | Batch # | Dilutions |
|-------|----------|-----------|------------|---------|-----------|
| 91    | Jm3184R  | 15226N    | CLJ-CSS-13 | N7R3791 | 1x        |
| 92    | ↓        | ↓         | ↓          | ↓       | ps        |
| 93    | Jm3185R  | ↓         | CLJ-CSS-14 | ↓       | ↓         |
| 94    | ↓        | ↓         | ↓          | ↓       | ps        |
| 95    | Jm3186R  | ↓         | CLJ-CSS-15 | ↓       | ↓         |
| 96    | ↓        | ↓         | ↓          | ↓       | ps        |
| 97    | CCV      | pass      |            |         |           |
| 98    | CCB      | pass      |            |         |           |
| 99    | Jm3189R  | 19226N    | CLJ-CSS-18 | N7R3791 | 1x        |
| 100   | ↓        | ↓         | ↓          | ↓       | ps        |
| 101   | Jm3190R  | ↓         | CLJ-CSS-19 | ↓       | ↓         |
| 102   | CCV      | pass      |            |         |           |
| 103   | CCB      | pass      |            |         |           |
| 104   | Jm3187R  | 15226N    | CLJ-CSS-16 | N7R3791 | 1x        |
| 105   | ↓        | ↓         | ↓          | ↓       | ps        |
| 106   | Jm3184R  | ↓         | CLJ-CSS-18 | ↓       | ↓         |
| 107   | ↓        | ↓         | ↓          | ↓       | ps        |
| 108   | ↓        | ↓         | ↓          | ↓       | ↓         |
| 109   | ↓        | ↓         | ↓          | ↓       | ps        |
| 110   | Jm3190R  | ↓         | CLJ-CSS-19 | ↓       | ↓         |
| 111   | ↓        | ↓         | ↓          | ↓       | ps        |
| 112   | Jm3191R  | ↓         | CLJ-CSS-20 | ↓       | ↓         |

COMMENTS/MAINTENANCE:

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



AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: \_\_\_\_\_

Modifier: \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run # | Job ID #  | Project #   | Sample #                  | Batch # | Dilutions |
|-------|-----------|-------------|---------------------------|---------|-----------|
| 113   | JM3191R   | 15226N      | CLJ-CSS-20                | N7R3791 | 1x p.s    |
| 114   | CCV       | aborted     |                           |         |           |
| 115   | CCV       | fail, rerun |                           |         |           |
| 116   | CCV       | pass        |                           |         |           |
| 117   | CCB       | pass        |                           |         |           |
| 118   | JM3192R   | 15226N      | CLJ-CSS-21                | N7R3791 | 1x        |
| 119   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 120   | TCLP BLK  | —           | 2-14-94                   |         |           |
| 121   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 122   | N7R3777R  | —           | MET BLK                   | N7R3777 | 1x        |
| 123   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 124   | N7R3777RS |             | MET SPK                   |         |           |
| 125   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 126   | JM3183RS  | 15226N      | MTX SPK<br>CLJ-CSS-12     |         |           |
| 127   | JM3183RR  | ↓           | MTX SPK REP<br>CLJ-CSS-12 | ↓       | ↓         |
| 128   | CCV       |             |                           |         |           |
| 129   | CCB       |             |                           |         |           |
| 130   | JM3183R   | 15226N      | CLJ-CSS-12                | N7R3777 | 1x        |
| 131   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 132   | JM3183R   |             | DUPLICATE<br>CLJ-CSS-12   |         |           |
| 133   | ↓         | ↓           | ↓                         | ↓       | ps        |
| 134   | JM3179R   |             | CLJ-CSS-08                |         |           |

COMMENTS/MAINTENANCE:

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

# AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94

Method: \_\_\_\_\_

Analyst: SBB

Calibration STD: \_\_\_\_\_

Modifier: \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: A022194

Gases: Argon / 5% Hydrogen Argon

| Run #                       | Job ID # | Project # | Sample #   | Batch # | Dilutions |
|-----------------------------|----------|-----------|------------|---------|-----------|
| 135                         | JM3179R  | 15226N    | CLJ-CSS-08 | N7R3777 | 1x p.s    |
| 136                         | JM3180R  | ↓         | CLJ-CSS-09 | ↓       | ↓         |
| 137                         | ↓        | ↓         | ↓          | ↓       | ↓ p.s     |
| 138                         | JM3181R  | ↓         | CLJ-CSS-10 | ↓       | ↓         |
| 139                         | ↓        | ↓         | ↓          | ↓       | ↓ p.s     |
| 140                         | CCV      | pass      |            |         |           |
| 141                         | CCB      | pass      |            |         |           |
| 142                         | JM3182R  | 15226N    | CLJ-CSS-11 | N7R3777 | 1x        |
| 143                         | ↓        | ↓         | ↓          | ↓       | ↓ p.s     |
| 144                         | JM3189R  | ↓         | CLJ-CSS-18 | N7R3791 | 2x        |
| 145                         | ↓        | ↓         | ↓          | ↓       | ↓ p.s     |
| 146                         | CCV      | pass      |            |         |           |
| 147                         | CCB      | pass      |            |         |           |
| 148                         | CRA      | —         |            |         |           |
| <i>Susan Rutger</i> 2-26-94 |          |           |            |         |           |

COMMENTS/MAINTENANCE:

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```

-----
Element File: PBDK.GEL      Element: Pb      Wavelength: 283.3
Date: 02/22/94            Time: 08:14     Slit: 0.70 L
Data File: A022294.DAT    ID/Wt File: B022194.IDW
Technique: HGA            Calib. Type: Linear      Energy: 62
-----

```

```

-----
Pb   ID: CAL BLK           Seq. No.: 00001   A/S Pos.: 0      Date: 02/22/94
-----

```

```

Pb   ID: STD 1 IN0785     Seq. No.: 00002   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0083      Int: 0.000
-----

```

```

Pb   ID: STD 2           Seq. No.: 00003   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99675      Slope: 0.0070      Int: 0.002
-----

```

```

Pb   ID: STD 3           Seq. No.: 00004   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99713      Slope: 0.0062      Int: 0.005
-----

```

```

Pb   ID: STD 4           Seq. No.: 00005   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99810      Slope: 0.0059      Int: 0.006
-----

```

```

Pb   ID: STD 5           Seq. No.: 00006   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99845      Slope: 0.0057      Int: 0.008
-----

```

```

Pb   ID: STD 6           Seq. No.: 00007   A/S Pos.: 40     Date: 02/22/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99823      Slope: 0.0056      Int: 0.010
-----

```

```

Pb   ID: ICV-0791        Seq. No.: 00008   A/S Pos.: 37     Date: 02/22/94
-----

```

```

Pb   ID: ICB             Seq. No.: 00009   A/S Pos.: 0      Date: 02/22/94
-----

```

```

Pb   ID: CRA-0792        Seq. No.: 00010   A/S Pos.: 36     Date: 02/22/94
-----

```

```

Pb   ID: 7XX-JM3182 SS11 Seq. No.: 00011   A/S Pos.: 16     Date: 02/22/94
-----

```

## Analytical Report

Date: 02/23/94

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00012 A/S Pos.: 16 Date: 02/22/94

Pb ID: CCV-0790 Seq. No.: 00013 A/S Pos.: 38 Date: 02/22/94

Pb ID: CCB Seq. No.: 00014 A/S Pos.: 0 Date: 02/22/94

Element File: PBDK.GEL

Element: Pb

Wavelength: 283.3

Date: 02/22/94

Time: 10:03

Slit: 0.70 L

Data File: A022294.DAT

ID/Wt File: B022194.IDW

Technique: HGA

Calib. Type: Linear

Energy: 62

Pb ID: PBL-Q7R3823 Seq. No.: 00015 A/S Pos.: 1 Date: 02/22/94

Pb ID: PBL-Q7R3823 Seq. No.: 00016 A/S Pos.: 1 Date: 02/22/94

Pb ID: LC SL-Q7R3823 Seq. No.: 00017 A/S Pos.: 2 Date: 02/22/94

Pb ID: LC SL-Q7R3823 Seq. No.: 00018 A/S Pos.: 2 Date: 02/22/94

Pb ID: 7SM-JM3473 MTXS Seq. No.: 00019 A/S Pos.: 3 Date: 02/22/94

Pb ID: 7SD-JM3473 MTXR Seq. No.: 00020 A/S Pos.: 4 Date: 02/22/94

Pb ID: 7XX-JM3473 0102 Seq. No.: 00021 A/S Pos.: 5 Date: 02/22/94

Pb ID: 7XX-JM3473 0102 Seq. No.: 00022 A/S Pos.: 5 Date: 02/22/94

Pb ID: 7XX-JM3473 DUP Seq. No.: 00023 A/S Pos.: 6 Date: 02/22/94

Pb ID: 7XX-JM3473 DUP Seq. No.: 00024 A/S Pos.: 6 Date: 02/22/94

Pb ID: CCV-0790 Seq. No.: 00025 A/S Pos.: 38 Date: 02/22/94

Pb ID: CCB Seq. No.: 00026 A/S Pos.: 0 Date: 02/22/94

Pb ID: PBL-Q7R3809 Seq. No.: 00027 A/S Pos.: 7 Date: 02/22/94

Element File: PBDK.GEL

Element: Pb

Print Data: Main+Suppl.

Print: Calib. Curve+Elem. Params.

Analyst: RLS

Peak Storage: 1 Repl./Sample

INSTRUMENT: 5100

Technique: HGA

Version: 7.10

Wavelength: 283.3 Peak

Slit: 0.7 Low

Signal Type: Zeeman AA

Signal Measurement: Peak Area

Read Time: 7.0

Read Delay: 0.0

BOC Time: 2

Sample Replicates: 2

Standard Replicates: 2

Spike Replicates: Same as Sample

## CALIBRATION:

| Solutions    | ID           | Conc | Location | Volume | Diluent<br>Volume | Modifier |    |
|--------------|--------------|------|----------|--------|-------------------|----------|----|
|              |              |      |          |        |                   | #1       | #2 |
| Calib. Blank | CAL BLK      |      | 0        | 25     | 10                | 5        |    |
| Standard 1   | STD 1 IN0785 | 4.0  | 40       | 2      | 10                | 5        |    |
| Standard 2   | STD 2        | 10.0 | 40       | 5      | 10                | 5        |    |
| Standard 3   | STD 3        | 20.0 | 40       | 10     | 10                | 5        |    |
| Standard 4   | STD 4        | 30.0 | 40       | 15     | 10                | 5        |    |
| Standard 5   | STD 5        | 40.0 | 40       | 20     | 10                | 5        |    |
| Standard 6   | STD 6        | 50.0 | 40       | 25     | 10                | 5        |    |
| Samples      |              |      |          | 25     | 10                | 5        |    |

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

## Furnace Time/Temperature Program:

| Step | Temp | Ramp | Hold | Gas Flow | Read | Gas Type |
|------|------|------|------|----------|------|----------|
| 1    | 110  | 10   | 30   | 300      |      | Alt      |
| 2    | 150  | 5    | 10   | 300      |      | Alt      |
| 3    | 600  | 10   | 40   | 300      |      | Alt      |
| 4    | 20   | 1    | 10   | 300      |      | Alt      |
| 5    | 1750 | 0    | 5    | 0        | *    | Alt      |
| 6    | 2500 | 1    | 5    | 300      |      | Alt      |

Injection Temp: 20

Pipette Speed: 100%

## SEQUENCE:

Step Action and Parameters

1 Pipet modifier 1 + diluent + spike + sample/std

2 Run HGA steps 1 to End

## CHECKS:

Recalibration Type: Autozero Only

Locations: None

Conc. Above Calibration Action: Dilute &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 5

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4.0 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L

Measure Recovery on Samples: 1-2,5-16,19-29

Add to QC Samples: No

% Recovery Limits: 85 to 115

## QC:

| # | A/S  | QC Sample | Conc. Limits |       | After | Periodic | At  | Count As |
|---|------|-----------|--------------|-------|-------|----------|-----|----------|
|   | Loc. | ID        | Lower        | Upper | Calib | Check    | End | Sample   |
| 1 | 37   | ICV-0791  | 31.8         | 38.8  | X     |          |     |          |
| 2 | 0    | ICB       |              |       | X     |          |     |          |
| 3 | 38   | CCV-0790  | 19.1         | 23.3  |       | X        | X   |          |
| 4 | 0    | CCB       |              |       |       | X        | X   |          |
| 5 | 36   | CRA-0792  | 2.25         | 3.75  | X     |          | X   |          |

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

## Matrix Check Calculations:

% Difference for Dupls: No

Locations: 1,2

% Recovery for Spike: No

Locations: 3,4

Conc: 20 ug/L

Pb ID: CAL BLK Seq. No.: 00001 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1

Time: 06:55

Peak Area (A-s): 0.006

Peak Height (A): 0.007

Background Pk Area (A-s): 0.028

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.005

Concentration (ug/L ): -2.0

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored)

Time: 06:58

Peak Area (A-s): 0.003

Peak Height (A): 0.008

Background Pk Area (A-s): 0.086      Background Pk Height (A): 0.024  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -2.4

Mean Conc (ug/L ):            -2.2            SD: 0.28            RSD(%): 12.65

Auto-zero performed.

-----

Pb    ID: STD 1 IN0785            Seq. No.: 00002      A/S Pos.: 40      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
 Replicate 1                      Time: 07:01  
 Peak Area (A-s): 0.039            Peak Height (A): 0.065  
 Background Pk Area (A-s): 0.112      Background Pk Height (A): 0.030  
 Blank Corrected Pk Area (A-s): 0.034  
 Concentration (ug/L ): 3.1

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
 Replicate 2 (Peak Stored)            Time: 07:05  
 Peak Area (A-s): 0.036            Peak Height (A): 0.061  
 Background Pk Area (A-s): 0.122      Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): 0.032  
 Concentration (ug/L ): 2.7

Mean Conc (ug/L ):            2.9            SD: 0.28            RSD(%): 9.52

Standard number 1 applied. [4.0]  
 Correlation coefficient: 1.00000      Slope: 0.0082            Int: 0.000

-----

Pb    ID: STD 2                      Seq. No.: 00003      A/S Pos.: 40      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40  
 Replicate 1                      Time: 07:09  
 Peak Area (A-s): 0.074            Peak Height (A): 0.123  
 Background Pk Area (A-s): 0.150      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): 0.069  
 Concentration (ug/L ): 8.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40  
 Replicate 2 (Peak Stored)            Time: 07:12  
 Peak Area (A-s): 0.072            Peak Height (A): 0.118  
 Background Pk Area (A-s): 0.122      Background Pk Height (A): 0.034  
 Blank Corrected Pk Area (A-s): 0.068  
 Concentration (ug/L ): 8.3

Mean Conc (ug/L ):            8.3            SD: 0.09            RSD(%): 1.10

Standard number 2 applied. [10.0]  
 Correlation coefficient: 0.99576      Slope: 0.0068            Int: 0.002

-----

Pb    ID: STD 3                      Seq. No.: 00004      A/S Pos.: 40      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 10 from 40  
 Replicate 1                      Time: 07:15  
 Peak Area (A-s): 0.135            Peak Height (A): 0.229  
 Background Pk Area (A-s): 0.246      Background Pk Height (A): 0.077



Blank Corrected Pk Area (A-s): 0.130  
Concentration (ug/L ): 18.9

uL dispensed: 5 from 39, 10 from 0, 10 from 40  
Replicate 2 (Peak Stored) Time: 07:18  
Peak Area (A-s): 0.133 Peak Height (A): 0.222  
Background Pk Area (A-s): 0.203 Background Pk Height (A): 0.062  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 18.7

Mean Conc (ug/L ): 18.8 SD: 0.16 RSD(%): 0.86

Standard number 3 applied. [20.0]  
Correlation coefficient: 0.99831 Slope: 0.0064 Int: 0.004

~~~~~  
Pb ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 15 from 40
Replicate 1 Time: 07:22
Peak Area (A-s): 0.195 Peak Height (A): 0.311
Background Pk Area (A-s): 0.195 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.190
Concentration (ug/L): 29.3

uL dispensed: 5 from 39, 10 from 0, 15 from 40
Replicate 2 (Peak Stored) Time: 07:25
Peak Area (A-s): 0.191 Peak Height (A): 0.311
Background Pk Area (A-s): 0.215 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.187
Concentration (ug/L): 28.8

Mean Conc (ug/L): 29.1 SD: 0.36 RSD(%): 1.25

Standard number 4 applied. [30.0]
Correlation coefficient: 0.99908 Slope: 0.0062 Int: 0.005

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Pb ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 20 from 40  
Replicate 1 Time: 07:29  
Peak Area (A-s): 0.241 Peak Height (A): 0.393  
Background Pk Area (A-s): 0.287 Background Pk Height (A): 0.122  
Blank Corrected Pk Area (A-s): 0.236  
Concentration (ug/L ): 37.4

uL dispensed: 5 from 39, 10 from 0, 20 from 40  
Replicate 2 (Peak Stored) Time: 07:32  
Peak Area (A-s): 0.242 Peak Height (A): 0.394  
Background Pk Area (A-s): 0.354 Background Pk Height (A): 0.128  
Blank Corrected Pk Area (A-s): 0.238  
Concentration (ug/L ): 37.7

Mean Conc (ug/L ): 37.5 SD: 0.16 RSD(%): 0.43

Standard number 5 applied. [40.0]  
Correlation coefficient: 0.99839 Slope: 0.0059 Int: 0.007

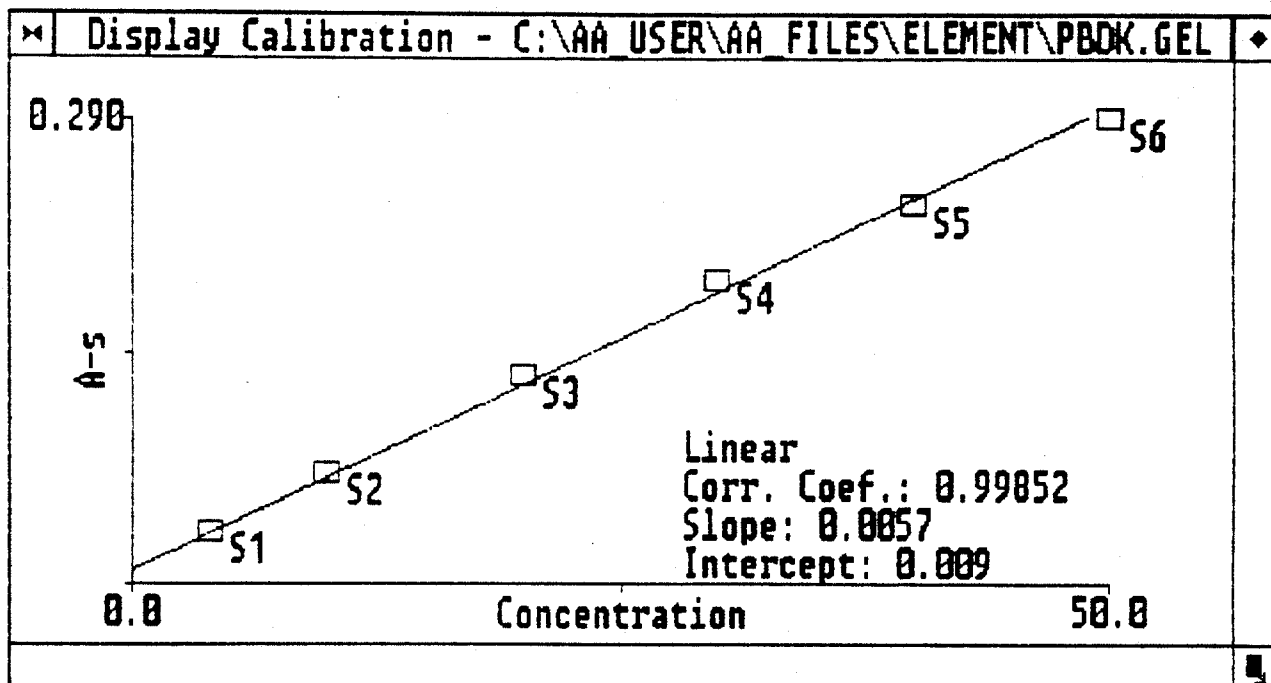
Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
 Replicate 1 Time: 07:35  
 Peak Area (A-s): 0.299 Peak Height (A): 0.459  
 Background Pk Area (A-s): 0.224 Background Pk Height (A): 0.133  
 Blank Corrected Pk Area (A-s): 0.294  
 Concentration (ug/L ): 48.6

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
 Replicate 2 (Peak Stored) Time: 07:39  
 Peak Area (A-s): 0.291 Peak Height (A): 0.442  
 Background Pk Area (A-s): 0.224 Background Pk Height (A): 0.131  
 Blank Corrected Pk Area (A-s): 0.286  
 Concentration (ug/L ): 47.3

Mean Conc (ug/L ): 48.0 SD: 0.96 RSD(%): 2.00

Standard number 6 applied. [50.0]  
 Correlation coefficient: 0.99852 Slope: 0.0057 Int: 0.009



Pb ID: ICV-0791 Seq. No.: 00008 A/S Pos.: 37 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
 Replicate 1 Time: 07:44  
 Peak Area (A-s): 0.216 Peak Height (A): 0.380  
 Background Pk Area (A-s): 0.491 Background Pk Height (A): 0.137  
 Blank Corrected Pk Area (A-s): 0.212  
 Concentration (ug/L ): 35.3

uL dispensed: 5 from 39, 10 from 0, 25 from 37  
 Replicate 2 (Peak Stored) Time: 07:47  
 Peak Area (A-s): 0.209 Peak Height (A): 0.347

Background Pk Area (A-s): 0.423      Background Pk Height (A): 0.110  
 Blank Corrected Pk Area (A-s): 0.204  
 Concentration (ug/L ): 34.0

Mean Conc (ug/L ):            34.6            SD: 0.96            RSD(%): 2.77

QC sample is within range 31.8 - 38.8

-----  
 Pb    ID: ICB                            Seq. No.: 00009      A/S Pos.: 0      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1                            Time: 07:50  
 Peak Area (A-s): 0.004                Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.137      Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored)            Time: 07:54  
 Peak Area (A-s): 0.003                Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.146      Background Pk Height (A): 0.038  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.9

Mean Conc (ug/L ):            -1.8            SD: 0.14            RSD(%): 7.84

QC sample is within range

-----  
 Pb    ID: CRA-0792                      Seq. No.: 00010      A/S Pos.: 36      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1                            Time: 07:57  
 Peak Area (A-s): 0.039                Peak Height (A): 0.060  
 Background Pk Area (A-s): 0.126      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.034  
 Concentration (ug/L ): 4.4

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored)            Time: 08:01  
 Peak Area (A-s): 0.024                Peak Height (A): 0.039  
 Background Pk Area (A-s): 0.143      Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.019  
 Concentration (ug/L ): 1.8

Mean Conc (ug/L ):            3.1            SD: 1.81            RSD(%): 57.90

QC sample is within range 2.25 - 3.75

-----  
 Pb    ID: PBL-N7R3773                    Seq. No.: 00011      A/S Pos.: 1      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 1                            Time: 08:04  
 Peak Area (A-s): 0.001                Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.148      Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -2.2

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
 Replicate 2 (Peak Stored) Time: 08:07  
 Peak Area (A-s): 0.000 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.149 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -2.3

Mean Conc (ug/L ): -2.2<sup>Q</sup> SD: 0.07 RSD(%): 3.16

Pb ID: PBL-N7R3773 Seq. No.: 00012 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
 Replicate 1 Time: 08:11  
 Peak Area (A-s): 0.123 Peak Height (A): 0.200  
 Background Pk Area (A-s): 0.200 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.118  
 Concentration (ug/L ): 19.0

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
 Replicate 2 (Peak Stored) Time: 08:14  
 Peak Area (A-s): 0.126 Peak Height (A): 0.203  
 Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.058  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 19.7

Mean Conc (ug/L ): 19.3 SD: 0.47 RSD(%): 2.41

Recovery is 107.8%

Pb ID: LC SL-N7R3773 Seq. No.: 00013 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 1 Time: 08:17  
 Peak Area (A-s): 0.128 Peak Height (A): 0.206  
 Background Pk Area (A-s): 0.252 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.123  
 Concentration (ug/L ): 19.9

uL dispensed: 5 from 39, 10 from 0, 25 from 2  
 Replicate 2 (Peak Stored) Time: 08:21  
 Peak Area (A-s): 0.126 Peak Height (A): 0.202  
 Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.058  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 19.7

Mean Conc (ug/L ): 19.8<sup>Q</sup> SD: 0.13 RSD(%): 0.65

Pb ID: LC SL-N7R3773 Seq. No.: 00014 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 1 Time: 08:24  
 Peak Area (A-s): 0.226 Peak Height (A): 0.356  
 Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.102  
 Blank Corrected Pk Area (A-s): 0.221  
 Concentration (ug/L ): 36.9

uL dispensed: 5 from 39, 10 from 40, 25 from 2  
 Replicate 2 (Peak Stored) Time: 08:27  
 Peak Area (A-s): 0.231 Peak Height (A): 0.367  
 Background Pk Area (A-s): 0.244 Background Pk Height (A): 0.107  
 Blank Corrected Pk Area (A-s): 0.226  
 Concentration (ug/L ): 37.9

Mean Conc (ug/L ): 37.4 SD: 0.65 RSD(%): 1.75

Recovery is 88.1%

Pb ID: 7SM-JM3178 MTXS Seq. No.: 00015 A/S Pos.: 3 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 3  
 Replicate 1 Time: 08:31  
 Peak Area (A-s): 0.172 Peak Height (A): 0.286  
 Background Pk Area (A-s): 0.588 Background Pk Height (A): 0.335  
 Blank Corrected Pk Area (A-s): 0.167  
 Concentration (ug/L ): 27.5

uL dispensed: 5 from 39, 10 from 0, 25 from 3  
 Replicate 2 (Peak Stored) Time: 08:34  
 Peak Area (A-s): 0.175 Peak Height (A): 0.265  
 Background Pk Area (A-s): 0.650 Background Pk Height (A): 0.321  
 Blank Corrected Pk Area (A-s): 0.170  
 Concentration (ug/L ): 28.1

Mean Conc (ug/L ): 27.8 Q SD: 0.38 RSD(%): 1.37

Pb ID: 7SD-JM3178 MTXR Seq. No.: 00016 A/S Pos.: 4 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 1 Time: 08:38  
 Peak Area (A-s): 0.141 Peak Height (A): 0.285  
 Background Pk Area (A-s): 0.648 Background Pk Height (A): 0.598  
 Blank Corrected Pk Area (A-s): 0.137  
 Concentration (ug/L ): 22.3

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 2 (Peak Stored) Time: 08:41  
 Peak Area (A-s): 0.164 Peak Height (A): 0.283  
 Background Pk Area (A-s): 0.673 Background Pk Height (A): 0.378  
 Blank Corrected Pk Area (A-s): 0.160  
 Concentration (ug/L ): 26.3

Mean Conc (ug/L ): 24.3 SD: 2.83 RSD(%): 11.64

Pb ID: 7SD-JM3178 MTXR Seq. No.: 00018 A/S Pos.: 4 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 1 Time: 08:46  
 Peak Area (A-s): 0.183 Peak Height (A): 0.262  
 Background Pk Area (A-s): 0.705 Background Pk Height (A): 0.333  
 Blank Corrected Pk Area (A-s): 0.178  
 Concentration (ug/L ): 29.5

Poor  
Injection  
SB  
2-21-94  
Rerun

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 2 (Peak Stored) Time: 08:49  
 Peak Area (A-s): 0.160 Peak Height (A): 0.276  
 Background Pk Area (A-s): 0.686 Background Pk Height (A): 0.414  
 Blank Corrected Pk Area (A-s): 0.156  
 Concentration (ug/L ): 25.5

Mean Conc (ug/L ): 27.5<sup>Q</sup> SD: 2.78 RSD(%): 10.10

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00019 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
 Replicate 1 Time: 08:52  
 Peak Area (A-s): 0.058 Peak Height (A): 0.122  
 Background Pk Area (A-s): 0.555 Background Pk Height (A): 0.523  
 Blank Corrected Pk Area (A-s): 0.053  
 Concentration (ug/L ): 7.7

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
 Replicate 2 (Peak Stored) Time: 08:56  
 Peak Area (A-s): 0.069 Peak Height (A): 0.103  
 Background Pk Area (A-s): 0.667 Background Pk Height (A): 0.301  
 Blank Corrected Pk Area (A-s): 0.064  
 Concentration (ug/L ): 9.6

Mean Conc (ug/L ): 8.7 SD: 1.34 RSD(%): 15.39 <sup>High Return</sup>

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00020 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
 Replicate 1 Time: 08:59  
 Peak Area (A-s): 0.068 Peak Height (A): 0.104  
 Background Pk Area (A-s): 0.677 Background Pk Height (A): 0.305  
 Blank Corrected Pk Area (A-s): 0.064  
 Concentration (ug/L ): 9.6

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
 Replicate 2 (Peak Stored) Time: 09:02  
 Peak Area (A-s): 0.060 Peak Height (A): 0.109  
 Background Pk Area (A-s): 0.642 Background Pk Height (A): 0.349  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 8.2

Mean Conc (ug/L ): 8.9 SD: 0.96 RSD(%): 10.84

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00021 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
 Replicate 1 Time: 09:06  
 Peak Area (A-s): 0.140 Peak Height (A): 0.291  
 Background Pk Area (A-s): 0.585 Background Pk Height (A): 0.471  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 22.1

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
 Replicate 2 (Peak Stored) Time: 09:09

SB  
 2-21-94  
 Run  
 after  
 ccv/ccp  
 ↓

Peak Area (A-s): 0.158  
 Background Pk Area (A-s): 0.621  
 Blank Corrected Pk Area (A-s): 0.154  
 Concentration (ug/L ): 25.2

Peak Height (A): 0.312  
 Background Pk Height (A): 0.378

Mean Conc (ug/L ): 23.6 SD: 2.22 RSD(%): 9.38

Recovery is 73.7% (outside of specified limits)

Pb ID: CCV-0790 Seq. No.: 00022 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Pb ID: CCV-0790 Seq. No.: 00023 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1 Time: 09:16  
 Peak Area (A-s): 0.139 Peak Height (A): 0.249  
 Background Pk Area (A-s): 0.425 Background Pk Height (A): 0.120  
 Blank Corrected Pk Area (A-s): 0.135  
 Concentration (ug/L ): 21.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored) Time: 09:20  
 Peak Area (A-s): 0.138 Peak Height (A): 0.249  
 Background Pk Area (A-s): 0.421 Background Pk Height (A): 0.120  
 Blank Corrected Pk Area (A-s): 0.134  
 Concentration (ug/L ): 21.8

Mean Conc (ug/L ): 21.8 SD: 0.10 RSD(%): 0.44

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1 Time: 09:23  
 Peak Area (A-s): 0.003 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.040  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored) Time: 09:26  
 Peak Area (A-s): 0.003 Peak Height (A): 0.006  
 Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.037  
 Blank Corrected Pk Area (A-s): -0.002  
 Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -1.8 SD: 0.10 RSD(%): 5.76

QC sample is within range

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00025 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5

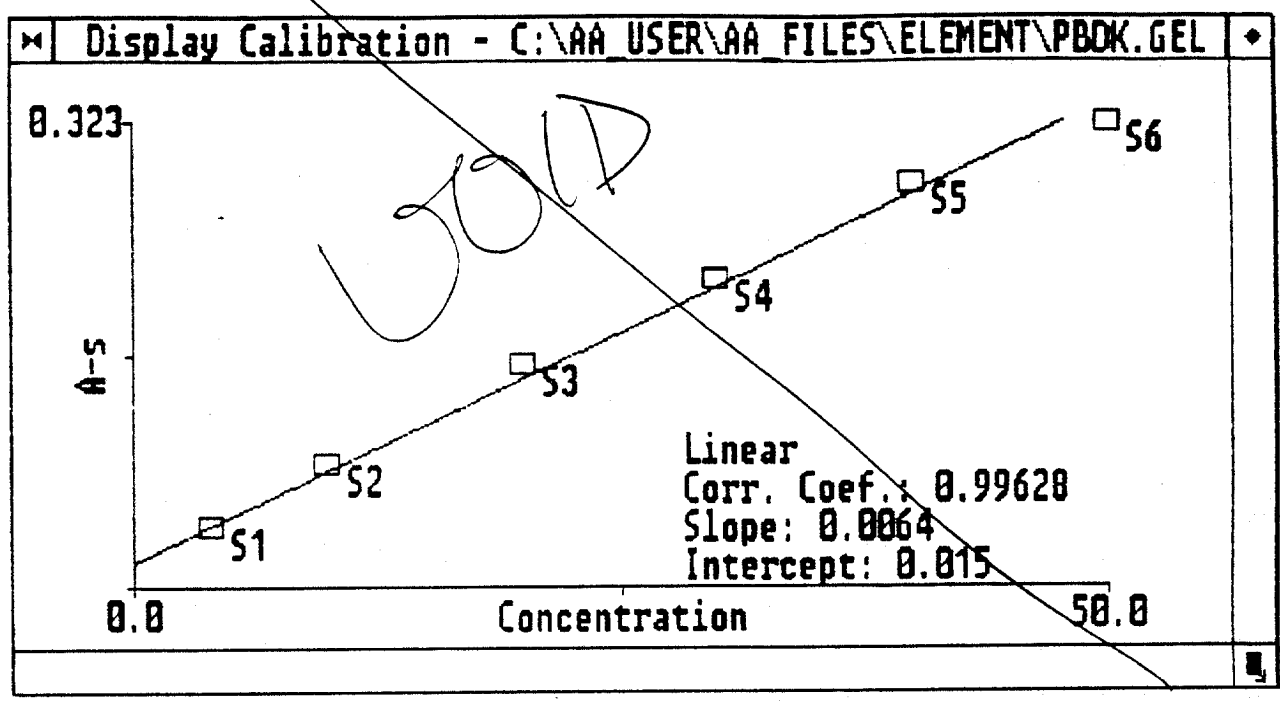
NO INJECTION  
 Autosampler  
 02-21-94

uL dispensed: 5 from 39, 10 from 0, 25 from 40  
 Replicate 2 (Peak Stored) Time: 11:32  
 Peak Area (A-s): 0.323 Peak Height (A): 0.502  
 Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.153  
 Blank Corrected Pk Area (A-s): 0.321  
 Concentration (ug/L ): 46.9

Mean Conc (ug/L ): 47.3 SD: 0.61 RSD(%): 1.29

Standard number 6 applied. [50.0]  
 Correlation coefficient: 0.99628 Slope: 0.0064 Int: 0.015

*Recalibrated*  
*SB*  
*2-21-94*



Pb ID: CAL BLK Seq. No.: 00044 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1 Time: 11:36  
 Peak Area (A-s): 0.003 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -2.3

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 11:40  
 Peak Area (A-s): 0.002 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -2.4

Mean Conc (ug/L ): -2.3 SD: 0.08 RSD(%): 3.45

Auto-zero performed.



Pb ID: STD 1 IN0785 Seq. No.: 00045 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 2 from 40

Replicate 1 Time: 11:43  
Peak Area (A-s): 0.041 Peak Height (A): 0.070  
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.039  
Concentration (ug/L ): 3.7

uL dispensed: 5 from 39, 10 from 0, 2 from 40

Replicate 2 (Peak Stored) Time: 11:46  
Peak Area (A-s): 0.040 Peak Height (A): 0.066  
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 3.6

Mean Conc (ug/L ): 3.6 SD: 0.11 RSD(%): 2.98

Standard number 1 applied. [4.0]

Correlation coefficient: 1.00000 Slope: 0.0097 Int: 0.000

Pb ID: STD 2 Seq. No.: 00046 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40

Replicate 1 Time: 11:50  
Peak Area (A-s): 0.079 Peak Height (A): 0.135  
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.076  
Concentration (ug/L ): 7.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40

Replicate 2 (Peak Stored) Time: 11:53  
Peak Area (A-s): 0.080 Peak Height (A): 0.137  
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.078  
Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 8.0 SD: 0.14 RSD(%): 1.74

Standard number 2 applied. [10.0]

Correlation coefficient: 0.99320 Slope: 0.0076 Int: 0.003

Pb ID: STD 3 Seq. No.: 00047 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 10 from 40

Replicate 1 Time: 11:57  
Peak Area (A-s): 0.146 Peak Height (A): 0.245  
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.070  
Blank Corrected Pk Area (A-s): 0.144  
Concentration (ug/L ): 18.5

uL dispensed: 5 from 39, 10 from 0, 10 from 40

Replicate 2 (Peak Stored) Time: 12:00  
Peak Area (A-s): 0.146 Peak Height (A): 0.245  
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.067  
Blank Corrected Pk Area (A-s): 0.143

Concentration (ug/L ): 18.4

Mean Conc (ug/L ): 18.5 SD: 0.07 RSD(%): 0.41

Standard number 3 applied. [20.0]

Correlation coefficient: 0.99720 Slope: 0.0070 Int: 0.005

Pb ID: STD 4 Seq. No.: 00048 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 15 from 40

Replicate 1

Time: 12:03

Peak Area (A-s): 0.211

Peak Height (A): 0.349

Background Pk Area (A-s): 0.095

Background Pk Height (A): 0.097

Blank Corrected Pk Area (A-s): 0.209

Concentration (ug/L ): 29.0

uL dispensed: 5 from 39, 10 from 0, 15 from 40

Replicate 2 (Peak Stored)

Time: 12:07

Peak Area (A-s): 0.211

Peak Height (A): 0.347

Background Pk Area (A-s): 0.098

Background Pk Height (A): 0.096

Blank Corrected Pk Area (A-s): 0.208

Concentration (ug/L ): 28.9

Mean Conc (ug/L ): 28.9 SD: 0.04 RSD(%): 0.13

Standard number 4 applied. [30.0]

Correlation coefficient: 0.99855 Slope: 0.0068 Int: 0.006

Pb ID: STD 5 Seq. No.: 00049 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 20 from 40

Replicate 1

Time: 12:10

Peak Area (A-s): 0.261

Peak Height (A): 0.425

Background Pk Area (A-s): 0.110

Background Pk Height (A): 0.122

Blank Corrected Pk Area (A-s): 0.259

Concentration (ug/L ): 37.1

uL dispensed: 5 from 39, 10 from 0, 20 from 40

Replicate 2 (Peak Stored)

Time: 12:13

Peak Area (A-s): 0.262

Peak Height (A): 0.428

Background Pk Area (A-s): 0.112

Background Pk Height (A): 0.123

Blank Corrected Pk Area (A-s): 0.260

Concentration (ug/L ): 37.3

Mean Conc (ug/L ): 37.2 SD: 0.15 RSD(%): 0.40

Standard number 5 applied. [40.0]

Correlation coefficient: 0.99769 Slope: 0.0064 Int: 0.010

Pb ID: STD 6 Seq. No.: 00050 A/S Pos.: 40 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 40

Replicate 1

Time: 12:17

Peak Area (A-s): 0.312

Peak Height (A): 0.498

Background Pk Area (A-s): 0.126

Background Pk Height (A): 0.149

Blank Corrected Pk Area (A-s): 0.310

Concentration (ug/L ): 46.6

uL dispensed: 5 from 39, 10 from 0, 25 from 40

Replicate 2 (Peak Stored)

Time: 12:20

Peak Area (A-s): 0.315

Peak Height (A): 0.501

Background Pk Area (A-s): 0.125

Background Pk Height (A): 0.150

Blank Corrected Pk Area (A-s): 0.313

Concentration (ug/L ): 47.0

Mean Conc (ug/L ): 46.8

SD: 0.27

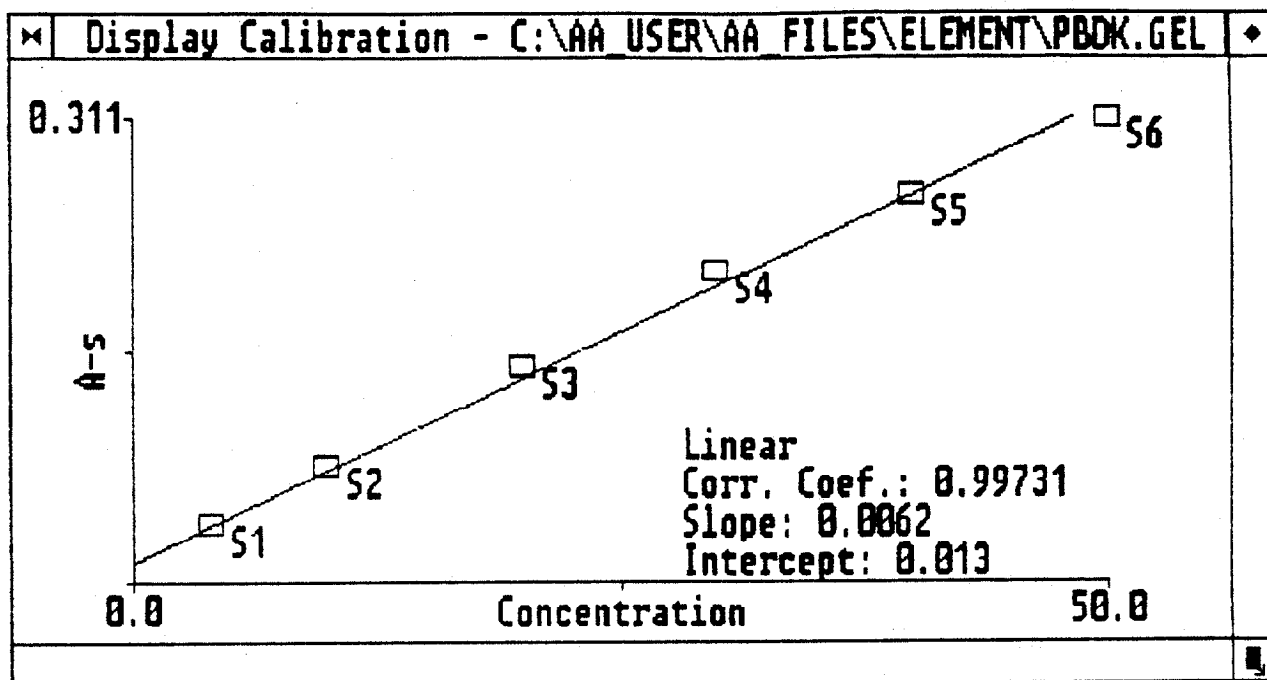
RSD(%): 0.59

Standard number 6 applied. [50.0]

Correlation coefficient: 0.99731

Slope: 0.0062

Int: 0.013



Pb ID: ICV-0791

Seq. No.: 00051

A/S Pos.: 37

Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 37

Replicate 1

Time: 12:27

Peak Area (A-s): 0.230

Peak Height (A): 0.416

Background Pk Area (A-s): 0.367

Background Pk Height (A): 0.122

Blank Corrected Pk Area (A-s): 0.227

Concentration (ug/L ): 34.8

uL dispensed: 5 from 39, 10 from 0, 25 from 37

Replicate 2 (Peak Stored)

Time: 12:30

Peak Area (A-s): 0.233

Peak Height (A): 0.415

Background Pk Area (A-s): 0.394

Background Pk Height (A): 0.124

Blank Corrected Pk Area (A-s): 0.230

Concentration (ug/L ): 35.3

Mean Conc (ug/L ): 35.0

SD: 0.34

RSD(%): 0.98

QC sample is within range 31.8 - 38.8

Pb ID: ICB Seq. No.: 00052 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1 Time: 12:33  
 Peak Area (A-s): 0.004 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.009  
 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: 12:37  
 Peak Area (A-s): 0.004 Peak Height (A): 0.007  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.8

Mean Conc (ug/L ): -1.8 SD: 0.01 RSD(%): 0.74

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00053 A/S Pos.: 36 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1 Time: 12:40  
 Peak Area (A-s): 0.025 Peak Height (A): 0.050  
 Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 1.6

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 12:44  
 Peak Area (A-s): 0.028 Peak Height (A): 0.048  
 Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.015  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 2.2

Mean Conc (ug/L ): 1.9 SD: 0.38 RSD(%): 19.78

QC sample is out of range 2.25 - 3.75

Pb ID: CRA-0792 Seq. No.: 00054 A/S Pos.: 36 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 1 Time: 12:48  
 Peak Area (A-s): 0.033 Peak Height (A): 0.061  
 Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): 0.031  
 Concentration (ug/L ): 3.0

uL dispensed: 5 from 39, 10 from 0, 25 from 36  
 Replicate 2 (Peak Stored) Time: 12:51  
 Peak Area (A-s): 0.034 Peak Height (A): 0.062  
 Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.019  
 Blank Corrected Pk Area (A-s): 0.032  
 Concentration (ug/L ): 3.1

*SB*  
 2-21-94  
 Replaced w/ fresh  
 Mercur

Mean Conc (ug/L ): 3.0 SD: 0.11 RSD(%): 3.57

QC sample is within range 2.25 - 3.75

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00055 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
Replicate 1 Time: 12:55  
Peak Area (A-s): 0.070 Peak Height (A): 0.144  
Background Pk Area (A-s): 0.921 Background Pk Height (A): 0.344  
Blank Corrected Pk Area (A-s): 0.068  
Concentration (ug/L ): 8.9

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
Replicate 2 (Peak Stored) Time: 12:58  
Peak Area (A-s): 0.063 Peak Height (A): 0.128  
Background Pk Area (A-s): 0.949 Background Pk Height (A): 0.622  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 7.8

Mean Conc (ug/L ): 8.3 Q SD: 0.81 RSD(%): 9.68

Pb ID: 7XX-JM3178 SS07 Seq. No.: 00056 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 1 Time: 13:02  
Peak Area (A-s): 0.184 Peak Height (A): 0.347  
Background Pk Area (A-s): 0.996 Background Pk Height (A): 0.402  
Blank Corrected Pk Area (A-s): 0.182  
Concentration (ug/L ): 27.4

uL dispensed: 5 from 39, 10 from 40, 25 from 5  
Replicate 2 (Peak Stored) Time: 13:05  
Peak Area (A-s): 0.183 Peak Height (A): 0.329  
Background Pk Area (A-s): 0.998 Background Pk Height (A): 0.400  
Blank Corrected Pk Area (A-s): 0.181  
Concentration (ug/L ): 27.2

Mean Conc (ug/L ): 27.3 SD: 0.10 RSD(%): 0.38

Recovery is 94.8%

Pb ID: 7XX-JM3178 DUP Seq. No.: 00057 A/S Pos.: 6 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 6  
Replicate 1 Time: 13:08  
Peak Area (A-s): 0.075 Peak Height (A): 0.135  
Background Pk Area (A-s): 0.985 Background Pk Height (A): 0.353  
Blank Corrected Pk Area (A-s): 0.073  
Concentration (ug/L ): 9.8

uL dispensed: 5 from 39, 10 from 0, 25 from 6  
Replicate 2 (Peak Stored) Time: 13:12  
Peak Area (A-s): 0.072 Peak Height (A): 0.136  
Background Pk Area (A-s): 0.970 Background Pk Height (A): 0.352  
Blank Corrected Pk Area (A-s): 0.070

Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 9.5 Q SD: 0.35 RSD(%): 3.63

Pb ID: 7XX-JM3178 DUP Seq. No.: 00058 A/S Pos.: 6 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 6

Replicate 1 Time: 13:15  
 Peak Area (A-s): 0.186 Peak Height (A): 0.334  
 Background Pk Area (A-s): 1.004 Background Pk Height (A): 0.411  
 Blank Corrected Pk Area (A-s): 0.183  
 Concentration (ug/L ): 27.7

uL dispensed: 5 from 39, 10 from 40, 25 from 6

Replicate 2 (Peak Stored) Time: 13:18  
 Peak Area (A-s): 0.188 Peak Height (A): 0.329  
 Background Pk Area (A-s): 0.997 Background Pk Height (A): 0.407  
 Blank Corrected Pk Area (A-s): 0.186  
 Concentration (ug/L ): 28.1

Mean Conc (ug/L ): 27.9 SD: 0.31 RSD(%): 1.12

Recovery is 91.8%

Pb ID: 7XX-JM3170 S01A Seq. No.: 00059 A/S Pos.: 7 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 7

Replicate 1 Time: 13:22  
 Peak Area (A-s): 0.100 Peak Height (A): 0.196  
 Background Pk Area (A-s): 0.406 Background Pk Height (A): 0.114  
 Blank Corrected Pk Area (A-s): 0.098  
 Concentration (ug/L ): 13.8 Corrected Conc (ug/L ): 138.

uL dispensed: 5 from 39, 10 from 0, 25 from 7

Replicate 2 (Peak Stored) Time: 13:25  
 Peak Area (A-s): 0.094 Peak Height (A): 0.194  
 Background Pk Area (A-s): 0.470 Background Pk Height (A): 0.115  
 Blank Corrected Pk Area (A-s): 0.092  
 Concentration (ug/L ): 12.8 Corrected Conc (ug/L ): 128.

Mean Conc (ug/L ): 13.3 Q SD: 0.70 RSD(%): 5.22  
 Corrected Conc (ug/L ): 133.

Pb ID: 7XX-JM3170 S01A Seq. No.: 00060 A/S Pos.: 7 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 7

Replicate 1 Time: 13:28  
 Peak Area (A-s): 0.210 Peak Height (A): 0.399  
 Background Pk Area (A-s): 0.521 Background Pk Height (A): 0.172  
 Blank Corrected Pk Area (A-s): 0.207  
 Concentration (ug/L ): 31.5 Corrected Conc (ug/L ): 315.

uL dispensed: 5 from 39, 10 from 40, 25 from 7

Replicate 2 (Peak Stored) Time: 13:32  
 Peak Area (A-s): 0.208 Peak Height (A): 0.402  
 Background Pk Area (A-s): 0.566 Background Pk Height (A): 0.175

Blank Corrected Pk Area (A-s): 0.205

Concentration (ug/L ): 31.2

Corrected Conc (ug/L ): 312.

Mean Conc (ug/L ): 31.4

SD: 0.22

RSD(%): 0.69

Corrected Conc (ug/L ): 314.

Recovery is 90.2%

Pb ID: 7XX-JM3172 SS01 Seq. No.: 00061 A/S Pos.: 8 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 8

Replicate 1

Time: 13:35

Peak Area (A-s): 0.063

Peak Height (A): 0.114

Background Pk Area (A-s): 0.936

Background Pk Height (A): 0.321

Blank Corrected Pk Area (A-s): 0.061

Concentration (ug/L ): 7.8

uL dispensed: 5 from 39, 10 from 0, 25 from 8

Replicate 2 (Peak Stored)

Time: 13:39

Peak Area (A-s): 0.065

Peak Height (A): 0.115

Background Pk Area (A-s): 0.942

Background Pk Height (A): 0.332

Blank Corrected Pk Area (A-s): 0.063

Concentration (ug/L ): 8.2

Mean Conc (ug/L ): 8.0

SD: 0.28

RSD(%): 3.54

Pb ID: 7XX-JM3172 SS01 Seq. No.: 00062 A/S Pos.: 8 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 1

Time: 13:42

Peak Area (A-s): 0.176

Peak Height (A): 0.316

Background Pk Area (A-s): 0.987

Background Pk Height (A): 0.391

Blank Corrected Pk Area (A-s): 0.174

Concentration (ug/L ): 26.1

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 2 (Peak Stored)

Time: 13:45

Peak Area (A-s): 0.165

Peak Height (A): 0.350

Background Pk Area (A-s): 1.008

Background Pk Height (A): 0.318

Blank Corrected Pk Area (A-s): 0.162

Concentration (ug/L ): 24.3

Mean Conc (ug/L ): 25.2

SD: 1.27

RSD(%): 5.05

Recovery is 85.9%

Pb ID: 7XX-JM3173 SS02 Seq. No.: 00063 A/S Pos.: 9 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 9

Replicate 1

Time: 13:49

Peak Area (A-s): 0.028

Peak Height (A): 0.053

Background Pk Area (A-s): 0.953

Background Pk Height (A): 0.338

Blank Corrected Pk Area (A-s): 0.025

Concentration (ug/L ): 2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 9

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.026  
 Background Pk Area (A-s): 0.969  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L ): 1.7

Time: 13:52  
 Peak Height (A): 0.051  
 Background Pk Height (A): 0.351

Mean Conc (ug/L ): 1.9 Q SD: 0.24 RSD(%): 12.35

Pb ID: 7XX-JM3173 SS02 Seq. No.: 00064 A/S Pos.: 9 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 9

Replicate 1  
 Peak Area (A-s): 0.142  
 Background Pk Area (A-s): 1.012  
 Blank Corrected Pk Area (A-s): 0.140  
 Concentration (ug/L ): 20.6

Time: 13:55  
 Peak Height (A): 0.266  
 Background Pk Height (A): 0.413

uL dispensed: 5 from 39, 10 from 40, 25 from 9

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.143  
 Background Pk Area (A-s): 1.000  
 Blank Corrected Pk Area (A-s): 0.141  
 Concentration (ug/L ): 20.7

Time: 13:58  
 Peak Height (A): 0.265  
 Background Pk Height (A): 0.402

Mean Conc (ug/L ): 20.7 SD: 0.10 RSD(%): 0.49

Recovery is 93.8%

Pb ID: CCV-0790 Seq. No.: 00065 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1  
 Peak Area (A-s): 0.148  
 Background Pk Area (A-s): 0.142  
 Blank Corrected Pk Area (A-s): 0.145  
 Concentration (ug/L ): 21.5

Time: 14:02  
 Peak Height (A): 0.291  
 Background Pk Height (A): 0.081

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.148  
 Background Pk Area (A-s): 0.151  
 Blank Corrected Pk Area (A-s): 0.146  
 Concentration (ug/L ): 21.5

Time: 14:05  
 Peak Height (A): 0.289  
 Background Pk Height (A): 0.081

Mean Conc (ug/L ): 21.5 SD: 0.02 RSD(%): 0.08

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00066 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.021  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -1.6

Time: 14:08  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.010



uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 14:12  
 Peak Area (A-s): 0.004 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.7

Mean Conc (ug/L ): -1.6 SD: 0.08 RSD(%): 5.10

QC sample is within range

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 Pb ID: 7XX-JM3174 SS03 Seq. No.: 00067 A/S Pos.: 10 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 10  
 Replicate 1 Time: 14:15  
 Peak Area (A-s): 0.030 Peak Height (A): 0.059  
 Background Pk Area (A-s): 0.928 Background Pk Height (A): 0.345  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 2.4

uL dispensed: 5 from 39, 10 from 0, 25 from 10  
 Replicate 2 (Peak Stored) Time: 14:18  
 Peak Area (A-s): 0.029 Peak Height (A): 0.056  
 Background Pk Area (A-s): 0.940 Background Pk Height (A): 0.334  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 2.3

Mean Conc (ug/L ): 2.3 SD: 0.09 RSD(%): 3.75

-----  
 Pb ID: 7XX-JM3174 SS03 Seq. No.: 00068 A/S Pos.: 10 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
 Replicate 1 Time: 14:21  
 Peak Area (A-s): 0.142 Peak Height (A): 0.273  
 Background Pk Area (A-s): 0.996 Background Pk Height (A): 0.416  
 Blank Corrected Pk Area (A-s): 0.140  
 Concentration (ug/L ): 20.6

uL dispensed: 5 from 39, 10 from 40, 25 from 10  
 Replicate 2 (Peak Stored) Time: 14:25  
 Peak Area (A-s): 0.127 Peak Height (A): 0.221  
 Background Pk Area (A-s): 0.997 Background Pk Height (A): 0.619  
 Blank Corrected Pk Area (A-s): 0.124  
 Concentration (ug/L ): 18.1

Mean Conc (ug/L ): 19.4 SD: 1.74 RSD(%): 9.00

Recovery is 85.1%

-----  
 Pb ID: 7XX-JM3175 SS04 Seq. No.: 00069 A/S Pos.: 11 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 11  
 Replicate 1 Time: 14:28  
 Peak Area (A-s): 0.022 Peak Height (A): 0.045  
 Background Pk Area (A-s): 0.884 Background Pk Height (A): 0.349  
 Blank Corrected Pk Area (A-s): 0.019

Concentration (ug/L ): 1.1

uL dispensed: 5 from 39, 10 from 0, 25 from 11

Replicate 2 (Peak Stored)

Time: 14:31

Peak Area (A-s): 0.021

Peak Height (A): 0.039

Background Pk Area (A-s): 0.874

Background Pk Height (A): 0.344

Blank Corrected Pk Area (A-s): 0.018

Concentration (ug/L ): 1.0

Mean Conc (ug/L ): 1.0

Q

SD: 0.11

RSD(%): 10.49

Pb ID: 7XX-JM3175 SS04 Seq. No.: 00070 A/S Pos.: 11 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 11

Replicate 1

Time: 14:35

Peak Area (A-s): 0.133

Peak Height (A): 0.244

Background Pk Area (A-s): 0.912

Background Pk Height (A): 0.392

Blank Corrected Pk Area (A-s): 0.131

Concentration (ug/L ): 19.1

uL dispensed: 5 from 39, 10 from 40, 25 from 11

Replicate 2 (Peak Stored)

Time: 14:38

Peak Area (A-s): 0.135

Peak Height (A): 0.257

Background Pk Area (A-s): 0.911

Background Pk Height (A): 0.403

Blank Corrected Pk Area (A-s): 0.132

Concentration (ug/L ): 19.4

Mean Conc (ug/L ): 19.2

SD: 0.20

RSD(%): 1.02

Recovery is 91.1%

Pb ID: 7XX-JM3176 SS05 Seq. No.: 00071 A/S Pos.: 12 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 12

Replicate 1

Time: 14:41

Peak Area (A-s): 0.041

Peak Height (A): 0.080

Background Pk Area (A-s): 0.938

Background Pk Height (A): 0.363

Blank Corrected Pk Area (A-s): 0.039

Concentration (ug/L ): 4.2

uL dispensed: 5 from 39, 10 from 0, 25 from 12

Replicate 2 (Peak Stored)

Time: 14:44

Peak Area (A-s): 0.040

Peak Height (A): 0.078

Background Pk Area (A-s): 0.944

Background Pk Height (A): 0.357

Blank Corrected Pk Area (A-s): 0.038

Concentration (ug/L ): 4.1

Mean Conc (ug/L ): 4.2

Q

SD: 0.10

RSD(%): 2.45

Pb ID: 7XX-JM3176 SS05 Seq. No.: 00072 A/S Pos.: 12 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 12

Replicate 1

Time: 14:48

Peak Area (A-s): 0.151

Peak Height (A): 0.287

Background Pk Area (A-s): 0.971

Background Pk Height (A): 0.410

Blank Corrected Pk Area (A-s): 0.148

Concentration (ug/L ): 22.0

uL dispensed: 5 from 39, 10 from 40, 25 from 12  
Replicate 2 (Peak Stored) Time: 14:51  
Peak Area (A-s): 0.150 Peak Height (A): 0.309  
Background Pk Area (A-s): 1.006 Background Pk Height (A): 0.342  
Blank Corrected Pk Area (A-s): 0.147  
Concentration (ug/L ): 21.8

Mean Conc (ug/L ): 21.9 SD: 0.11 RSD(%): 0.50

Recovery is 88.6%

-----  
Pb ID: 7XX-JM3177 SS06 Seq. No.: 00073 A/S Pos.: 13 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 13  
Replicate 1 Time: 14:54  
Peak Area (A-s): 0.066 Peak Height (A): 0.127  
Background Pk Area (A-s): 0.723 Background Pk Height (A): 0.351  
Blank Corrected Pk Area (A-s): 0.064  
Concentration (ug/L ): 8.3

uL dispensed: 5 from 39, 10 from 0, 25 from 13  
Replicate 2 (Peak Stored) Time: 14:57  
Peak Area (A-s): 0.064 Peak Height (A): 0.130  
Background Pk Area (A-s): 0.708 Background Pk Height (A): 0.349  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 7.9

Mean Conc (ug/L ): 8.1 SD: 0.29 RSD(%): 3.58

-----  
Pb ID: 7XX-JM3177 SS06 Seq. No.: 00074 A/S Pos.: 13 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
Replicate 1 Time: 15:01  
Peak Area (A-s): 0.173 Peak Height (A): 0.339  
Background Pk Area (A-s): 0.746 Background Pk Height (A): 0.404  
Blank Corrected Pk Area (A-s): 0.171  
Concentration (ug/L ): 25.6

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
Replicate 2 (Peak Stored) Time: 15:04  
Peak Area (A-s): 0.174 Peak Height (A): 0.335  
Background Pk Area (A-s): 0.747 Background Pk Height (A): 0.404  
Blank Corrected Pk Area (A-s): 0.172  
Concentration (ug/L ): 25.8

Mean Conc (ug/L ): 25.7 SD: 0.08 RSD(%): 0.32

Recovery is 88.0%

-----  
Pb ID: TCLP BLK 3773 Seq. No.: 00075 A/S Pos.: 14 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
Replicate 1 Time: 15:07  
Peak Area (A-s): 0.004 Peak Height (A): 0.010

Background Pk Area (A-s): 0.709      Background Pk Height (A): 0.314  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
 Replicate 2 (Peak Stored)      Time: 15:10  
 Peak Area (A-s): 0.004      Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.699      Background Pk Height (A): 0.312  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.8

Mean Conc (ug/L ):      -1.8<sub>Q</sub>      SD: 0.01      RSD(%): 0.45

Pb    ID: TCLP BLK 3773      Seq. No.: 00076      A/S Pos.: 14      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 1      Time: 15:14  
 Peak Area (A-s): 0.119      Peak Height (A): 0.234  
 Background Pk Area (A-s): 0.740      Background Pk Height (A): 0.373  
 Blank Corrected Pk Area (A-s): 0.117  
 Concentration (ug/L ): 16.9

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 2 (Peak Stored)      Time: 15:17  
 Peak Area (A-s): 0.121      Peak Height (A): 0.239  
 Background Pk Area (A-s): 0.753      Background Pk Height (A): 0.381  
 Blank Corrected Pk Area (A-s): 0.118  
 Concentration (ug/L ): 17.2

Mean Conc (ug/L ):      17.0      SD: 0.19      RSD(%): 1.10

Recovery is 94.0%

Pb    ID: CCV-0790      Seq. No.: 00077      A/S Pos.: 38      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 1      Time: 15:20  
 Peak Area (A-s): 0.148      Peak Height (A): 0.294  
 Background Pk Area (A-s): 0.144      Background Pk Height (A): 0.082  
 Blank Corrected Pk Area (A-s): 0.145  
 Concentration (ug/L ): 21.5

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 2 (Peak Stored)      Time: 15:24  
 Peak Area (A-s): 0.145      Peak Height (A): 0.289  
 Background Pk Area (A-s): 0.155      Background Pk Height (A): 0.080  
 Blank Corrected Pk Area (A-s): 0.143  
 Concentration (ug/L ): 21.1

Mean Conc (ug/L ):      21.3      SD: 0.27      RSD(%): 1.28

QC sample is within range 19.1 - 23.3

Pb    ID: CCB      Seq. No.: 00078      A/S Pos.: 0      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1  
 Peak Area (A-s): 0.003  
 Background Pk Area (A-s): 0.023  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): -1.8

Time: 15:27  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.010

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.025  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -1.6

Time: 15:30  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.011

Mean Conc (ug/L ): -1.7 SD: 0.17 RSD(%): 9.77

QC sample is within range

Pb ID: PBL-N7R3791 Seq. No.: 00079 A/S Pos.: 15 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 15

Replicate 1  
 Peak Area (A-s): 0.004  
 Background Pk Area (A-s): 0.021  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.7

Time: 15:33  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.010

uL dispensed: 5 from 39, 10 from 0, 25 from 15

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -1.5

Time: 15:37  
 Peak Height (A): 0.009  
 Background Pk Height (A): 0.013

Mean Conc (ug/L ): -1.6<sup>Q</sup> SD: 0.13 RSD(%): 8.05

Pb ID: PBL-N7R3791 Seq. No.: 00080 A/S Pos.: 15 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 1  
 Peak Area (A-s): 0.131  
 Background Pk Area (A-s): 0.063  
 Blank Corrected Pk Area (A-s): 0.129  
 Concentration (ug/L ): 18.8

Time: 15:40  
 Peak Height (A): 0.238  
 Background Pk Height (A): 0.067

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.130  
 Background Pk Area (A-s): 0.067  
 Blank Corrected Pk Area (A-s): 0.128  
 Concentration (ug/L ): 18.7

Time: 15:43  
 Peak Height (A): 0.241  
 Background Pk Height (A): 0.067

Mean Conc (ug/L ): 18.7 SD: 0.10 RSD(%): 0.53

Recovery is 101.8%

Pb ID: LCSL-N7R3791 Seq. No.: 00081 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 16  
 Replicate 1 Time: 15:46  
 Peak Area (A-s): 0.142 Peak Height (A): 0.260  
 Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.073  
 Blank Corrected Pk Area (A-s): 0.140  
 Concentration (ug/L ): 20.6

uL dispensed: 5 from 39, 10 from 0, 25 from 16  
 Replicate 2 (Peak Stored) Time: 15:50  
 Peak Area (A-s): 0.144 Peak Height (A): 0.263  
 Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.071  
 Blank Corrected Pk Area (A-s): 0.142  
 Concentration (ug/L ): 20.9

Mean Conc (ug/L ): 20.7<sub>Q</sub> SD: 0.22 RSD(%): 1.07

Pb ID: LCSL-N7R3791 Seq. No.: 00082 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16  
 Replicate 1 Time: 15:53  
 Peak Area (A-s): 0.254 Peak Height (A): 0.446  
 Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.128  
 Blank Corrected Pk Area (A-s): 0.252  
 Concentration (ug/L ): 38.7

uL dispensed: 5 from 39, 10 from 40, 25 from 16  
 Replicate 2 (Peak Stored) Time: 15:56  
 Peak Area (A-s): 0.252 Peak Height (A): 0.443  
 Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.128  
 Blank Corrected Pk Area (A-s): 0.250  
 Concentration (ug/L ): 38.4

Mean Conc (ug/L ): 38.5 SD: 0.24 RSD(%): 0.63

Recovery is 89.1%

Pb ID: 7SM-JM3193 MTXS Seq. No.: 00083 A/S Pos.: 17 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 17  
 Replicate 1 Time: 15:59  
 Peak Area (A-s): 0.150 Peak Height (A): 0.292  
 Background Pk Area (A-s): 0.925 Background Pk Height (A): 0.384  
 Blank Corrected Pk Area (A-s): 0.147  
 Concentration (ug/L ): 21.8

uL dispensed: 5 from 39, 10 from 0, 25 from 17  
 Replicate 2 (Peak Stored) Time: 16:03  
 Peak Area (A-s): 0.148 Peak Height (A): 0.292  
 Background Pk Area (A-s): 0.950 Background Pk Height (A): 0.381  
 Blank Corrected Pk Area (A-s): 0.146  
 Concentration (ug/L ): 21.6

Mean Conc (ug/L ): 21.7<sub>Q</sub> SD: 0.17 RSD(%): 0.79

Pb ID: 7SD-JM3193 MTXR Seq. No.: 00084 A/S Pos.: 18 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 18  
 Replicate 1 Time: 16:06  
 Peak Area (A-s): 0.139 Peak Height (A): 0.263  
 Background Pk Area (A-s): 0.954 Background Pk Height (A): 0.385  
 Blank Corrected Pk Area (A-s): 0.137  
 Concentration (ug/L ): 20.2

uL dispensed: 5 from 39, 10 from 0, 25 from 18  
 Replicate 2 (Peak Stored) Time: 16:09  
 Peak Area (A-s): 0.140 Peak Height (A): 0.263  
 Background Pk Area (A-s): 0.955 Background Pk Height (A): 0.394  
 Blank Corrected Pk Area (A-s): 0.138  
 Concentration (ug/L ): 20.3

Mean Conc (ug/L ): 20.3 Q SD: 0.12 RSD(%): 0.57

Pb ID: 7XX-JM3193 SS22 Seq. No.: 00085 A/S Pos.: 19 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 19  
 Replicate 1 Time: 16:13  
 Peak Area (A-s): 0.019 Peak Height (A): 0.035  
 Background Pk Area (A-s): 0.904 Background Pk Height (A): 0.324  
 Blank Corrected Pk Area (A-s): 0.017  
 Concentration (ug/L ): 0.7

uL dispensed: 5 from 39, 10 from 0, 25 from 19  
 Replicate 2 (Peak Stored) Time: 16:16  
 Peak Area (A-s): 0.018 Peak Height (A): 0.032  
 Background Pk Area (A-s): 0.895 Background Pk Height (A): 0.333  
 Blank Corrected Pk Area (A-s): 0.016  
 Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.6 Q SD: 0.16 RSD(%): 24.96

Pb ID: 7XX-JM3193 SS22 Seq. No.: 00086 A/S Pos.: 19 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 19  
 Replicate 1 Time: 16:19  
 Peak Area (A-s): 0.132 Peak Height (A): 0.248  
 Background Pk Area (A-s): 0.921 Background Pk Height (A): 0.386  
 Blank Corrected Pk Area (A-s): 0.130  
 Concentration (ug/L ): 19.0

uL dispensed: 5 from 39, 10 from 40, 25 from 19  
 Replicate 2 (Peak Stored) Time: 16:23  
 Peak Area (A-s): 0.134 Peak Height (A): 0.256  
 Background Pk Area (A-s): 0.927 Background Pk Height (A): 0.393  
 Blank Corrected Pk Area (A-s): 0.131  
 Concentration (ug/L ): 19.2

Mean Conc (ug/L ): 19.1 SD: 0.19 RSD(%): 1.01

Recovery is 92.4%

Pb ID: 7XX-JM3193 DUP Seq. No.: 00087 A/S Pos.: 20 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 20

Replicate 1 Time: 16:26  
Peak Area (A-s): 0.018 Peak Height (A): 0.036  
Background Pk Area (A-s): 0.892 Background Pk Height (A): 0.323  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 0.5

uL dispensed: 5 from 39, 10 from 0, 25 from 20

Replicate 2 (Peak Stored) Time: 16:30  
Peak Area (A-s): 0.021 Peak Height (A): 0.033  
Background Pk Area (A-s): 0.893 Background Pk Height (A): 0.326  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 0.9

Mean Conc (ug/L ): 0.7<sup>Q</sup> SD: 0.32 RSD(%): 43.61

Pb ID: 7XX-JM3193 DUP Seq. No.: 00088 A/S Pos.: 20 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 20

Replicate 1 Time: 16:33  
Peak Area (A-s): 0.136 Peak Height (A): 0.246  
Background Pk Area (A-s): 0.922 Background Pk Height (A): 0.385  
Blank Corrected Pk Area (A-s): 0.133  
Concentration (ug/L ): 19.6

uL dispensed: 5 from 39, 10 from 40, 25 from 20

Replicate 2 (Peak Stored) Time: 16:36  
Peak Area (A-s): 0.134 Peak Height (A): 0.247  
Background Pk Area (A-s): 0.907 Background Pk Height (A): 0.378  
Blank Corrected Pk Area (A-s): 0.131  
Concentration (ug/L ): 19.2

Mean Conc (ug/L ): 19.4 SD: 0.25 RSD(%): 1.28

Recovery is 93.4%

Pb ID: CCV-0790 Seq. No.: 00089 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1 Time: 16:40  
Peak Area (A-s): 0.149 Peak Height (A): 0.304  
Background Pk Area (A-s): 0.162 Background Pk Height (A): 0.084  
Blank Corrected Pk Area (A-s): 0.146  
Concentration (ug/L ): 21.7

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored) Time: 16:43  
Peak Area (A-s): 0.151 Peak Height (A): 0.301  
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.083  
Blank Corrected Pk Area (A-s): 0.148  
Concentration (ug/L ): 22.0

Mean Conc (ug/L ): 21.8 SD: 0.23 RSD(%): 1.05



QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00090 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 1 Time: 16:46  
 Peak Area (A-s): 0.007 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 16:49  
 Peak Area (A-s): 0.004 Peak Height (A): 0.008  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.011  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.7

Mean Conc (ug/L ): -1.5 SD: 0.37 RSD(%): 25.11

QC sample is within range

Pb ID: 7XX-JM3184 SS13 Seq. No.: 00091 A/S Pos.: 21 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 21  
 Replicate 1 Time: 16:53  
 Peak Area (A-s): 0.056 Peak Height (A): 0.124  
 Background Pk Area (A-s): 0.852 Background Pk Height (A): 0.291  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 6.7

uL dispensed: 5 from 39, 10 from 0, 25 from 21  
 Replicate 2 (Peak Stored) Time: 16:56  
 Peak Area (A-s): 0.054 Peak Height (A): 0.117  
 Background Pk Area (A-s): 0.905 Background Pk Height (A): 0.503  
 Blank Corrected Pk Area (A-s): 0.051  
 Concentration (ug/L ): 6.3

Mean Conc (ug/L ): 6.5<sup>Q</sup> SD: 0.32 RSD(%): 4.87

Pb ID: 7XX-JM3184 SS13 Seq. No.: 00092 A/S Pos.: 21 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 21  
 Replicate 1 Time: 17:00  
 Peak Area (A-s): 0.174 Peak Height (A): 0.336  
 Background Pk Area (A-s): 0.873 Background Pk Height (A): 0.388  
 Blank Corrected Pk Area (A-s): 0.172  
 Concentration (ug/L ): 25.7

uL dispensed: 5 from 39, 10 from 40, 25 from 21  
 Replicate 2 (Peak Stored) Time: 17:03  
 Peak Area (A-s): 0.154 Peak Height (A): 0.300  
 Background Pk Area (A-s): 0.899 Background Pk Height (A): 0.507  
 Blank Corrected Pk Area (A-s): 0.152  
 Concentration (ug/L ): 22.5

Mean Conc (ug/L ): 24.1 SD: 2.29 RSD(%): 9.48

Recovery is 88.2%

Pb ID: 7XX-JM3185 SS14 Seq. No.: 00093 A/S Pos.: 22 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 22

Replicate 1 Time: 17:06  
Peak Area (A-s): 0.029 Peak Height (A): 0.064  
Background Pk Area (A-s): 0.802 Background Pk Height (A): 0.449  
Blank Corrected Pk Area (A-s): 0.027  
Concentration (ug/L ): 2.3

uL dispensed: 5 from 39, 10 from 0, 25 from 22

Replicate 2 (Peak Stored) Time: 17:10  
Peak Area (A-s): 0.032 Peak Height (A): 0.062  
Background Pk Area (A-s): 0.808 Background Pk Height (A): 0.316  
Blank Corrected Pk Area (A-s): 0.030  
Concentration (ug/L ): 2.8

Mean Conc (ug/L ): 2.6 SD: 0.33 RSD(%): 13.05

Pb ID: 7XX-JM3185 SS14 Seq. No.: 00094 A/S Pos.: 22 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 22

Replicate 1 Time: 17:13  
Peak Area (A-s): 0.126 Peak Height (A): 0.260  
Background Pk Area (A-s): 0.811 Background Pk Height (A): 0.486  
Blank Corrected Pk Area (A-s): 0.124  
Concentration (ug/L ): 18.0

uL dispensed: 5 from 39, 10 from 40, 25 from 22

Replicate 2 (Peak Stored) Time: 17:17  
Peak Area (A-s): 0.139 Peak Height (A): 0.275  
Background Pk Area (A-s): 0.842 Background Pk Height (A): 0.385  
Blank Corrected Pk Area (A-s): 0.137  
Concentration (ug/L ): 20.1

Mean Conc (ug/L ): 19.0 SD: 1.45 RSD(%): 7.61

Recovery is 82.5% (outside of specified limits)

Pb ID: 7XX-JM3186 SS15 Seq. No.: 00095 A/S Pos.: 23 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 23

Replicate 1 Time: 17:20  
Peak Area (A-s): 0.049 Peak Height (A): 0.098  
Background Pk Area (A-s): 0.831 Background Pk Height (A): 0.430  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 5.6

uL dispensed: 5 from 39, 10 from 0, 25 from 23

Replicate 2 (Peak Stored) Time: 17:23  
Peak Area (A-s): 0.047 Peak Height (A): 0.098  
Background Pk Area (A-s): 0.844 Background Pk Height (A): 0.396  
Blank Corrected Pk Area (A-s): 0.044

Concentration (ug/L ): 5.1

Mean Conc (ug/L ): 5.3 *Q* SD: 0.28 RSD(%): 5.32-----  
Pb ID: 7XX-JM3186 SS15 Seq. No.: 00096 A/S Pos.: 23 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 23

Replicate 1

Time: 17:27

Peak Area (A-s): 0.146

Peak Height (A): 0.312

Background Pk Area (A-s): 0.898

Background Pk Height (A): 0.338

Blank Corrected Pk Area (A-s): 0.144

Concentration (ug/L ): 21.2

uL dispensed: 5 from 39, 10 from 40, 25 from 23

Replicate 2 (Peak Stored)

Time: 17:32

Peak Area (A-s): 0.159

Peak Height (A): 0.300

Background Pk Area (A-s): 0.873

Background Pk Height (A): 0.398

Blank Corrected Pk Area (A-s): 0.157

Concentration (ug/L ): 23.3

Mean Conc (ug/L ): 22.3 SD: 1.49 RSD(%): 6.71

Recovery is 84.6% (outside of specified limits)

-----  
Pb ID: CCV-0790 Seq. No.: 00097 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1

Time: 17:39

Peak Area (A-s): 0.150

Peak Height (A): 0.302

Background Pk Area (A-s): 0.212

Background Pk Height (A): 0.082

Blank Corrected Pk Area (A-s): 0.148

Concentration (ug/L ): 21.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored)

Time: 17:43

Peak Area (A-s): 0.148

Peak Height (A): 0.296

Background Pk Area (A-s): 0.203

Background Pk Height (A): 0.084

Blank Corrected Pk Area (A-s): 0.145

Concentration (ug/L ): 21.5

Mean Conc (ug/L ): 21.7 SD: 0.25 RSD(%): 1.13

QC sample is within range 19.1 - 23.3

-----  
Pb ID: CCB Seq. No.: 00098 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1

Time: 17:46

Peak Area (A-s): 0.007

Peak Height (A): 0.011

Background Pk Area (A-s): 0.025

Background Pk Height (A): 0.010

Blank Corrected Pk Area (A-s): 0.005

Concentration (ug/L ): -1.3

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored)

Time: 17:49

Peak Area (A-s): 0.005

Peak Height (A): 0.011

*Reloading  
Autosampler  
Tray  
98 2-21-94*

Background Pk Area (A-s): 0.025  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -1.6

Background Pk Height (A): 0.011

Mean Conc (ug/L ): -1.4

SD: 0.21

RSD(%): 14.53

QC sample is within range

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00099 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1

Replicate 1

Time: 17:53

Peak Area (A-s): 0.002

Peak Height (A): 0.011

Background Pk Area (A-s): 0.025

Background Pk Height (A): 0.011

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 1

Replicate 2 (Peak Stored)

Time: 17:56

Peak Area (A-s): 0.003

Peak Height (A): 0.006

Background Pk Area (A-s): 0.022

Background Pk Height (A): 0.009

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -2.0

SD: 0.14

RSD(%): 6.81

Pb ID: 7XX-JM3189 SS18- Seq. No.: 00100 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1

Replicate 1

Time: 17:59

Peak Area (A-s): 0.211

Peak Height (A): 0.423

Background Pk Area (A-s): 0.917

Background Pk Height (A): 0.444

Blank Corrected Pk Area (A-s): 0.209

Concentration (ug/L ): 31.8

uL dispensed: 5 from 39, 10 from 40, 25 from 1

Replicate 2 (Peak Stored)

Time: 18:03

Peak Area (A-s): 0.197

Peak Height (A): 0.343

Background Pk Area (A-s): 1.010

Background Pk Height (A): 0.687

Blank Corrected Pk Area (A-s): 0.195

Concentration (ug/L ): 29.5

Mean Conc (ug/L ): 30.6

SD: 1.63

RSD(%): 5.32

Recovery is 163.3% (outside of specified limits)

Pb ID: 7XX-JM3190 SS19 Seq. No.: 00101 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2

NO INJECTION SB 2-21-94

Pb ID: CCV-0790

Seq. No.: 00102

A/S Pos.: 38

Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1

Time: 18:07

Peak Area (A-s): 0.135

Peak Height (A): 0.248

Background Pk Area (A-s): 0.136

Background Pk Height (A): 0.072

SB 2-21-94  
Sample was not  
in position  
Re-run

Blank Corrected Pk Area (A-s): 0.132  
Concentration (ug/L ): 19.4

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 18:10  
Peak Area (A-s): 0.148 Peak Height (A): 0.291  
Background Pk Area (A-s): 0.221 Background Pk Height (A): 0.081  
Blank Corrected Pk Area (A-s): 0.146  
Concentration (ug/L ): 21.6

Mean Conc (ug/L ): 20.5 SD: 1.52 RSD(%): 7.44

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00103 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 18:14  
Peak Area (A-s): 0.006 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.010  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 18:17  
Peak Area (A-s): 0.006 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -1.5

Mean Conc (ug/L ): -1.5 SD: 0.04 RSD(%): 2.65

QC sample is within range

Pb ID: 7XX-JM3187 SS16 Seq. No.: 00104 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
Replicate 1 Time: 18:21  
Peak Area (A-s): 0.017 Peak Height (A): 0.037  
Background Pk Area (A-s): 0.854 Background Pk Height (A): 0.338  
Blank Corrected Pk Area (A-s): 0.015  
Concentration (ug/L ): 0.4

uL dispensed: 5 from 39, 10 from 0, 25 from 1  
Replicate 2 (Peak Stored) Time: 18:24  
Peak Area (A-s): 0.016 Peak Height (A): 0.037  
Background Pk Area (A-s): 0.942 Background Pk Height (A): 0.441  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 0.2

Mean Conc (ug/L ): 0.3  $\text{\textcircled{Q}}$  SD: 0.16 RSD(%): 59.25

Pb ID: 7XX-JM3187 SS16 Seq. No.: 00105 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1  
Replicate 1 Time: 18:28

Peak Area (A-s): 0.123  
 Background Pk Area (A-s): 0.971  
 Blank Corrected Pk Area (A-s): 0.121  
 Concentration (ug/L ): 17.6

Peak Height (A): 0.251  
 Background Pk Height (A): 0.329

uL dispensed: 5 from 39, 10 from 40, 25 from 1

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.126  
 Background Pk Area (A-s): 0.977  
 Blank Corrected Pk Area (A-s): 0.124  
 Concentration (ug/L ): 18.1

Time: 18:31  
 Peak Height (A): 0.248  
 Background Pk Height (A): 0.355

Mean Conc (ug/L ): 17.8 SD: 0.35 RSD(%): 1.95

Recovery is 87.8%

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00106 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 1  
 Peak Area (A-s): 0.115  
 Background Pk Area (A-s): 1.020  
 Blank Corrected Pk Area (A-s): 0.113  
 Concentration (ug/L ): 16.2

Time: 18:34  
 Peak Height (A): 0.227  
 Background Pk Height (A): 0.398

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.116  
 Background Pk Area (A-s): 1.001  
 Blank Corrected Pk Area (A-s): 0.114  
 Concentration (ug/L ): 16.4

Time: 18:38  
 Peak Height (A): 0.228  
 Background Pk Height (A): 0.346

Mean Conc (ug/L ): 16.3 SD: 0.14 RSD(%): 0.88

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00107 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2

Replicate 1  
 Peak Area (A-s): 0.211  
 Background Pk Area (A-s): 1.056  
 Blank Corrected Pk Area (A-s): 0.209  
 Concentration (ug/L ): 31.8

Time: 18:41  
 Peak Height (A): 0.393  
 Background Pk Height (A): 0.475

*capillary action  
 in tube  
 return*

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00108 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 1  
 Peak Area (A-s): 0.118  
 Background Pk Area (A-s): 0.898  
 Blank Corrected Pk Area (A-s): 0.116  
 Concentration (ug/L ): 16.7

Time: 18:45  
 Peak Height (A): 0.229  
 Background Pk Height (A): 0.384

uL dispensed: 5 from 39, 10 from 0, 25 from 2

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.117  
 Background Pk Area (A-s): 0.919

Time: 18:48  
 Peak Height (A): 0.235  
 Background Pk Height (A): 0.387

Will return  
2x at end  
of run  
SB  
2-21-94

Blank Corrected Pk Area (A-s): 0.115  
Concentration (ug/L ): 16.6

Mean Conc (ug/L ): 16.6 SD: 0.12 RSD(%): 0.72

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00109 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2

Replicate 1 Time: 18:52  
Peak Area (A-s): 0.216 Peak Height (A): 0.418  
Background Pk Area (A-s): 0.947 Background Pk Height (A): 0.435  
Blank Corrected Pk Area (A-s): 0.214  
Concentration (ug/L ): 32.6

uL dispensed: 5 from 39, 10 from 40, 25 from 2

Replicate 2 (Peak Stored) Time: 18:55  
Peak Area (A-s): 0.215 Peak Height (A): 0.410  
Background Pk Area (A-s): 0.940 Background Pk Height (A): 0.434  
Blank Corrected Pk Area (A-s): 0.213  
Concentration (ug/L ): 32.4

Mean Conc (ug/L ): 32.5 SD: 0.14 RSD(%): 0.44

Recovery is 79.2% (outside of specified limits)

Pb ID: 7XX-JM3190 SS19 Seq. No.: 00110 A/S Pos.: 3 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 3

Replicate 1 Time: 18:59  
Peak Area (A-s): 0.023 Peak Height (A): 0.042  
Background Pk Area (A-s): 0.852 Background Pk Height (A): 0.319  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 1.3

uL dispensed: 5 from 39, 10 from 0, 25 from 3

Replicate 2 (Peak Stored) Time: 19:02  
Peak Area (A-s): 0.022 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.845 Background Pk Height (A): 0.322  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 1.1

Mean Conc (ug/L ): 1.2 Q SD: 0.09 RSD(%): 7.54

Pb ID: 7XX-JM3190 SS19 Seq. No.: 00111 A/S Pos.: 3 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 3

Replicate 1 Time: 19:05  
Peak Area (A-s): 0.130 Peak Height (A): 0.246  
Background Pk Area (A-s): 0.871 Background Pk Height (A): 0.373  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 18.6

uL dispensed: 5 from 39, 10 from 40, 25 from 3

Replicate 2 (Peak Stored) Time: 19:09  
Peak Area (A-s): 0.116 Peak Height (A): 0.234  
Background Pk Area (A-s): 0.881 Background Pk Height (A): 0.565

W

Blank Corrected Pk Area (A-s): 0.114  
 Concentration (ug/L ): 16.5

Mean Conc (ug/L ): 17.5 SD: 1.50 RSD(%): 8.59

Recovery is 81.6% (outside of specified limits)

Pb ID: 7XX-JM3191 SS20 Seq. No.: 00112 A/S Pos.: 4 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 1 Time: 19:12  
 Peak Area (A-s): 0.017 Peak Height (A): 0.037  
 Background Pk Area (A-s): 0.864 Background Pk Height (A): 0.311  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 0.4

uL dispensed: 5 from 39, 10 from 0, 25 from 4  
 Replicate 2 (Peak Stored) Time: 19:16  
 Peak Area (A-s): 0.017 Peak Height (A): 0.034  
 Background Pk Area (A-s): 0.825 Background Pk Height (A): 0.319  
 Blank Corrected Pk Area (A-s): 0.014  
 Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.4<sup>Q</sup> SD: 0.10 RSD(%): 29.40

Pb ID: 7XX-JM3191 SS20 Seq. No.: 00113 A/S Pos.: 4 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 4  
 Replicate 1 Time: 19:19  
 Peak Area (A-s): 0.126 Peak Height (A): 0.250  
 Background Pk Area (A-s): 0.888 Background Pk Height (A): 0.386  
 Blank Corrected Pk Area (A-s): 0.123  
 Concentration (ug/L ): 17.9

uL dispensed: 5 from 39, 10 from 40, 25 from 4  
 Replicate 2 (Peak Stored) Time: 19:22  
 Peak Area (A-s): 0.128 Peak Height (A): 0.248  
 Background Pk Area (A-s): 0.865 Background Pk Height (A): 0.382  
 Blank Corrected Pk Area (A-s): 0.125  
 Concentration (ug/L ): 18.2

Mean Conc (ug/L ): 18.1 SD: 0.23 RSD(%): 1.28

Recovery is 88.7%

Pb ID: CCV-0790 Seq. No.: 00114 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Pb ID: CCV-0790 Seq. No.: 00115 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
 Replicate 1 Time: 19:28  
 Peak Area (A-s): 0.212 Peak Height (A): 0.390  
 Background Pk Area (A-s): 0.304 Background Pk Height (A): 0.160  
 Blank Corrected Pk Area (A-s): 0.210

STOPPED  
 TO REFILL  
 CCV  
 SB 2-21-



Concentration (ug/L ): 31.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 19:31  
Peak Area (A-s): 0.143 Peak Height (A): 0.267  
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.074  
Blank Corrected Pk Area (A-s): 0.141  
Concentration (ug/L ): 20.8

*SB 2-21-94  
Too high  
Rerun  
Automatically*

Mean Conc (ug/L ): 26.4 SD: 7.83 RSD(%) 29.72

Pb ID: CCV-0790 Seq. No.: 00116 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 1 Time: 19:34  
Peak Area (A-s): 0.153 Peak Height (A): 0.309  
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.088  
Blank Corrected Pk Area (A-s): 0.151  
Concentration (ug/L ): 22.4

uL dispensed: 5 from 39, 10 from 0, 25 from 38  
Replicate 2 (Peak Stored) Time: 19:38  
Peak Area (A-s): 0.154 Peak Height (A): 0.304  
Background Pk Area (A-s): 0.208 Background Pk Height (A): 0.087  
Blank Corrected Pk Area (A-s): 0.152  
Concentration (ug/L ): 22.5

Mean Conc (ug/L ): 22.5 SD: 0.07 RSD(%) 0.32

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00117 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1 Time: 19:41  
Peak Area (A-s): 0.006 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.014  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 19:45  
Peak Area (A-s): 0.004 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -1.7

Mean Conc (ug/L ): -1.5 SD: 0.17 RSD(%) 11.10

QC sample is within range

Pb ID: 7XX-JM3192 SS21 Seq. No.: 00118 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5  
Replicate 1 Time: 19:48  
Peak Area (A-s): 0.048 Peak Height (A): 0.094

Background Pk Area (A-s): 0.806  
 Blank Corrected Pk Area (A-s): 0.045  
 Concentration (ug/L ): 5.3

Background Pk Height (A): 0.335

uL dispensed: 5 from 39, 10 from 0, 25 from 5

Replicate 2 (Peak Stored)

Time: 19:51

Peak Area (A-s): 0.049

Peak Height (A): 0.093

Background Pk Area (A-s): 0.863

Background Pk Height (A): 0.323

Blank Corrected Pk Area (A-s): 0.047

Concentration (ug/L ): 5.6

Mean Conc (ug/L ): 5.5 Q SD: 0.18 RSD(%): 3.27

Pb ID: 7XX-JM3192 SS21 Seq. No.: 00119 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 5

Replicate 1

Time: 19:55

Peak Area (A-s): 0.156

Peak Height (A): 0.284

Background Pk Area (A-s): 0.906

Background Pk Height (A): 0.387

Blank Corrected Pk Area (A-s): 0.154

Concentration (ug/L ): 22.9

uL dispensed: 5 from 39, 10 from 40, 25 from 5

Replicate 2 (Peak Stored)

Time: 19:58

Peak Area (A-s): 0.161

Peak Height (A): 0.293

Background Pk Area (A-s): 0.910

Background Pk Height (A): 0.393

Blank Corrected Pk Area (A-s): 0.159

Concentration (ug/L ): 23.7

Mean Conc (ug/L ): 23.3 SD: 0.60 RSD(%): 2.57

Recovery is 89.2%

Pb ID: TCLP BLK 3791 Seq. No.: 00120 A/S Pos.: 6 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 6

Replicate 1

Time: 20:01

Peak Area (A-s): 0.013

Peak Height (A): 0.024

Background Pk Area (A-s): 0.813

Background Pk Height (A): 0.309

Blank Corrected Pk Area (A-s): 0.011

Concentration (ug/L ): -0.3

uL dispensed: 5 from 39, 10 from 0, 25 from 6

Replicate 2 (Peak Stored)

Time: 20:05

Peak Area (A-s): 0.011

Peak Height (A): 0.022

Background Pk Area (A-s): 0.821

Background Pk Height (A): 0.309

Blank Corrected Pk Area (A-s): 0.009

Concentration (ug/L ): -0.6

Mean Conc (ug/L ): -0.4 Q SD: 0.22 RSD(%): 51.08

Pb ID: TCLP BLK 3791 Seq. No.: 00121 A/S Pos.: 6 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 6

Replicate 1

Time: 20:08

Peak Area (A-s): 0.124

Peak Height (A): 0.229

Background Pk Area (A-s): 0.844      Background Pk Height (A): 0.369  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 17.7

uL dispensed: 5 from 39, 10 from 40, 25 from 6  
 Replicate 2 (Peak Stored)      Time: 20:12  
 Peak Area (A-s): 0.124      Peak Height (A): 0.231  
 Background Pk Area (A-s): 0.844      Background Pk Height (A): 0.377  
 Blank Corrected Pk Area (A-s): 0.122  
 Concentration (ug/L ): 17.8

Mean Conc (ug/L ):      17.7      SD: 0.02      RSD(%): 0.12

Recovery is 90.9%

Pb    ID: PBL-N7R3777      Seq. No.: 00122      A/S Pos.: 7      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 7  
 Replicate 1      Time: 20:15  
 Peak Area (A-s): 0.007      Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.026      Background Pk Height (A): 0.011  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): -1.2

uL dispensed: 5 from 39, 10 from 0, 25 from 7  
 Replicate 2 (Peak Stored)      Time: 20:18  
 Peak Area (A-s): 0.009      Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.024      Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.007  
 Concentration (ug/L ): -0.9

Mean Conc (ug/L ):      -1.1 <sup>Q</sup>      SD: 0.19      RSD(%): 17.84

Pb    ID: PBL-N7R3777      Seq. No.: 00123      A/S Pos.: 7      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 7  
 Replicate 1      Time: 20:22  
 Peak Area (A-s): 0.129      Peak Height (A): 0.242  
 Background Pk Area (A-s): 0.058      Background Pk Height (A): 0.063  
 Blank Corrected Pk Area (A-s): 0.126  
 Concentration (ug/L ): 18.4

uL dispensed: 5 from 39, 10 from 40, 25 from 7  
 Replicate 2 (Peak Stored)      Time: 20:25  
 Peak Area (A-s): 0.131      Peak Height (A): 0.239  
 Background Pk Area (A-s): 0.062      Background Pk Height (A): 0.064  
 Blank Corrected Pk Area (A-s): 0.129  
 Concentration (ug/L ): 18.8

Mean Conc (ug/L ):      18.6      SD: 0.26      RSD(%): 1.37

Recovery is 98.4%

Pb    ID: LCSL-N7R3777      Seq. No.: 00124      A/S Pos.: 8      Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 8

Replicate 1  
 Peak Area (A-s): 0.130  
 Background Pk Area (A-s): 0.060  
 Blank Corrected Pk Area (A-s): 0.128  
 Concentration (ug/L ): 18.6

Time: 20:28  
 Peak Height (A): 0.243  
 Background Pk Height (A): 0.064

uL dispensed: 5 from 39, 10 from 0, 25 from 8

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.129  
 Background Pk Area (A-s): 0.063  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 18.5

Time: 20:32  
 Peak Height (A): 0.242  
 Background Pk Height (A): 0.066

Mean Conc (ug/L ): 18.5 Q SD: 0.10 RSD(%): 0.56

Pb ID: LCSL-N7R3777 Seq. No.: 00125 A/S Pos.: 8 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 1  
 Peak Area (A-s): 0.242  
 Background Pk Area (A-s): 0.095  
 Blank Corrected Pk Area (A-s): 0.239  
 Concentration (ug/L ): 36.7

Time: 20:35  
 Peak Height (A): 0.429  
 Background Pk Height (A): 0.121

uL dispensed: 5 from 39, 10 from 40, 25 from 8

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.241  
 Background Pk Area (A-s): 0.088  
 Blank Corrected Pk Area (A-s): 0.239  
 Concentration (ug/L ): 36.6

Time: 20:38  
 Peak Height (A): 0.425  
 Background Pk Height (A): 0.118

Mean Conc (ug/L ): 36.6 SD: 0.08 RSD(%): 0.22

Recovery is 90.5%

Pb ID: 7SM-JM3183 MTXS Seq. No.: 00126 A/S Pos.: 9 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 9

Replicate 1  
 Peak Area (A-s): 0.144  
 Background Pk Area (A-s): 0.776  
 Blank Corrected Pk Area (A-s): 0.142  
 Concentration (ug/L ): 20.9

Time: 20:42  
 Peak Height (A): 0.285  
 Background Pk Height (A): 0.391

uL dispensed: 5 from 39, 10 from 0, 25 from 9

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.146  
 Background Pk Area (A-s): 0.789  
 Blank Corrected Pk Area (A-s): 0.144  
 Concentration (ug/L ): 21.3

Time: 20:45  
 Peak Height (A): 0.277  
 Background Pk Height (A): 0.376

Mean Conc (ug/L ): 21.1 Q SD: 0.28 RSD(%): 1.31

Pb ID: 7SD-JM3183 MTXR Seq. No.: 00127 A/S Pos.: 10 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 10

Replicate 1  
 Peak Area (A-s): 0.146  
 Background Pk Area (A-s): 0.841  
 Blank Corrected Pk Area (A-s): 0.144  
 Concentration (ug/L ): 21.3

Time: 20:48  
 Peak Height (A): 0.276  
 Background Pk Height (A): 0.387

uL dispensed: 5 from 39, 10 from 0, 25 from 10

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.144  
 Background Pk Area (A-s): 0.825  
 Blank Corrected Pk Area (A-s): 0.141  
 Concentration (ug/L ): 20.8

Time: 20:52  
 Peak Height (A): 0.268  
 Background Pk Height (A): 0.375

Mean Conc (ug/L ): 21.1 Q SD: 0.33 RSD(%): 1.59

Pb ID: CCV-0790 Seq. No.: 00128 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1  
 Peak Area (A-s): 0.136  
 Background Pk Area (A-s): 0.177  
 Blank Corrected Pk Area (A-s): 0.134  
 Concentration (ug/L ): 19.6

Time: 20:55  
 Peak Height (A): 0.280  
 Background Pk Height (A): 0.076

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.137  
 Background Pk Area (A-s): 0.187  
 Blank Corrected Pk Area (A-s): 0.135  
 Concentration (ug/L ): 19.8

Time: 20:58  
 Peak Height (A): 0.277  
 Background Pk Height (A): 0.077

Mean Conc (ug/L ): 19.7 SD: 0.10 RSD(%): 0.49

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00129 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.6

Time: 21:01  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.010

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.025  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -1.6

Time: 21:05  
 Peak Height (A): 0.008  
 Background Pk Height (A): 0.010

Mean Conc (ug/L ): -1.6 SD: 0.03 RSD(%): 2.03

QC sample is within range

Pb ID: 7XX-JM3183 SS12 Seq. No.: 00130 A/S Pos.: 11 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 11  
 Replicate 1 Time: 21:08  
 Peak Area (A-s): 0.030 Peak Height (A): 0.057  
 Background Pk Area (A-s): 0.716 Background Pk Height (A): 0.319  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 2.4

uL dispensed: 5 from 39, 10 from 0, 25 from 11  
 Replicate 2 (Peak Stored) Time: 21:11  
 Peak Area (A-s): 0.029 Peak Height (A): 0.055  
 Background Pk Area (A-s): 0.747 Background Pk Height (A): 0.320  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 2.2

Mean Conc (ug/L ): 2.3 Q SD: 0.14 RSD(%): 6.17

Pb ID: 7XX-JM3183 SS12 Seq. No.: 00131 A/S Pos.: 11 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 11  
 Replicate 1 Time: 21:14  
 Peak Area (A-s): 0.140 Peak Height (A): 0.270  
 Background Pk Area (A-s): 0.799 Background Pk Height (A): 0.377  
 Blank Corrected Pk Area (A-s): 0.138  
 Concentration (ug/L ): 20.3

uL dispensed: 5 from 39, 10 from 40, 25 from 11  
 Replicate 2 (Peak Stored) Time: 21:18  
 Peak Area (A-s): 0.140 Peak Height (A): 0.256  
 Background Pk Area (A-s): 0.798 Background Pk Height (A): 0.376  
 Blank Corrected Pk Area (A-s): 0.138  
 Concentration (ug/L ): 20.3

Mean Conc (ug/L ): 20.3 SD: 0.05 RSD(%): 0.26

Recovery is 89.9%

Pb ID: 7XX-JM3183 DUP Seq. No.: 00132 A/S Pos.: 12 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 12  
 Replicate 1 Time: 21:21  
 Peak Area (A-s): 0.033 Peak Height (A): 0.064  
 Background Pk Area (A-s): 0.809 Background Pk Height (A): 0.346  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 2.9

uL dispensed: 5 from 39, 10 from 0, 25 from 12  
 Replicate 2 (Peak Stored) Time: 21:24  
 Peak Area (A-s): 0.034 Peak Height (A): 0.062  
 Background Pk Area (A-s): 0.808 Background Pk Height (A): 0.337  
 Blank Corrected Pk Area (A-s): 0.031  
 Concentration (ug/L ): 3.0

Mean Conc (ug/L ): 3.0 Q SD: 0.11 RSD(%): 3.83

Pb ID: 7XX-JM3183 DUP Seq. No.: 00133 A/S Pos.: 12 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 12  
 Replicate 1 Time: 21:28  
 Peak Area (A-s): 0.144 Peak Height (A): 0.274  
 Background Pk Area (A-s): 0.820 Background Pk Height (A): 0.375  
 Blank Corrected Pk Area (A-s): 0.142  
 Concentration (ug/L ): 21.0

uL dispensed: 5 from 39, 10 from 40, 25 from 12  
 Replicate 2 (Peak Stored) Time: 21:31  
 Peak Area (A-s): 0.143 Peak Height (A): 0.265  
 Background Pk Area (A-s): 0.822 Background Pk Height (A): 0.370  
 Blank Corrected Pk Area (A-s): 0.141  
 Concentration (ug/L ): 20.7

Mean Conc (ug/L ): 20.9 SD: 0.18 RSD(%): 0.84

Recovery is 89.5%

Pb ID: 7XX-JM3179 SS08 Seq. No.: 00134 A/S Pos.: 13 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 13  
 Replicate 1 Time: 21:34  
 Peak Area (A-s): 0.018 Peak Height (A): 0.034  
 Background Pk Area (A-s): 0.693 Background Pk Height (A): 0.315  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 0.5

uL dispensed: 5 from 39, 10 from 0, 25 from 13  
 Replicate 2 (Peak Stored) Time: 21:37  
 Peak Area (A-s): 0.016 Peak Height (A): 0.035  
 Background Pk Area (A-s): 0.718 Background Pk Height (A): 0.315  
 Blank Corrected Pk Area (A-s): 0.014  
 Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.4 *Q* SD: 0.14 RSD(%): 38.70

Pb ID: 7XX-JM3179 SS08 Seq. No.: 00135 A/S Pos.: 13 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
 Replicate 1 Time: 21:41  
 Peak Area (A-s): 0.130 Peak Height (A): 0.228  
 Background Pk Area (A-s): 0.730 Background Pk Height (A): 0.356  
 Blank Corrected Pk Area (A-s): 0.127  
 Concentration (ug/L ): 18.6

uL dispensed: 5 from 39, 10 from 40, 25 from 13  
 Replicate 2 (Peak Stored) Time: 21:44  
 Peak Area (A-s): 0.133 Peak Height (A): 0.254  
 Background Pk Area (A-s): 0.716 Background Pk Height (A): 0.380  
 Blank Corrected Pk Area (A-s): 0.130  
 Concentration (ug/L ): 19.1

Mean Conc (ug/L ): 18.8 SD: 0.37 RSD(%): 1.94

Recovery is 92.4%

Pb ID: 7XX-JM3180 SS09 Seq. No.: 00136 A/S Pos.: 14 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
 Replicate 1 Time: 21:47  
 Peak Area (A-s): 0.130 Peak Height (A): 0.241  
 Background Pk Area (A-s): 0.458 Background Pk Height (A): 0.133  
 Blank Corrected Pk Area (A-s): 0.128  
 Concentration (ug/L ): 18.6 Corrected Conc (ug/L ): 186.

uL dispensed: 5 from 39, 10 from 0, 25 from 14  
 Replicate 2 (Peak Stored) Time: 21:50  
 Peak Area (A-s): 0.127 Peak Height (A): 0.245  
 Background Pk Area (A-s): 0.481 Background Pk Height (A): 0.132  
 Blank Corrected Pk Area (A-s): 0.125  
 Concentration (ug/L ): 18.2 Corrected Conc (ug/L ): 182.

Mean Conc (ug/L ): 18.4 Q SD: 0.28 RSD(%): 1.51  
 Corrected Conc (ug/L ): 184.

Pb ID: 7XX-JM3180 SS09 Seq. No.: 00137 A/S Pos.: 14 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 1 Time: 21:54  
 Peak Area (A-s): 0.234 Peak Height (A): 0.456  
 Background Pk Area (A-s): 0.536 Background Pk Height (A): 0.209  
 Blank Corrected Pk Area (A-s): 0.232  
 Concentration (ug/L ): 35.5 Corrected Conc (ug/L ): 355.

uL dispensed: 5 from 39, 10 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 21:57  
 Peak Area (A-s): 0.235 Peak Height (A): 0.468  
 Background Pk Area (A-s): 0.546 Background Pk Height (A): 0.204  
 Blank Corrected Pk Area (A-s): 0.233  
 Concentration (ug/L ): 35.7 Corrected Conc (ug/L ): 357.

Mean Conc (ug/L ): 35.6 SD: 0.15 RSD(%): 0.43  
 Corrected Conc (ug/L ): 356.

Recovery is 85.8%

Pb ID: 7XX-JM3181 SS10 Seq. No.: 00138 A/S Pos.: 15 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 15  
 Replicate 1 Time: 22:00  
 Peak Area (A-s): 0.026 Peak Height (A): 0.047  
 Background Pk Area (A-s): 0.776 Background Pk Height (A): 0.325  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 15  
 Replicate 2 (Peak Stored) Time: 22:03  
 Peak Area (A-s): 0.023 Peak Height (A): 0.046  
 Background Pk Area (A-s): 0.784 Background Pk Height (A): 0.320  
 Blank Corrected Pk Area (A-s): 0.021



Concentration (ug/L ): 1.4

Mean Conc (ug/L ): 1.6 Q SD: 0.31 RSD(%): 19.42

Pb ID: 7XX-JMS181 SS10 Seq. No.: 00139 A/S Pos.: 15 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 1 Time: 22:07  
 Peak Area (A-s): 0.126 Peak Height (A): 0.223  
 Background Pk Area (A-s): 0.860 Background Pk Height (A): 0.345  
 Blank Corrected Pk Area (A-s): 0.124  
 Concentration (ug/L ): 18.0

uL dispensed: 5 from 39, 10 from 40, 25 from 15

Replicate 2 (Peak Stored) Time: 22:10  
 Peak Area (A-s): 0.134 Peak Height (A): 0.245  
 Background Pk Area (A-s): 0.811 Background Pk Height (A): 0.381  
 Blank Corrected Pk Area (A-s): 0.131  
 Concentration (ug/L ): 19.2

Mean Conc (ug/L ): 18.6 SD: 0.85 RSD(%): 4.59

Recovery is 85.1%

Pb ID: CCV-0790 Seq. No.: 00140 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1 Time: 22:13  
 Peak Area (A-s): 0.138 Peak Height (A): 0.285  
 Background Pk Area (A-s): 0.190 Background Pk Height (A): 0.078  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 19.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored) Time: 22:17  
 Peak Area (A-s): 0.138 Peak Height (A): 0.281  
 Background Pk Area (A-s): 0.208 Background Pk Height (A): 0.080  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 20.0

Mean Conc (ug/L ): 19.9 SD: 0.05 RSD(%): 0.25

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00141 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1 Time: 22:20  
 Peak Area (A-s): 0.005 Peak Height (A): 0.011  
 Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.010  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): -1.6

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 2 (Peak Stored) Time: 22:23  
 Peak Area (A-s): 0.004 Peak Height (A): 0.009

Background Pk Area (A-s): 0.026  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -1.7

Background Pk Height (A): 0.010

Mean Conc (ug/L ): -1.6

SD: 0.07

RSD(%): 4.58

QC sample is within range

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00142 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 16

Replicate 1

Time: 22:26

Peak Area (A-s): 0.192

Peak Height (A): 0.345

Background Pk Area (A-s): 0.784

Background Pk Height (A): 0.404

Blank Corrected Pk Area (A-s): 0.190

Concentration (ug/L ): 28.7

uL dispensed: 5 from 39, 10 from 0, 25 from 16

Replicate 2 (Peak Stored)

Time: 22:30

Peak Area (A-s): 0.197

Peak Height (A): 0.351

Background Pk Area (A-s): 0.827

Background Pk Height (A): 0.403

Blank Corrected Pk Area (A-s): 0.194

Concentration (ug/L ): 29.4

Mean Conc (ug/L ): 29.0

SD: 0.54

RSD(%): 1.87

*Retun 2x  
on  
2-22-94  
50*

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00143 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16

Replicate 1

Time: 22:33

Peak Area (A-s): 0.291

Peak Height (A): 0.505

Background Pk Area (A-s): 0.860

Background Pk Height (A): 0.464

Blank Corrected Pk Area (A-s): 0.289

Concentration (ug/L ): 44.7

uL dispensed: 5 from 39, 10 from 40, 25 from 16

Replicate 2 (Peak Stored)

Time: 22:36

Peak Area (A-s): 0.290

Peak Height (A): 0.517

Background Pk Area (A-s): 0.867

Background Pk Height (A): 0.467

Blank Corrected Pk Area (A-s): 0.287

Concentration (ug/L ): 44.5

Mean Conc (ug/L ): 44.6

SD: 0.18

RSD(%): 0.41

Recovery is 77.8% (outside of specified limits)

Pb ID: 7XX-JM3189 SS18 Seq. No.: 00144 A/S Pos.: 17 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 17

Replicate 1

Time: 22:39

Peak Area (A-s): 0.062

Peak Height (A): 0.114

Background Pk Area (A-s): 0.584

Background Pk Height (A): 0.291

Blank Corrected Pk Area (A-s): 0.060

Concentration (ug/L ): 7.6

Corrected Conc (ug/L ): 15.3

uL dispensed: 5 from 39, 10 from 0, 25 from 17

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.064  
 Background Pk Area (A-s): 0.583  
 Blank Corrected Pk Area (A-s): 0.062  
 Concentration (ug/L ): 8.0

Time: 22:43  
 Peak Height (A): 0.116  
 Background Pk Height (A): 0.297  
 Corrected Conc (ug/L ): 16.1

Mean Conc (ug/L ): 7.8<sup>Q</sup>  
 Corrected Conc (ug/L ): 15.7

SD: 0.29 RSD(%): 3.65

-----  
 Pb ID: 7XX-JM3189 SS18 Seq. No.: 00145 A/S Pos.: 17 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 17

Replicate 1  
 Peak Area (A-s): 0.173  
 Background Pk Area (A-s): 0.622  
 Blank Corrected Pk Area (A-s): 0.171  
 Concentration (ug/L ): 25.7

Time: 22:46  
 Peak Height (A): 0.307  
 Background Pk Height (A): 0.347  
 Corrected Conc (ug/L ): 51.3

uL dispensed: 5 from 39, 10 from 40, 25 from 17

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.176  
 Background Pk Area (A-s): 0.614  
 Blank Corrected Pk Area (A-s): 0.174  
 Concentration (ug/L ): 26.2

Time: 22:49  
 Peak Height (A): 0.301  
 Background Pk Height (A): 0.338  
 Corrected Conc (ug/L ): 52.3

Mean Conc (ug/L ): 25.9  
 Corrected Conc (ug/L ): 51.8

SD: 0.35 RSD(%): 1.37

Recovery is 90.4%

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 Pb ID: CCV-0790 Seq. No.: 00146 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 1  
 Peak Area (A-s): 0.140  
 Background Pk Area (A-s): 0.210  
 Blank Corrected Pk Area (A-s): 0.137  
 Concentration (ug/L ): 20.2

Time: 22:53  
 Peak Height (A): 0.286  
 Background Pk Height (A): 0.079

uL dispensed: 5 from 39, 10 from 0, 25 from 38

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.140  
 Background Pk Area (A-s): 0.212  
 Blank Corrected Pk Area (A-s): 0.137  
 Concentration (ug/L ): 20.2

Time: 22:56  
 Peak Height (A): 0.285  
 Background Pk Height (A): 0.081

Mean Conc (ug/L ): 20.2

SD: 0.02 RSD(%): 0.09

QC sample is within range 19.1 - 23.3

-----  
 Pb ID: CCB Seq. No.: 00147 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0

Replicate 1  
 Peak Area (A-s): 0.005  
 Background Pk Area (A-s): 0.026

Time: 22:59  
 Peak Height (A): 0.011  
 Background Pk Height (A): 0.009

Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored) Time: 23:02  
Peak Area (A-s): 0.006 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): -1.4

Mean Conc (ug/L ): -1.6 SD: 0.16 RSD(%): 10.05

QC sample is within range

~~~~~  
Pb ID: CRA-0792 Seq. No.: 00148 A/S Pos.: 36 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36
Replicate 1 Time: 23:06
Peak Area (A-s): 0.043 Peak Height (A): 0.080
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 4.6

uL dispensed: 5 from 39, 10 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 23:09
Peak Area (A-s): 0.040 Peak Height (A): 0.072
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 4.0

Mean Conc (ug/L): 4.3 SD: 0.41 RSD(%): 9.47

QC sample is out of range 2.25 - 3.75

Element File: PBDK.GEL
Element: Pb
Print Data: Main+Suppl.
Print: Calib. Curve+Elem. Params.

Analyst: RLS
Peak Storage: 1 Repl./Sample

INSTRUMENT: 5100 Technique: HGA Version: 7.10
Wavelength: 283.3 Peak Slit: 0.7 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0.0 BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier	
						#1	#2
Calib. Blank	CAL BLK	-----	0	25	10	5	
Standard 1	STD 1 IN0785	4.0	40	2	10	5	
Standard 2	STD 2	10.0	40	5	10	5	
Standard 3	STD 3	20.0	40	10	10	5	
Standard 4	STD 4	30.0	40	15	10	5	
Standard 5	STD 5	40.0	40	20	10	5	
Standard 6	STD 6	50.0	40	25	10	5	
Samples				25	10	5	

Diluent Location: 0
Modifier #1 Location: 39 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	10	30	300		Alt
2	150	5	10	300		Alt
3	600	10	40	300		Alt
4	20	1	10	300		Alt
5	1750	0	5	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

- Step Action and Parameters
- 1 Pipet modifier 1 + diluent + spike + sample/std
 - 2 Run HGA steps 1 to End

CHECKS:

Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & 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: 1-8,11-17
Add to QC Samples: No % Recovery Limits: 85 to 115

QC:

#	A/S	QC Sample	Conc.	Limits	After	Periodic	At	Count As
	Loc.	ID	Lower	Upper	Calib	Check	End	Sample
1	37	ICV-0791	31.8	38.8	X			
2	0	ICB			X			
3	38	CCV-0790	19.1	23.3		X	X	
4	0	CCB				X	X	
5	36	CRA-0792	2.25	3.75			X	

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: 02/22/94 Time: 08:14 Slit: 0.7 L
Data File: A022294.DAT ID/Wt File: B022194.IDW Lamp Current: 10
Technique: HGA Calib. Type: Linear Energy: 62

~~~~~  
Pb    ID: CAL BLK                         Seq. No.: 00001            A/S Pos.: 0                Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 1                               Time: 08:17  
Peak Area (A-s): 0.002                   Peak Height (A): 0.006  
Background Pk Area (A-s): 0.021         Background Pk Height (A): 0.012  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.0

uL dispensed: 5 from 39, 10 from 0, 25 from 0  
Replicate 2 (Peak Stored)               Time: 08:20  
Peak Area (A-s): 0.001                   Peak Height (A): 0.005  
Background Pk Area (A-s): 0.023         Background Pk Height (A): 0.012  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -0.3

Mean Conc (ug/L ):                       -0.2                       SD: 0.15                       RSD(%): 102.28

Auto-zero performed.

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Pb    ID: STD 1 IN0785                   Seq. No.: 00002            A/S Pos.: 40               Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
Replicate 1                               Time: 08:24  
Peak Area (A-s): 0.036                   Peak Height (A): 0.063  
Background Pk Area (A-s): 0.033         Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 4.1

uL dispensed: 5 from 39, 10 from 0, 2 from 40  
Replicate 2 (Peak Stored)               Time: 08:27  
Peak Area (A-s): 0.033                   Peak Height (A): 0.065  
Background Pk Area (A-s): 0.034         Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 3.7

Mean Conc (ug/L ):                       3.9                       SD: 0.25                       RSD(%): 6.53

Standard number 1 applied. [4.0]  
Correlation coefficient: 1.00000         Slope: 0.0083               Int: 0.000

-----  
Pb    ID: STD 2                           Seq. No.: 00003            A/S Pos.: 40               Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40  
Replicate 1                               Time: 08:30  
Peak Area (A-s): 0.072                   Peak Height (A): 0.126  
Background Pk Area (A-s): 0.044         Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.071  
Concentration (ug/L ): 8.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40

Replicate 2 (Peak Stored)

Time: 08:34

Peak Area (A-s): 0.071

Peak Height (A): 0.125

Background Pk Area (A-s): 0.048

Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): 0.070

Concentration (ug/L ): 8.5

Mean Conc (ug/L ): 8.5

8.5

SD: 0.07

RSD(%): 0.83

Standard number 2 applied. [10.0]

Correlation coefficient: 0.99675

Slope: 0.0070

Int: 0.002

Pb ID: STD 3

Seq. No.: 00004

A/S Pos.: 40

Date: 02/22/94

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): 0.225

Background Pk Area (A-s): 0.051

Background Pk Height (A): 0.059

Blank Corrected Pk Area (A-s): 0.129

Concentration (ug/L ): 18.3

uL dispensed: 5 from 39, 10 from 0, 10 from 40

Replicate 2 (Peak Stored)

Time: 08:40

Peak Area (A-s): 0.126

Peak Height (A): 0.226

Background Pk Area (A-s): 0.056

Background Pk Height (A): 0.059

Blank Corrected Pk Area (A-s): 0.124

Concentration (ug/L ): 17.6

Mean Conc (ug/L ): 17.9

17.9

SD: 0.47

RSD(%): 2.62

Standard number 3 applied. [20.0]

Correlation coefficient: 0.99713

Slope: 0.0062

Int: 0.005

Pb ID: STD 4

Seq. No.: 00005

A/S Pos.: 40

Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 15 from 40

Replicate 1

Time: 08:44

Peak Area (A-s): 0.184

Peak Height (A): 0.320

Background Pk Area (A-s): 0.069

Background Pk Height (A): 0.085

Blank Corrected Pk Area (A-s): 0.182

Concentration (ug/L ): 28.6

uL dispensed: 5 from 39, 10 from 0, 15 from 40

Replicate 2 (Peak Stored)

Time: 08:47

Peak Area (A-s): 0.182

Peak Height (A): 0.317

Background Pk Area (A-s): 0.072

Background Pk Height (A): 0.087

Blank Corrected Pk Area (A-s): 0.181

Concentration (ug/L ): 28.3

Mean Conc (ug/L ): 28.4

28.4

SD: 0.20

RSD(%): 0.72

Standard number 4 applied. [30.0]

Correlation coefficient: 0.99810

Slope: 0.0059

Int: 0.006

Pb ID: STD 5

Seq. No.: 00006

A/S Pos.: 40

Date: 02/22/94



uL dispensed: 5 from 39, 10 from 0, 20 from 40  
 Replicate 1 Time: 08:50  
 Peak Area (A-s): 0.235 Peak Height (A): 0.412  
 Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.115  
 Blank Corrected Pk Area (A-s): 0.234  
 Concentration (ug/L ): 38.3

uL dispensed: 5 from 39, 10 from 0, 20 from 40  
 Replicate 2 (Peak Stored) Time: 08:54  
 Peak Area (A-s): 0.235 Peak Height (A): 0.406  
 Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.116  
 Blank Corrected Pk Area (A-s): 0.233  
 Concentration (ug/L ): 38.2

Mean Conc (ug/L ): 38.2 SD: 0.06 RSD(%): 0.15

Standard number 5 applied. [40.0]  
 Correlation coefficient: 0.99845 Slope: 0.0057 Int: 0.008

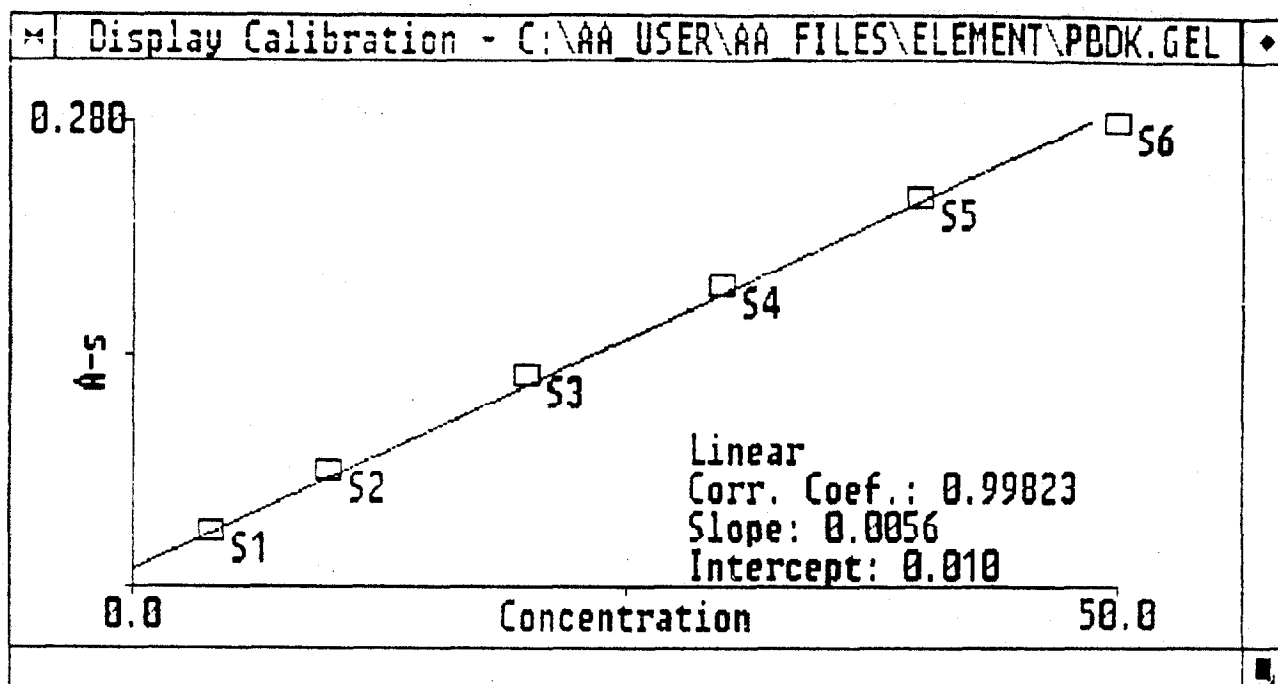
~~~~~  
 Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/22/94

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): 0.464
 Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.137
 Blank Corrected Pk Area (A-s): 0.279
 Concentration (ug/L): 47.1

uL dispensed: 5 from 39, 10 from 0, 25 from 40
 Replicate 2 (Peak Stored) Time: 09:00
 Peak Area (A-s): 0.283 Peak Height (A): 0.476
 Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.139
 Blank Corrected Pk Area (A-s): 0.282
 Concentration (ug/L): 47.7

Mean Conc (ug/L): 47.4 SD: 0.40 RSD(%): 0.85

Standard number 6 applied. [50.0]
 Correlation coefficient: 0.99823 Slope: 0.0056 Int: 0.010



Pb ID: ICV-0791 Seq. No.: 00008 A/S Pos.: 37 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 37
Replicate 1 Time: 09:11
Peak Area (A-s): 0.201 Peak Height (A): 0.387
Background Pk Area (A-s): 0.396 Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 34.2

uL dispensed: 5 from 39, 10 from 0, 25 from 37
Replicate 2 (Peak Stored) Time: 09:15
Peak Area (A-s): 0.202 Peak Height (A): 0.385
Background Pk Area (A-s): 0.396 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 34.3

Mean Conc (ug/L): 34.2 SD: 0.05 RSD(%): 0.13

QC sample is within range 31.8 - 38.8

Pb ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 1 Time: 09:18
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 09:21
Peak Area (A-s): -0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.010

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L): -2.1

Mean Conc (ug/L): -1.9 SD: 0.28 RSD(%): 14.16

QC sample is within range

Pb ID: CRA-0792 Seq. No.: 00010 A/S Pos.: 36 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 36
 Replicate 1 Time: 09:24
 Peak Area (A-s): 0.023 Peak Height (A): 0.049
 Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.036
 Blank Corrected Pk Area (A-s): 0.022
 Concentration (ug/L): 2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 36
 Replicate 2 (Peak Stored) Time: 09:28
 Peak Area (A-s): 0.025 Peak Height (A): 0.044
 Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.012
 Blank Corrected Pk Area (A-s): 0.024
 Concentration (ug/L): 2.5

Mean Conc (ug/L): 2.3 SD: 0.26 RSD(%): 11.16

QC sample is within range 2.25 - 3.75

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00011 A/S Pos.: 16 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 16
 Replicate 1 Time: 09:31
 Peak Area (A-s): 0.101 Peak Height (A): 0.220
 Background Pk Area (A-s): 0.537 Background Pk Height (A): 0.315
 Blank Corrected Pk Area (A-s): 0.100
 Concentration (ug/L): 16.2 Corrected Conc (ug/L): 32.4

uL dispensed: 5 from 39, 10 from 0, 25 from 16
 Replicate 2 (Peak Stored) Time: 09:34
 Peak Area (A-s): 0.105 Peak Height (A): 0.230
 Background Pk Area (A-s): 0.521 Background Pk Height (A): 0.305
 Blank Corrected Pk Area (A-s): 0.104
 Concentration (ug/L): 16.9 Corrected Conc (ug/L): 33.8

Mean Conc (ug/L): 16.6 SD: 0.49 RSD(%): 2.95
Corrected Conc (ug/L): 33.1

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00012 A/S Pos.: 16 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16
 Replicate 1 Time: 09:38
 Peak Area (A-s): 0.205 Peak Height (A): 0.436
 Background Pk Area (A-s): 0.554 Background Pk Height (A): 0.354
 Blank Corrected Pk Area (A-s): 0.204
 Concentration (ug/L): 34.9 Corrected Conc (ug/L): 69.8

uL dispensed: 5 from 39, 10 from 40, 25 from 16

Replicate 2 (Peak Stored) Time: 09:41
 Peak Area (A-s): 0.208 Peak Height (A): 0.435
 Background Pk Area (A-s): 0.564 Background Pk Height (A): 0.358
 Blank Corrected Pk Area (A-s): 0.207
 Concentration (ug/L): 35.5 Corrected Conc (ug/L): 70.9
 Mean Conc (ug/L): 35.2 SD: 0.40 RSD(%): 1.14
 Corrected Conc (ug/L): 70.4

Recovery is 93.2%

Pb ID: CCV-0790 Seq. No.: 00013 A/S Pos.: 38 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38
 Replicate 1 Time: 09:44
 Peak Area (A-s): 0.139 Peak Height (A): 0.267
 Background Pk Area (A-s): 0.249 Background Pk Height (A): 0.076
 Blank Corrected Pk Area (A-s): 0.138
 Concentration (ug/L): 23.0

uL dispensed: 5 from 39, 10 from 0, 25 from 38
 Replicate 2 (Peak Stored) Time: 09:48
 Peak Area (A-s): 0.139 Peak Height (A): 0.265
 Background Pk Area (A-s): 0.249 Background Pk Height (A): 0.073
 Blank Corrected Pk Area (A-s): 0.137
 Concentration (ug/L): 22.9

Mean Conc (ug/L): 22.9 SD: 0.09 RSD(%): 0.38

QC sample is within range 19.1 - 23.3

Pb ID: CCB Seq. No.: 00014 A/S Pos.: 0 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0
 Replicate 1 Time: 09:51
 Peak Area (A-s): 0.003 Peak Height (A): 0.005
 Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.009
 Blank Corrected Pk Area (A-s): 0.002
 Concentration (ug/L): -1.5

uL dispensed: 5 from 39, 10 from 0, 25 from 0
 Replicate 2 (Peak Stored) Time: 09:54
 Peak Area (A-s): 0.003 Peak Height (A): 0.005
 Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.009
 Blank Corrected Pk Area (A-s): 0.002
 Concentration (ug/L): -1.5

Mean Conc (ug/L): -1.5 SD: 0.03 RSD(%): 1.70

QC sample is within range

```

-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/17/94             Time: 10:31     Slit: 0.70 L
Data File: A021794.DAT     ID/Wt File: A021794.IDW
Technique: HGA             Calib. Type: Linear      Energy: 54
-----

```

```

-----
Se   ID: CAL BLANK          Seq. No.: 00001   A/S Pos.: 0      Date: 02/17/94
-----

```

```

Se   ID: STD 1 IN-0782     Seq. No.: 00002   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0055      Int: 0.000
-----

```

```

Se   ID: STD 2             Seq. No.: 00003   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99540      Slope: 0.0045      Int: 0.002
-----

```

```

Se   ID: STD 3             Seq. No.: 00004   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99712      Slope: 0.0041      Int: 0.003
-----

```

```

Se   ID: STD 4             Seq. No.: 00005   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99890      Slope: 0.0041      Int: 0.003
-----

```

```

Se   ID: STD 5             Seq. No.: 00006   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99945      Slope: 0.0041      Int: 0.003
-----

```

```

Se   ID: STD 6             Seq. No.: 00007   A/S Pos.: 40     Date: 02/17/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99965      Slope: 0.0041      Int: 0.003
-----

```

```

Se   ID: ICV-0793         Seq. No.: 00009   A/S Pos.: 37     Date: 02/17/94
-----

```

```

Se   ID: ICB/CCB          Seq. No.: 00010   A/S Pos.: 0      Date: 02/17/94
-----

```

```

Se   ID: CRA-0795         Seq. No.: 00011   A/S Pos.: 36     Date: 02/17/94
-----

```

```

Se   ID: PBL-N7R3773     Seq. No.: 00012   A/S Pos.: 1      Date: 02/17/94
-----

```

Analytical Report

Date: 02/20/94

```

-----
Se   ID: PBL-N7R3773      Seq. No.: 00013   A/S Pos.: 1     Date: 02/17/94
-----
Se   ID: LC SL-N7R3773    Seq. No.: 00014   A/S Pos.: 2     Date: 02/17/94
-----
Se   ID: LC SL-N7R3773    Seq. No.: 00015   A/S Pos.: 2     Date: 02/17/94
-----
Se   ID: 7SM-JM3178 MTXS  Seq. No.: 00016   A/S Pos.: 3     Date: 02/17/94
-----
Se   ID: 7SD-JM3178 MTXR  Seq. No.: 00017   A/S Pos.: 4     Date: 02/17/94
-----
Se   ID: 7XX-JM3178 SS07  Seq. No.: 00018   A/S Pos.: 5     Date: 02/17/94
-----
Se   ID: 7XX-JM3178 SS07  Seq. No.: 00019   A/S Pos.: 5     Date: 02/17/94
-----
Se   ID: 7XX-JM3178 DUP   Seq. No.: 00020   A/S Pos.: 6     Date: 02/17/94
-----
Se   ID: 7XX-JM3178 DUP   Seq. No.: 00021   A/S Pos.: 6     Date: 02/17/94
-----
Se   ID: 7XX-JM3178 DUP   Seq. No.: 00022   A/S Pos.: 6     Date: 02/17/94
-----
Se   ID: ICB/CCB          Seq. No.: 00023   A/S Pos.: 0     Date: 02/17/94
-----
Se   ID: CCV-0793         Seq. No.: 00024   A/S Pos.: 38    Date: 02/17/94
-----
Se   ID: CCV-0793         Seq. No.: 00027   A/S Pos.: 38    Date: 02/17/94
-----
Se   ID: CCB              Seq. No.: 00028   A/S Pos.: 0     Date: 02/17/94
-----
Se   ID: 7XX-JM3170 01A   Seq. No.: 00029   A/S Pos.: 8     Date: 02/17/94
-----
Se   ID: 7XX-JM3170 01A   Seq. No.: 00030   A/S Pos.: 8     Date: 02/17/94
-----
Se   ID: 7XX-JM3171 01B   Seq. No.: 00031   A/S Pos.: 9     Date: 02/17/94
-----
Se   ID: 7XX-JM3171 01B   Seq. No.: 00032   A/S Pos.: 9     Date: 02/17/94
-----

```

Analytical Report

Date: 02/20/94

Se ID: 7XX-JM3172 SS01 Seq. No.: 00033 A/S Pos.: 10 Date: 02/17/94

Se ID: 7XX-JM3172 SS01 Seq. No.: 00034 A/S Pos.: 10 Date: 02/17/94

Se ID: 7XX-JM3173 SS02 Seq. No.: 00035 A/S Pos.: 11 Date: 02/17/94

Se ID: 7XX-JM3173 SS02 Seq. No.: 00036 A/S Pos.: 11 Date: 02/17/94

Se ID: 7XX-JM3174 SS03 Seq. No.: 00037 A/S Pos.: 12 Date: 02/17/94

Se ID: 7XX-JM3174 SS03 Seq. No.: 00038 A/S Pos.: 12 Date: 02/17/94

Se ID: CCV-0793 Seq. No.: 00039 A/S Pos.: 38 Date: 02/17/94

Se ID: CCB Seq. No.: 00040 A/S Pos.: 0 Date: 02/17/94

Se ID: 7XX-JM3175 SS04 Seq. No.: 00041 A/S Pos.: 13 Date: 02/17/94

Se ID: 7XX-JM3175 SS04 Seq. No.: 00042 A/S Pos.: 13 Date: 02/17/94

Se ID: 7XX-JM3176 SS05 Seq. No.: 00043 A/S Pos.: 14 Date: 02/17/94

Se ID: 7XX-JM3176 SS05 Seq. No.: 00044 A/S Pos.: 14 Date: 02/17/94

Se ID: 7XX-JM3177 SS06 Seq. No.: 00045 A/S Pos.: 15 Date: 02/17/94

Se ID: 7XX-JM3177 SS06 Seq. No.: 00046 A/S Pos.: 15 Date: 02/17/94

Se ID: 7XX-JM3177 SS06 Seq. No.: 00047 A/S Pos.: 15 Date: 02/17/94

Se ID: TCLP BLK 3773 Seq. No.: 00048 A/S Pos.: 16 Date: 02/17/94

Se ID: TCLP BLK 3773 Seq. No.: 00049 A/S Pos.: 16 Date: 02/17/94

Se ID: PBL-N7R3777 Seq. No.: 00050 A/S Pos.: 17 Date: 02/17/94

Se ID: PBL-N7R3777 Seq. No.: 00051 A/S Pos.: 17 Date: 02/17/94

Analytical Report

Date: 02/20/94

Se ID: CCV-0793 Seq. No.: 00052 A/S Pos.: 38 Date: 02/17/94

Se ID: CAL BLANK Seq. No.: 00054 A/S Pos.: 0 Date: 02/17/94

Se ID: STD 1 IN-0782 Seq. No.: 00055 A/S Pos.: 40 Date: 02/17/94

Standard number 1 applied. [4.000]

Correlation coefficient: 1.00000 Slope: 0.0036 Int: 0.000

Se ID: CAL BLANK Seq. No.: 00057 A/S Pos.: 0 Date: 02/17/94

Se ID: CAL BLANK Seq. No.: 00058 A/S Pos.: 0 Date: 02/17/94

Se ID: CAL BLANK Seq. No.: 00059 A/S Pos.: 0 Date: 02/17/94

Se ID: STD 1 IN-0782 Seq. No.: 00060 A/S Pos.: 40 Date: 02/17/94

Se ID: STD 2 Seq. No.: 00061 A/S Pos.: 40 Date: 02/17/94

Se ID: STD 3 Seq. No.: 00062 A/S Pos.: 40 Date: 02/17/94

Se ID: STD 4 Seq. No.: 00063 A/S Pos.: 40 Date: 02/17/94

Se ID: STD 5 Seq. No.: 00064 A/S Pos.: 40 Date: 02/17/94

Se ID: STD 6 Seq. No.: 00065 A/S Pos.: 40 Date: 02/17/94

Se ID: ICV-0793 Seq. No.: 00066 A/S Pos.: 37 Date: 02/17/94

Se ID: ICB Seq. No.: 00067 A/S Pos.: 0 Date: 02/17/94

Se ID: CRA-0795 Seq. No.: 00068 A/S Pos.: 36 Date: 02/17/94

Se ID: 7XX-JM3175 SS04 Seq. No.: 00069 A/S Pos.: 13 Date: 02/17/94

Se ID: 7XX-JM3175 SS04 Seq. No.: 00070 A/S Pos.: 13 Date: 02/17/94

Analytical Report

Date: 02/20/94

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~~~~~
Se   ID: 7XX-JM3176 SS05   Seq. No.: 00071   A/S Pos.: 14   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3176 SS05   Seq. No.: 00072   A/S Pos.: 14   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3176 SS05   Seq. No.: 00073   A/S Pos.: 14   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3177 SS06   Seq. No.: 00074   A/S Pos.: 15   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3177 SS06   Seq. No.: 00075   A/S Pos.: 15   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3177 SS06   Seq. No.: 00076   A/S Pos.: 15   Date: 02/17/94
~~~~~
Se   ID: TCLP BLK 3773     Seq. No.: 00077   A/S Pos.: 16   Date: 02/17/94
~~~~~
Se   ID: TCLP BLK 3773     Seq. No.: 00078   A/S Pos.: 16   Date: 02/17/94
~~~~~
Se   ID: PBL-N7R3777       Seq. No.: 00080   A/S Pos.: 17   Date: 02/17/94
~~~~~
Se   ID: PBL-N7R3777       Seq. No.: 00081   A/S Pos.: 17   Date: 02/17/94
~~~~~
Se   ID: CCV-0793          Seq. No.: 00083   A/S Pos.: 38   Date: 02/17/94
~~~~~
Se   ID: CCB                Seq. No.: 00084   A/S Pos.: 0    Date: 02/17/94
~~~~~
Se   ID: LCSSL-N7R3777     Seq. No.: 00085   A/S Pos.: 18   Date: 02/17/94
~~~~~
Se   ID: LCSSL-N7R3777     Seq. No.: 00086   A/S Pos.: 18   Date: 02/17/94
~~~~~
Se   ID: 7SM-JM3183 MTXS   Seq. No.: 00087   A/S Pos.: 19   Date: 02/17/94
~~~~~
Se   ID: 7SD-JM3183 MTXR   Seq. No.: 00088   A/S Pos.: 20   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3183 SS12   Seq. No.: 00089   A/S Pos.: 21   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3183 SS12   Seq. No.: 00090   A/S Pos.: 21   Date: 02/17/94
~~~~~
Se   ID: 7XX-JM3183 DUP    Seq. No.: 00091   A/S Pos.: 22   Date: 02/17/94
~~~~~
```

Analytical Report

Date: 02/20/94

```
~~~~~
Se  ID: 7XX-JM3183 DUP      Seq. No.: 00092   A/S Pos.: 22   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3183 DUP      Seq. No.: 00093   A/S Pos.: 22   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3179 SS08     Seq. No.: 00094   A/S Pos.: 23   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3179 SS08     Seq. No.: 00095   A/S Pos.: 23   Date: 02/17/94
~~~~~
Se  ID: CCV-0793            Seq. No.: 00096   A/S Pos.: 38   Date: 02/17/94
~~~~~
Se  ID: CCB                  Seq. No.: 00097   A/S Pos.: 0    Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3180 SS09     Seq. No.: 00098   A/S Pos.: 24   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3180 SS09     Seq. No.: 00099   A/S Pos.: 24   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3181 SS10     Seq. No.: 00100   A/S Pos.: 25   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3181 SS10     Seq. No.: 00101   A/S Pos.: 25   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3182 SS11     Seq. No.: 00102   A/S Pos.: 26   Date: 02/17/94
~~~~~
Se  ID: 7XX-JM3182 SS11     Seq. No.: 00103   A/S Pos.: 26   Date: 02/17/94
~~~~~
Se  ID: CCV-0793            Seq. No.: 00104   A/S Pos.: 38   Date: 02/17/94
~~~~~
Se  ID: CCB                  Seq. No.: 00105   A/S Pos.: 0    Date: 02/17/94
~~~~~
Se  ID: CRA-0795            Seq. No.: 00106   A/S Pos.: 36   Date: 02/17/94
~~~~~
Se  ID: CRA-0795            Seq. No.: 00107   A/S Pos.: 36   Date: 02/17/94
~~~~~
```

Analytical Report

Date: 02/20/94

```

-----
Element File: PBDK.GEL      Element: Pb      Wavelength: 283.3
Date: 02/18/94            Time: 08:26     Slit: 0.70 L
Data File: A021894.DAT    ID/Wt File: A021894.IDW
Technique: HGA            Calib. Type: Linear      Energy: 60
-----

```

```

-----
Pb   ID: CAL BLK           Seq. No.: 00001   A/S Pos.: 38   Date: 02/18/94
-----

```

```

-----
Pb   ID: STD 1 0768      Seq. No.: 00002   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0087      Int: 0.000
-----

```

```

-----
Pb   ID: STD 2           Seq. No.: 00003   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99656      Slope: 0.0073      Int: 0.002
-----

```

```

-----
Pb   ID: STD 3           Seq. No.: 00004   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99822      Slope: 0.0068      Int: 0.004
-----

```

```

-----
Pb   ID: STD 4           Seq. No.: 00005   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99925      Slope: 0.0067      Int: 0.005
-----

```

```

-----
Pb   ID: STD 5           Seq. No.: 00006   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99939      Slope: 0.0065      Int: 0.006
-----

```

```

-----
Pb   ID: STD 6           Seq. No.: 00007   A/S Pos.: 40   Date: 02/18/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99957      Slope: 0.0065      Int: 0.006
-----

```

```

-----
Pb   ID: 1643C           Seq. No.: 00008   A/S Pos.: 37   Date: 02/18/94
-----

```

```

-----
Pb   ID: ICB/CCB        Seq. No.: 00009   A/S Pos.: 38   Date: 02/18/94
-----

```

```

-----
Pb   ID: WS028 C1       Seq. No.: 00010   A/S Pos.: 36   Date: 02/18/94
-----

```

```

-----
Pb   ID: IDL1 IN0785 10X  Seq. No.: 00011   A/S Pos.: 1     Date: 02/18/94
-----

```

Analytical Report

Date: 02/20/94

~~~~~

|       |              |                 |              |                |
|-------|--------------|-----------------|--------------|----------------|
| Pb    | ID: IDL2     | Seq. No.: 00012 | A/S Pos.: 2  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: IDL3     | Seq. No.: 00013 | A/S Pos.: 3  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: IDL4     | Seq. No.: 00014 | A/S Pos.: 4  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: IDL5     | Seq. No.: 00015 | A/S Pos.: 5  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: IDL6     | Seq. No.: 00016 | A/S Pos.: 6  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: IDL7     | Seq. No.: 00017 | A/S Pos.: 7  | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: 1643C    | Seq. No.: 00018 | A/S Pos.: 37 | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: ICB/CCB  | Seq. No.: 00019 | A/S Pos.: 38 | Date: 02/18/94 |
| ~~~~~ |              |                 |              |                |
| Pb    | ID: WS028 C1 | Seq. No.: 00020 | A/S Pos.: 36 | Date: 02/18/94 |

## Analytical Report

Date: 02/20/94

```

-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/18/94             Time: 13:12     Slit: 0.70 L
Data File: B021894.DAT     ID/Wt File: B021894.IDW
Technique: HGA             Calib. Type: Linear      Energy: 53
-----

```

```

-----
Se   ID: CAL BLANK          Seq. No.: 00001   A/S Pos.: 0      Date: 02/18/94
-----

```

```

-----
Se   ID: STD 1 IN-0782     Seq. No.: 00002   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0049      Int: 0.000
-----

```

```

-----
Se   ID: STD 2             Seq. No.: 00003   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99108      Slope: 0.0037      Int: 0.002
-----

```

```

-----
Se   ID: STD 3             Seq. No.: 00004   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99569      Slope: 0.0034      Int: 0.003
-----

```

```

-----
Se   ID: STD 4             Seq. No.: 00005   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99751      Slope: 0.0032      Int: 0.004
-----

```

```

-----
Se   ID: STD 5             Seq. No.: 00006   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99847      Slope: 0.0031      Int: 0.005
-----

```

```

-----
Se   ID: STD 6             Seq. No.: 00007   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99911      Slope: 0.0031      Int: 0.005
-----

```

```

-----
Se   ID: ICV-0793         Seq. No.: 00008   A/S Pos.: 37     Date: 02/18/94
-----

```

```

-----
Se   ID: ICB              Seq. No.: 00009   A/S Pos.: 0      Date: 02/18/94
-----

```

```

-----
Se   ID: CRA-0795         Seq. No.: 00010   A/S Pos.: 36     Date: 02/18/94
-----

```

```

-----
Se   ID: PBL-N7R3777     Seq. No.: 00011   A/S Pos.: 1      Date: 02/18/94
-----

```

## Analytical Report

Date: 02/20/94

```

-----
Se  ID: CRA-0795          Seq. No.: 00012   A/S Pos.: 36   Date: 02/18/94
-----
Se  ID: PBL-N7R3777      Seq. No.: 00013   A/S Pos.: 1    Date: 02/18/94
-----
Se  ID: PBL-N7R3777      Seq. No.: 00014   A/S Pos.: 1    Date: 02/18/94
-----
Se  ID: LCSL-N7R3777     Seq. No.: 00015   A/S Pos.: 2    Date: 02/18/94
-----
Se  ID: LCSL-N7R3777     Seq. No.: 00016   A/S Pos.: 2    Date: 02/18/94
-----
Se  ID: PBL-N7R3791      Seq. No.: 00017   A/S Pos.: 3    Date: 02/18/94
-----
Se  ID: PBL-N7R3791      Seq. No.: 00018   A/S Pos.: 3    Date: 02/18/94
-----
Se  ID: LCSL-N7R3791     Seq. No.: 00019   A/S Pos.: 4    Date: 02/18/94
-----
Se  ID: LCSL-N7R3791     Seq. No.: 00020   A/S Pos.: 4    Date: 02/18/94
-----
Se  ID: TCLP BLK 3772    Seq. No.: 00021   A/S Pos.: 5    Date: 02/18/94
-----
Se  ID: TCLP BLK 3772    Seq. No.: 00022   A/S Pos.: 5    Date: 02/18/94
-----
Se  ID: CCV-0793         Seq. No.: 00023   A/S Pos.: 38   Date: 02/18/94
-----
Se  ID: CCB              Seq. No.: 00024   A/S Pos.: 0    Date: 02/18/94
-----
Se  ID: TCLP BLK 3791    Seq. No.: 00025   A/S Pos.: 6    Date: 02/18/94
-----
Se  ID: TCLP BLK 3791    Seq. No.: 00026   A/S Pos.: 6    Date: 02/18/94
-----
Se  ID: 7XX-JM3169 DS01  Seq. No.: 00027   A/S Pos.: 7    Date: 02/18/94
-----
Se  ID: 7XX-JM3169 DS01  Seq. No.: 00028   A/S Pos.: 7    Date: 02/18/94
-----
Se  ID: 7XX-JM3174 SS03  Seq. No.: 00029   A/S Pos.: 8    Date: 02/18/94
-----

```

```
Se ID: 7XX-JM3174 SS03 Seq. No.: 00030 A/S Pos.: 8 Date: 02/18/94
Se ID: 7XX-JM3175 SS04 Seq. No.: 00031 A/S Pos.: 9 Date: 02/18/94
Se ID: 7XX-JM3175 SS04 Seq. No.: 00032 A/S Pos.: 9 Date: 02/18/94
Se ID: 7XX-JM3176 SS05 Seq. No.: 00033 A/S Pos.: 10 Date: 02/18/94
Se ID: 7XX-JM3176 SS05 Seq. No.: 00034 A/S Pos.: 10 Date: 02/18/94
Se ID: 7XX-JM3176 SS05 Seq. No.: 00035 A/S Pos.: 10 Date: 02/18/94
Se ID: CCV-0793 Seq. No.: 00036 A/S Pos.: 38 Date: 02/18/94
Se ID: CCB Seq. No.: 00037 A/S Pos.: 0 Date: 02/18/94
Se ID: 7XX-JM3177 SS06 Seq. No.: 00038 A/S Pos.: 11 Date: 02/18/94
Se ID: 7XX-JM3177 SS06 Seq. No.: 00039 A/S Pos.: 11 Date: 02/18/94
Se ID: 7XX-JM3177 SS06 Seq. No.: 00040 A/S Pos.: 11 Date: 02/18/94
Se ID: 7SM-JM3183 MTXS Seq. No.: 00041 A/S Pos.: 12 Date: 02/18/94
Se ID: 7SD-JM3183 MTXR Seq. No.: 00042 A/S Pos.: 13 Date: 02/18/94
Se ID: 7XX-JM3183 SS12 Seq. No.: 00043 A/S Pos.: 14 Date: 02/18/94
Se ID: 7XX-JM3183 SS12 Seq. No.: 00044 A/S Pos.: 14 Date: 02/18/94
Se ID: 7XX-JM3183 DUP Seq. No.: 00045 A/S Pos.: 15 Date: 02/18/94
Se ID: 7XX-JM3183 DUP Seq. No.: 00046 A/S Pos.: 15 Date: 02/18/94
Se ID: CCV-0793 Seq. No.: 00047 A/S Pos.: 38 Date: 02/18/94
Se ID: CCV-0793 Seq. No.: 00048 A/S Pos.: 38 Date: 02/18/94
```

## Analytical Report

Date: 02/20/94

```

-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/18/94             Time: 20:04     Slit: 0.70 L
Data File: B021894.DAT     ID/Wt File: B021894.IDW
Technique: HGA             Calib. Type: Linear      Energy: 54
-----

```

```

-----
Se   ID: CAL BLANK          Seq. No.: 00049   A/S Pos.: 0      Date: 02/18/94
-----

```

```

-----
Se   ID: STD 1 IN-0782     Seq. No.: 00050   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0041      Int: 0.000
-----

```

```

-----
Se   ID: STD 2             Seq. No.: 00051   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.97851      Slope: 0.0028      Int: 0.002
-----

```

```

-----
Se   ID: STD 3             Seq. No.: 00052   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99206      Slope: 0.0034      Int: -0.000
-----

```

```

-----
Se   ID: STD 3             Seq. No.: 00053   A/S Pos.: 40     Date: 02/18/94
-----

```

```

-----
Se   ID: STD 4             Seq. No.: 00054   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99616      Slope: 0.0036      Int: -0.001
-----

```

```

-----
Se   ID: STD 5             Seq. No.: 00055   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99749      Slope: 0.0035      Int: -0.001
-----

```

```

-----
Se   ID: STD 6             Seq. No.: 00056   A/S Pos.: 40     Date: 02/18/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99842      Slope: 0.0035      Int: -0.001
-----

```

```

-----
Se   ID: ICV-0793         Seq. No.: 00057   A/S Pos.: 37     Date: 02/18/94
-----

```

```

-----
Se   ID: ICB              Seq. No.: 00058   A/S Pos.: 0      Date: 02/18/94
-----

```



## Analytical Report

Date: 02/20/94

|    |                     |                 |              |                |
|----|---------------------|-----------------|--------------|----------------|
| Se | ID: CRA-0795        | Seq. No.: 00059 | A/S Pos.: 36 | Date: 02/18/94 |
| Se | ID: 7XX-JM3177 SS06 | Seq. No.: 00060 | A/S Pos.: 11 | Date: 02/18/94 |
| Se | ID: 7XX-JM3177 SS06 | Seq. No.: 00061 | A/S Pos.: 11 | Date: 02/18/94 |
| Se | ID: 7SM-JM3183 MTXS | Seq. No.: 00062 | A/S Pos.: 12 | Date: 02/18/94 |
| Se | ID: 7SM-JM3183 MTXS | Seq. No.: 00063 | A/S Pos.: 12 | Date: 02/18/94 |
| Se | ID: 7SD-JM3183 MTXR | Seq. No.: 00064 | A/S Pos.: 13 | Date: 02/18/94 |
| Se | ID: 7XX-JM3183 SS12 | Seq. No.: 00065 | A/S Pos.: 14 | Date: 02/18/94 |
| Se | ID: 7XX-JM3183 SS12 | Seq. No.: 00066 | A/S Pos.: 14 | Date: 02/18/94 |
| Se | ID: 7XX-JM3183 DUP  | Seq. No.: 00067 | A/S Pos.: 15 | Date: 02/18/94 |
| Se | ID: 7XX-JM3183 DUP  | Seq. No.: 00068 | A/S Pos.: 15 | Date: 02/18/94 |
| Se | ID: 7XX-JM3179 SS08 | Seq. No.: 00069 | A/S Pos.: 16 | Date: 02/18/94 |
| Se | ID: 7XX-JM3179 SS08 | Seq. No.: 00070 | A/S Pos.: 16 | Date: 02/18/94 |
| Se | ID: CCV-0793        | Seq. No.: 00071 | A/S Pos.: 38 | Date: 02/18/94 |
| Se | ID: CCB             | Seq. No.: 00072 | A/S Pos.: 0  | Date: 02/18/94 |
| Se | ID: 7XX-JM3180 SS09 | Seq. No.: 00073 | A/S Pos.: 17 | Date: 02/18/94 |
| Se | ID: 7XX-JM3180 SS09 | Seq. No.: 00074 | A/S Pos.: 17 | Date: 02/18/94 |
| Se | ID: 7XX-JM3181 SS10 | Seq. No.: 00075 | A/S Pos.: 18 | Date: 02/18/94 |
| Se | ID: 7XX-JM3181 SS10 | Seq. No.: 00076 | A/S Pos.: 18 | Date: 02/18/94 |
| Se | ID: 7XX-JM3181 SS10 | Seq. No.: 00077 | A/S Pos.: 18 | Date: 02/18/94 |

## Analytical Report

Date: 02/20/94

```

-----
Se   ID: 7XX-JM3182 SS11   Seq. No.: 00078   A/S Pos.: 19   Date: 02/18/94
-----
Se   ID: 7XX-JM3182 SS11   Seq. No.: 00079   A/S Pos.: 19   Date: 02/18/94
-----
Se   ID: 7XX-JM3182 SS11   Seq. No.: 00080   A/S Pos.: 19   Date: 02/18/94
-----
Se   ID: 7SM-JM3193 MTXS   Seq. No.: 00081   A/S Pos.: 20   Date: 02/18/94
-----
Se   ID: 7SD-JM3193 MTXR   Seq. No.: 00082   A/S Pos.: 21   Date: 02/18/94
-----
Se   ID: CCV-0793           Seq. No.: 00083   A/S Pos.: 38   Date: 02/19/94
-----
Se   ID: CCB                 Seq. No.: 00084   A/S Pos.: 0    Date: 02/19/94
-----
Se   ID: 7XX-JM3193 SS22   Seq. No.: 00085   A/S Pos.: 22   Date: 02/19/94
-----
Se   ID: 7XX-JM3193 SS22   Seq. No.: 00086   A/S Pos.: 22   Date: 02/19/94
-----
Se   ID: 7XX-JM3193 SS22   Seq. No.: 00087   A/S Pos.: 22   Date: 02/19/94
-----
Se   ID: 7XX-JM3193 DUP    Seq. No.: 00088   A/S Pos.: 23   Date: 02/19/94
-----
Se   ID: 7XX-JM3193 DUP    Seq. No.: 00089   A/S Pos.: 23   Date: 02/19/94
-----
Se   ID: 7XX-JM3193 DUP    Seq. No.: 00090   A/S Pos.: 23   Date: 02/19/94
-----
Se   ID: 7XX-JM3184 SS13   Seq. No.: 00091   A/S Pos.: 24   Date: 02/19/94

```

Analytical Report

Date: 02/20/94

```

-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/19/94             Time: 08:24     Slit: 0.70 L
Data File: A021894.DAT     ID/Wt File: B021894.IDW
Technique: HGA              Calib. Type: Linear      Energy: 55
-----

```

```

-----
Se  ID: CAL BLANK           Seq. No.: 00001   A/S Pos.: 0      Date: 02/19/94
-----

```

```

-----
Se  ID: STD 1 IN-0782      Seq. No.: 00002   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000      Slope: 0.0031      Int: 0.000
-----

```

```

-----
Se  ID: STD 2              Seq. No.: 00003   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99874      Slope: 0.0028      Int: 0.000
-----

```

```

-----
Se  ID: STD 3              Seq. No.: 00004   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99838      Slope: 0.0025      Int: 0.001
-----

```

```

-----
Se  ID: STD 4              Seq. No.: 00005   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 4 applied. [30.000]
Correlation coefficient: 0.98691      Slope: 0.0032      Int: -0.002
-----

```

```

-----
Se  ID: STD 4              Seq. No.: 00006   A/S Pos.: 40     Date: 02/19/94
-----

```

```

-----
Se  ID: STD 5              Seq. No.: 00007   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99357      Slope: 0.0032      Int: -0.003
-----

```

```

-----
Se  ID: STD 5              Seq. No.: 00008   A/S Pos.: 40     Date: 02/19/94
-----

```

```

-----
Se  ID: STD 6              Seq. No.: 00009   A/S Pos.: 40     Date: 02/19/94
-----

```

```

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99612      Slope: 0.0032      Int: -0.003
-----

```

```

-----
Se  ID: STD 3              Seq. No.: 00010   A/S Pos.: 40     Date: 02/19/94
-----

```

```

-----
Se  ID: ICV-0793          Seq. No.: 00011   A/S Pos.: 37     Date: 02/19/94
-----

```

## Analytical Report

Date: 02/20/94

```

-----
Se  ID: ICB                      Seq. No.: 00012   A/S Pos.: 0     Date: 02/19/94
-----
Se  ID: CRA-0795                 Seq. No.: 00013   A/S Pos.: 36    Date: 02/19/94
-----
Se  ID: PBL-N7R37779120.94  Seq. No.: 00014   A/S Pos.: 3     Date: 02/19/94
-----
Se  ID: PBL-N7R37779120.94  Seq. No.: 00015   A/S Pos.: 3     Date: 02/19/94
-----
Se  ID: 7XX-JM3193 SS22         Seq. No.: 00016   A/S Pos.: 22    Date: 02/19/94
-----
Se  ID: 7XX-JM3193 SS22         Seq. No.: 00017   A/S Pos.: 22    Date: 02/19/94
-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/19/94              Time: 10:33     Slit: 0.70 L
Data File: A021994.DAT      ID/Wt File: B021894.IDW
Technique: HGA              Calib. Type: Linear  Energy: 55
-----
Se  ID: 7XX-JM3193 SS22         Seq. No.: 00018   A/S Pos.: 22    Date: 02/19/94
-----
Se  ID: 7XX-JM3193 SS22         Seq. No.: 00019   A/S Pos.: 22    Date: 02/19/94
-----
Se  ID: 7XX-JM3193 SS22         Seq. No.: 00020   A/S Pos.: 22    Date: 02/19/94
-----
Se  ID: 7XX-JM3193 DUP         Seq. No.: 00021   A/S Pos.: 23    Date: 02/19/94
-----
Se  ID: 7XX-JM3193 DUP         Seq. No.: 00022   A/S Pos.: 23    Date: 02/19/94
-----
Se  ID: 7XX-JM3184 SS13        Seq. No.: 00023   A/S Pos.: 24    Date: 02/19/94
-----
Se  ID: 7XX-JM3184 SS13        Seq. No.: 00024   A/S Pos.: 24    Date: 02/19/94
-----
Se  ID: CCV-0793                Seq. No.: 00025   A/S Pos.: 38    Date: 02/19/94
-----
Se  ID: CCB                      Seq. No.: 00026   A/S Pos.: 0     Date: 02/19/94
-----
Se  ID: CCV-0793                Seq. No.: 00027   A/S Pos.: 38    Date: 02/19/94
-----

```

## Analytical Report

Date: 02/20/94

|    |                     |                 |              |                |
|----|---------------------|-----------------|--------------|----------------|
| Se | ID: CCB             | Seq. No.: 00028 | A/S Pos.: 0  | Date: 02/19/94 |
| Se | ID: 7XX-JM3185 SS14 | Seq. No.: 00029 | A/S Pos.: 25 | Date: 02/19/94 |
| Se | ID: 7XX-JM3185 SS14 | Seq. No.: 00030 | A/S Pos.: 25 | Date: 02/19/94 |
| Se | ID: 7XX-JM3186 SS15 | Seq. No.: 00031 | A/S Pos.: 26 | Date: 02/19/94 |
| Se | ID: 7XX-JM3186 SS15 | Seq. No.: 00032 | A/S Pos.: 26 | Date: 02/19/94 |
| Se | ID: 7XX-JM3187 SS16 | Seq. No.: 00033 | A/S Pos.: 27 | Date: 02/19/94 |
| Se | ID: 7XX-JM3187 SS16 | Seq. No.: 00034 | A/S Pos.: 27 | Date: 02/19/94 |
| Se | ID: 7XX-JM3188 SS17 | Seq. No.: 00035 | A/S Pos.: 28 | Date: 02/19/94 |
| Se | ID: 7XX-JM3188 SS17 | Seq. No.: 00036 | A/S Pos.: 28 | Date: 02/19/94 |
| Se | ID: 7XX-JM3189 SS18 | Seq. No.: 00037 | A/S Pos.: 29 | Date: 02/19/94 |
| Se | ID: 7XX-JM3189 SS18 | Seq. No.: 00038 | A/S Pos.: 29 | Date: 02/19/94 |
| Se | ID: 7XX-JM3189 SS18 | Seq. No.: 00039 | A/S Pos.: 29 | Date: 02/19/94 |
| Se | ID: CCV-0793        | Seq. No.: 00040 | A/S Pos.: 38 | Date: 02/19/94 |
| Se | ID: CCV-0793        | Seq. No.: 00042 | A/S Pos.: 38 | Date: 02/19/94 |
| Se | ID: CCB             | Seq. No.: 00043 | A/S Pos.: 0  | Date: 02/19/94 |
| Se | ID: 7XX-JM3190 SS19 | Seq. No.: 00044 | A/S Pos.: 30 | Date: 02/19/94 |
| Se | ID: 7XX-JM3190 SS19 | Seq. No.: 00045 | A/S Pos.: 30 | Date: 02/19/94 |
| Se | ID: 7XX-JM3190 SS19 | Seq. No.: 00046 | A/S Pos.: 30 | Date: 02/19/94 |
| Se | ID: 7XX-JM3191 SS20 | Seq. No.: 00047 | A/S Pos.: 31 | Date: 02/19/94 |

Analytical Report

Date: 02/20/94

Se ID: 7XX-JM3191 SS20 Seq. No.: 00048 A/S Pos.: 31 Date: 02/19/94

Se ID: 7XX-JM3191 SS20 Seq. No.: 00049 A/S Pos.: 31 Date: 02/19/94

Se ID: 7XX-JM3191<sup>92</sup> SS21 Seq. No.: 00050 A/S Pos.: 32 Date: 02/19/94  
~~30~~  
2-20-94

Se ID: 7XX-JM3192 SS21 Seq. No.: 00051 A/S Pos.: 32 Date: 02/19/94

Se ID: CCV-0793 Seq. No.: 00052 A/S Pos.: 38 Date: 02/19/94

Se ID: CCB Seq. No.: 00053 A/S Pos.: 0 Date: 02/19/94

Se ID: CRA-0795 Seq. No.: 00054 A/S Pos.: 36 Date: 02/19/94

Element File: SERLS.GEL

Element: 5-

Print Type: Main+Suppl.

Print: Calib. Curve+Elem. Params.

Analyst: RLS

Peak Storage: All

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 |  | Modifier |    |
|--------------|---------------|------|----------|--------|---------|--|----------|----|
|              |               |      |          |        | Volume  |  | #1       | #2 |
| Calib. Blank | CAL BLANK     |      | 0        | 35     | 15      |  |          | 5  |
| Standard 1   | STD 1 IN-0782 | 4.0  | 40       | 2      | 38      |  |          | 5  |
| Standard 2   | STD 2         | 10.0 | 40       | 5      | 35      |  |          | 5  |
| Standard 3   | STD 3         | 20.0 | 40       | 10     | 30      |  |          | 5  |
| Standard 4   | STD 4         | 30.0 | 40       | 15     | 25      |  |          | 5  |
| Standard 5   | STD 5         | 40.0 | 40       | 20     | 20      |  |          | 5  |
| Standard 6   | STD 6         | 50.0 | 40       | 25     | 15      |  |          | 5  |
| Samples      |               |      |          | 25     | 15      |  |          | 5  |

Diluent Location: 0

Modifier #1 Location: 30

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    | 130  | 10   | 10   | 300      |      | Norm     |
| 3    | 300  | 10   | 30   | 300      |      | Norm     |
| 4    | 20   | 1    | 15   | 300      |      | Norm     |
| 5    | 2300 | 0    | 5    |          | *    | 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: 1-2,5-17,20-25

Add to QC Samples: No

% Recovery Limits: 85 to 115

## QC:

| # | A/S  | QC Sample | Conc. | Limits | After | Periodic | At  | Count As: |
|---|------|-----------|-------|--------|-------|----------|-----|-----------|
| 1 | Loc. | ID        | Lower | Upper  | Calib | Check    | End | Sample    |
| 1 | 37   | ICV-0793  | 35.2  | 48.0   | X     |          |     |           |
| 2 | 0    | ICB/CCB   |       |        | X     | X        | X   |           |
| 3 | 38   | CCV-0793  | 21.1  | 25.8   |       | X        |     | X         |
| 4 | 36   | CRA-0795  | 3.81  | 6.35   | X     |          |     | X         |

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

## Matrix Check Calculations:

% Difference for Dupls: Yes      Locations: 1,2

% Recovery for Spike: Yes      Locations: 3,4      Conc: 20 ug/L



```

-----
Element File: SFRLS.TEI      Element: Se      Wavelength: 136.0
Date: 02/17/94             Time: 10:31     Slit: 0.70 L
Data File: A021794.DAT     ID/Wt File: A021794.IDW  Lamp Current: 0
Technique: HGA              Calib. Type: Linear      Energy: 34
-----

```

```

-----
Se      ID: CAL BLANK          Seq. No.: 00001    A/S Pos.: 0      Date: 02/17/94

```

```

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored)      Time: 10:34
Peak Area (A-s): 0.001         Peak Height (A): 0.013
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L ): -0.6

```

```

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored)      Time: 10:37
Peak Area (A-s): 0.000         Peak Height (A): 0.011
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L ): -0.9

```

```

Mean Conc (ug/L ):          -0.7      SD: 0.21      RSD(%): 29.02

```

Auto-zero performed.

```

-----
Se      ID: STD 1 IN-0782     Seq. No.: 00002    A/S Pos.: 40     Date: 02/17/94

```

```

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 1 (Peak Stored)      Time: 10:41
Peak Area (A-s): 0.022         Peak Height (A): 0.035
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L ): 5.3

```

```

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 2 (Peak Stored)      Time: 10:44
Peak Area (A-s): 0.024         Peak Height (A): 0.039
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L ): 5.7

```

```

Mean Conc (ug/L ):          5.5      SD: 0.32      RSD(%): 5.82

```

```

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000    Slope: 0.0055    Int: 0.000

```

```

-----
Se      ID: STD 2            Seq. No.: 00003    A/S Pos.: 40     Date: 02/17/94

```

```

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored)      Time: 10:48
Peak Area (A-s): 0.046         Peak Height (A): 0.066
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L ): 8.3

```

uL dispensed: 5 from 39, 35 from 0, 5 from 40  
 Replicate 2 (Peak Stored) Time: 10:51  
 Peak Area (A-s): 0.046 Peak Height (A): 0.071  
 Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.020  
 Blank Corrected Pk Area (A-s): 0.045  
 Concentration (ug/L ): 8.3

Mean Conc (ug/L ): 8.3 SD: 0.03 RSD(%): 0.31

Standard number 2 applied. [10.0]  
 Correlation coefficient: 0.99540 Slope: 0.0045 Int: 0.002

-----

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 1 (Peak Stored) Time: 10:55  
 Peak Area (A-s): 0.083 Peak Height (A): 0.119  
 Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.041  
 Blank Corrected Pk Area (A-s): 0.083  
 Concentration (ug/L ): 18.0

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 2 (Peak Stored) Time: 10:58  
 Peak Area (A-s): 0.084 Peak Height (A): 0.119  
 Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.036  
 Blank Corrected Pk Area (A-s): 0.084  
 Concentration (ug/L ): 18.2

Mean Conc (ug/L ): 18.1 SD: 0.18 RSD(%): 0.99

Standard number 3 applied. [10.0]  
 Correlation coefficient: 0.99712 Slope: 0.0041 Int: 0.003

-----

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
 Replicate 1 (Peak Stored) Time: 11:02  
 Peak Area (A-s): 0.127 Peak Height (A): 0.173  
 Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.126  
 Concentration (ug/L ): 30.2

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
 Replicate 2 (Peak Stored) Time: 11:05  
 Peak Area (A-s): 0.124 Peak Height (A): 0.181  
 Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.124  
 Concentration (ug/L ): 29.6

Mean Conc (ug/L ): 29.9 SD: 0.43 RSD(%): 1.45

Standard number 4 applied. [30.0]  
 Correlation coefficient: 0.99890 Slope: 0.0041 Int: 0.003

-----

Se ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
 Replicate 1 (Peak Stored) Time: 11:09  
 Peak Area (A-s): 0.166 Peak Height (A): 0.240  
 Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.165  
 Concentration (ug/L ): 39.8

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
 Replicate 2 (Peak Stored) Time: 11:12  
 Peak Area (A-s): 0.169 Peak Height (A): 0.244  
 Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.057  
 Blank Corrected Pk Area (A-s): 0.169  
 Concentration (ug/L ): 40.7

Mean Conc (ug/L ): 40.3 SD: 0.67 RSD(%): 1.67

Standard number 5 applied. [40.0]  
 Correlation coefficient: 0.99945 Slope: 0.0041 Int: 0.003

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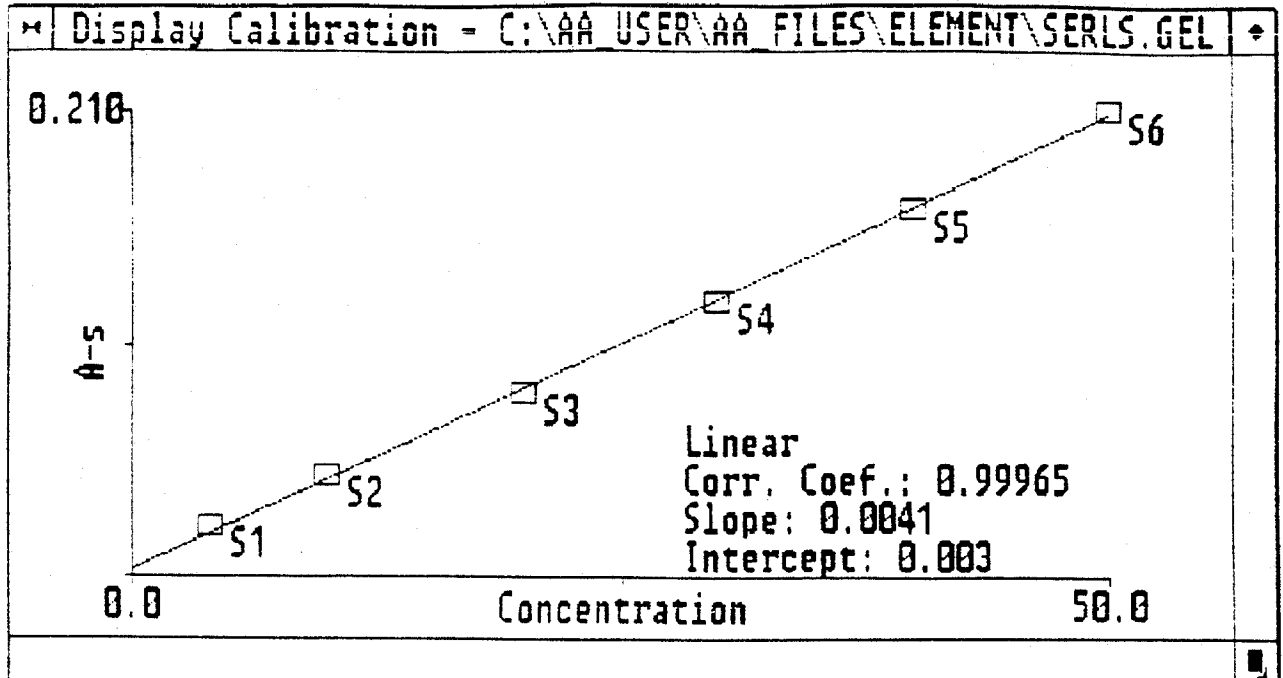
Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 40
 Replicate 1 (Peak Stored) Time: 11:15
 Peak Area (A-s): 0.210 Peak Height (A): 0.279
 Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.065
 Blank Corrected Pk Area (A-s): 0.209
 Concentration (ug/L): 50.4

uL dispensed: 5 from 39, 15 from 0, 25 from 40
 Replicate 2 (Peak Stored) Time: 11:19
 Peak Area (A-s): 0.211 Peak Height (A): 0.290
 Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.071
 Blank Corrected Pk Area (A-s): 0.211
 Concentration (ug/L): 50.8

Mean Conc (ug/L): 50.6 SD: 0.28 RSD(%): 0.56

Standard number 6 applied. [50.0]
 Correlation coefficient: 0.99963 Slope: 0.0041 Int: 0.003



Se ID: IGV-0793 *Autosampler ABORTED* Seq. No.: 00008 A/S Pos.: 37 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37 *SB 2-17-94*

Se ID: IGV-0793 Seq. No.: 00009 A/S Pos.: 37 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37

Replicate 1 (Peak Stored)

Time: 12:03

Peak Area (A-s): 0.156

Peak Height (A): 0.207

Background Pk Area (A-s): 0.103

Background Pk Height (A): 0.055

Blank Corrected Pk Area (A-s): 0.156

Concentration (ug/L): 37.2

uL dispensed: 5 from 39, 15 from 0, 25 from 37

Replicate 2 (Peak Stored)

Time: 12:07

Peak Area (A-s): 0.156

Peak Height (A): 0.214

Background Pk Area (A-s): 0.107

Background Pk Height (A): 0.056

Blank Corrected Pk Area (A-s): 0.156

Concentration (ug/L): 37.2

Mean Conc (ug/L): 37.2

SD: 0.02

RSD(%): 0.06

QC sample is within range 35.2 - 43.0

Se ID: ICB/CCB Seq. No.: 00010 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 1 (Peak Stored)

Time: 12:10

Peak Area (A-s): 0.001

Peak Height (A): 0.012

Background Pk Area (A-s): 0.077

Background Pk Height (A): 0.030

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L): -0.6

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 2 (Peak Stored) Time: 12:13
 Peak Area (A-s): 0.003 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.032
 Blank Corrected Pk Area (A-s): 0.002
 Concentration (ug/L): -0.2

Mean Conc (ug/L): -0.4 SD: 0.30 RSD(%): 77.26

QC sample is within range

Se ID: CRA-0795 Seq. No.: 00011 A/S Pos.: 36 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
 Replicate 1 (Peak Stored) Time: 12:17
 Peak Area (A-s): 0.023 Peak Height (A): 0.043
 Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.034
 Blank Corrected Pk Area (A-s): 0.022
 Concentration (ug/L): 4.8

uL dispensed: 5 from 39, 15 from 0, 25 from 36
 Replicate 2 (Peak Stored) Time: 12:20
 Peak Area (A-s): 0.022 Peak Height (A): 0.040
 Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.031
 Blank Corrected Pk Area (A-s): 0.022
 Concentration (ug/L): 4.7

Mean Conc (ug/L): 4.7 SD: 0.09 RSD(%): 1.95

QC sample is within range 3.81 - 6.35

Se ID: PBL-N7R3773 Seq. No.: 00012 A/S Pos.: 1 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 1
 Replicate 1 (Peak Stored) Time: 12:24
 Peak Area (A-s): 0.003 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.031
 Blank Corrected Pk Area (A-s): 0.003
 Concentration (ug/L): 0.0

uL dispensed: 5 from 39, 15 from 0, 25 from 1
 Replicate 2 (Peak Stored) Time: 12:27
 Peak Area (A-s): 0.001 Peak Height (A): 0.011
 Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.032
 Blank Corrected Pk Area (A-s): 0.001
 Concentration (ug/L): -0.5

Mean Conc (ug/L): -0.2^Q SD: 0.36 RSD(%): 154.72

Se ID: PBL-N7R3773 Seq. No.: 00013 A/S Pos.: 1 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1
 Replicate 1 (Peak Stored) Time: 12:31
 Peak Area (A-s): 0.043 Peak Height (A): 0.074
 Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.030
 Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L): 9.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1

Replicate 2 (Peak Stored)

Time: 12:34

Peak Area (A-s): 0.045

Peak Height (A): 0.071

Background Pk Area (A-s): 0.082

Background Pk Height (A): 0.031

Blank Corrected Pk Area (A-s): 0.044

Concentration (ug/L): 10.1

Mean Conc (ug/L): 9.9

9.9

SD: 0.37

RSD(%): 3.74

Recovery is 100.8%

Se ID: LCSSL-N7R3773

Seq. No.: 00014

A/S Pos.: 2

Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 2

Replicate 1 (Peak Stored)

Time: 12:38

Peak Area (A-s): 0.089

Peak Height (A): 0.133

Background Pk Area (A-s): 0.091

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.088

Concentration (ug/L): 20.7

uL dispensed: 5 from 39, 15 from 0, 25 from 2

Replicate 2 (Peak Stored)

Time: 12:41

Peak Area (A-s): 0.087

Peak Height (A): 0.126

Background Pk Area (A-s): 0.090

Background Pk Height (A): 0.036

Blank Corrected Pk Area (A-s): 0.086

Concentration (ug/L): 20.3

Mean Conc (ug/L): 20.5Q

20.5Q

SD: 0.29

RSD(%): 1.41

~~The difference between locations 1 and 2 = 0002.8 %~~

2-17-94

Se ID: LCSSL-N7R3773

Seq. No.: 00015

A/S Pos.: 2

Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2

Replicate 1 (Peak Stored)

Time: 12:45

Peak Area (A-s): 0.131

Peak Height (A): 0.192

Background Pk Area (A-s): 0.099

Background Pk Height (A): 0.048

Blank Corrected Pk Area (A-s): 0.130

Concentration (ug/L): 31.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2

Replicate 2 (Peak Stored)

Time: 12:48

Peak Area (A-s): 0.133

Peak Height (A): 0.192

Background Pk Area (A-s): 0.097

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.133

Concentration (ug/L): 31.6

Mean Conc (ug/L): 31.3

31.3

SD: 0.45

RSD(%): 1.45

Recovery is 107.6%

Se ID: 7SM-JM3178 MTXS

Seq. No.: 00016

A/S Pos.: 3

Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 1 (Peak Stored)
Peak Area (A-s): 0.071
Background Pk Area (A-s): 0.602
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 16.4

Time: 12:52
Peak Height (A): 0.111
Background Pk Height (A): 0.186

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 2 (Peak Stored)
Peak Area (A-s): 0.068
Background Pk Area (A-s): 0.607
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 15.8

Time: 12:55
Peak Height (A): 0.110
Background Pk Height (A): 0.182

Mean Conc (ug/L): 16.1 Q SD: 0.41 RSD(%): 2.55

Se ID: 7SD-JM3178 MTXR Seq. No.: 00017 A/S Pos.: 4 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 4

Replicate 1 (Peak Stored)
Peak Area (A-s): 0.071
Background Pk Area (A-s): 0.622
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 16.5

Time: 12:59
Peak Height (A): 0.115
Background Pk Height (A): 0.186

uL dispensed: 5 from 39, 15 from 0, 25 from 4

Replicate 2 (Peak Stored)
Peak Area (A-s): 0.071
Background Pk Area (A-s): 0.619
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 16.4

Time: 13:02
Peak Height (A): 0.112
Background Pk Height (A): 0.188

Mean Conc (ug/L): 16.4 Q SD: 0.10 RSD(%): 0.63

~~The measured recovery for locations 2 and 4 = 1.6%~~

SB
2-17-94

Se ID: 7XX-JM3178 SS07 Seq. No.: 00018 A/S Pos.: 5 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 5

Replicate 1 (Peak Stored)
Peak Area (A-s): 0.006
Background Pk Area (A-s): 0.605
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.6

Time: 13:06
Peak Height (A): 0.016
Background Pk Height (A): 0.185

W

uL dispensed: 5 from 39, 15 from 0, 25 from 5

Replicate 2 (Peak Stored)
Peak Area (A-s): 0.006
Background Pk Area (A-s): 0.607
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.6

Time: 13:09
Peak Height (A): 0.018
Background Pk Height (A): 0.186

Mean Conc (ug/L): 0.6 Q SD: 0.00 RSD(%): 0.50

Se ID: 7XX-JM3178 SS07 Seq. No.: 00019 A/S Pos.: 5 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5

Replicate 1 (Peak Stored) Time: 13:13
 Peak Area (A-s): 0.035 Peak Height (A): 0.064
 Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.184
 Blank Corrected Pk Area (A-s): 0.035
 Concentration (ug/L): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5
 Replicate 2 (Peak Stored) Time: 13:16
 Peak Area (A-s): 0.038 Peak Height (A): 0.061
 Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.187
 Blank Corrected Pk Area (A-s): 0.038
 Concentration (ug/L): 8.5

Mean Conc (ug/L): 8.2 SD: 0.51 RSD(%): 6.25

Recovery is 76.1% (outside of specified limits)

Se ID: 7XX-JM3178 DUP Seq. No.: 00020 A/S Pos.: 6 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 6
 Replicate 1 (Peak Stored) Time: 13:20
 Peak Area (A-s): 0.000 Peak Height (A): 0.020
 Background Pk Area (A-s): 0.621 Background Pk Height (A): 0.191
 Blank Corrected Pk Area (A-s): -0.000
 Concentration (ug/L): -0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 6
 Replicate 2 (Peak Stored) Time: 13:23
 Peak Area (A-s): -0.001 Peak Height (A): 0.014
 Background Pk Area (A-s): 0.620 Background Pk Height (A): 0.186
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (ug/L): -1.1

Mean Conc (ug/L): -0.9 Q SD: 0.30 RSD(%): 33.65

Se ID: 7XX-JM3178 DUP Seq. No.: 00021 A/S Pos.: 6 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
 Replicate 1 (Peak Stored) Time: 13:27
 Peak Area (A-s): 0.031 Peak Height (A): 0.056
 Background Pk Area (A-s): 0.631 Background Pk Height (A): 0.188
 Blank Corrected Pk Area (A-s): 0.031
 Concentration (ug/L): 6.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
 Replicate 2 (Peak Stored) Time: 13:30
 Peak Area (A-s): 0.038 Peak Height (A): 0.067
 Background Pk Area (A-s): 0.629 Background Pk Height (A): 0.187
 Blank Corrected Pk Area (A-s): 0.037
 Concentration (ug/L): 8.5

Mean Conc (ug/L): 7.6 SD: 1.19 RSD(%): 15.57

Recovery is 85.3%

W
 Too high
 Automatic
 Run 58
 ↓
 2-17-94

Se ID: FXV-1M3178 DUP Seq. No.: 00022 A/S Pos.: 6 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
Replicate 1 (Peak Stored) Time: 13:34
Peak Area (A-s): 0.034 Peak Height (A): 0.066
Background Pk Area (A-s): 0.638 Background Pk Height (A): 0.191
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 7.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
Replicate 2 (Peak Stored) Time: 13:38
Peak Area (A-s): 0.032 Peak Height (A): 0.059
Background Pk Area (A-s): 0.639 Background Pk Height (A): 0.190
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 7.1

Mean Conc (ug/L): 7.2 SD: 0.22 RSD(%): 3.02

Recovery is 81.1% (outside of specified limits)

Se ID: ICB/CCB Seq. No.: 00023 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 1 (Peak Stored) Time: 13:41
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.4

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 13:44
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.1

Mean Conc (ug/L): -0.8 SD: 0.87 RSD(%): 115.53

QC sample is within range

Se ID: CCV-0793 Seq. No.: 00024 A/S Pos.: 38 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 1 (Peak Stored) Time: 13:48
Peak Area (A-s): 0.092 Peak Height (A): 0.122
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 21.5

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 13:51
Peak Area (A-s): 0.094 Peak Height (A): 0.132
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 22.1

SOLD

SB 2-17-94
Ran out of ORDER
↓
Rerun CCV CCB

Mean Conc (ug/L): 21.8 SD: 3.40 RSD(%): 1.56

QC sample is within range 21.1 - 25.2

Se ID: 7XX-JM3169 DS01 Seq. No.: 00025 A/S Pos.: 7 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7

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Se ID: 7XX-JM3170 01A Seq. No.: 00026 A/S Pos.: 8 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8

Se ID: CCV-0793 Seq. No.: 00027 A/S Pos.: 38 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 1 (Peak Stored) Time: 14:02
Peak Area (A-s): 0.105 Peak Height (A): 0.143
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.104
Concentration (ug/L): 24.7

uL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 2 (Peak Stored) Time: 14:05
Peak Area (A-s): 0.102 Peak Height (A): 0.142
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 24.1

Mean Conc (ug/L): 24.4 SD: 1.6 RSD(%): 1.87

QC sample is within range 21.1 - 25.2

Se ID: CCB Seq. No.: 00028 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 1 (Peak Stored) Time: 14:09
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 2 (Peak Stored) Time: 14:12
Peak Area (A-s): 0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.248
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.6

Mean Conc (ug/L): -0.1 SD: 0.81 RSD(%): 1413.97

QC sample is within range

Se ID: 7XX-JM3170 01A Seq. No.: 00029 A/S Pos.: 8 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8

Replicate 1 (Peak Stored) Time: 14:16

Peak Area (A-s): 0.008 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.189
 Blank Corrected Pk Area (A-s): 0.007
 Concentration (ug/L): 1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 8
 Replicate 2 (Peak Stored) Time: 14:19
 Peak Area (A-s): 0.001 Peak Height (A): 0.015
 Background Pk Area (A-s): 0.626 Background Pk Height (A): 0.188
 Blank Corrected Pk Area (A-s): 0.001
 Concentration (ug/L): -0.5

Mean Conc (ug/L): 0.3 Q SD: 1.07 RSD(%): 356.73

Se ID: 7XX-JM3170 01A Seq. No.: 00030 A/S Pos.: 8 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8
 Replicate 1 (Peak Stored) Time: 14:23
 Peak Area (A-s): 0.039 Peak Height (A): 0.062
 Background Pk Area (A-s): 0.628 Background Pk Height (A): 0.192
 Blank Corrected Pk Area (A-s): 0.039
 Concentration (ug/L): 8.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8
 Replicate 2 (Peak Stored) Time: 14:26
 Peak Area (A-s): 0.038 Peak Height (A): 0.065
 Background Pk Area (A-s): 0.634 Background Pk Height (A): 0.195
 Blank Corrected Pk Area (A-s): 0.037
 Concentration (ug/L): 8.5

Mean Conc (ug/L): 8.6 SD: 0.22 RSD(%): 2.57

Recovery is 83.3% (outside of specified limits)

Se ID: 7XX-JM3171 01B Seq. No.: 00031 A/S Pos.: 9 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9
 Replicate 1 (Peak Stored) Time: 14:30
 Peak Area (A-s): 0.004 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.631 Background Pk Height (A): 0.191
 Blank Corrected Pk Area (A-s): 0.003
 Concentration (ug/L): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 9
 Replicate 2 (Peak Stored) Time: 14:33
 Peak Area (A-s): 0.005 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.636 Background Pk Height (A): 0.195
 Blank Corrected Pk Area (A-s): 0.004
 Concentration (ug/L): 0.4

Mean Conc (ug/L): 0.3 Q SD: 0.19 RSD(%): 71.88

Se ID: 7XX-JM3171 01B Seq. No.: 00032 A/S Pos.: 9 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9
 Replicate 1 (Peak Stored) Time: 14:36

Peak Area (A-s): 0.040 Peak Height (A): 0.070
 Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.193
 Blank Corrected Pk Area (A-s): 0.040
 Concentration (ug/L): 9.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9
 Replicate 2 (Peak Stored) Time: 14:40
 Peak Area (A-s): 0.043 Peak Height (A): 0.072
 Background Pk Area (A-s): 0.638 Background Pk Height (A): 0.189
 Blank Corrected Pk Area (A-s): 0.043
 Concentration (ug/L): 9.8

Mean Conc (ug/L): 9.4 SD: 0.54 RSD(%): 5.75

Recovery is 91.1%

Se ID: 7XX-JM3172 SS01 Seq. No.: 00033 A/S Pos.: 10 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 10
 Replicate 1 (Peak Stored) Time: 14:43
 Peak Area (A-s): 0.003 Peak Height (A): 0.016
 Background Pk Area (A-s): 0.639 Background Pk Height (A): 0.197
 Blank Corrected Pk Area (A-s): 0.002
 Concentration (ug/L): -0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 10
 Replicate 2 (Peak Stored) Time: 14:47
 Peak Area (A-s): 0.005 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.641 Background Pk Height (A): 0.195
 Blank Corrected Pk Area (A-s): 0.005
 Concentration (ug/L): 0.5

Mean Conc (ug/L): 0.2^Q SD: 0.39 RSD(%): 200.46

Se ID: 7XX-JM3172 SS01 Seq. No.: 00034 A/S Pos.: 10 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
 Replicate 1 (Peak Stored) Time: 14:50
 Peak Area (A-s): 0.036 Peak Height (A): 0.066
 Background Pk Area (A-s): 0.639 Background Pk Height (A): 0.194
 Blank Corrected Pk Area (A-s): 0.036
 Concentration (ug/L): 8.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
 Replicate 2 (Peak Stored) Time: 14:54
 Peak Area (A-s): 0.034 Peak Height (A): 0.065
 Background Pk Area (A-s): 0.642 Background Pk Height (A): 0.197
 Blank Corrected Pk Area (A-s): 0.034
 Concentration (ug/L): 7.5

Mean Conc (ug/L): 7.8 SD: 0.33 RSD(%): 4.25

Recovery is 75.8% (outside of specified limits)

Se ID: 7XX-JM3173 SS02 Seq. No.: 00035 A/S Pos.: 11 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11
 Replicate 1 (Peak Stored) Time: 14:57
 Peak Area (A-s): 0.007 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.646 Background Pk Height (A): 0.198
 Blank Corrected Pk Area (A-s): 0.006
 Concentration (ug/L): 1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 11
 Replicate 2 (Peak Stored) Time: 15:00
 Peak Area (A-s): 0.000 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.198
 Blank Corrected Pk Area (A-s): -0.000
 Concentration (ug/L): -0.7

Mean Conc (ug/L): 0.1_Q SD: 1.15 RSD(%): 843.80

 Se ID: 7XX-JM3173 SS02 Seq. No.: 00036 A/S Pos.: 11 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11
 Replicate 1 (Peak Stored) Time: 15:04
 Peak Area (A-s): 0.034 Peak Height (A): 0.066
 Background Pk Area (A-s): 0.643 Background Pk Height (A): 0.193
 Blank Corrected Pk Area (A-s): 0.034
 Concentration (ug/L): 7.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11
 Replicate 2 (Peak Stored) Time: 15:07
 Peak Area (A-s): 0.034 Peak Height (A): 0.060
 Background Pk Area (A-s): 0.647 Background Pk Height (A): 0.197
 Blank Corrected Pk Area (A-s): 0.033
 Concentration (ug/L): 7.4

Mean Conc (ug/L): 7.5 SD: 0.06 RSD(%): 0.84

Recovery is 73.4% (outside of specified limits)

 Se ID: 7XX-JM3174 SS03 Seq. No.: 00037 A/S Pos.: 12 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12
 Replicate 1 (Peak Stored) Time: 15:11
 Peak Area (A-s): -0.003 Peak Height (A): 0.017
 Background Pk Area (A-s): 0.644 Background Pk Height (A): 0.196
 Blank Corrected Pk Area (A-s): -0.004
 Concentration (ug/L): -1.6

uL dispensed: 5 from 39, 15 from 0, 25 from 12
 Replicate 2 (Peak Stored) Time: 15:14
 Peak Area (A-s): -0.000 Peak Height (A): 0.014
 Background Pk Area (A-s): 0.644 Background Pk Height (A): 0.197
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (ug/L): -0.8

Mean Conc (ug/L): -1.2_Q SD: 0.54 RSD(%): 45.50

 Se ID: 7XX-JM3174 SS03 Seq. No.: 00038 A/S Pos.: 12 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12
 Replicate 1 (Peak Stored) Time: 15:17
 Peak Area (A-s): 0.039 Peak Height (A): 0.064
 Background Pk Area (A-s): 0.638 Background Pk Height (A): 0.193
 Blank Corrected Pk Area (A-s): 0.038
 Concentration (ug/L): 8.7

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12
 Replicate 2 (Peak Stored) Time: 15:21
 Peak Area (A-s): 0.038 Peak Height (A): 0.056
 Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.200
 Blank Corrected Pk Area (A-s): 0.037
 Concentration (ug/L): 8.4

Mean Conc (ug/L): 8.5 SD: 0.24 RSD(%): 2.82

Recovery is 97.3%

 Se ID: CCV-0793 Seq. No.: 00039 A/S Pos.: 38 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38
 Replicate 1 (Peak Stored) Time: 15:24
 Peak Area (A-s): 0.094 Peak Height (A): 0.116
 Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.037
 Blank Corrected Pk Area (A-s): 0.093
 Concentration (ug/L): 21.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38
 Replicate 2 (Peak Stored) Time: 15:28
 Peak Area (A-s): 0.102 Peak Height (A): 0.124
 Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.034
 Blank Corrected Pk Area (A-s): 0.101
 Concentration (ug/L): 23.9

Mean Conc (ug/L): 22.9 SD: 1.37 RSD(%): 6.00

QC sample is within range 21.1 - 25.8

 Se ID: CCB Seq. No.: 00040 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 1 (Peak Stored) Time: 15:31
 Peak Area (A-s): 0.008 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.029
 Blank Corrected Pk Area (A-s): 0.007
 Concentration (ug/L): 1.2

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 2 (Peak Stored) Time: 15:34
 Peak Area (A-s): 0.000 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.029
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (ug/L): -0.8

Mean Conc (ug/L): 0.2 SD: 1.37 RSD(%): 690.06

QC sample is within range

Element File: SERLS.GEL
 Element: 5a
 Print Data: Main-Suppl.
 Print: Calib. Curv--Elem. Params.

Analyst: RLS
 Peak Storage: All

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: 8.0 Read Delay: 0.0 BOC Time: 2
 Sample Replicates: 2
 Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier	
						=1	=2
Calib. Blank	CAL BLANK		0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples				25	15	5	

Diluent Location: 0

Modifier =1 Location: 39

Modifier =2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	150	10	10	300		Norm
3	300	10	30	300		Norm
4	20	1	15	300		Norm
5	2000	0	5	0	*	Norm
6	2600	2	5	300		Norm

Injection Temp: 20

Pipette Speed: 100%

SEQUENCE:

Step Action and Parameters

- Pipet modifier 1 + diluent + spike + sample/std
- 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 Setry 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: 1-11,14-19,22-32

Add to QC Samples: No

% Recovery Limits: 85 to 115

QC:

A/S	QC Sample	Conc.	Limits	After Periodic	At	Count As
Loc.	ID	Lower	Upper	Valid	Check	End Sample
1	37 ICV-0793	35.2	43.0	X		
2	0 ICB			X		
3	28 CCV-0793	21.1	25.3		X	X
4	0 CCB				X	X
5	36 CRA-0795	3.81	6.35			X

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

Matrix Check Calculations:

% Difference for Dupls: Yes Locations: 1.2

% Recovery for Spike: Yes Locations: 3.4 Conc: 20 ug/L


```

-----
Element File: SERLS.GEL      Element: Se      Wavelength: 196.0
Date: 02/18/94             Time: 13:12     Slit: 0.70 L
Data File: B021894.DAT     ID/Wt File: B021894.IDW  Lamp Current: 0
Technique: HGA             Calib. Type: Linear     Energy: 53
-----

```

```

Se      ID: CAL BLANK      Seq. No.: 00001      A/S Pos.: 0      Date: 02/18/94

```

```

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored)      Time: 13:15
Peak Area (A-s): 0.010        Peak Height (A): 0.021
Background Pk Area (A-s): 0.101      Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L ): 1.3

```

```

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored)      Time: 13:18
Peak Area (A-s): 0.005        Peak Height (A): 0.017
Background Pk Area (A-s): 0.080      Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L ): 0.1

```

```

Mean Conc (ug/L ):          0.7      SD: 0.34      RSD(%): 113.52

```

Auto-zero performed.

```

-----
Se      ID: STD 1 IN-0782      Seq. No.: 00002      A/S Pos.: 40      Date: 02/18/94

```

```

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 1 (Peak Stored)      Time: 13:22
Peak Area (A-s): 0.031        Peak Height (A): 0.040
Background Pk Area (A-s): 0.067      Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L ): 5.0

```

```

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 2 (Peak Stored)      Time: 13:25
Peak Area (A-s): 0.022        Peak Height (A): 0.039
Background Pk Area (A-s): 0.067      Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L ): 2.9

```

```

Mean Conc (ug/L ):          3.9      SD: 1.48      RSD(%): 37.85

```

```

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000      Slope: 0.0049      Int: 0.000

```

```

-----
Se      ID: STD 2      Seq. No.: 00003      A/S Pos.: 40      Date: 02/18/94

```

```

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored)      Time: 13:29
Peak Area (A-s): 0.048        Peak Height (A): 0.070
Background Pk Area (A-s): 0.069      Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L ): 8.4

```

uL dispensed: 5 from 39, 35 from 0, 5 from 40
 Replicate 2 (Peak Stored) Time: 13:32
 Peak Area (A-s): 0.042 Peak Height (A): 0.065
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.040
 Blank Corrected Pk Area (A-s): 0.035
 Concentration (ug/L): 7.1

Mean Conc (ug/L): 7.7 SD: 0.89 RSD(%): 11.54

Standard number 2 applied. [10.0]
 Correlation coefficient: 0.99108 Slope: 0.0037 Int: 0.002

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40
 Replicate 1 (Peak Stored) Time: 13:35
 Peak Area (A-s): 0.081 Peak Height (A): 0.113
 Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.038
 Blank Corrected Pk Area (A-s): 0.074
 Concentration (ug/L): 19.4

uL dispensed: 5 from 39, 30 from 0, 10 from 40
 Replicate 2 (Peak Stored) Time: 13:39
 Peak Area (A-s): 0.071 Peak Height (A): 0.109
 Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.040
 Blank Corrected Pk Area (A-s): 0.064
 Concentration (ug/L): 16.6

Mean Conc (ug/L): 13.0 SD: 1.97 RSD(%): 10.94

Standard number 3 applied. [20.0]
 Correlation coefficient: 0.99769 Slope: 0.0034 Int: 0.003

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40
 Replicate 1 (Peak Stored) Time: 13:42
 Peak Area (A-s): 0.100 Peak Height (A): 0.150
 Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.047
 Blank Corrected Pk Area (A-s): 0.093
 Concentration (ug/L): 26.7

uL dispensed: 5 from 39, 25 from 0, 15 from 40
 Replicate 2 (Peak Stored) Time: 13:45
 Peak Area (A-s): 0.112 Peak Height (A): 0.155
 Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.045
 Blank Corrected Pk Area (A-s): 0.104
 Concentration (ug/L): 30.2

Mean Conc (ug/L): 28.4 SD: 2.45 RSD(%): 8.63

Standard number 4 applied. [30.0]
 Correlation coefficient: 0.99751 Slope: 0.0032 Int: 0.004

Se ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 20 from 0, 20 from 40
 Replicate 1 (Peak Stored) Time: 13:49
 Peak Area (A-s): 0.139 Peak Height (A): 0.193
 Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.053
 Blank Corrected Pk Area (A-s): 0.131
 Concentration (ug/L): 39.7

uL dispensed: 5 from 39, 20 from 0, 20 from 40
 Replicate 2 (Peak Stored) Time: 13:52
 Peak Area (A-s): 0.133 Peak Height (A): 0.194
 Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.052
 Blank Corrected Pk Area (A-s): 0.126
 Concentration (ug/L): 38.0

Mean Conc (ug/L): 38.8 SD: 1.21 RSD(%): 3.13

Standard number 5 applied. [40.0]
 Correlation coefficient: 0.99847 Slope: 0.0031 Int: 0.005

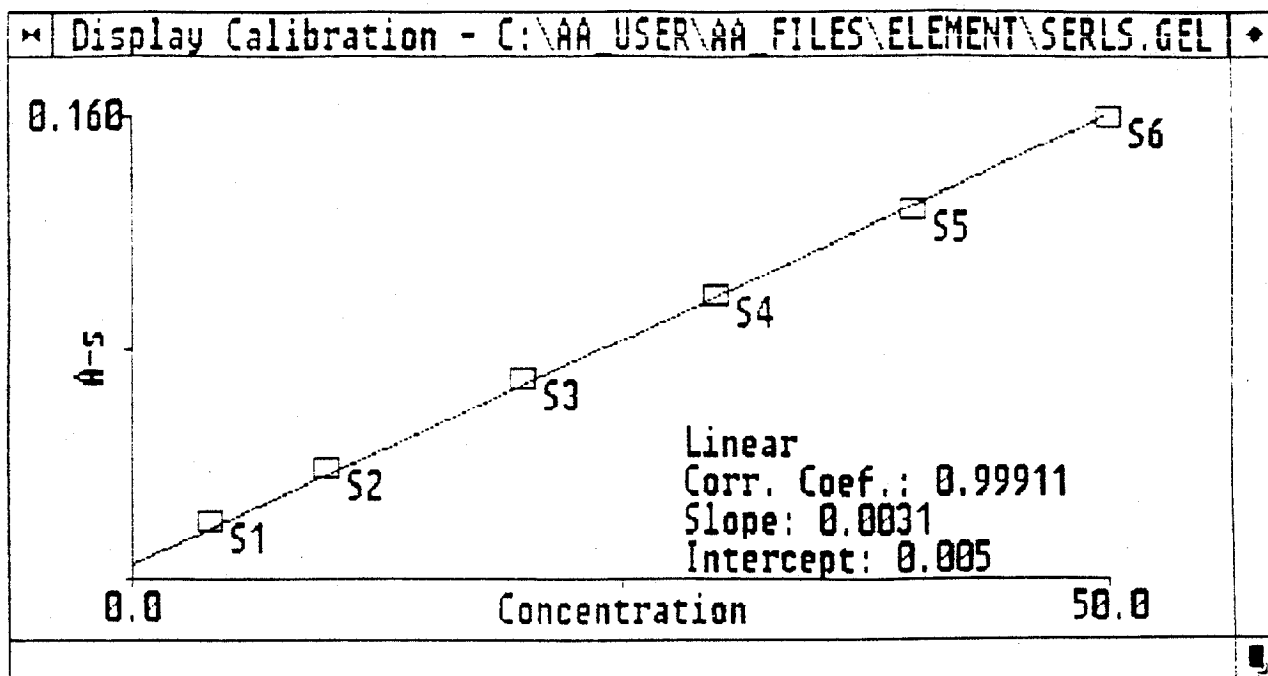
Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 40
 Replicate 1 (Peak Stored) Time: 13:56
 Peak Area (A-s): 0.171 Peak Height (A): 0.241
 Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.064
 Blank Corrected Pk Area (A-s): 0.164
 Concentration (ug/L): 50.7

uL dispensed: 5 from 39, 15 from 0, 25 from 40
 Replicate 2 (Peak Stored) Time: 13:59
 Peak Area (A-s): 0.164 Peak Height (A): 0.223
 Background Pk Area (A-s): 0.628 Background Pk Height (A): 0.165
 Blank Corrected Pk Area (A-s): 0.157
 Concentration (ug/L): 48.6

Mean Conc (ug/L): 49.7 SD: 1.48 RSD(%): 2.98

Standard number 6 applied. [50.0]
 Correlation coefficient: 0.99911 Slope: 0.0031 Int: 0.005



Se ID: ICV-0793 Seq. No.: 00008 A/S Pos.: 37 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37
 Replicate 1 (Peak Stored) Time: 14:13
 Peak Area (A-s): 0.134 Peak Height (A): 0.195
 Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.064
 Blank Corrected Pk Area (A-s): 0.127
 Concentration (ug/L): 39.1

uL dispensed: 5 from 39, 15 from 0, 25 from 37
 Replicate 2 (Peak Stored) Time: 14:21
 Peak Area (A-s): 0.142 Peak Height (A): 0.194
 Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.073
 Blank Corrected Pk Area (A-s): 0.134
 Concentration (ug/L): 41.5

Mean Conc (ug/L): 40.3 SD: 1.67 RSD(%): 4.14

QC sample is within range 35.2 - 43.0

Se ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 1 (Peak Stored) Time: 14:25
 Peak Area (A-s): 0.006 Peak Height (A): 0.017
 Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.031
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (ug/L): -1.9

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 2 (Peak Stored) Time: 14:28
 Peak Area (A-s): 0.003 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.026

Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.9

Mean Conc (ug/L): -2.4 SD: 0.77 RSD(%): 32.20

QC sample is within range

Se ID: CRA-0795 Seq. No.: 00010 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 14:31
Peak Area (A-s): 0.020 Peak Height (A): 0.037
Background Pk Area (A-s): 0.183 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 2.7

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 14:35
Peak Area (A-s): 0.019 Peak Height (A): 0.032
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.8

Mean Conc (ug/L): 2.7 SD: 0.29 RSD(%): 11.74

QC sample is out of range 0.51 - 6.35

Se ID: PBL-N7R3777 Seq. No.: 00011 A/S Pos.: 1 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 1
Replicate 1 (Peak Stored) Time: 14:38
Peak Area (A-s): -0.004 Peak Height (A): 0.017
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): -0.011
Concentration (ug/L): -5.0

Se ID: CRA-0795 Seq. No.: 00012 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 14:44
Peak Area (A-s): 0.025 Peak Height (A): 0.035
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.1

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 14:48
Peak Area (A-s): 0.023 Peak Height (A): 0.034
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 3.5

Mean Conc (ug/L): 3.8 SD: 0.45 RSD(%): 11.98

QC sample is out of range 3.81 - 6.35

SB 2-18-94
Replace CRA w/ fresh

Return

OLD
SB 2-18-94

SB
2-18-94

Se ID: PBL-N7R3777 Seq. No.: 00013 A/S Pos.: 1 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 1
 Replicate 1 (Peak Stored) Time: 14:51
 Peak Area (A-s): -0.001 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.051
 Blank Corrected Pk Area (A-s): -0.008
 Concentration (ug/L): -4.1

uL dispensed: 5 from 39, 15 from 0, 25 from 1
 Replicate 2 (Peak Stored) Time: 14:55
 Peak Area (A-s): -0.002 Peak Height (A): 0.014
 Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.057
 Blank Corrected Pk Area (A-s): -0.009
 Concentration (ug/L): -4.4

Mean Conc (ug/L): -4.2 Q SD: 0.19 RSD(%): 4.45

Se ID: PBL-N7R3777 Seq. No.: 00014 A/S Pos.: 1 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1
 Replicate 1 (Peak Stored) Time: 14:58
 Peak Area (A-s): 0.040 Peak Height (A): 0.065
 Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.053
 Blank Corrected Pk Area (A-s): 0.033
 Concentration (ug/L): 9.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1
 Replicate 2 (Peak Stored) Time: 15:02
 Peak Area (A-s): 0.041 Peak Height (A): 0.062
 Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.051
 Blank Corrected Pk Area (A-s): 0.034
 Concentration (ug/L): 9.3

Mean Conc (ug/L): 9.2 SD: 0.13 RSD(%): 1.45

Recovery is 134.3% (outside of specified limits)

Se ID: LCSSL-N7R3777 Seq. No.: 00015 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 2
 Replicate 1 (Peak Stored) Time: 15:05
 Peak Area (A-s): 0.075 Peak Height (A): 0.111
 Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.054
 Blank Corrected Pk Area (A-s): 0.067
 Concentration (ug/L): 20.0

uL dispensed: 5 from 39, 15 from 0, 25 from 2
 Replicate 2 (Peak Stored) Time: 15:09
 Peak Area (A-s): 0.073 Peak Height (A): 0.105
 Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.055
 Blank Corrected Pk Area (A-s): 0.066
 Concentration (ug/L): 19.5

Mean Conc (ug/L): 19.9 Q SD: 0.41 RSD(%): 2.05

The difference between locations 1 and 2 = 568.14%

SB 2-18-94

Se ID: LCSL-N7R3777 Seq. No.: 00016 A/S Pos.: 2 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2
Replicate 1 (Peak Stored) Time: 15:13
Peak Area (A-s): 0.099 Peak Height (A): 0.144
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 27.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2
Replicate 2 (Peak Stored) Time: 15:16
Peak Area (A-s): 0.106 Peak Height (A): 0.151
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 30.2

Mean Conc (ug/L): 29.1 SD: 1.67 RSD(%): 5.76

Recovery is 93.0%

Se ID: PBL-N7R3791 Seq. No.: 00017 A/S Pos.: 3 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3
Replicate 1 (Peak Stored) Time: 15:20
Peak Area (A-s): 0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.140 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -3.5

uL dispensed: 5 from 39, 15 from 0, 25 from 3
Replicate 2 (Peak Stored) Time: 15:23
Peak Area (A-s): -0.002 Peak Height (A): 0.016
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -4.4

Mean Conc (ug/L): -4.0 SD: 0.57 RSD(%): 14.35

Problem with
Post-spike
Need
to
Rerun
SB
2-18-94

Se ID: PBL-N7R3791 Seq. No.: 00018 A/S Pos.: 3 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3
Replicate 1 (Peak Stored) Time: 15:27
Peak Area (A-s): 0.035 Peak Height (A): 0.056
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 7.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3
Replicate 2 (Peak Stored) Time: 15:30
Peak Area (A-s): 0.039 Peak Height (A): 0.059
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 8.7

SB
2-19-94

0453

high
Need to
SB
2-18-94

Mean Conc (ug/L): 8.1 SD: 0.34

RSD(%): 10.35

Recovery is 120.3% (outside of specified limits)

Se ID: LC SL-N7R3791 Seq. No.: 00019 A/S Pos.: 4 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 4
Replicate 1 (Peak Stored) Time: 15:34
Peak Area (A-s): 0.073 Peak Height (A): 0.104
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 19.5

uL dispensed: 5 from 39, 15 from 0, 25 from 4
Replicate 2 (Peak Stored) Time: 15:37
Peak Area (A-s): 0.073 Peak Height (A): 0.111
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 19.7

Mean Conc (ug/L): 19.6 Q SD: 0.12 RSD(%): 0.61

~~The measured recovery for locations 3 and 4 = 117.2 %~~ SB 2-18-94

Se ID: LC SL-N7R3791 Seq. No.: 00020 A/S Pos.: 4 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 4
Replicate 1 (Peak Stored) Time: 15:41
Peak Area (A-s): 0.102 Peak Height (A): 0.154
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 28.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 4
Replicate 2 (Peak Stored) Time: 15:44
Peak Area (A-s): 0.109 Peak Height (A): 0.154
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 31.1

Mean Conc (ug/L): 30.0 SD: 1.62 RSD(%): 5.40

Recovery is 103.4%

Se ID: TCLP BLK 377³ 2-19-94 Seq. No.: 00021 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 5
Replicate 1 (Peak Stored) Time: 15:48
Peak Area (A-s): 0.009 Peak Height (A): 0.018
Background Pk Area (A-s): 0.456 Background Pk Height (A): 0.165
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 5
Replicate 2 (Peak Stored) Time: 15:51
Peak Area (A-s): 0.010 Peak Height (A): 0.017

Background Pk Area (A-s): 0.498 Background Pk Height (A): 0.180
 Blank Corrected Pk Area (A-s): 0.003
 Concentration (ug/L): -0.7

Mean Conc (ug/L): -0.3^Q SD: 0.23 RSD(%): 26.43

Se ID: TCLP BLK 377³ Seq. No.: 00022 A/S Pos.: 5 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5
 Replicate 1 (Peak Stored) Time: 15:55
 Peak Area (A-s): 0.034 Peak Height (A): 0.048
 Background Pk Area (A-s): 0.507 Background Pk Height (A): 0.187
 Blank Corrected Pk Area (A-s): 0.027
 Concentration (ug/L): 7.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5
 Replicate 2 (Peak Stored) Time: 15:58
 Peak Area (A-s): 0.032 Peak Height (A): 0.047
 Background Pk Area (A-s): 0.492 Background Pk Height (A): 0.174
 Blank Corrected Pk Area (A-s): 0.025
 Concentration (ug/L): 6.5

Mean Conc (ug/L): 6.8 SD: 0.49 RSD(%): 7.14

Recovery is 76.9% (outside of specified limits)

Se ID: CCV-0783 Seq. No.: 00023 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38
 Replicate 1 (Peak Stored) Time: 16:02
 Peak Area (A-s): 0.076 Peak Height (A): 0.100
 Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.049
 Blank Corrected Pk Area (A-s): 0.068
 Concentration (ug/L): 20.3

uL dispensed: 5 from 39, 15 from 0, 25 from 38
 Replicate 2 (Peak Stored) Time: 16:05
 Peak Area (A-s): 0.081 Peak Height (A): 0.106
 Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.040
 Blank Corrected Pk Area (A-s): 0.074
 Concentration (ug/L): 22.0

Mean Conc (ug/L): 21.2 SD: 1.19 RSD(%): 5.60

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
 Replicate 1 (Peak Stored) Time: 16:08
 Peak Area (A-s): 0.006 Peak Height (A): 0.015
 Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.024
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (ug/L): -2.0

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 2 (Peak Stored) Time: 16:11
 Peak Area (A-s): 0.002 Peak Height (A): 0.018
 Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): -0.005
 Concentration (ug/L): -3.1
 Mean Conc (ug/L): -2.6 SE: 0.90 RSD(%): 31.18

QC sample is within range

~~~~~  
 Se ID: TCLP BLK 3791 Seq. No.: 09025 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 1 (Peak Stored) Time: 16:15  
 Peak Area (A-s): 0.007 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.280 Background Pk Height (A): 0.209  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -1.8

uL dispensed: 5 from 39, 15 from 0, 25 from 6  
 Replicate 2 (Peak Stored) Time: 16:18  
 Peak Area (A-s): 0.004 Peak Height (A): 0.010  
 Background Pk Area (A-s): 0.260 Background Pk Height (A): 0.222  
 Blank Corrected Pk Area (A-s): -0.000  
 Concentration (ug/L ): -2.6

Mean Conc (ug/L ): -2.1 Q SE: 0.98 RSD(%): 32.08

~~~~~  
 Se ID: TCLP BLK 3791 Seq. No.: 09026 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 7 from 10, 25 from 6
 Replicate 1 (Peak Stored) Time: 16:22
 Peak Area (A-s): 0.030 Peak Height (A): 0.050
 Background Pk Area (A-s): 0.381 Background Pk Height (A): 0.225
 Blank Corrected Pk Area (A-s): 0.027
 Concentration (ug/L): 3.8

uL dispensed: 5 from 39, 10 from 0, 5 from 10, 25 from 6
 Replicate 2 (Peak Stored) Time: 16:26
 Peak Area (A-s): 0.031 Peak Height (A): 0.046
 Background Pk Area (A-s): 0.687 Background Pk Height (A): 0.226
 Blank Corrected Pk Area (A-s): 0.024
 Concentration (ug/L): 6.0

Mean Conc (ug/L): 5.4 SE: 0.13 RSD(%): 2.35

Recovery is 80.3% (outside of specified limits)

~~~~~  
 Se ID: 7YX-JM3169 DS01 Seq. No.: 09027 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7  
 Replicate 1 (Peak Stored) Time: 16:39  
 Peak Area (A-s): 0.009 Peak Height (A): 0.051  
 Background Pk Area (A-s): 0.724 Background Pk Height (A): 0.615  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): -0.8

uL dispensed: 5 from 39, 15 from 0, 25 from 7  
 Replicate 2 (Peak Stored) Time: 16:42  
 Peak Area (A-s): 0.005 Peak Height (A): 0.021  
 Background Pk Area (A-s): 0.605 Background Pk Height (A): 0.186  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -2.4

W

Mean Conc (ug/L ): -1.6Q SD: 1.09 RSD(%): 67.66

Se ID: 7XX-JM3169 DS01 Seq. No.: 00028 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7  
 Replicate 1 (Peak Stored) Time: 16:46  
 Peak Area (A-s): 0.036 Peak Height (A): 0.049  
 Background Pk Area (A-s): 0.602 Background Pk Height (A): 0.187  
 Blank Corrected Pk Area (A-s): 0.029  
 Concentration (ug/L ): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7  
 Replicate 2 (Peak Stored) Time: 16:49  
 Peak Area (A-s): 0.037 Peak Height (A): 0.056  
 Background Pk Area (A-s): 0.603 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 8.2

Mean Conc (ug/L ): 8.0 SD: 0.24 RSD(%): 3.02

Recovery is 96.1%

Se ID: 7XX-JM3174 SS03 Seq. No.: 00029 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8  
 Replicate 1 (Peak Stored) Time: 16:53  
 Peak Area (A-s): -0.002 Peak Height (A): 0.014  
 Background Pk Area (A-s): 0.753 Background Pk Height (A): 0.232  
 Blank Corrected Pk Area (A-s): -0.009  
 Concentration (ug/L ): -4.4

uL dispensed: 5 from 39, 15 from 0, 25 from 8  
 Replicate 2 (Peak Stored) Time: 16:56  
 Peak Area (A-s): -0.002 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.785 Background Pk Height (A): 0.242  
 Blank Corrected Pk Area (A-s): -0.009  
 Concentration (ug/L ): -4.4

Mean Conc (ug/L ): -4.4 SD: 0.04 RSD(%): 0.96

*was q1on  
2-17-94  
Run  
SB  
2-19-94*

Se ID: 7XX-JM3174 SS03 Seq. No.: 00030 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8  
 Replicate 1 (Peak Stored) Time: 16:59  
 Peak Area (A-s): 0.031 Peak Height (A): 0.054  
 Background Pk Area (A-s): 0.772 Background Pk Height (A): 0.232  
 Blank Corrected Pk Area (A-s): 0.024  
 Concentration (ug/L ): 6.2

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QT am  
2-17-94  
Run

SB  
2-18-94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8  
Replicate 2 (Peak Stored) Time: 17:03  
Peak Area (A-s): 0.034 Peak Height (A): 0.057  
Background Pk Area (A-s): 0.784 Background Pk Height (A): 0.252  
Blank Corrected Pk Area (A-s): 0.026  
Concentration (ug/L ): 6.9

Mean Conc (ug/L ): 6.6 SD: 0.51 RSD(%): 7.76

Recovery is 109.7%

Se ID: 7XX-JM3175 SS04 Seq. No.: 00031 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
Replicate 1 (Peak Stored) Time: 17:06  
Peak Area (A-s): 0.001 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.668 Background Pk Height (A): 0.218  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -3.4

uL dispensed: 5 from 39, 15 from 0, 25 from 9  
Replicate 2 (Peak Stored) Time: 17:10  
Peak Area (A-s): 0.002 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.682 Background Pk Height (A): 0.269  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -3.1

Mean Conc (ug/L ): -3.2 Q SD: 0.19 RSD(%): 5.90

Se ID: 7XX-JM3175 SS04 Seq. No.: 00032 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 1 (Peak Stored) Time: 17:13  
Peak Area (A-s): 0.045 Peak Height (A): 0.071  
Background Pk Area (A-s): 1.063 Background Pk Height (A): 0.972  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 10.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9  
Replicate 2 (Peak Stored) Time: 17:17  
Peak Area (A-s): 0.039 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.700 Background Pk Height (A): 0.304  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 8.7

Mean Conc (ug/L ): 9.6 SD: 1.22 RSD(%): 12.77

Recovery is 128.1% (outside of specified limits)

Se ID: 7XX-JM3176 SS05 Seq. No.: 00033 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 10  
Replicate 1 (Peak Stored) Time: 17:20  
Peak Area (A-s): 0.010 Peak Height (A): 0.027  
Background Pk Area (A-s): 0.773 Background Pk Height (A): 0.323  
Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): -0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 10  
Replicate 2 (Peak Stored) Time: 17:24  
Peak Area (A-s): 0.006 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.778 Background Pk Height (A): 0.340  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.9

W

Mean Conc (ug/L ): -1.2 Q SD: 0.97 RSD(%): 78.98

Se ID: 7XX-JM3176 SS05 Seq. No.: 00034 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
Replicate 1 (Peak Stored) Time: 17:27  
Peak Area (A-s): 0.026 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.859 Background Pk Height (A): 0.396  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 4.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
Replicate 2 (Peak Stored) Time: 17:31  
Peak Area (A-s): 0.031 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.809 Background Pk Height (A): 0.412  
Blank Corrected Pk Area (A-s): 0.024  
Concentration (ug/L ): 6.2

Mean Conc (ug/L ): 5.4 SD: 1.24 RSD(%): 23.12

SB 2-18-94  
Too high  
Rerun  
↓

Recovery is 65.9% (outside of specified limits)

Se ID: 7XX-JM3176 SS05 Seq. No.: 00035 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
Replicate 1 (Peak Stored) Time: 17:34  
Peak Area (A-s): 0.027 Peak Height (A): 0.056  
Background Pk Area (A-s): 0.827 Background Pk Height (A): 0.445  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 4.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10  
Replicate 2 (Peak Stored) Time: 17:38  
Peak Area (A-s): 0.037 Peak Height (A): 0.049  
Background Pk Area (A-s): 0.812 Background Pk Height (A): 0.450  
Blank Corrected Pk Area (A-s): 0.030  
Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 6.5 SD: 2.25 RSD(%): 34.83

Recovery is 76.8% (outside of specified limits)

Se ID: CCV-0793 Seq. No.: 00036 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 1 (Peak Stored) Time: 17:41  
Peak Area (A-s): 0.087 Peak Height (A): 0.096

Background Pk Area (A-s): 0.093  
Blank Corrected Pk Area (A-s): 0.079  
Concentration (ug/L ): 23.9

Background Pk Height (A): 0.035

uL dispensed: 5 from 39, 15 from 0, 25 from 38  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.082  
Background Pk Area (A-s): 0.078  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 22.4

Time: 17:44  
Peak Height (A): 0.097  
Background Pk Height (A): 0.034

Mean Conc (ug/L ): 23.2 SD: 1.02 RSD(%): 4.39

QC sample is within range 21.1 - 25.8

Se ID: CCB Seq. No.: 00037 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.051  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -3.4

Time: 17:48  
Peak Height (A): 0.019  
Background Pk Height (A): 0.025

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.048  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -3.1

Time: 17:51  
Peak Height (A): 0.015  
Background Pk Height (A): 0.022

Mean Conc (ug/L ): -3.2 SD: 0.19 RSD(%): 5.98

QC sample is within range

Se ID: 7XX-JM3177 SS06 Seq. No.: 00038 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.010  
Background Pk Area (A-s): 0.508  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -0.7

Time: 17:54  
Peak Height (A): 0.023  
Background Pk Height (A): 0.230

uL dispensed: 5 from 39, 15 from 0, 25 from 11  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.513  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -3.6

Time: 17:58  
Peak Height (A): 0.019  
Background Pk Height (A): 0.244

Mean Conc (ug/L ): -2.1 SD: 2.07 RSD(%): 97.83

Se ID: 7XX-JM3177 SS06 Seq. No.: 00039 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11

*Re-run after  
new  
calibration*  
↓  
*803*  
*2-19-94*

*BB2-18-94*

Std: STD 1 (W-0780) Seq. No.: 00049 A/S Pos.: 3 Date: 02/18/94

µL dispensed: 5 from 39, 15 from 0, 15 from 0  
 Replicate 1 (Peak Stored) Time: 20:17  
 Peak Area (A-s): -0.002 Peak Height (A): 0.014  
 Background PK Area (A-s): 0.177 Background PK Height (A): 0.252  
 Blank Corrected PK Area (A-s): -0.002  
 Concentration (µg/L ): -0.1

µL dispensed: 5 from 39, 15 from 0, 15 from 0  
 Replicate 2 (Peak Stored) Time: 20:18  
 Peak Area (A-s): -0.000 Peak Height (A): 0.015  
 Background PK Area (A-s): 0.178 Background PK Height (A): 0.033  
 Blank Corrected PK Area (A-s): -0.000  
 Concentration (µg/L ): -0.0

Mean Conc (µg/L ): -1.9 SD: 0.40 RSD(%): 21.12

Standard performed.

Std: STD 1 (W-0780) Seq. No.: 00050 A/S Pos.: 40 Date: 02/18/94

µL dispensed: 5 from 39, 15 from 0, 15 from 40  
 Replicate 1 (Peak Stored) Time: 20:19  
 Peak Area (A-s): 1.117 Peak Height (A): 0.037  
 Background PK Area (A-s): 0.017 Background PK Height (A): 0.038  
 Blank Corrected PK Area (A-s): 0.018  
 Concentration (µg/L ): 4.3

µL dispensed: 5 from 39, 15 from 0, 15 from 40  
 Replicate 2 (Peak Stored) Time: 20:17  
 Peak Area (A-s): 0.014 Peak Height (A): 0.040  
 Background PK Area (A-s): 0.084 Background PK Height (A): 0.038  
 Blank Corrected PK Area (A-s): 0.015  
 Concentration (µg/L ): 0.1

Mean Conc (µg/L ): 3.7 SD: 0.93 RSD(%): 22.22

Standard number: 1 applied, [4.0]  
 Correlation coefficient: 1.00000 Slope: 0.0041 Int: 0.000

Std: STD 2 Seq. No.: 00051 A/S Pos.: 40 Date: 02/18/94

µL dispensed: 5 from 39, 35 from 0, 5 from 40  
 Replicate 1 (Peak Stored) Time: 20:21  
 Peak Area (A-s): 0.028 Peak Height (A): 0.061  
 Background PK Area (A-s): 0.182 Background PK Height (A): 0.266  
 Blank Corrected PK Area (A-s): 0.029  
 Concentration (µg/L ): 7.1

µL dispensed: 5 from 39, 35 from 0, 5 from 40  
 Replicate 2 (Peak Stored) Time: 20:24

Peak Area (A-s): 1.101  
Background Pk Area (A-s): 0.180  
Blank Corrected Pk Area (A-s): 0.927  
Concentration (ug/L): 24.2

Peak Height (A): 0.166  
Background Pk Height (A): 0.058

Mean Conc (ug/L): 24.2 SD: 0.17 RSD(%): 3.85

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.97851 Slope: 0.0028 Int: 0.002

Se 10: STD 3 Seq. No.: 00052 A/S Pos.: 40 Date: 02/18/94

ul dispensed: 5 from 39. 30 from 0. 10 from 40  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.068  
Background Pk Area (A-s): 0.092  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L): 24.2

Time: 20:27  
Peak Height (A): 0.144  
Background Pk Height (A): 0.042

ul dispensed: 5 from 39. 30 from 0. 10 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.068  
Background Pk Area (A-s): 0.134  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L): 23.8

Time: 20:31  
Peak Height (A): 0.103  
Background Pk Height (A): 0.233

Mean Conc (ug/L): 24.0 SD: 0.14 RSD(%): 29.74

SB 2-19-94  
Too high  
Rerun  
↓

Se 10: STD 3 Seq. No.: 00053 A/S Pos.: 40 Date: 02/18/94

ul dispensed: 5 from 39. 30 from 0. 10 from 40  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.067  
Background Pk Area (A-s): 0.090  
Blank Corrected Pk Area (A-s): 0.070  
Concentration (ug/L): 24.2

Time: 20:34  
Peak Height (A): 0.128  
Background Pk Height (A): 0.041

ul dispensed: 5 from 39. 30 from 0. 10 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.067  
Background Pk Area (A-s): 0.093  
Blank Corrected Pk Area (A-s): 0.065  
Concentration (ug/L): 23.9

Time: 20:38  
Peak Height (A): 0.136  
Background Pk Height (A): 0.041

Mean Conc (ug/L): 24.4 SD: 0.67 RSD(%): 2.76

Standard number 3 applied. [20.0]  
Correlation coefficient: 0.99206 Slope: 0.0034 Int: -0.000

Se 10: STD 4 Seq. No.: 00054 A/S Pos.: 40 Date: 02/18/94

ul dispensed: 5 from 39. 25 from 0. 15 from 40  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.106  
Background Pk Area (A-s): 0.098  
Blank Corrected Pk Area (A-s): 0.107

Time: 20:41  
Peak Height (A): 0.200  
Background Pk Height (A): 0.055



Dispensation (ug/L) : 31.8

ul dispensed: 5 from 39, 25 from 0, 25 from 40  
 Replicate 1 (Peak Stored) Time: 20:43  
 Peak Area (A-s): 0.109 Peak Height (A): 0.191  
 Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.064  
 Blank Corrected Pk Area (A-s): 0.110  
 Concentration (ug/L) : 32.8

Mean Conc (ug/L) : 32.3 SD: 0.72 RSD(%): 2.23

Standard number 4 applied. [30.0]  
 Correlation coefficient: 0.99616 Slope: 0.0036 Int: -0.001

Se 10: 373 6 Seq. No.: 00055 A/S Pos.: 40 Date: 02/18/94

ul dispensed: 5 from 39, 20 from 0, 20 from 40  
 Replicate 1 (Peak Stored) Time: 20:48  
 Peak Area (A-s): 0.133 Peak Height (A): 0.251  
 Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.065  
 Blank Corrected Pk Area (A-s): 0.134  
 Concentration (ug/L) : 37.8

ul dispensed: 5 from 39, 20 from 0, 20 from 40  
 Replicate 2 (Peak Stored) Time: 20:52  
 Peak Area (A-s): 0.137 Peak Height (A): 0.263  
 Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.062  
 Blank Corrected Pk Area (A-s): 0.138  
 Concentration (ug/L) : 38.9

Mean Conc (ug/L) : 38.3 SD: 0.74 RSD(%): 1.92

Standard number 5 applied. [40.0]  
 Correlation coefficient: 0.99749 Slope: 0.0035 Int: -0.001

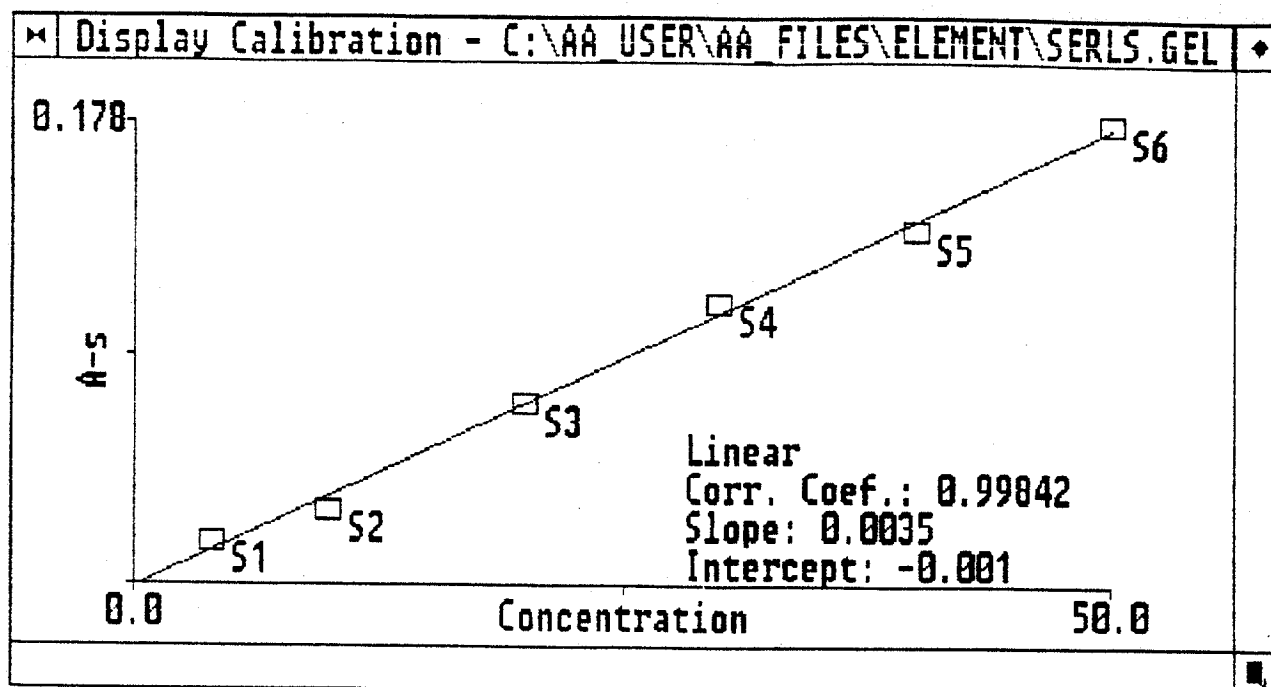
Se 10: 373 6 Seq. No.: 00056 A/S Pos.: 40 Date: 02/18/94

ul dispensed: 5 from 39, 15 from 0, 25 from 40  
 Replicate 1 (Peak Stored) Time: 20:55  
 Peak Area (A-s): 0.173 Peak Height (A): 0.314  
 Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.084  
 Blank Corrected Pk Area (A-s): 0.174  
 Concentration (ug/L) : 50.2

ul dispensed: 5 from 39, 15 from 0, 25 from 40  
 Replicate 2 (Peak Stored) Time: 20:59  
 Peak Area (A-s): 0.180 Peak Height (A): 0.333  
 Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.079  
 Blank Corrected Pk Area (A-s): 0.181  
 Concentration (ug/L) : 52.4

Mean Conc (ug/L) : 51.3 SD: 1.57 RSD(%): 3.05

Standard number 6 applied. [50.0]  
 Correlation coefficient: 0.99842 Slope: 0.0035 Int: -0.001



Se ID: 106733 Seq. No.: 00057 A/S Pos.: 37 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 1 (Peak Stored) Time: 21:05  
 Peak Area (A-s): 0.143 Peak Height (A): 0.255  
 Background PK Area (A-s): 0.106 Background PK Height (A): 0.072  
 Blank Corrected PK Area (A-s): 0.149  
 Concentration (ug/L ): 41.5

UL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 2 (Peak Stored) Time: 21:07  
 Peak Area (A-s): 0.146 Peak Height (A): 0.244  
 Background PK Area (A-s): 0.105 Background PK Height (A): 0.063  
 Blank Corrected PK Area (A-s): 0.146  
 Concentration (ug/L ): 41.8

Mean Conc (ug/L ): 42.0 SD: 0.53 RSD(%): 1.27

QC sample is within range 35.2 - 43.0

Se ID: 108 Seq. No.: 00058 A/S Pos.: 0 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 21:10  
 Peak Area (A-s): 0.009 Peak Height (A): 0.016  
 Background PK Area (A-s): 0.186 Background PK Height (A): 0.302  
 Blank Corrected PK Area (A-s): 0.010  
 Concentration (ug/L ): 3.3

UL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 21:13  
 Peak Area (A-s): -0.000 Peak Height (A): 0.014  
 Background PK Area (A-s): 0.077 Background PK Height (A): 0.034

Blank Corrected PK Area (A-s): 0.001  
Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.3 SD: 0.05 RSD(%): 103.22

QC Sample is within range

Se 10 IFA-0785 Sec. No.: 00059 A/S Pos.: 36 Date: 02/18/94

ul dispensed: 5 from 19, 15 from 0, 25 from 36  
Replicate 1 (Peak Stored) Time: 21:17  
Peak Area (A-s): 0.022 Peak Height (A): 0.041  
Background PK Area (A-s): 0.080 Background PK Height (A): 0.034  
Blank Corrected PK Area (A-s): 0.023  
Concentration (ug/L ): 0.3

ul dispensed: 5 from 19, 15 from 0, 25 from 36  
Replicate 2 (Peak Stored) Time: 21:20  
Peak Area (A-s): 0.023 Peak Height (A): 0.042  
Background PK Area (A-s): 0.077 Background PK Height (A): 0.033  
Blank Corrected PK Area (A-s): 0.024  
Concentration (ug/L ): 0.3

*OK 5B2-19-94*

Mean Conc (ug/L ): 0.3 SD: 0.14 RSD(%): 2.07

QC Sample is out of range 0.8 - 1.35

Se 10 IFA-INT17 3306 Sec. No.: 00060 A/S Pos.: 11 Date: 02/18/94

ul dispensed: 5 from 19, 15 from 0, 25 from 11  
Replicate 1 (Peak Stored) Time: 21:14  
Peak Area (A-s): 0.007 Peak Height (A): 0.021  
Background PK Area (A-s): 0.472 Background PK Height (A): 0.147  
Blank Corrected PK Area (A-s): 0.008  
Concentration (ug/L ): 2.5

ul dispensed: 5 from 19, 15 from 0, 25 from 11  
Replicate 2 (Peak Stored) Time: 21:27  
Peak Area (A-s): 0.001 Peak Height (A): 0.014  
Background PK Area (A-s): 0.477 Background PK Height (A): 0.149  
Blank Corrected PK Area (A-s): 0.002  
Concentration (ug/L ): 1.0

*W*

Mean Conc (ug/L ): 1.7 *Q* SD: 1.07 RSD(%): 62.29

Se 10 IFA-INT17 3306 Sec. No.: 00061 A/S Pos.: 11 Date: 02/18/94

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11  
Replicate 1 (Peak Stored) Time: 21:31  
Peak Area (A-s): 0.023 Peak Height (A): 0.046  
Background PK Area (A-s): 0.492 Background PK Height (A): 0.156  
Blank Corrected PK Area (A-s): 0.024  
Concentration (ug/L ): 7.0

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11  
Replicate 2 (Peak Stored) Time: 21:34

Peak Area (A-s) : 0.111 Peak Height (A) : 0.117  
 Background Pk Area (A-s) : 0.188 Background Pk Height (A) : 0.181  
 Blank Corrected Pk Area (A-s) : 0.027  
 Concentration (ug/L ) : 8.0  
 Mean Conc (ug/L ) : 7.5 SD: 0.71 RSD(%): 9.40

Recovery is 58.0% (outside of specified limits)

Se ID: TSM-JM3183 MTXS Sec. No.: 00063 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 1 (Peak Stored) Time: 21:38  
 Peak Area (A-s) : 0.044 Peak Height (A) : 0.117  
 Background Pk Area (A-s) : 0.173 Background Pk Height (A) : 0.181  
 Blank Corrected Pk Area (A-s) : 0.045  
 Concentration (ug/L ) : 13.0

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 2 (Peak Stored) Time: 21:41  
 Peak Area (A-s) : 0.056 Peak Height (A) : 0.119  
 Background Pk Area (A-s) : 0.176 Background Pk Height (A) : 0.185  
 Blank Corrected Pk Area (A-s) : 0.027  
 Concentration (ug/L ) : 13.0

Mean Conc (ug/L ) : 14.7 SD: 0.34 RSD(%) 15.91

*SB 2-19-94  
 too High  
 Automatic  
 Run*

Se ID: TSM-JM3183 MTXS Sec. No.: 00063 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 1 (Peak Stored) Time: 21:44  
 Peak Area (A-s) : 0.054 Peak Height (A) : 0.118  
 Background Pk Area (A-s) : 0.174 Background Pk Height (A) : 0.183  
 Blank Corrected Pk Area (A-s) : 0.055  
 Concentration (ug/L ) : 13.9

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 2 (Peak Stored) Time: 21:48  
 Peak Area (A-s) : 0.064 Peak Height (A) : 0.118  
 Background Pk Area (A-s) : 0.173 Background Pk Height (A) : 0.181  
 Blank Corrected Pk Area (A-s) : 0.065  
 Concentration (ug/L ) : 18.7

Mean Conc (ug/L ) : 17.3 **Q** SD: 1.38 RSD(%): 11.47

Se ID: TSD-JM3183 MTXR Sec. No.: 00064 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 1 (Peak Stored) Time: 21:51  
 Peak Area (A-s) : 0.061 Peak Height (A) : 0.115  
 Background Pk Area (A-s) : 0.178 Background Pk Height (A) : 0.187  
 Blank Corrected Pk Area (A-s) : 0.062  
 Concentration (ug/L ) : 17.8

uL dispensed: 5 from 39, 15 from 0, 25 from 13  
 Replicate 2 (Peak Stored) Time: 21:54

Peak Area (A-s): 0.017  
 Background Pk Area (A-s): 0.629  
 Blank Corrected Pk Area (A-s): 0.057  
 Concentration (ug/L): 17.1

Peak Height (A): 0.111  
 Background Pk Height (A): 0.181

Mean Conc (ug/L): 17.1 Q SD: 0.84 RSD(%): 4.87

Se ID: 7XX-JM3183 3312 Seq. No.: 00065 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 1 (Peak Stored) Time: 21:58  
 Peak Area (A-s): 0.008 Peak Height (A): 0.024  
 Background Pk Area (A-s): 0.600 Background Pk Height (A): 0.185  
 Blank Corrected Pk Area (A-s): 0.009  
 Concentration (ug/L): 2.9

W

uL dispensed: 5 from 39, 15 from 0, 25 from 14  
 Replicate 2 (Peak Stored) Time: 22:01  
 Peak Area (A-s): 0.003 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.603 Background Pk Height (A): 0.185  
 Blank Corrected Pk Area (A-s): 0.004  
 Concentration (ug/L): 1.5

Mean Conc (ug/L): 2.2 Q SD: 0.98 RSD(%): 43.99

Se ID: 7XX-JM3183 3312 Seq. No.: 00066 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 1 (Peak Stored) Time: 22:05  
 Peak Area (A-s): 0.000 Peak Height (A): 0.063  
 Background Pk Area (A-s): 0.601 Background Pk Height (A): 0.176  
 Blank Corrected Pk Area (A-s): 0.023  
 Concentration (ug/L): 6.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14  
 Replicate 2 (Peak Stored) Time: 22:08  
 Peak Area (A-s): 0.025 Peak Height (A): 0.055  
 Background Pk Area (A-s): 0.602 Background Pk Height (A): 0.176  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L): 7.7

Mean Conc (ug/L): 7.2 SD: 0.67 RSD(%): 9.23

Recovery is 49.8% (outside of specified limits)

Se ID: 7XX-JM3183 OUP Seq. No.: 00067 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
 Replicate 1 (Peak Stored) Time: 22:12  
 Peak Area (A-s): 0.005 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.613 Background Pk Height (A): 0.183  
 Blank Corrected Pk Area (A-s): 0.006  
 Concentration (ug/L): 1.9

uL dispensed: 5 from 39, 15 from 0, 25 from 15  
 Replicate 2 (Peak Stored) Time: 22:15

W

Peak Area (A-s): 3.006 Peak Height (A): 0.023  
 Background Pk Area (A-s): 0.610 Background Pk Height (A): 0.177  
 Blank Corrected Pk Area (A-s): 3.007  
 Concentration (ug/L ): 2.3  
 mean Conc (ug/L ): 2.1 Q SD: 0.27 RSD(%): 12.78

Se ID: 7XY-JM3183 DUP Seq. No.: 00063 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
 Replicate 1 (Peak Stored) Time: 22:18  
 Peak Area (A-s): 0.024 Peak Height (A): 0.053  
 Background Pk Area (A-s): 0.618 Background Pk Height (A): 0.181  
 Blank Corrected Pk Area (A-s): 0.025  
 Concentration (ug/L ): 7.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15  
 Replicate 2 (Peak Stored) Time: 22:22  
 Peak Area (A-s): 0.030 Peak Height (A): 0.057  
 Background Pk Area (A-s): 0.613 Background Pk Height (A): 0.177  
 Blank Corrected Pk Area (A-s): 0.030  
 Concentration (ug/L ): 8.0

mean Conc (ug/L ): 3.2 SD: 1.14 RSD(%): 13.91

Recovery is 60.4% (outside of specified limits)

Se ID: 7XY-JM3179 3008 Seq. No.: 00069 A/S Pos.: 16 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
 Replicate 1 (Peak Stored) Time: 22:25  
 Peak Area (A-s): 0.000 Peak Height (A): 0.018  
 Background Pk Area (A-s): 0.598 Background Pk Height (A): 0.175  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 16  
 Replicate 2 (Peak Stored) Time: 22:29  
 Peak Area (A-s): 0.009 Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.581 Background Pk Height (A): 0.178  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 3.2

mean Conc (ug/L ): 1.9 Q SD: 1.78 RSD(%): 93.02

Se ID: 7XY-JM3179 SS08 Seq. No.: 00070 A/S Pos.: 16 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
 Replicate 1 (Peak Stored) Time: 22:32  
 Peak Area (A-s): 0.028 Peak Height (A): 0.066  
 Background Pk Area (A-s): 0.587 Background Pk Height (A): 0.167  
 Blank Corrected Pk Area (A-s): 0.029  
 Concentration (ug/L ): 8.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16  
 Replicate 2 (Peak Stored) Time: 22:36

Peak Area (A-s): 0.027 Peak Height (A): 0.060  
 Background PK Area (A-s): 0.007 Background PK Height (A): 0.011  
 Blank Corrected PK Area (A-s): 0.020  
 Concentration (ug/L ): 7.2

Mean Conc (ug/L ): 7.3 SD: 0.90 RSD(%): 11.67

Recovery is 59.8% (outside of specified limits)

Se ID: 00V-0793 Seq. No.: 00071 A/S Pos.: 39 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 1 (Peak Stored) Time: 22:39  
 Peak Area (A-s): 0.079 Peak Height (A): 0.109  
 Background PK Area (A-s): 0.096 Background PK Height (A): 0.039  
 Blank Corrected PK Area (A-s): 0.080  
 Concentration (ug/L ): 22.9

UL dispensed: 5 from 39, 15 from 0, 25 from 38  
 Replicate 2 (Peak Stored) Time: 22:43  
 Peak Area (A-s): 0.078 Peak Height (A): 0.122  
 Background PK Area (A-s): 0.103 Background PK Height (A): 0.045  
 Blank Corrected PK Area (A-s): 0.075  
 Concentration (ug/L ): 22.8

Mean Conc (ug/L ): 22.85 SD: 0.01 RSD(%): 1.13

QC sample is within range 21.1 - 25.5

Se ID: 708 Seq. No.: 00072 A/S Pos.: 0 Date: 02/18/94

UL dispensed: 5 from 19, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 22:46  
 Peak Area (A-s): 0.005 Peak Height (A): 0.018  
 Background PK Area (A-s): 0.078 Background PK Height (A): 0.033  
 Blank Corrected PK Area (A-s): 0.006  
 Concentration (ug/L ): 1.9

UL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 2 (Peak Stored) Time: 22:49  
 Peak Area (A-s): 0.003 Peak Height (A): 0.018  
 Background PK Area (A-s): 0.079 Background PK Height (A): 0.038  
 Blank Corrected PK Area (A-s): 0.004  
 Concentration (ug/L ): 1.6

Mean Conc (ug/L ): 1.7 SD: 0.23 RSD(%): 12.94

QC sample is within range

Se ID: 7XX-JM3180 SS09 Seq. No.: 00073 A/S Pos.: 17 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 17  
 Replicate 1 (Peak Stored) Time: 22:53  
 Peak Area (A-s): -0.005 Peak Height (A): 0.016  
 Background PK Area (A-s): 0.651 Background PK Height (A): 0.186  
 Blank Corrected PK Area (A-s): -0.004

W

Concentration (ug/L ): -0.3

ul dispensed: 5 from 39, 15 from 0, 25 from 17  
Replicate 1 (Peak Stored) Time: 22:52  
Peak Area (A-s): -0.002 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.643 Background Pk Height (A): 0.189  
Blank Corrected PK Area (A-s): -0.002  
Concentration (ug/L ): -0.1

Mean Conc (ug/L ): -0.5 Q SD: 0.62 RSD(%): 110.93

Se ID: 7XX-JM3180 SS09 Seq. No.: 00074 A/S Pos.: 17 Date: 02/18/94

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 1 (Peak Stored) Time: 23:00  
Peak Area (A-s): 0.025 Peak Height (A): 0.058  
Background Pk Area (A-s): 0.650 Background Pk Height (A): 0.184  
Blank Corrected PK Area (A-s): 0.026  
Concentration (ug/L ): 7.7

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 17  
Replicate 2 (Peak Stored) Time: 23:03  
Peak Area (A-s): 0.024 Peak Height (A): 0.054  
Background Pk Area (A-s): 0.652 Background Pk Height (A): 0.183  
Blank Corrected PK Area (A-s): 0.025  
Concentration (ug/L ): 7.3

Mean Conc (ug/L ): 7.6 SD: 0.24 RSD(%): 3.21

Recovery is 79.8% (outside of specified limits)

Se ID: 7XX-JM3181 SS10 Seq. No.: 00075 A/S Pos.: 18 Date: 02/18/94

ul dispensed: 5 from 39, 15 from 0, 25 from 18  
Replicate 1 (Peak Stored) Time: 23:07  
Peak Area (A-s): 0.000 Peak Height (A): 0.023  
Background Pk Area (A-s): 0.650 Background Pk Height (A): 0.187  
Blank Corrected PK Area (A-s): 0.001  
Concentration (ug/L ): 0.6

W

ul dispensed: 5 from 39, 15 from 0, 25 from 18  
Replicate 2 (Peak Stored) Time: 23:10  
Peak Area (A-s): 0.002 Peak Height (A): 0.018  
Background Pk Area (A-s): 0.648 Background Pk Height (A): 0.188  
Blank Corrected PK Area (A-s): 0.003  
Concentration (ug/L ): 1.3

Mean Conc (ug/L ): 0.9 Q SD: 0.44 RSD(%): 46.75

Se ID: 7XX-JM3181 SS10 Seq. No.: 00076 A/S Pos.: 18 Date: 02/18/94

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18  
Replicate 1 (Peak Stored) Time: 23:14  
Peak Area (A-s): 0.022 Peak Height (A): 0.053  
Background Pk Area (A-s): 0.653 Background Pk Height (A): 0.186  
Blank Corrected PK Area (A-s): 0.023



Concentration (ug/L ): 9.8

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 1 (Peak Stored) Time: 23:17  
 Peak Area (A-s): 0.032 Peak Height (A): 0.059  
 Background Pk Area (A-s): 0.646 Background Pk Height (A): 0.135  
 Blank Corrected Pk Area (A-s): 0.033  
 Concentration (ug/L ): 9.8

Mean Conc (ug/L ): 9.8 SD: 2.89 RSD(%): 29.29

Recovery is 73.4% (outside of specified limits)

Too high  
 Rerun  
 ↓ SB  
 2-19-9

Se ID: 7XX-JM3181 SS10 Seq. No.: 00077 A/S Pos.: 18 Date: 02/18/94

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 1 (Peak Stored) Time: 23:21  
 Peak Area (A-s): 0.027 Peak Height (A): 0.056  
 Background Pk Area (A-s): 0.652 Background Pk Height (A): 0.187  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 8.1

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 2 (Peak Stored) Time: 23:24  
 Peak Area (A-s): 0.037 Peak Height (A): 0.055  
 Background Pk Area (A-s): 0.658 Background Pk Height (A): 0.187  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 8.1

Mean Conc (ug/L ): 8.2 SD: 0.03 RSD(%): 0.41

Recovery is 73.4% (outside of specified limits)

Se ID: 7XX-JM3182 SS11 Seq. No.: 00078 A/S Pos.: 19 Date: 02/18/94

ul dispensed: 5 from 39, 15 from 0, 25 from 19  
 Replicate 1 (Peak Stored) Time: 23:28  
 Peak Area (A-s): -0.005 Peak Height (A): 0.019  
 Background Pk Area (A-s): 0.663 Background Pk Height (A): 0.189  
 Blank Corrected Pk Area (A-s): -0.004  
 Concentration (ug/L ): -0.6

ul dispensed: 5 from 39, 15 from 0, 25 from 19  
 Replicate 2 (Peak Stored) Time: 23:31  
 Peak Area (A-s): -0.000 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.665 Background Pk Height (A): 0.194  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.5

Mean Conc (ug/L ): -0.2 Q SD: 0.95 RSD(%): 562.08

Se ID: 7XX-JM3182 SS11 Seq. No.: 00079 A/S Pos.: 19 Date: 02/18/94

ul dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
 Replicate 1 (Peak Stored) Time: 23:35  
 Peak Area (A-s): 0.023 Peak Height (A): 0.055

Background PK Area (A-s): 0.666 Background PK Height (A): 0.187  
Blank Corrected PK Area (A-s): 0.024  
Concentration (ug/L ): 7.2

UL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
Replicate 2 (Peak Stored) Time: 23:38  
Peak Area (A-s): 0.031 Peak Height (A): 0.069  
Background PK Area (A-s): 0.663 Background PK Height (A): 0.183  
Blank Corrected PK Area (A-s): 0.032  
Concentration (ug/L ): 9.5

Mean Conc (ug/L ): 8.3 SD: 1.66 RSD(%) 19.95

Recovery is 35.0% (outside of specified limits)

882-18-94  
too high  
Rerun  
↓

Se ID: 7XX-JM3182 8311 Seq. No.: 00080 A/S Pos.: 19 Date: 02/18/94

UL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
Replicate 1 (Peak Stored) Time: 23:42  
Peak Area (A-s): 0.024 Peak Height (A): 0.057  
Background PK Area (A-s): 0.637 Background PK Height (A): 0.185  
Blank Corrected PK Area (A-s): 0.025  
Concentration (ug/L ): 7.4

UL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19  
Replicate 2 (Peak Stored) Time: 23:46  
Peak Area (A-s): 0.018 Peak Height (A): 0.058  
Background PK Area (A-s): 0.648 Background PK Height (A): 0.184  
Blank Corrected PK Area (A-s): 0.019  
Concentration (ug/L ): 8.8

Mean Conc (ug/L ): 8.6 SD: 1.17 RSD(%) 17.77

Recovery is 27.5% (outside of specified limits)

Se ID: 7SH-JM3193 MTXS Seq. No.: 00081 A/S Pos.: 20 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 20  
Replicate 1 (Peak Stored) Time: 23:49  
Peak Area (A-s): 0.048 Peak Height (A): 0.112  
Background PK Area (A-s): 0.652 Background PK Height (A): 0.181  
Blank Corrected PK Area (A-s): 0.049  
Concentration (ug/L ): 14.3

UL dispensed: 5 from 39, 15 from 0, 25 from 20  
Replicate 2 (Peak Stored) Time: 23:53  
Peak Area (A-s): 0.050 Peak Height (A): 0.123  
Background PK Area (A-s): 0.656 Background PK Height (A): 0.184  
Blank Corrected PK Area (A-s): 0.051  
Concentration (ug/L ): 14.8

Mean Conc (ug/L ): 14.5 Q SD: 0.35 RSD(%) 2.43

Se ID: 7SD-JM3193 MTXR Seq. No.: 00082 A/S Pos.: 21 Date: 02/18/94

UL dispensed: 5 from 39, 15 from 0, 25 from 21

Replicate 1 (Peak Stored)  
 Peak Area (A-s): 0.052  
 Background Pk Area (A-s): 0.010  
 Blank Corrected Pk Area (A-s): 0.054  
 Concentration (ug/L ): 15.6

Time: 00:56  
 Peak Height (A): 0.105  
 Background Pk Height (A): 0.184

UL dispensed: 5 from 39, 15 from 0, 05 from 21

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.055  
 Background Pk Area (A-s): 0.653  
 Blank Corrected Pk Area (A-s): 0.056  
 Concentration (ug/L ): 16.1

Time: 00:00  
 Peak Height (A): 0.116  
 Background Pk Height (A): 0.179

Mean Conc (ug/L ): 15.9 Q SD: 0.30 RSD(%): 1.90

Se ID: 00V-0793 Sed. No.: 00083 A/S Pos.: 38 Date: 02/19/94

UL dispensed: 5 from 39, 15 from 0, 25 from 38

Replicate 1 (Peak Stored)  
 Peak Area (A-s): 0.075  
 Background Pk Area (A-s): 0.106  
 Blank Corrected Pk Area (A-s): 0.077  
 Concentration (ug/L ): 12.0

Time: 00:03  
 Peak Height (A): 0.123  
 Background Pk Height (A): 0.040

UL dispensed: 5 from 19, 15 from 0, 25 from 38

Replicate 2 (Peak Stored)  
 Peak Area (A-s): 0.084  
 Background Pk Area (A-s): 0.108  
 Blank Corrected Pk Area (A-s): 0.085  
 Concentration (ug/L ): 14.3

Time: 00:07  
 Peak Height (A): 0.123  
 Background Pk Height (A): 0.041

Mean Conc (ug/L ): 13.2 SD: 1.61 RSD(%): 6.96

QC sample is within range 21.1 - 25.9

Se ID: 008 Sed. No.: 00084 A/S Pos.: 0 Date: 02/19/94

UL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 1 (Peak Stored)  
 Peak Area (A-s): 0.002  
 Background Pk Area (A-s): 0.094  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.1

Time: 00:10  
 Peak Height (A): 0.015  
 Background Pk Height (A): 0.038

UL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 2 (Peak Stored)  
 Peak Area (A-s): -0.000  
 Background Pk Area (A-s): 0.084  
 Blank Corrected Pk Area (A-s): 0.001  
 Concentration (ug/L ): 0.5

Time: 00:13  
 Peak Height (A): 0.017  
 Background Pk Height (A): 0.034

Mean Conc (ug/L ): 0.8 SD: 0.41 RSD(%): 50.81

QC sample is within range

Element File: SERLS.GEL

Element: Se

Analyst: RLS

Print Data: Main+Suppl.

Peak Storage: All

Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100

Technique: HGA

Version: 7.10

Wavelength: 196.0 Peak

Slit: 0.70 Low

Signal Type: Zeeman AA

Signal Measurement: Peak Area

Read Time: 6.0

Read Delay: 0.0

BOC Time: 2

Sample Replicates: 2

Standard Replicates: 2

Spike Replicates: Same as Sample

## CALIBRATION:

| Solutions    | ID            | Conc | Location | Volume | Diluent<br>Volume | Modifier |    |
|--------------|---------------|------|----------|--------|-------------------|----------|----|
|              |               |      |          |        |                   | #1       | #2 |
| Calib. Blank | CAL BLANK     |      | 0        | 35     | 15                | 5        |    |
| Standard 1   | STD 1 IN-0782 | 4.0  | 40       | 2      | 38                | 5        |    |
| Standard 2   | STD 2         | 10.0 | 40       | 5      | 35                | 5        |    |
| Standard 3   | STD 3         | 20.0 | 40       | 10     | 30                | 5        |    |
| Standard 4   | STD 4         | 30.0 | 40       | 15     | 25                | 5        |    |
| Standard 5   | STD 5         | 40.0 | 40       | 20     | 20                | 5        |    |
| Standard 6   | STD 6         | 50.0 | 40       | 25     | 15                | 5        |    |
| Samples      |               |      |          | 25     | 15                | 5        |    |

Diluent Location: 0

Modifier #1 Location: 39

Modifier #2 Location:

Calibration Units: ug/L

Sample Units: ug/L

Calibration Type: Linear

## Furnace Time/Temperature Program:

| Step | Temp | Ramp | Hold | Gas Flow | Read | Gas Type |
|------|------|------|------|----------|------|----------|
| 1    | 110  | 5    | 40   | 300      |      | Norm     |
| 2    | 150  | 10   | 10   | 300      |      | Norm     |
| 3    | 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 &amp; Reanalyze After 1 Rep

Alternate Sample Volumes (uL): 10

Run Alternate Volume Blanks: No

If %RSD &gt; 15.0 and Concentration &gt; 4 then Retry 1 times

Check %RSD on: Samples + Standards + Spikes + QC Samples

## Recovery Measurements:

5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L

Measure Recovery on Samples: 1-11,14-19,22-32

Add to QC Samples: No

% Recovery Limits: 85 to 115

## QC:

| # | A/S | QC Sample<br>ID | Conc. Limits |       | After<br>Calib | Periodic<br>Check | At<br>End | Count As<br>Sample |
|---|-----|-----------------|--------------|-------|----------------|-------------------|-----------|--------------------|
|   |     |                 | Lower        | Upper |                |                   |           |                    |
| 1 | 37  | ICV-0793        | 35.2         | 43.0  | X              |                   |           |                    |
| 2 | 0   | ICB             |              |       | X              |                   |           |                    |
| 3 | 38  | CCV-0793        | 21.1         | 25.8  |                | X                 | X         |                    |
| 4 | 0   | CCB             |              |       |                | X                 | X         |                    |
| 5 | 36  | CRA-0795        | 3.81         | 6.35  | X              |                   |           | X                  |

Run Periodic QC Samples: Every 10

Out of Limit Action: Print Message Only

## Matrix Check Calculations:

% Difference for Dupls: Yes      Locations: 1,2

% Recovery for Spike: Yes      Locations: 3,4      Conc: 20 ug/L

-----  
 Element File: SERLS.GEL      Element: Se      Wavelength: 196.0  
 Date: 02/19/94      Time: 08:24      Slit: 0.70 L  
 Data File: A021994.DAT      ID/Wt File: B021894.IDW      Lamp Current: 0  
 Technique: HGA      Calib. Type: Linear      Energy: 55  
 -----

Se    ID: CAL BLANK      Seq. No.: 00001      A/S Pos.: 0      Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 35 from 0  
 Replicate 1 (Peak Stored)      Time: 08:27  
 Peak Area (A-s): 0.003      Peak Height (A): 0.023  
 Background Pk Area (A-s): 0.071      Background Pk Height (A): 0.032  
 Blank Corrected Pk Area (A-s): 0.002  
 Concentration (ug/L ): 0.7

uL dispensed: 5 from 39, 15 from 0, 35 from 0  
 Replicate 2 (Peak Stored)      Time: 08:30  
 Peak Area (A-s): -0.002      Peak Height (A): 0.013  
 Background Pk Area (A-s): 0.077      Background Pk Height (A): 0.033  
 Blank Corrected Pk Area (A-s): -0.003  
 Concentration (ug/L ): -1.1

Mean Conc (ug/L ):      -0.2      SD: 1.24      RSD(%): 702.93

Auto-zero performed.

-----  
 Se    ID: STD 1 IN-0782      Seq. No.: 00002      A/S Pos.: 40      Date: 02/19/94

uL dispensed: 5 from 39, 38 from 0, 2 from 40  
 Replicate 1 (Peak Stored)      Time: 08:34  
 Peak Area (A-s): 0.010      Peak Height (A): 0.028  
 Background Pk Area (A-s): 0.178      Background Pk Height (A): 0.238  
 Blank Corrected Pk Area (A-s): 0.010  
 Concentration (ug/L ): 3.3

uL dispensed: 5 from 39, 38 from 0, 2 from 40  
 Replicate 2 (Peak Stored)      Time: 08:37  
 Peak Area (A-s): 0.016      Peak Height (A): 0.035  
 Background Pk Area (A-s): 0.183      Background Pk Height (A): 0.250  
 Blank Corrected Pk Area (A-s): 0.015  
 Concentration (ug/L ): 5.2

Mean Conc (ug/L ):      4.3      SD: 1.36      RSD(%): 31.89

Standard number 1 applied. [4.0]  
 Correlation coefficient: 1.00000      Slope: 0.0031      Int: 0.000

-----  
 Se    ID: STD 2      Seq. No.: 00003      A/S Pos.: 40      Date: 02/19/94

uL dispensed: 5 from 39, 35 from 0, 5 from 40  
 Replicate 1 (Peak Stored)      Time: 08:40  
 Peak Area (A-s): 0.026      Peak Height (A): 0.065  
 Background Pk Area (A-s): 0.180      Background Pk Height (A): 0.223  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 8.3

uL dispensed: 5 from 39, 35 from 0, 5 from 40  
Replicate 2 (Peak Stored) Time: 08:44  
Peak Area (A-s): 0.030 Peak Height (A): 0.058  
Background Pk Area (A-s): 0.186 Background Pk Height (A): 0.218  
Blank Corrected Pk Area (A-s): 0.030  
Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 9.0 SD: 0.99 RSD(%): 11.03

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.99874 Slope: 0.0028 Int: 0.000

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
Replicate 1 (Peak Stored) Time: 08:47  
Peak Area (A-s): 0.048 Peak Height (A): 0.104  
Background Pk Area (A-s): 0.198 Background Pk Height (A): 0.241  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 17.1

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
Replicate 2 (Peak Stored) Time: 08:51  
Peak Area (A-s): 0.055 Peak Height (A): 0.103  
Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.226  
Blank Corrected Pk Area (A-s): 0.054  
Concentration (ug/L ): 19.5

Mean Conc (ug/L ): 18.3 SD: 1.76 RSD(%): 9.31

Standard number 3 applied. [20.0]  
Correlation coefficient: 0.99838 Slope: 0.0025 Int: 0.001

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
Replicate 1 (Peak Stored) Time: 08:54  
Peak Area (A-s): 0.065 Peak Height (A): 0.137  
Background Pk Area (A-s): 0.212 Background Pk Height (A): 0.233  
Blank Corrected Pk Area (A-s): 0.064  
Concentration (ug/L ): 25.1

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
Replicate 2 (Peak Stored) Time: 08:58  
Peak Area (A-s): 0.094 Peak Height (A): 0.151  
Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.049  
Blank Corrected Pk Area (A-s): 0.093  
Concentration (ug/L ): 36.6

Mean Conc (ug/L ): 30.8 SD: 8.12 RSD(%): 26.33

Se ID: STD 4 Seq. No.: 00006 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
Replicate 1 (Peak Stored) Time: 09:01  
Peak Area (A-s): 0.097 Peak Height (A): 0.163

*Return at end of Curve*  
SB  
2-19-94

*Automatic Return*  
SB  
2-19-94

Background Pk Area (A-s): 0.099  
Blank Corrected Pk Area (A-s): 0.096  
Concentration (ug/L ): 37.7

Background Pk Height (A): 0.052

uL dispensed: 5 from 39, 25 from 0, 15 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.103  
Background Pk Area (A-s): 0.098  
Blank Corrected Pk Area (A-s): 0.103  
Concentration (ug/L ): 40.3

Time: 09:05  
Peak Height (A): 0.190  
Background Pk Height (A): 0.054

Mean Conc (ug/L ): 39.0 SD: 1.84 RSD(%): 4.71

Standard number 4 applied. [30.0]  
Correlation coefficient: 0.98691 Slope: 0.0032 Int: -0.002

-----  
Se ID: STD 5 Seq. No.: 00007 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.091  
Background Pk Area (A-s): 0.211  
Blank Corrected Pk Area (A-s): 0.090  
Concentration (ug/L ): 29.2

Time: 09:08  
Peak Height (A): 0.177  
Background Pk Height (A): 0.198

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.129  
Background Pk Area (A-s): 0.107  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 41.4

Time: 09:12  
Peak Height (A): 0.247  
Background Pk Height (A): 0.066

Mean Conc (ug/L ): 35.3 SD: 8.62 RSD(%): 24.40

*too high  
clean  
2-19-94*

-----  
Se ID: STD 5 Seq. No.: 00008 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
Replicate 1 (Peak Stored)  
Peak Area (A-s): 0.127  
Background Pk Area (A-s): 0.109  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 40.8

Time: 09:15  
Peak Height (A): 0.261  
Background Pk Height (A): 0.065

uL dispensed: 5 from 39, 20 from 0, 20 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.128  
Background Pk Area (A-s): 0.109  
Blank Corrected Pk Area (A-s): 0.128  
Concentration (ug/L ): 41.2

Time: 09:18  
Peak Height (A): 0.249  
Background Pk Height (A): 0.073

Mean Conc (ug/L ): 41.0 SD: 0.25 RSD(%): 0.60

Standard number 5 applied. [40.0]  
Correlation coefficient: 0.99357 Slope: 0.0032 Int: -0.003



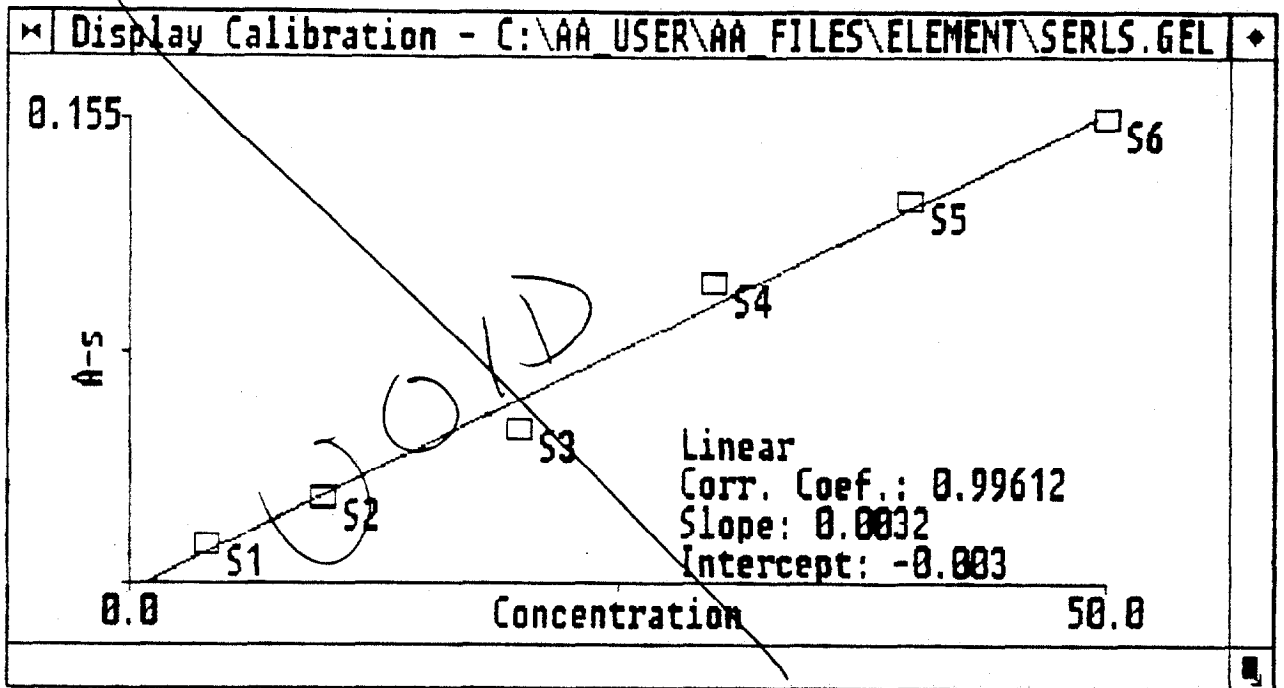
Se ID: STD 6 Seq. No.: 00009 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 40  
 Replicate 1 (Peak Stored) Time: 09:22  
 Peak Area (A-s): 0.153 Peak Height (A): 0.296  
 Background Pk Area (A-s): 0.119 Background Pk Height (A): 0.079  
 Blank Corrected Pk Area (A-s): 0.153  
 Concentration (ug/L ): 48.2

uL dispensed: 5 from 39, 15 from 0, 25 from 40  
 Replicate 2 (Peak Stored) Time: 09:25  
 Peak Area (A-s): 0.158 Peak Height (A): 0.311  
 Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.080  
 Blank Corrected Pk Area (A-s): 0.158  
 Concentration (ug/L ): 49.9

Mean Conc (ug/L ): 49.0 SD: 1.15 RSD(%): 2.35

Standard number 6 applied. [50.0]  
 Correlation coefficient: 0.99612 Slope: 0.0032 Int: -0.003



Se ID: STD 3 Seq. No.: 00010 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 1 (Peak Stored) Time: 09:31  
 Peak Area (A-s): 0.063 Peak Height (A): 0.128  
 Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.047  
 Blank Corrected Pk Area (A-s): 0.062  
 Concentration (ug/L ): 20.3

uL dispensed: 5 from 39, 30 from 0, 10 from 40  
 Replicate 2 (Peak Stored) Time: 09:34  
 Peak Area (A-s): 0.068 Peak Height (A): 0.130

Background Pk Area (A-s): 0.095  
 Blank Corrected Pk Area (A-s): 0.068  
 Concentration (ug/L ): 22.0

Background Pk Height (A): 0.048

Mean Conc (ug/L ): 21.2

SD: 1.21

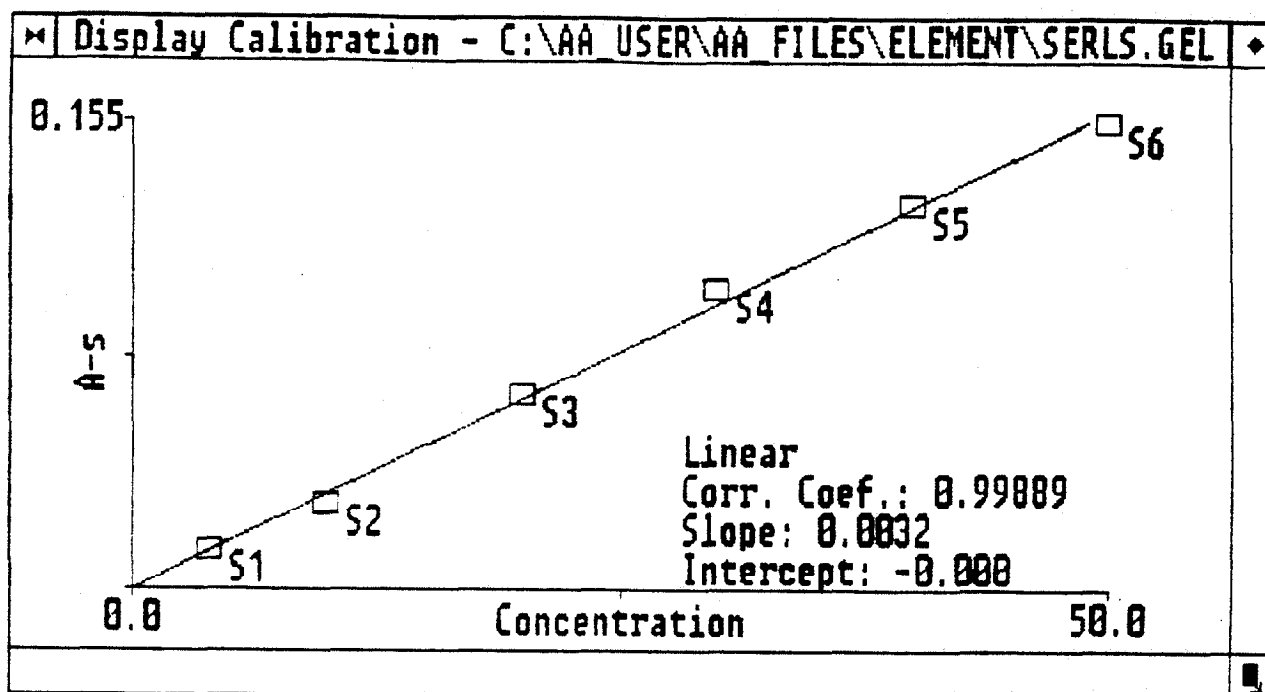
RSD(%): 5.72

Standard number 3 applied. [20.0]

Correlation coefficient: 0.99889

Slope: 0.0032

Int: -0.000



Se ID: ICV-0793 Seq. No.: 00011 A/S Pos.: 37 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 1 (Peak Stored) Time: 09:46  
 Peak Area (A-s): 0.136 Peak Height (A): 0.231  
 Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.071  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 42.9

uL dispensed: 5 from 39, 15 from 0, 25 from 37  
 Replicate 2 (Peak Stored) Time: 09:49  
 Peak Area (A-s): 0.126 Peak Height (A): 0.246  
 Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.070  
 Blank Corrected Pk Area (A-s): 0.125  
 Concentration (ug/L ): 39.6

Mean Conc (ug/L ): 41.3 SD: 2.36 RSD(%): 5.73

QC sample is within range 35.2 - 43.0

Se ID: ICB Seq. No.: 00012 A/S Pos.: 0 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0  
 Replicate 1 (Peak Stored) Time: 09:53

Peak Area (A-s): 0.004  
 Background Pk Area (A-s): 0.078  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.1

Peak Height (A): 0.013  
 Background Pk Height (A): 0.034

uL dispensed: 5 from 39, 15 from 0, 25 from 0

Replicate 2 (Peak Stored)

Time: 09:56

Peak Area (A-s): 0.005

Peak Height (A): 0.014

Background Pk Area (A-s): 0.079

Background Pk Height (A): 0.036

Blank Corrected Pk Area (A-s): 0.004

Concentration (ug/L ): 1.4

Mean Conc (ug/L ): 1.2 SD: 0.21 RSD(%): 16.50

QC sample is within range

Se ID: CRA-0795 Seq. No.: 00013 A/S Pos.: 36 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36

Replicate 1 (Peak Stored)

Time: 09:59

Peak Area (A-s): 0.020

Peak Height (A): 0.036

Background Pk Area (A-s): 0.147

Background Pk Height (A): 0.163

Blank Corrected Pk Area (A-s): 0.019

Concentration (ug/L ): 6.2

uL dispensed: 5 from 39, 15 from 0, 25 from 36

Replicate 2 (Peak Stored)

Time: 10:03

Peak Area (A-s): 0.021

Peak Height (A): 0.037

Background Pk Area (A-s): 0.166

Background Pk Height (A): 0.169

Blank Corrected Pk Area (A-s): 0.021

Concentration (ug/L ): 6.7

Mean Conc (ug/L ): 6.4 SD: 0.37 RSD(%): 5.70

QC sample is out of range 3.81 - 6.35 *SC*

Se ID: PBL-N7R3791<sup>37 SB</sup> Seq. No.: 00014 A/S Pos.: 3 Date: 02/19/94  
<sub>2-20-94</sub>

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 1 (Peak Stored)

Time: 10:06

Peak Area (A-s): 0.001

Peak Height (A): 0.014

Background Pk Area (A-s): 0.083

Background Pk Height (A): 0.038

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 3

Replicate 2 (Peak Stored)

Time: 10:10

Peak Area (A-s): 0.004

Peak Height (A): 0.016

Background Pk Area (A-s): 0.083

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 1.1

Mean Conc (ug/L ): 0.6<sub>Q</sub> SD: 0.68 RSD(%): 116.91

Se ID: PBL-N7R3791<sup>37</sup> Seq. No.: 00015 A/S Pos.: 3 Date: 02/19/94  
<sub>2-20-94</sub>

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3  
 Replicate 1 (Peak Stored) Time: 10:13  
 Peak Area (A-s): 0.035 Peak Height (A): 0.067  
 Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): 0.034  
 Concentration (ug/L ): 10.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3  
 Replicate 2 (Peak Stored) Time: 10:17  
 Peak Area (A-s): 0.035 Peak Height (A): 0.080  
 Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.039  
 Blank Corrected Pk Area (A-s): 0.034  
 Concentration (ug/L ): 10.9

Mean Conc (ug/L ): 10.9 SD: 0.03 RSD(%): 0.28

Recovery is 103.2%

-----  
 Se ID: 7XX-JM3193 SS22 Seq. No.: 00016 A/S Pos.: 22 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 1 (Peak Stored) Time: 10:20  
 Peak Area (A-s): 0.011 Peak Height (A): 0.017  
 Background Pk Area (A-s): 0.471 Background Pk Height (A): 0.144  
 Blank Corrected Pk Area (A-s): 0.011  
 Concentration (ug/L ): 3.4

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 2 (Peak Stored) Time: 10:24  
 Peak Area (A-s): 0.005 Peak Height (A): 0.020  
 Background Pk Area (A-s): 0.473 Background Pk Height (A): 0.142  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 1.6

Mean Conc (ug/L ): 2.5 SD: 1.30 RSD(%): 52.12

*SB*  
*2-19-94*  
*Poor Injection*

-----  
 Se ID: 7XX-JM3193 SS22 Seq. No.: 00017 A/S Pos.: 22 Date: 02/19/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 1 (Peak Stored) Time: 10:28  
 Peak Area (A-s): 0.021 Peak Height (A): 0.050  
 Background Pk Area (A-s): 0.476 Background Pk Height (A): 0.144  
 Blank Corrected Pk Area (A-s): 0.020  
 Concentration (ug/L ): 6.5

*Rerun*  
 ↓

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 2 (Peak Stored) Time: 10:31  
 Peak Area (A-s): 0.028 Peak Height (A): 0.050  
 Background Pk Area (A-s): 0.466 Background Pk Height (A): 0.143  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.7

Mean Conc (ug/L ): 7.6 SD: 1.56 RSD(%): 20.58

Recovery is 50.8% (outside of specified limits)

Se ID: 7XX-JM3193 SS22 Seq. No.: 00018 A/S Pos.: 22 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 1 (Peak Stored) Time: 10:37  
 Peak Area (A-s): 0.005 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.476 Background Pk Height (A): 0.154  
 Blank Corrected Pk Area (A-s): 0.005  
 Concentration (ug/L ): 1.6

uL dispensed: 5 from 39, 15 from 0, 25 from 22  
 Replicate 2 (Peak Stored) Time: 10:40  
 Peak Area (A-s): 0.004 Peak Height (A): 0.016  
 Background Pk Area (A-s): 0.468 Background Pk Height (A): 0.145  
 Blank Corrected Pk Area (A-s): 0.003  
 Concentration (ug/L ): 1.2

Mean Conc (ug/L ): 1.4<sup>Q</sup> SD: 0.32 RSD(%): 22.98

Se ID: 7XX-JM3193 SS22 Seq. No.: 00019 A/S Pos.: 22 Date: 02/19/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 1 (Peak Stored) Time: 10:44  
 Peak Area (A-s): 0.033 Peak Height (A): 0.054  
 Background Pk Area (A-s): 0.467 Background Pk Height (A): 0.142  
 Blank Corrected Pk Area (A-s): 0.032  
 Concentration (ug/L ): 10.2

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 2 (Peak Stored) Time: 10:47  
 Peak Area (A-s): 0.026 Peak Height (A): 0.051  
 Background Pk Area (A-s): 0.473 Background Pk Height (A): 0.143  
 Blank Corrected Pk Area (A-s): 0.026  
 Concentration (ug/L ): 8.3

Mean Conc (ug/L ): 9.2 SD: 1.40 RSD(%) 15.15

Recovery is 78.5% (outside of specified limits)

Se ID: 7XX-JM3193 SS22 Seq. No.: 00020 A/S Pos.: 22 Date: 02/19/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 1 (Peak Stored) Time: 10:51  
 Peak Area (A-s): 0.028 Peak Height (A): 0.055  
 Background Pk Area (A-s): 0.470 Background Pk Height (A): 0.143  
 Blank Corrected Pk Area (A-s): 0.028  
 Concentration (ug/L ): 8.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 22  
 Replicate 2 (Peak Stored) Time: 10:54  
 Peak Area (A-s): 0.027 Peak Height (A): 0.052  
 Background Pk Area (A-s): 0.476 Background Pk Height (A): 0.149  
 Blank Corrected Pk Area (A-s): 0.027  
 Concentration (ug/L ): 8.5

Mean Conc (ug/L ): 8.7 SD: 0.27 RSD(%): 3.06

W

Automatic  
 Return

SB  
 2-19-94

0483  
0005

QC BATCH # N7B3773

Analyst: RJF Date: 2/9/94 Method #: 3020 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> G41050

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> G17802

H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_

KMNO<sub>4</sub> \_\_\_\_\_

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> \_\_\_\_\_

NH<sub>2</sub>OH HCL \_\_\_\_\_

NaCl \_\_\_\_\_

SnCl<sub>2</sub> \_\_\_\_\_

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA 0768 mL S.C

Stock Hg \_\_\_\_\_

TCLP \_\_\_\_\_ mL \_\_\_\_\_

| ASC #       | Job #  | Sample ID       | Vi/Wi | Vf | F | Filtered | Comments                      |
|-------------|--------|-----------------|-------|----|---|----------|-------------------------------|
| MTH BLK     |        |                 | 50    | 50 |   |          |                               |
| MTH SPK     |        |                 |       |    |   |          |                               |
| 1           | UN3169 | 15226N CLJ-0601 |       |    |   |          |                               |
| 2           | 3170   | ↓ 0A            |       |    |   |          |                               |
| 3           | 3171   | ↓ 01B           |       |    |   |          |                               |
| 4           | 3172   | CLJ-05501       |       |    |   |          |                               |
| 5           | 3173   | 02              |       |    |   |          |                               |
| 6           | 3174   | 03              |       |    |   |          |                               |
| 7           | 3175   | 04              |       |    |   |          |                               |
| 8           | 3176   | 05              |       |    |   |          |                               |
| 9           | 3177   | 06              |       |    |   |          |                               |
| 10          | 3178   | ↓ 07            |       |    |   |          |                               |
| 11          | ↓      | ↓               | ↓     | ↓  |   |          | Replicate                     |
| 12          | —      | TCLP B&K        | ↓     | ↓  |   |          |                               |
| 13          |        |                 |       |    |   |          |                               |
| 14          |        |                 |       |    |   |          |                               |
| 15          |        |                 |       |    |   |          |                               |
| 16          |        |                 |       |    |   |          |                               |
| 17          |        |                 |       |    |   |          |                               |
| 18          |        |                 |       |    |   |          |                               |
| 19          |        |                 |       |    |   |          |                               |
| 20          |        |                 |       |    |   |          | Prevent of Inertore<br>2-9-94 |
| MTX SPK     | 15226N | CLJ-05507       | 50    | 50 |   |          |                               |
| JM3178      | ↓      | ↓               | ↓     | ↓  |   |          |                               |
| 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 \_\_\_\_\_

0484  
0006

QC BATCH # N7M3777

Analyst: RJF

Date: 2/9/94 ~~2/8/94~~ RJP Method #: 3020

Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> G41050

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> G7802

H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_

KMNO<sub>4</sub> \_\_\_\_\_

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> \_\_\_\_\_

NH<sub>2</sub>OH HCL \_\_\_\_\_

NaCl \_\_\_\_\_

SnCl<sub>2</sub> \_\_\_\_\_

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA 0768 mL 5.0

Stock Hg \_\_\_\_\_

TCLP \_\_\_\_\_ mL \_\_\_\_\_

| ASC #       | Job #           | Sample ID             | Vi/Wi | Vf | F | Filtered | Comments                       |
|-------------|-----------------|-----------------------|-------|----|---|----------|--------------------------------|
| MTH BLK     |                 |                       | 50    | 50 |   |          |                                |
| MTH SPK     |                 |                       |       |    |   |          |                                |
| 1           | JN3179          | 15226N CLXSS08        |       |    |   |          |                                |
| 2           | 3180            |                       |       |    |   |          |                                |
| 3           | 3181            |                       |       |    |   |          |                                |
| 4           | 3182            |                       |       |    |   |          |                                |
| 5           | 3183            |                       |       |    |   |          |                                |
| 6           | <del>3184</del> |                       |       |    |   |          |                                |
| 7           | <del>3185</del> |                       |       |    |   |          |                                |
| 8           | 3186            |                       |       |    |   |          | NOT ready                      |
| 9           | <del>3187</del> |                       |       |    |   |          |                                |
| 10          | <del>3188</del> |                       |       |    |   |          |                                |
| 11          | <del>3189</del> |                       |       |    |   |          |                                |
| 12          | 3183            |                       | ✓     | ✓  |   |          | replicate                      |
| 13          |                 |                       |       |    |   |          |                                |
| 14          |                 |                       |       |    |   |          |                                |
| 15          |                 |                       |       |    |   |          |                                |
| 16          |                 |                       |       |    |   |          |                                |
| 17          |                 |                       |       |    |   |          |                                |
| 18          |                 |                       |       |    |   |          |                                |
| 19          |                 |                       |       |    |   |          |                                |
| 20          |                 |                       |       |    |   |          |                                |
| MTX SPK     | 15226N          | CLXSS08 <sup>8x</sup> | 50    | 50 |   |          | Theresa J. Jurestone<br>2-9-94 |
| JN3189RJP   |                 |                       | 12    |    |   |          |                                |
| MTX SPK DUP |                 |                       |       |    |   |          |                                |
| JM 3183     |                 |                       |       |    |   |          |                                |

| Hg Standard | mL Stock | Vf | ug/L | ug/kg | Comments                     |
|-------------|----------|----|------|-------|------------------------------|
| #1          |          |    |      |       | See new batch for (str 3773) |
| #2          |          |    |      |       | Top Blank                    |
| #3          |          |    |      |       | samples marked out           |
| #4          |          |    |      |       | were not yet tumbled         |
| #5          |          |    |      |       |                              |

Water Bath Temp.: \_\_\_\_\_

Read and Understood By \_\_\_\_\_

Date \_\_\_\_\_

QC BATCH # N7B3791

Analyst: RJF Date: 2/14/94 Method #: 3020 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> G41050

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> G1780Z

H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_

KMNO<sub>4</sub> \_\_\_\_\_

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> \_\_\_\_\_

NH<sub>2</sub>OH HCL \_\_\_\_\_

NaCl \_\_\_\_\_

SnCl<sub>2</sub> \_\_\_\_\_

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA 0768 mL 5.00

Stock Hg \_\_\_\_\_

TCLP \_\_\_\_\_ mL \_\_\_\_\_

| ASC #       | Job #  | Sample ID | Vi/Wi   | Vf | F | Filtered | Comments                    |
|-------------|--------|-----------|---------|----|---|----------|-----------------------------|
| MTH BLK     |        |           | 50      | 50 |   |          |                             |
| MTH SPK     |        |           |         |    |   |          |                             |
| 1           | JN3184 | 15226N    | CLC5513 |    |   |          |                             |
| 2           | 3185   |           | 14      |    |   |          |                             |
| 3           | 3186   |           | 15      |    |   |          |                             |
| 4           | 3187   |           | 16      |    |   |          |                             |
| 5           | 3188   |           | 17      |    |   |          |                             |
| 6           | 3189   |           | 18      |    |   |          |                             |
| 7           | 3190   |           | 19      |    |   |          |                             |
| 8           | 3191   |           | 20      |    |   |          |                             |
| 9           | 3192   |           | 21      |    |   |          |                             |
| 10          | 3193   |           | 22      |    |   |          | Replicate                   |
| 11          | ↓      | ↓         | ↓       | ↓  |   |          |                             |
| 12          | TCLP   | BLK       | 50      | 50 |   |          |                             |
| 13          |        |           |         |    |   |          |                             |
| 14          |        |           |         |    |   |          |                             |
| 15          |        |           |         |    |   |          |                             |
| 16          |        |           |         |    |   |          |                             |
| 17          |        |           |         |    |   |          |                             |
| 18          |        |           |         |    |   |          |                             |
| 19          |        |           |         |    |   |          |                             |
| 20          |        |           |         |    |   |          | Benney Jurestone<br>2-14-94 |
| MTX SPK     | 15226N | CLC5522   | 50      | 50 |   |          |                             |
| JM3193      |        |           |         |    |   |          |                             |
| 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 \_\_\_\_\_



# HG Daily Run Log -- Leeman PS2000

Page: 016 0486

Date: 2/9/94

Method: 7470

Analyst: SBB

Calibration STD: 0774

Aperture Test: (accept 0 - 100) 7

Correlation: .999868

Slope:  $3.76115 \times 10^{-5}$

Int: 7.19635 x 10<sup>5</sup>

Data File: HG020994

| Run # | Job ID # | Project # | Sample #    | Batch # | Dilutions |
|-------|----------|-----------|-------------|---------|-----------|
| 1     | 3        | STD 1     | 0 ppm Hg    |         |           |
| 2     | 4        | ↓         | ↓           |         |           |
| 3     | 5        | ↓         | ↓           |         |           |
| 4     | 6        | STD 2     | 0.20 ppm Hg |         |           |
| 5     | 7        | ↓         | ↓           |         |           |
| 6     | 8        | ↓         | ↓           |         |           |
| 7     | 9        | STD 3     | 0.50 ppm Hg |         |           |
| 8     | 10       | ↓         | ↓           |         |           |
| 9     | 11       | ↓         | ↓           |         |           |
| 10    | 12       | STD 4     | 2.0 ppm Hg  |         |           |
| 11    | 13       | ↓         | ↓           |         |           |
| 12    | 14       | ↓         | ↓           |         |           |
| 13    | 15       | STD 5     | 5.0 ppm Hg  |         |           |
| 14    | 16       | ↓         | ↓           |         |           |
| 15    | 17       | ↓         | ↓           |         |           |
| 16    | 18       | STD 6     | 10.0 ppm Hg |         |           |
| 17    | 19       | ↓         | ↓           |         |           |
| 18    | 20       | ↓         | ↓           |         |           |
| 19    | 21       | STD 4     | 5.0 ppm Hg  |         |           |
| 20    | 22       | ↓         | ↓           |         |           |
| 21    | 23       | ↓         | ↓           |         |           |
| 22    | 25       | STD 1     | 0 ppm Hg    |         |           |

**COMMENTS/MAINTENANCE:**

First attempted calibration failed (Run 3-23), recalibrated OK

# HG Daily Run Log -- Leeman PS2000

0487  
Page: 017

Date: 2/9/94 cont

Method: 7470

Analyst: SBB

Calibration STD: \_\_\_\_\_

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: HG020994

| Run #                               | Job ID #  | Project #     | Sample # | Batch # | Dilutions |
|-------------------------------------|-----------|---------------|----------|---------|-----------|
| 28                                  | STD 1     | 0 ppm Hg      |          |         |           |
| 287 <sup>SB</sup> <sub>2.9.94</sub> | ↓         | ↓             |          |         |           |
| 29                                  | STD 2     | 0.20 ppm Hg   |          |         |           |
| 29                                  | ↓         | ↓             |          |         |           |
| 2930                                | ↓         | ↓             |          |         |           |
| 30 <sup>SB</sup> <sub>2.9.94</sub>  | STD 3     | 0.50 ppm Hg   |          |         |           |
| 32                                  | ↓         | ↓             |          |         |           |
| 33                                  | ↓         | ↓             |          |         |           |
| 34                                  | STD 4     | 2.0 ppm Hg    |          |         |           |
| 35                                  | ↓         | ↓             |          |         |           |
| 36                                  | ↓         | ↓             |          |         |           |
| 37                                  | STD 5     | 5.0 ppm Hg    |          |         |           |
| 38                                  | ↓         | ↓             |          |         |           |
| 39                                  | ↓         | ↓             |          |         |           |
| 40                                  | STD 6     | 10 ppm Hg     |          |         |           |
| 41                                  | ↓         | ↓             |          |         |           |
| 42                                  | ↓         | ↓             |          |         |           |
| 43                                  | CHK STD 1 | ICB (0 ppm)   | pass     |         |           |
| 44                                  | CHK STD 2 | ICV (5 ppm)   | pass     |         |           |
| 45                                  | CHK STD 3 | LLC (0.2 ppm) | pass     |         |           |
| 46                                  | Q1G3769G  | -             | MET BLK  | Q1G3769 | 1x        |
| 47                                  | Q1G3769G  | -             | MET BLK  | ↓       | 1x        |

COMMENTS/MAINTENANCE:

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# HG Daily Run Log -- Leeman PS2000

Page: 018 0488

Date: 2/9/94 cont.

Method: 7470

Analyst: SBB

Calibration STD: \_\_\_\_\_

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: HG020994

| Run #         | Job ID #                                    | Project #                          | Sample #                    | Batch #              | Dilutions               |
|---------------|---------------------------------------------|------------------------------------|-----------------------------|----------------------|-------------------------|
| 48            | Q1G3769GS                                   | -                                  | MET SPK                     | Q1G3769              | 1x                      |
| 49            | JM3159GS                                    | 15725T                             | 002A <sup>MTX SPK</sup>     | ↓                    | 100x SB<br>1000x 2-9-94 |
| 50            | JM3159GR                                    | ↓                                  | 002A <sup>MTX SPK REP</sup> | ↓                    | 100x                    |
| 51            | JM3159G                                     | ↓                                  | 002A                        | ↓                    | 100x                    |
| 52            | JM <sup>3153G</sup><br>3160G <sup>SB</sup>  | ↓                                  | 008A                        | ↓                    | 100x                    |
| <del>53</del> | <del>JM3153G</del>                          | <del>SB</del><br><del>2-9-94</del> | <del>008A</del>             | <del>↓</del>         | <del>5000x</del>        |
| 53            | Chk Std 1                                   | CCB (0ppm)                         | pass                        |                      |                         |
| 54            | JM3153G                                     | 15725T                             | 008A                        | Q1G3769              | 5000x                   |
| 55            | JM3160G                                     | ↓                                  | 004A                        | ↓                    | 100x                    |
| 56            | Chk Std 1                                   | CCB (0ppm)                         | pass                        |                      |                         |
| 57            | Chk Std 2                                   | CCV (5ppm)                         | pass                        |                      |                         |
| 58            | JM3160G                                     | 15725T                             | 004A                        | Q1G3769              | 5000x                   |
| 59            | Q7G3770G                                    | -                                  | MET BLK                     | Q7G3770              | 1x                      |
| 60            | Q7G3770GS                                   | -                                  | MET SPK                     | ↓                    | 1x                      |
| 61            | JM3197GS                                    | 300553                             | 2 <sup>MTX SPK</sup>        | ↓                    | 1x                      |
| 62            | JM3197GR                                    | ↓                                  | 2 <sup>MTX SPK REP</sup>    | ↓                    | 1x                      |
| 63            | JM3197G                                     | ↓                                  | 2                           | ↓                    | 1x                      |
| 64            | JM <sup>3197GG</sup><br>3196G <sup>SB</sup> | ↓                                  | 2 <sup>DUPLICATE</sup>      | ↓                    | 1x                      |
| <del>65</del> | <del>---</del>                              | <del>TCLP BLK</del>                | <del>2-9-94</del>           | <del>SB 2-9-94</del> | <del>1x</del>           |
| 65            | JM3196G                                     | 300553                             | 1                           | Q7G3770              | 1x                      |
| 66            | ---                                         | TCLP BLK                           | 2-9-94                      | ↓                    | 1x                      |
| 67            | N7G3772G                                    | -                                  | MET BLK                     | N7G3772              | 1x                      |

COMMENTS/MAINTENANCE:

# HG Daily Run Log -- Leeman PS2000

Page: 0489  
019

Date: 2/9/94 cont.

Method: 7470

Analyst: SRB

Calibration STD: \_\_\_\_\_

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: HG020994

| Run # | Job ID #  | Project #   | Sample #                  | Batch # | Dilutions |
|-------|-----------|-------------|---------------------------|---------|-----------|
| 68    | Chk Std 1 | CCB (0 ppm) | pass                      |         |           |
| 69    | Chk Std 2 | CCV (5 ppm) | pass                      |         |           |
| 70    | N7G3772GS | —           | MET SPK                   | N7G3772 | 1x        |
| 71    | Jm3178GS  | 15226N      | MTX SPK<br>CLJ-CSS-07     |         | 1x        |
| 72    | Jm3178GR  |             | MTX SPK REP<br>CLJ-CSS-07 |         | 1x        |
| 73    | Jm3178G   |             | CLJ-CSS-07                |         | 1x        |
| 74    | Jm3178G   |             | CLJ-CSS-07                |         | 10x       |
| 75    | Jm3178GS  |             | MTX SPK<br>CLJ-CSS-07     |         | 10x       |
| 76    | Chk Std 1 | CCB (0 ppm) | pass                      |         |           |
| 77    | Chk Std 2 | CCV (5 ppm) | pass                      |         |           |
| 78    | N7G3775G  | —           | MET BLK                   | N7G3775 | 1x        |
| 79    | N7G3775GS | —           | MET SPK                   | 2-9-94  | 1x        |
| 80    | Jm3183GS  | 15226N      | MTX SPK<br>CLJ-CSS-12     |         | 1x        |
| 81    | Jm3183GR  |             | MTX SPK REP<br>CLJ-CSS-12 |         | 1x        |
| 82    | Jm3183G   |             | CLJ-CSS-12                |         | 1x        |
| 83    | Jm3183GG  |             | DUPLICATE<br>CLJ-CSS-12   |         | 1x        |
| 84    | Jm3179G   |             | CLJ-CSS-08                |         | 1x        |
| 85    | Jm3180G   |             | CLJ-CSS-09                |         | 1x        |
| 86    | Jm3181G   |             | CLJ-CSS-10                |         | 1x        |
| 87    | Jm3182G   |             | CLJ-CSS-11                |         | 1x        |
| 88    | Chk Std 1 | CCB (0 ppm) | pass                      |         |           |
| 89    | Chk Std 2 | CCV (5 ppm) |                           |         |           |

**COMMENTS/MAINTENANCE:**

Sent N7G3772 back for redo (matrix spk does not agree with sample)



# HG Daily Run Log -- Leeman PS2000

Page: 0491  
0021

Date: 2/10/94

Method: 7470

Analyst: SBB

Calibration STD: 0774

Aperture Test: (accept 0 - 100) 20

Correlation: .999539

Slope:  $3.95192 \times 10^{-5}$

Int:  $-5.42231 \times 10^{-2}$

Data File: HG021094

| Run # | Job ID #  | Project #     | Sample # | Batch # | Dilutions |
|-------|-----------|---------------|----------|---------|-----------|
| 1     | STD 1     | 0 ppm Hg      |          |         |           |
| 2     | ↓         | ↓             |          |         |           |
| 3     | ↓         | ↓             |          |         |           |
| 4     | STD 2     | 0.20 ppm Hg   |          |         |           |
| 5     | ↓         | ↓             |          |         |           |
| 6     | ↓         | ↓             |          |         |           |
| 7     | STD 3     | 0.50 ppm Hg   |          |         |           |
| 8     | ↓         | ↓             |          |         |           |
| 9     | ↓         | ↓             |          |         |           |
| 10    | STD 4     | 2.0 ppm Hg    |          |         |           |
| 11    | ↓         | ↓             |          |         |           |
| 12    | ↓         | ↓             |          |         |           |
| 13    | STD 5     | 5.0 ppm Hg    |          |         |           |
| 14    | ↓         | ↓             |          |         |           |
| 15    | ↓         | ↓             |          |         |           |
| 16    | STD 6     | 10.0 ppm Hg   |          |         |           |
| 17    | ↓         | ↓             |          |         |           |
| 18    | ↓         | ↓             |          |         |           |
| 19    | CHK Std 1 | ICB (0 ppm)   | pass     |         |           |
| 20    | CHK Std 2 | TUV (5 ppm)   | pass     |         |           |
| 21    | CHK Std 3 | LLC (0.2 ppm) | pass     |         |           |
| 22    | Q7G3781G  | -             | MET BLK  | Q7G3781 | 1x        |

COMMENTS/MAINTENANCE:

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# HG Daily Run Log -- Leeman PS2000

Date: 2/10/94 cont.

Method: 7470

Analyst: SBB

Calibration STD: \_\_\_\_\_

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: HG021094

| Run # | Job ID #  | Project #                                 | Sample #                                    | Batch #  | Dilutions |
|-------|-----------|-------------------------------------------|---------------------------------------------|----------|-----------|
| 23    | Q7G3781GS | —                                         | MET SPK                                     | Q7G3781  | 1x        |
| 24    | Jm3226GS  | 14344C                                    | 11031 <sup>MTX</sup> SPK                    | ↓        | ↓         |
| 25    | Jm3226GR  | ↓                                         | 11031 <sup>MTX SPK</sup> <sub>B&amp;P</sub> | ↓        | ↓         |
| 26    | Jm3226G   | ↓                                         | 11031                                       | ↓        | ↓         |
| 27    | Jm3226GG  | ↓                                         | 11031 DUPLICATE                             | ↓        | ↓         |
| 28    | Jm3220G   | ↓                                         | 11030                                       | ↓        | ↓         |
| 29    | TCLP BLK  | —                                         | 2-10-94                                     | ↓        | ↓         |
| 30    | N7G3772G  | <sup>SP 2-10-94</sup> <del>N7G3772R</del> | MET BLK                                     | N7G3772R | 1x        |
| 31    | N7G3772GS | —                                         | MET SPK                                     | ↓        | ↓         |
| 32    | Chk Std 1 | CCB (0ppm)                                | pass                                        |          |           |
| 33    | Chk Std 2 | CCV (5ppm)                                | pass                                        |          |           |
| 34    | Jm3178GS  | 15326 N                                   | <sup>MTX SPK</sup> CLS-CSS-07               | N7G3772R | 1x        |
| 35    | Jm3178GR  | ↓                                         | <sup>MTX SPK REP</sup> CLS-CSS-07           | ↓        | ↓         |
| 36    | Jm3178G   | ↓                                         | CLS-CSS-07                                  | ↓        | ↓         |
| 37    | Jm3178GG  | ↓                                         | <sup>DUPLICATE</sup> CLS-CSS-07             | ↓        | ↓         |
| 38    | Jm3169G   | ↓                                         | CLS-DS-01                                   | ↓        | ↓         |
| 39    | Jm3170G   | ↓                                         | CLS-DS-01A                                  | ↓        | ↓         |
| 40    | Jm3171G   | ↓                                         | CLS-DS-01B                                  | ↓        | ↓         |
| 41    | Jm3172G   | ↓                                         | CLS-CSS-01                                  | ↓        | ↓         |
| 42    | Jm3173G   | ↓                                         | CLS-CSS-02                                  | ↓        | ↓         |
| 43    | Jm3174G   | ↓                                         | CLS-CSS-03                                  | ↓        | ↓         |
| 44    | Chk Std 1 | CCB (0ppm)                                | pass                                        |          |           |

COMMENTS/MAINTENANCE:

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# HG Daily Run Log -- Leeman PS2000

0493  
Page: 0024

Date: 2/10/94 cont.

Method: 7470

Analyst: SBB

Calibration STD: 0774

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: HG021094

| Run #                        | Job ID #  | Project #     | Sample #   | Batch #  | Dilutions |
|------------------------------|-----------|---------------|------------|----------|-----------|
| 45                           | Chk Std 2 | CCV (5 ppm)   | pass       |          |           |
| 46                           | Jm 3175G  | 15226N        | CLJ-CSS-04 | N7G3772R | 1x        |
| 47                           | Jm 3176G  | ↓             | CLJ-CSS-05 | ↓        | ↓         |
| 48                           | Jm 3177G  | ↓             | CLJ-CSS-06 | ↓        | ↓         |
| 49                           | TCLP BLK  | -             | 2-9-94     | ↓        | ↓         |
| 50                           | Chk Std 1 | CCB (0 ppm)   | pass       |          |           |
| 51                           | Chk Std 2 | CCV (5 ppm)   | pass       |          |           |
| 52                           | Chk Std 3 | LLC (0.2 ppm) | pass       |          |           |
| <i>Susan Bentley 2-10-94</i> |           |               |            |          |           |

COMMENTS/MAINTENANCE:

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# HG Daily Run Log -- Leeman PS2000

Date: 2/14/94

Method: 7470

Analyst: R0527

Calibration STD: 0774

Aperture Test: (accept 0 - 100)

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: Hg021494

| Run # | Job ID # | Project # | Sample # | Batch # | Dilutions |
|-------|----------|-----------|----------|---------|-----------|
| 1     | STD 1    |           |          |         |           |
| 2     | ↓        |           |          |         |           |
| 3     | ↓        |           |          |         |           |
| 4     | STD 2    |           |          |         |           |
| 5     | ↓        |           |          |         |           |
| 6     | ↓        |           |          |         |           |
| 7     | STD 3    |           |          |         |           |
| 8     | ↓        |           |          |         |           |
| 9     | ↓        |           |          |         |           |
| 10    | STD 4    |           |          |         |           |
| 11    | ↓        |           |          |         |           |
| 12    | ↓        |           |          |         |           |
| 13    | STD 5    |           |          |         |           |
| 14    | ↓        |           |          |         |           |
| 15    | ↓        |           |          |         |           |
| 16    | STD 6    |           |          |         |           |
| 17    | ↓        |           |          |         |           |
| 18    | ↓        |           |          |         |           |
| 19    | CK STD 1 | ICB       | (PASS)   |         |           |
| 20    | CK STD 2 | ICV       | (PASS)   |         |           |
| 21    | CK STD 3 | LLC       | (PASS)   |         |           |
| 22    | N7G3792G | METBLK    |          | N7G3792 | 1         |

COMMENTS/MAINTENANCE:

Cont.

HG Daily Run Log -- Leeman PS2000

Date: 02/14/94

Method: 7770

Analyst: RJF

Calibration STD: 0774

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: \_\_\_\_\_

| Run # | Job ID #          | Project #       | Sample #       | Batch #  | Dilutions |
|-------|-------------------|-----------------|----------------|----------|-----------|
| 23    | N7G379ZGS         | MET SPIKE       |                | N7G379Z  |           |
| 24    | JM3193GS          | MTX SPIKE       | 15226N-CLVCS22 |          |           |
| 25    | ↓ GB              | MTXSPK Dup      | ↓              |          |           |
| 26    | ↓ G               | 15226N-CLVCS 22 |                |          |           |
| 27    | GD                | ↓               | Replicate      |          |           |
| 28    | JM3184G           | ↓               | 13             |          |           |
| 29    | 3185G             | ↓               | 14             |          |           |
| 30    | 3186G             | ↓               | 15             |          |           |
| 31    | 3187G             | ↓               | 16             |          |           |
| 32    | 3188G             | ↓               | 17             |          |           |
| 33    | CKSTD1            | CCD             | (PASS)         |          |           |
| 34    | CKSTD2            | CCV             | (PASS)         |          |           |
| 35    | <del>CKSTD3</del> | LLC             | N/A            |          |           |
| 36    | JM3189G           | 15226N          | CLVCS18        |          |           |
| 37    | 3190G             | ↓               | ↓ 19           |          |           |
| 38    | 3191G             | ↓               | ↓ 20           |          |           |
| 39    | 3192G             | ↓               | ↓ 21           |          |           |
| 40    | TCLP BLK          |                 |                | ↓        |           |
| 41    | Q7G3789G          | MET BLK         |                | Q7G3789G |           |
| 42    | ↓ GS              | MET SPK         |                | ↓        |           |
| 43    | JM3036GS          | MTXSPK          | 15372-1741     |          |           |
| 44    | ↓ GB              | MTXSPK Dup      | ↓              | ↓        |           |

COMMENTS/MAINTENANCE:

Cont.

HG Daily Run Log -- Leeman PS2000

Date: 2/14/94

Method: 7470

Analyst: RJF

Calibration STD: 0774

Aperture Test: (accept 0 - 100) \_\_\_\_\_

Correlation: \_\_\_\_\_

Slope: \_\_\_\_\_

Int: \_\_\_\_\_

Data File: Ng\_021494

| Run #         | Job ID #       | Project #  | Sample #  | Batch # | Dilutions |
|---------------|----------------|------------|-----------|---------|-----------|
| <del>45</del> | JM3036G        | 15372      | 1741      | Q7G379Z |           |
| 46            | CCB            | CK STD1    |           |         |           |
| 47            | CCV            | CK STD2    |           |         |           |
| 48            | <del>LCC</del> | CK STD3    | N/A       |         |           |
| 49            | JM3036         | 15372-1741 | Replicate |         |           |
| 50            | 3039G          | ↓ 1744     |           |         |           |
| 51            | 3045G          | ↓ 1750     |           |         |           |
| 52            | 3046G          | ↓ 1751     |           |         |           |
| 53            | 3231G          | 15699G-    | LS-001    |         |           |
| 54            | 3232G          | ↓          | LW-002    |         |           |
| 55            | TCLP           | Blank      |           |         |           |
| 56            | CCB            | CK STD 1   | PASS      |         |           |
| 57            | CCV            | ↓ 2        | PASS      |         |           |
| 58            | LCC            | ↓ 3        | See serum |         |           |
| 59            | ↓              | CK STD3    | PASS      |         |           |
| 60            | /              |            |           |         |           |
| 61            | /              |            |           |         |           |
| 62            | /              |            |           |         |           |
| 63            | /              |            |           |         |           |
| 64            | /              |            |           |         |           |
| 65            | /              |            |           |         |           |
| 66            | /              |            |           |         |           |

*Renee J. Freestone*  
2-14-94

COMMENTS/MAINTENANCE:

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

Protocol: ASCHG

Rev: 2.008 Time: 09:36:57 09 Feb 1994

Folder: HG020994

Seq: 2

Print: On

User:

Batch:

Id:

Cup:

Gas: 0.30 LPM

State: Idle

Xmit: Off Autosampler: On

| AUTOSAMPLER: | Rack entry  | Rack FRED | Range 1 -44 | Clear seQ   | Undo eXit |
|--------------|-------------|-----------|-------------|-------------|-----------|
| cup Id       | Extended id | Weight    | Volume      | Macro check | Help      |
| 1 Q1G3769G   | MET BLK     | 1.0000    | 1.0000      |             |           |
| 2 Q1G3769GS  | MET SPK     | 1.0000    | 1.0000      |             |           |
| 3 JM3159GS   | MTX SPK     | 1.0000    | 1.0000      |             |           |
| 4 JM3159GR   | MTX SPK REP | 1.0000    | 1.0000      |             |           |
| 5 JM3159G    | 002A        | 1.0000    | 1.0000      |             |           |
| 6 JM3153G    | 008A        | 1.0000    | 1.0000      |             |           |
| 7 JM3160G    | 004A        | 1.0000    | 1.0000      |             |           |
| 8 Q7G3770G   | MET BLK     | 1.0000    | 1.0000      |             |           |
| 9 Q7G3770GS  | MET SPK     | 1.0000    | 1.0000      |             |           |
| 10 JM3197GS  | MTX SPK     | 1.0000    | 1.0000      |             |           |
| 11 JM3197GR  | MTX SPK REP | 1.0000    | 1.0000      |             |           |
| 12 JM3197G   | 2           | 1.0000    | 1.0000      |             |           |
| 13 JM3197GG  | DUPLICATE   | 1.0000    | 1.0000      |             |           |
| 14 JM3196G   | 1           | 1.0000    | 1.0000      |             |           |
| 15 TCLP BLK  | 2-9-94      | 1.0000    | 1.0000      |             |           |

PgDn

Column entry, Ins to switch

Protocol: ASCHG

Rev: 2.008 Time: 09:38:35 09 Feb 1994

Folder: HG020994

Seq: 2

Print: On

User:

Batch:

Id:

Cup:

Gas:

0.30 LPM

State: Idle

Xmit: Off Autosampler: On

| AUTOSAMPLER: | Rack entry  | Rack FRED   | Range 1 | -44    | Clear seQ | Undo eXit | PgUp |
|--------------|-------------|-------------|---------|--------|-----------|-----------|------|
| cup Id       | Extended id | Weight      | Volume  | Macro  | check     | Help      |      |
| 16           | N7G3772G    | MET BLK     | 1.0000  | 1.0000 |           |           |      |
| 17           | N7G3772GS   | MET SPK     | 1.0000  | 1.0000 |           |           |      |
| 18           | JM3178GS    | MTX SPK     | 1.0000  | 1.0000 |           |           |      |
| 19           | JM3178GR    | MTX SPK REP | 1.0000  | 1.0000 |           |           |      |
| 20           | JM3178G     | CLJ-CSS-07  | 1.0000  | 1.0000 |           |           |      |
| 21           | JM3178GG    | DUPLICATE   | 1.0000  | 1.0000 |           |           |      |
| 22           | JM3169G     | CLJ-DS-01   | 1.0000  | 1.0000 |           |           |      |
| 23           | JM3170G     | CLJ-DS-01A  | 1.0000  | 1.0000 |           |           |      |
| 24           | JM3171G     | CLJ-DS-01B  | 1.0000  | 1.0000 |           |           |      |
| 25           | JM3172G     | CLJ-CSS-01  | 1.0000  | 1.0000 |           |           |      |
| 26           | JM3173G     | CLJ-CSS-02  | 1.0000  | 1.0000 |           |           |      |
| 27           | JM3174G     | CLJ-CSS-03  | 1.0000  | 1.0000 |           |           |      |
| 28           | JM3175G     | CLJ-CSS-04  | 1.0000  | 1.0000 |           |           |      |
| 29           | JM3176G     | CLJ-CSS-05  | 1.0000  | 1.0000 |           |           |      |
| 30           | JM3177G     | CLJ-CSS-06  | 1.0000  | 1.0000 |           |           |      |

*Sent  
back for  
redo  
SB  
2-9-94*

PgDn

Column entry, Ins to switch

|                  |         |             |                           |               |  |
|------------------|---------|-------------|---------------------------|---------------|--|
| Protocol: ASCHG  |         | Rev: 2.008  | Time: 12:55:19            | 09 Feb 1994   |  |
| Folder: HG020994 | Seq: 56 | Print: On   |                           |               |  |
| User:            | Batch:  | Id: JM3160G | Cup: 1 07                 | Gas: 0.30 LPM |  |
| State: Idle      |         |             | Xmit: Off Autosampler: On |               |  |

| AUTOSAMPLER:  | Rack entry          | Rack FRED         | Range 1           | -41               | Clear seQ       | Undo eXit         | PgUp |
|---------------|---------------------|-------------------|-------------------|-------------------|-----------------|-------------------|------|
| cup Id        | Extended id         | Weight            | Volume            | Macro             | check           | Help              |      |
| <del>31</del> | <del>TCLP BLK</del> | <del>2-9-94</del> | <del>1.0000</del> | <del>1.0000</del> | <del>Redo</del> | <del>2-4-94</del> |      |
| 32            | N7G3775G            | MET BLK           | 1.0000            | 1.0000            |                 |                   |      |
| 33            | N7G3775GS           | MET SPK           | 1.0000            | 1.0000            |                 |                   |      |
| 34            | JM3183GS            | MTX SPK           | 1.0000            | 1.0000            |                 |                   |      |
| 35            | JM3183GR            | MTX SPK REP       | 1.0000            | 1.0000            |                 |                   |      |
| 36            | JM3183G             | CLJ-CSS-12        | 1.0000            | 1.0000            |                 |                   |      |
| 37            | JM3183GG            | DUPLICATE         | 1.0000            | 1.0000            |                 |                   |      |
| 38            | JM3179G             | CLJ-CSS-08        | 1.0000            | 1.0000            |                 |                   |      |
| 39            | JM3180G             | CLJ-CSS-09        | 1.0000            | 1.0000            |                 |                   |      |
| 40            | JM3181G             | CLJ-CSS-10        | 1.0000            | 1.0000            |                 |                   |      |
| 41            | JM3182G             | CLJ-CSS-11        | 1.0000            | 1.0000            |                 |                   |      |
| 42            |                     |                   | 1.0000            | 1.0000            |                 |                   |      |
| 43            |                     |                   | 1.0000            | 1.0000            |                 |                   |      |
| 44            |                     |                   | 1.0000            | 1.0000            |                 |                   |      |

Column entry, Ins to switch

09:47:16 09 Feb 1994

Folder: HG020994  
Protocol: ASCHG

Page 1

| Line                   | Conc. | Units | SD/RSD | 1           | 2     | 3        | 4           | 5  |
|------------------------|-------|-------|--------|-------------|-------|----------|-------------|----|
| *** Standard: 1 Rep: 1 |       |       |        | Seq: 3      |       | 09:47:16 | 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | -308   | Ave. Int. = | -308  | S. D. =  | 0           |    |
| *** Standard: 1 Rep: 2 |       |       |        | Seq: 4      |       | 09:50:38 | 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | 2279   | Ave. Int. = | 2279  | S. D. =  | 0           |    |
| *** Standard: 1 Rep: 3 |       |       |        | Seq: 5      |       | 09:54:00 | 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | 1709   | Ave. Int. = | 1709  | S. D. =  | 0           |    |
| *** Standard: 2 Rep: 1 |       |       |        | Seq: 6      |       | 09:57:22 | 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 5118   | Ave. Int. = | 5118  | S. D. =  | 0           |    |
| *** Standard: 2 Rep: 2 |       |       |        | Seq: 7      |       | 10:00:44 | 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 5526   | Ave. Int. = | 5526  | S. D. =  | 0           |    |
| *** Standard: 2 Rep: 3 |       |       |        | Seq: 8      |       | 10:04:06 | 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 3271   | Ave. Int. = | 3271  | S. D. =  | 0           |    |
| *** Standard: 3 Rep: 1 |       |       |        | Seq: 9      |       | 10:07:28 | 09 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 12868  | Ave. Int. = | 12868 | S. D. =  | 0           |    |
| *** Standard: 3 Rep: 2 |       |       |        | Seq: 10     |       | 10:10:50 | 09 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 11112  | Ave. Int. = | 11112 | S. D. =  | 0           |    |
| *** Standard: 3 Rep: 3 |       |       |        | Seq: 11     |       | 10:14:12 | 09 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 10609  | Ave. Int. = | 10609 | S. D. =  | 0           |    |

VOID  
803  
2-9-94

10:17:34 09 Feb 1994

Folder: HG020994

Page 2

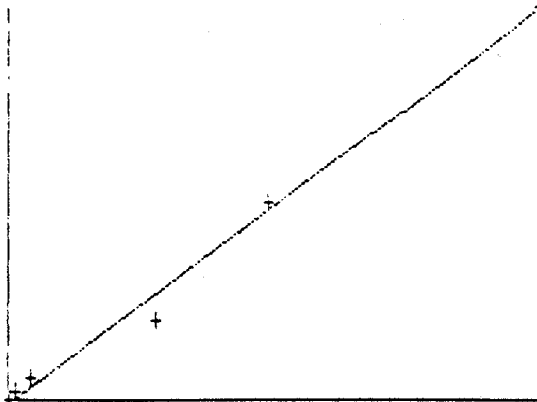
Protocol: ASCHG

| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 4 Rep: 1 |       |       |             | Seq: 12 |         |   | 10:17:34 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 74787       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 74787   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 2 |       |       |             | Seq: 13 |         |   | 10:20:58 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 73486       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 73486   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 3 |       |       |             | Seq: 14 |         |   | 10:24:21 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 75828       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 75828   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 1 |       |       |             | Seq: 15 |         |   | 10:27:43 09 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 131302      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 131302  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 2 |       |       |             | Seq: 16 |         |   | 10:31:06 09 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 130033      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 130033  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 3 |       |       |             | Seq: 17 |         |   | 10:34:29 09 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 130124      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 130124  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 1 |       |       |             | Seq: 18 |         |   | 10:37:51 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 268124      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 268124  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 2 |       |       |             | Seq: 19 |         |   | 10:41:13 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 264680      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 264680  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 3 |       |       |             | Seq: 20 |         |   | 10:44:37 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 267080      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 267080  | S. D. = |   | 0                    |    |

VOID  
SB 2-9-94



|                               |            |              |             |                |                     |                           |  |
|-------------------------------|------------|--------------|-------------|----------------|---------------------|---------------------------|--|
| Protocol: ASCHG               |            | Rev: 2.008   |             | Time: 10:44:47 |                     | 09 Feb 1994               |  |
| Folder: HG020994              |            | Seq: 21      |             | Print: On      |                     |                           |  |
| User:                         |            | Batch:       |             | Id: Std6Rep3   |                     | Gas: 0.30 LPM             |  |
| State: Idle                   |            | Macro ASCCLP |             | 109 : F3 Print |                     | Xmit: Off Autosampler: On |  |
| CALIBRATION: Line Calibration |            |              |             |                |                     |                           |  |
| Line: Hg                      | Conc.      | Calc.        | Dev.        | Accepted       |                     |                           |  |
| S1                            | .000       | -.073        | -.073       | LiNear         |                     |                           |  |
| S2                            | .200       | .055         | -.145       | Quadratic      |                     |                           |  |
| S3                            | .500       | .315         | -.186       | MtdLinear      |                     |                           |  |
| S4                            | 2.00       | 2.69         | .693        | Accept         | C                   |                           |  |
| S5                            | 5.00       | 4.79         | -.207       |                | o                   |                           |  |
| S6                            | 10.0       | 9.92         | -.082       | StdAdd         | n                   |                           |  |
| A                             | .0000000   | r            | .996164     |                | c                   |                           |  |
| B                             | 3.76469e-5 | C            | -1.19533e-1 |                |                     |                           |  |
|                               | Mean       | %RSD         |             |                | Relative Absorbance |                           |  |
| S1                            | 1226       | 110.81       | -308        | 2279           | 1709                |                           |  |
| S2                            | 4638       | 25.91        | 5118        | 5526           | 3271                |                           |  |
| S3                            | 11529      | 10.29        | 12868       | 11112          | 10609               |                           |  |
| S4                            | 74700      | 1.57         | 74787       | 73486          | 75828               |                           |  |
| S5                            | 130486     | 0.54         | 131302      | 130033         | 130124              |                           |  |
| S6                            | 266628     | 0.66         | 268124      | 264680         | 267000              |                           |  |
| New cal coefficients stored   |            |              |             |                |                     |                           |  |



VOID  
SB 2-9-94

10:49:22 09 Feb 1994

Folder: HG020994  
Protocol: ASCHG

Page 3

| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 4 Rep: 1 |       |       |             | Seq: 21 |         |   | 10:49:22 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 73282       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 73282   | S. D. = | 0 |                      |    |
| *** Standard: 4 Rep: 2 |       |       |             | Seq: 22 |         |   | 10:52:44 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 73099       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 73099   | S. D. = | 0 |                      |    |
| *** Standard: 4 Rep: 3 |       |       |             | Seq: 23 |         |   | 10:56:07 09 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 74111       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 74111   | S. D. = | 0 |                      |    |
| *** Standard: 1 Rep: 1 |       |       |             | Seq: 25 |         |   | 11:07:12 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | -1825       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | -1825   | S. D. = | 0 |                      |    |
| *** Standard: 1 Rep: 2 |       |       |             | Seq: 26 |         |   | 11:10:34 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | 893         |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 893     | S. D. = | 0 |                      |    |
| *** Standard: 1 Rep: 3 |       |       |             | Seq: 27 |         |   | 11:13:57 09 Feb 1994 | HG |
| Hg                     | .000  | ppb   | -649        |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | -649    | S. D. = | 0 |                      |    |
| *** Standard: 2 Rep: 1 |       |       |             | Seq: 28 |         |   | 11:17:18 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 5451        |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 5451    | S. D. = | 0 |                      |    |
| *** Standard: 2 Rep: 2 |       |       |             | Seq: 29 |         |   | 11:20:41 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 5280        |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 5280    | S. D. = | 0 |                      |    |
| *** Standard: 2 Rep: 3 |       |       |             | Seq: 30 |         |   | 11:24:04 09 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 5353        |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 5353    | S. D. = | 0 |                      |    |

11:27:26 09 Feb 1994

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| Line          | Conc.  | Units | SD/RSD      | 1      | 2       | 3                       | 4 | 5 |
|---------------|--------|-------|-------------|--------|---------|-------------------------|---|---|
| -----         |        |       |             |        |         |                         |   |   |
| *** Standard: | 3 Rep: | 1     |             | Seq:   | 31      | 11:27:26 09 Feb 1994 HG |   |   |
| Hg            | .500   | ppb   | 10720       |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 10720  | S. D. = | 0                       |   |   |
| *** Standard: | 3 Rep: | 2     |             | Seq:   | 32      | 11:30:48 09 Feb 1994 HG |   |   |
| Hg            | .500   | ppb   | 11595       |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 11595  | S. D. = | 0                       |   |   |
| *** Standard: | 3 Rep: | 3     |             | Seq:   | 33      | 11:34:11 09 Feb 1994 HG |   |   |
| Hg            | .500   | ppb   | 9116        |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 9116   | S. D. = | 0                       |   |   |
| *** Standard: | 4 Rep: | 1     |             | Seq:   | 34      | 11:37:34 09 Feb 1994 HG |   |   |
| Hg            | 2.00   | ppb   | 49789       |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 49789  | S. D. = | 0                       |   |   |
| *** Standard: | 4 Rep: | 2     |             | Seq:   | 35      | 11:40:56 09 Feb 1994 HG |   |   |
| Hg            | 2.00   | ppb   | 48583       |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 48583  | S. D. = | 0                       |   |   |
| *** Standard: | 4 Rep: | 3     |             | Seq:   | 36      | 11:44:19 09 Feb 1994 HG |   |   |
| Hg            | 2.00   | ppb   | 47565       |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 47565  | S. D. = | 0                       |   |   |
| *** Standard: | 5 Rep: | 1     |             | Seq:   | 37      | 11:47:41 09 Feb 1994 HG |   |   |
| Hg            | 5.00   | ppb   | 131289      |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 131289 | S. D. = | 0                       |   |   |
| *** Standard: | 5 Rep: | 2     |             | Seq:   | 38      | 11:51:03 09 Feb 1994 HG |   |   |
| Hg            | 5.00   | ppb   | 130253      |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 130253 | S. D. = | 0                       |   |   |
| *** Standard: | 5 Rep: | 3     |             | Seq:   | 39      | 11:54:30 09 Feb 1994 HG |   |   |
| Hg            | 5.00   | ppb   | 129739      |        |         |                         |   |   |
|               |        |       | Ave. Int. = | 129739 | S. D. = | 0                       |   |   |

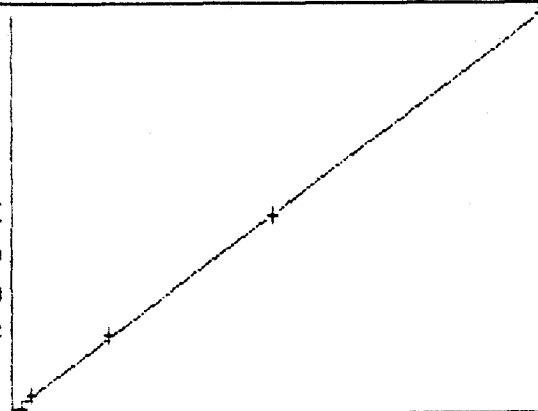
11:57:53 09 Feb 1994

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| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 6 Rep: 1 |       |       |             | Seq: 40 |         |   | 11:57:53 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 265952      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 265952  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 2 |       |       |             | Seq: 41 |         |   | 12:01:16 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 263684      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 263684  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 3 |       |       |             | Seq: 42 |         |   | 12:04:39 09 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 264576      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 264576  | S. D. = |   | 0                    |    |

|                               |              |                |                |                     |          |
|-------------------------------|--------------|----------------|----------------|---------------------|----------|
| Protocol: ASCMG               |              | Rev: 2.000     | Time: 12:04:49 | 09 Feb 1994         |          |
| Folder: HC828994              | Seq: 43      | Print: On      |                |                     |          |
| User:                         | Batch:       | Id: Std6Rep3   | Cup:           | Gas:                | 0.30 LPM |
| State: Idle                   | Macro ASCCLP | 109 : F3 Print | Xmit: Off      | Autosampler: On     |          |
| CALIBRATION: Line Calibration |              |                |                |                     |          |
| Line: Hg                      | Accepted     |                |                |                     |          |
|                               | Conc.        | Calc.          | Dev.           | LiNear              |          |
| S1                            | .000         | .052           | .052           | Quadratic           |          |
| S2                            | .200         | .274           | .074           | WtdLinear           |          |
| S3                            | .500         | .466           | -.034          |                     | C        |
| S4                            | 2.00         | 1.90           | -.090          | Accept              | o        |
| S5                            | 5.00         | 4.98           | -.022          |                     | n        |
| S6                            | 10.0         | 10.0           | .029           | StdAdd              | c        |
| A                             | .0000000     | r              | .999868        |                     |          |
| B                             | 3.76115e-5   | C              | 7.19635e-2     |                     |          |
|                               | Mean         | %RSD           |                | Relative Absorbance |          |
| S1                            | -527         | -258.65        | -1825          | 893                 | -649     |
| S2                            | 5361         | 1.6            | 5451           | 5200                | 5353     |
| S3                            | 10477        | 12             | 10720          | 11595               | 9116     |
| S4                            | 48645        | 2.29           | 49789          | 48583               | 47565    |
| S5                            | 130427       | 0.61           | 131289         | 130253              | 129739   |
| S6                            | 264737       | 0.43           | 265952         | 263684              | 264576   |
| New cal coefficients stored   |              |                |                |                     |          |



12:08:00 09 Feb 1994

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| Line                      | Conc.           | Units            | SD/RSD          | 1               | 2      | 3       | 4                       | 5                       |
|---------------------------|-----------------|------------------|-----------------|-----------------|--------|---------|-------------------------|-------------------------|
| *** Check Standard: 1 Ck1 |                 |                  |                 |                 |        |         |                         |                         |
| Line                      | Flag            | Found            | Range(+/-)      | Units           | SD/RSD |         |                         |                         |
| Hg                        |                 | .113             | .200            | ppb             | .000   | Seq: 43 | 12:08:00 09 Feb 1994    | HG                      |
| *** Check Standard: 2 Ck2 |                 |                  |                 |                 |        |         |                         |                         |
| Line                      | Flag            | %Rcv.            | Found           | True            | Units  | SD/RSD  |                         |                         |
| Hg                        |                 | 86.0             | 4.30            | 5.00            | ppb    | .000    | Seq: 44                 | 12:11:20 09 Feb 1994 HG |
| *** Check Standard: 3 Ck3 |                 |                  |                 |                 |        |         |                         |                         |
| Line                      | Flag            | %Rcv.            | Found           | True            | Units  | SD/RSD  |                         |                         |
| Hg                        |                 | 75.6             | .151            | .200            | ppb    | .000    | Seq: 45                 | 12:14:40 09 Feb 1994 HG |
| *** Sample ID: Q1G3769G   |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 46                 | 12:20:45 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | MET BLK                 |
| Hg                        | .058            | ppb              | .000            | .058            |        |         |                         |                         |
| *** Sample ID: Q1G3769G   |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 47                 | 12:24:32 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | MET BLK                 |
| Hg                        | .050            | ppb              | .000            | .050            |        |         |                         |                         |
| *** Sample ID: Q1G3769GS  |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 48                 | 12:27:49 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | MET SPK                 |
| Hg                        | 1.95            | ppb              | .000            | 1.95            |        |         |                         |                         |
| *** Sample ID: JM3159GS   |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 49                 | 12:31:06 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | MTX SPK                 |
| Hg                        | 1.68            | ppb              | .000            | 1.68            |        |         |                         |                         |
| *** Sample ID: JM3159GR   |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 50                 | 12:34:59 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | MTX SPK REP             |
| Hg                        | 1.64            | ppb              | .000            | 1.64            |        |         |                         |                         |
| *** Sample ID: JM3159G    |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 51                 | 12:38:17 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | 002A                    |
| Hg                        | 1.59            | ppb              | .000            | 1.59            |        |         |                         |                         |
| *** Sample ID: JM3153G    |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 52                 | 12:41:34 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | 008A                    |
| Hg                        | <del>100.</del> | <del>H ppb</del> | <del>.000</del> | <del>100.</del> |        |         |                         | VOID SB 2-9-94          |
| *** Check Standard: 1 Ck1 |                 |                  |                 |                 |        |         |                         |                         |
| Line                      | Flag            | Found            | Range(+/-)      | Units           | SD/RSD |         |                         |                         |
| Hg                        |                 | .005             | .200            | ppb             | .000   | Seq: 53 | 12:46:35 09 Feb 1994 HG |                         |
| *** Sample ID: JM3153G    |                 |                  |                 |                 |        |         |                         |                         |
|                           |                 |                  |                 |                 |        |         | Seq: 54                 | 12:49:54 09 Feb 1994 HG |
|                           |                 |                  |                 |                 |        |         |                         | 008A                    |
| Hg                        | 2.42            | ppb              | .000            | 2.42            |        |         |                         |                         |

SB  
2-9-94  
5000x

TO check for carryover SB  
2-9-94

SB  
2-9-94  
5000x



12:59:09 09 Feb 1994

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Protocol: ASCHG

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| Line                     | Conc. | Units      | SD/RSD      | 1       | 2      | 3 | 4 | 5                       |
|--------------------------|-------|------------|-------------|---------|--------|---|---|-------------------------|
| -----                    |       |            |             |         |        |   |   |                         |
| *** Check Standard: 1    | Ck1   |            |             | Seq: 56 |        |   |   | 12:59:09 09 Feb 1994 HG |
| Line Flag                | Found | Range(+/-) | Units       | SD/RSD  |        |   |   |                         |
| Hg                       | .094  | .200       | ppb         | .000    |        |   |   |                         |
| *** Check Standard: 2    | Ck2   |            |             | Seq: 57 |        |   |   | 13:02:29 09 Feb 1994 HG |
| Line Flag                | %Rcv. | Found      | True        | Units   | SD/RSD |   |   |                         |
| Hg                       | 87.2  | 4.36       | 5.00        | ppb     | .000   |   |   |                         |
| *** Sample ID: JM3160G   |       |            |             | Seq: 58 |        |   |   | 13:05:50 09 Feb 1994 HG |
|                          |       |            | 004A        |         |        |   |   |                         |
| Hg                       | 2.44  | ppb        | .000        | 2.44    |        |   |   |                         |
| *** Sample ID: Q7G3770G  |       |            |             | Seq: 59 |        |   |   | 13:09:09 09 Feb 1994 HG |
|                          |       |            | MET BLK     |         |        |   |   |                         |
| Hg                       | .035  | ppb        | .000        | .035    |        |   |   |                         |
| *** Sample ID: Q7G3770GS |       |            |             | Seq: 60 |        |   |   | 13:12:27 09 Feb 1994 HG |
|                          |       |            | MET SPK     |         |        |   |   |                         |
| Hg                       | 1.89  | ppb        | .000        | 1.89    |        |   |   |                         |
| *** Sample ID: JM3197GS  |       |            |             | Seq: 61 |        |   |   | 13:15:46 09 Feb 1994 HG |
|                          |       |            | MTX SPK     |         |        |   |   |                         |
| Hg                       | 2.04  | ppb        | .000        | 2.04    |        |   |   |                         |
| *** Sample ID: JM3197GR  |       |            |             | Seq: 62 |        |   |   | 13:19:04 09 Feb 1994 HG |
|                          |       |            | MTX SPK REP |         |        |   |   |                         |
| Hg                       | 2.31  | ppb        | .000        | 2.31    |        |   |   |                         |
| *** Sample ID: JM3197G   |       |            |             | Seq: 63 |        |   |   | 13:22:21 09 Feb 1994 HG |
|                          |       |            | 2           |         |        |   |   |                         |
| Hg                       | .060  | ppb        | .000        | .060    |        |   |   |                         |
| *** Sample ID: JM3197GG  |       |            |             | Seq: 64 |        |   |   | 13:25:36 09 Feb 1994 HG |
|                          |       |            | DUPLICATE   |         |        |   |   |                         |
| Hg                       | .180  | ppb        | .000        | .180    |        |   |   |                         |
| *** Sample ID: JM3196G   |       |            |             | Seq: 65 |        |   |   | 13:28:52 09 Feb 1994 HG |
|                          |       |            | 1           |         |        |   |   |                         |
| Hg                       | .081  | ppb        | .000        | .081    |        |   |   |                         |
| *** Sample ID: TCLP BLK  |       |            |             | Seq: 66 |        |   |   | 13:32:07 09 Feb 1994 HG |
|                          |       |            | 2-9-94      |         |        |   |   |                         |
| Hg                       | .105  | ppb        | .000        | .105    |        |   |   |                         |
| *** Sample ID: N7G3772G  |       |            |             | Seq: 67 |        |   |   | 13:35:23 09 Feb 1994 HG |
|                          |       |            | MET BLK     |         |        |   |   |                         |
| Hg                       | .058  | ppb        | .000        | .058    |        |   |   |                         |

58  
2-9-94  
Scrub

G3772  
sent  
back  
for  
redo  
SB 2-9-94



13:38:41 09 Feb 1994

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Protocol: ASCHG

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| Line                      | Conc.           | Units          | SD/RSD          | 1               | 2       | 3                       | 4 | 5 |
|---------------------------|-----------------|----------------|-----------------|-----------------|---------|-------------------------|---|---|
| *** Check Standard: 1 Ck1 |                 |                |                 |                 |         |                         |   |   |
| Line                      | Flag            | Found          | Range(+/-)      | Units           | Seq:    | 13:38:41 09 Feb 1994 HG |   |   |
| Hg                        |                 | .115           | .200            | ppb             | 68      |                         |   |   |
| *** Check Standard: 2 Ck2 |                 |                |                 |                 |         |                         |   |   |
| Line                      | Flag            | %Rcv.          | Found           | True Units      | Seq:    | 13:42:01 09 Feb 1994 HG |   |   |
| Hg                        |                 | 89.0           | 4.45            | 5.00 ppb        | 69      |                         |   |   |
| *** Sample ID: N7G3772GS  |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MET SPK         |         |                         |   |   |
| Hg                        | 1.93            | ppb            | .000            | 1.93            | Seq: 70 | 13:45:19 09 Feb 1994 HG |   |   |
| *** Sample ID: JM3178GS   |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MTX SPK         |         |                         |   |   |
| Hg                        | 1.34            | ppb            | .000            | 1.34            | Seq: 71 | 13:48:36 09 Feb 1994 HG |   |   |
| *** Sample ID: JM3178GR   |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MTX SPK REP     |         |                         |   |   |
| Hg                        | 1.44            | ppb            | .000            | 1.44            | Seq: 72 | 13:51:52 09 Feb 1994 HG |   |   |
| *** Sample ID: JM3178G    |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | CLJ-CSS-07      |         |                         |   |   |
| Hg                        | <del>34.4</del> | <del>ppb</del> | <del>.000</del> | <del>34.4</del> | Seq: 73 | 13:55:08 09 Feb 1994 HG |   |   |
| *** Sample ID: JM3178G    |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | CLJ-CSS-07      |         |                         |   |   |
| Hg                        | 3.52            | ppb            | .000            | 3.52            | Seq: 74 | 14:03:26 09 Feb 1994 HG |   |   |
| *** Sample ID: JM3178GS   |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MTX SPK         |         |                         |   |   |
| Hg                        | .207            | ppb            | .000            | .207            | Seq: 75 | 14:09:08 09 Feb 1994 HG |   |   |
| *** Check Standard: 1 Ck1 |                 |                |                 |                 |         |                         |   |   |
| Line                      | Flag            | Found          | Range(+/-)      | Units           | Seq:    | 14:17:42 09 Feb 1994 HG |   |   |
| Hg                        |                 | .123           | .200            | ppb             | 76      |                         |   |   |
| *** Check Standard: 2 Ck2 |                 |                |                 |                 |         |                         |   |   |
| Line                      | Flag            | %Rcv.          | Found           | True Units      | Seq:    | 14:21:02 09 Feb 1994 HG |   |   |
| Hg                        |                 | 86.2           | 4.31            | 5.00 ppb        | 77      |                         |   |   |
| *** Sample ID: N7G3775G   |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MET BLK         |         |                         |   |   |
| Hg                        | .007            | ppb            | .000            | .007            | Seq: 78 | 14:26:14 09 Feb 1994 HG |   |   |
| *** Sample ID: N7G3775GS  |                 |                |                 |                 |         |                         |   |   |
|                           |                 |                |                 | MET SPK         |         |                         |   |   |
| Hg                        | 1.93            | ppb            | .000            | 1.93            | Seq: 79 | 14:29:30 09 Feb 1994 HG |   |   |

*N7G3772  
Sent  
back  
or  
redo*

*58  
2-7-94  
10x*

*JUD 502-9-94*

14:32:45 09 Feb 1994

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Protocol: ASCHG

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| Line  | Conc.                 | Units | SD/RSD     | 1       | 2                       | 3      | 4 | 5 |
|-------|-----------------------|-------|------------|---------|-------------------------|--------|---|---|
| ----- |                       |       |            |         |                         |        |   |   |
| ***   | Sample ID: JM3183GS   |       |            | Seq: 80 | 14:32:45 09 Feb 1994 HG |        |   |   |
|       | MTX SPK               |       |            |         |                         |        |   |   |
| Hg    | 1.86                  | ppb   | .000       | 1.86    |                         |        |   |   |
| ***   | Sample ID: JM3183GR   |       |            | Seq: 81 | 14:36:01 09 Feb 1994 HG |        |   |   |
|       | MTX SPK REP           |       |            |         |                         |        |   |   |
| Hg    | 2.16                  | ppb   | .000       | 2.16    |                         |        |   |   |
| ***   | Sample ID: JM3183G    |       |            | Seq: 82 | 14:39:16 09 Feb 1994 HG |        |   |   |
|       | CLJ-CSS-12            |       |            |         |                         |        |   |   |
| Hg    | .073                  | ppb   | .000       | .073    |                         |        |   |   |
| ***   | Sample ID: JM3183GG   |       |            | Seq: 83 | 14:42:31 09 Feb 1994 HG |        |   |   |
|       | DUPLICATE             |       |            |         |                         |        |   |   |
| Hg    | .162                  | ppb   | .000       | .162    |                         |        |   |   |
| ***   | Sample ID: JM3179G    |       |            | Seq: 84 | 14:45:46 09 Feb 1994 HG |        |   |   |
|       | CLJ-CSS-08            |       |            |         |                         |        |   |   |
| Hg    | .116                  | ppb   | .000       | .116    |                         |        |   |   |
| ***   | Sample ID: JM3180G    |       |            | Seq: 85 | 14:49:01 09 Feb 1994 HG |        |   |   |
|       | CLJ-CSS-09            |       |            |         |                         |        |   |   |
| Hg    | .088                  | ppb   | .000       | .088    |                         |        |   |   |
| ***   | Sample ID: JM3181G    |       |            | Seq: 86 | 14:52:17 09 Feb 1994 HG |        |   |   |
|       | CLJ-CSS-10            |       |            |         |                         |        |   |   |
| Hg    | .115                  | ppb   | .000       | .115    |                         |        |   |   |
| ***   | Sample ID: JM3182G    |       |            | Seq: 87 | 14:55:33 09 Feb 1994 HG |        |   |   |
|       | CLJ-CSS-11            |       |            |         |                         |        |   |   |
| Hg    | .573                  | ppb   | .000       | .573    |                         |        |   |   |
| ***   | Check Standard: 1 Ck1 |       |            | Seq: 88 | 14:58:52 09 Feb 1994 HG |        |   |   |
| Line  | Flag                  | Found | Range(+/-) | Units   | SD/RSD                  |        |   |   |
| Hg    |                       | .128  | .200       | ppb     | .000                    |        |   |   |
| ***   | Check Standard: 2 Ck2 |       |            | Seq: 89 | 15:02:11 09 Feb 1994 HG |        |   |   |
| Line  | Flag                  | %Rcv. | Found      | True    | Units                   | SD/RSD |   |   |
| Hg    |                       | 89.5  | 4.47       | 5.00    | ppb                     | .000   |   |   |
| ***   | Check Standard: 3 Ck3 |       |            | Seq: 90 | 15:11:54 09 Feb 1994 HG |        |   |   |
| Line  | Flag                  | %Rcv. | Found      | True    | Units                   | SD/RSD |   |   |
| Hg    |                       | 138.  | .276       | .200    | ppb                     | .000   |   |   |
| ***   | Sample ID: JM3178GG   |       |            | Seq: 91 | 15:15:13 09 Feb 1994 HG |        |   |   |
|       | DUPLICATE             |       |            |         |                         |        |   |   |
| Hg    | .039                  | ppb   | .000       | .039    |                         |        |   |   |

SB 2-9-94  
DO NOT QUANT  
CONFIRMING REDO ONLY

Folder: HG020994  
Protocol: ASCHG

15:20:47 09 Feb 1994

2-9-94  
CONFIRMED  
CONTAINMENT  
BOTTLE ONLY  
DO NOT  
QUANT

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

|                        |      |       |      |            |                         |  |  |  |
|------------------------|------|-------|------|------------|-------------------------|--|--|--|
| *** Sample ID: JM3178G |      |       |      | Seq: 92    | 15:20:47 09 Feb 1994 HG |  |  |  |
|                        |      |       |      | CLJ-CSS-07 |                         |  |  |  |
| Hg                     | 34.1 | H ppb | .000 | 34.1       |                         |  |  |  |

Protocol: ASCHG

Rev: 2.008 Time: 10:55:09 10 Feb 1994

Folder: HG021094

Seq: 22

Print: On

User:

Batch:

Id: Ck3

Cup:

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            | Q7G3781G    | MET BLK     | 1.0000    | 1.0000 |             |      |
| 2            | Q7G3781GS   | MET SPK     | 1.0000    | 1.0000 |             |      |
| 3            | JM3226GS    | MTX SPK     | 1.0000    | 1.0000 |             |      |
| 4            | JM3226GR    | MTX SPK REP | 1.0000    | 1.0000 |             |      |
| 5            | JM3226G     | 11031       | 1.0000    | 1.0000 |             |      |
| 6            | JM3226GG    | DUPLICATE   | 1.0000    | 1.0000 |             |      |
| 7            | JM3220G     | 11030       | 1.0000    | 1.0000 |             |      |
| 8            | TCLP BLK    | 2-10-94     | 1.0000    | 1.0000 |             |      |
| 9            | N7G3772G    | MET BLK     | 1.0000    | 1.0000 |             |      |
| 10           | N7G3772GS   | MET SPK     | 1.0000    | 1.0000 |             |      |
| 11           | JM3178GS    | MTX SPK     | 1.0000    | 1.0000 |             |      |
| 12           | JM3178GR    | MTX SKP REP | 1.0000    | 1.0000 |             |      |
| 13           | JM3178G     | CLJ-CSS-07  | 1.0000    | 1.0000 |             |      |
| 14           | JM3178GG    | DUPLICATE   | 1.0000    | 1.0000 |             |      |
| 15           | JM3169G     | CLJ-DS-01   | 1.0000    | 1.0000 |             |      |

PgDn

Cup 1 extended ID: MET BLK

Cell entry, Ins to switch

JFR3772R  
 This is  
 a Redone  
 Batch  
 SB  
 2-10-94

Protocol: ASCHG

Rev: 2.008 Time: 10:55:34 10 Feb 1994

Folder: HG021094

Seq: 22

Print: On

User:

Batch:

Id: Ck3

Cup:

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           | JM3170G     | CLJ-DS-01A | 1.0000    | 1.0000      |      |      |
| 17           | JM3171G     | CLJ-DS-01B | 1.0000    | 1.0000      |      |      |
| 18           | JM3172G     | CLJ-CSS-01 | 1.0000    | 1.0000      |      |      |
| 19           | JM3173G     | CLJ-CSS-02 | 1.0000    | 1.0000      |      |      |
| 20           | JM3174G     | CLJ-CSS-03 | 1.0000    | 1.0000      |      |      |
| 21           | JM3175G     | CLJ-CSS-04 | 1.0000    | 1.0000      |      |      |
| 22           | JM3176G     | CLJ-CSS-05 | 1.0000    | 1.0000      |      |      |
| 23           | JM3177G     | CLJ-CSS-06 | 1.0000    | 1.0000      |      |      |
| 24           | TCLP BLK    | 2-9-94     | 1.0000    | 1.0000      |      |      |
| 25           |             |            | 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-DS-01A

Cell entry, Ins to switch

09:42:09 10 Feb 1994

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Protocol: ASCHG

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| Line                   | Conc. | Units | SD/RSD      | 1      | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|--------|---------|---|----------------------|----|
| -----                  |       |       |             |        |         |   |                      |    |
| *** Standard: 1 Rep: 1 |       |       |             | Seq: 1 |         |   | 09:42:09 10 Feb 1994 | HG |
| Hg                     | .000  | ppb   | -566        |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | -566   | S. D. = |   | 0                    |    |
| *** Standard: 1 Rep: 2 |       |       |             | Seq: 2 |         |   | 09:45:30 10 Feb 1994 | HG |
| Hg                     | .000  | ppb   | -902        |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | -902   | S. D. = |   | 0                    |    |
| *** Standard: 1 Rep: 3 |       |       |             | Seq: 3 |         |   | 09:48:53 10 Feb 1994 | HG |
| Hg                     | .000  | ppb   | 15          |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 15     | S. D. = |   | 0                    |    |
| *** Standard: 2 Rep: 1 |       |       |             | Seq: 4 |         |   | 09:52:15 10 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 6415        |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 6415   | S. D. = |   | 0                    |    |
| *** Standard: 2 Rep: 2 |       |       |             | Seq: 5 |         |   | 09:55:37 10 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 7100        |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 7100   | S. D. = |   | 0                    |    |
| *** Standard: 2 Rep: 3 |       |       |             | Seq: 6 |         |   | 09:59:00 10 Feb 1994 | HG |
| Hg                     | .200  | ppb   | 4697        |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 4697   | S. D. = |   | 0                    |    |
| *** Standard: 3 Rep: 1 |       |       |             | Seq: 7 |         |   | 10:02:22 10 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 11350       |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 11350  | S. D. = |   | 0                    |    |
| *** Standard: 3 Rep: 2 |       |       |             | Seq: 8 |         |   | 10:05:44 10 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 11989       |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 11989  | S. D. = |   | 0                    |    |
| *** Standard: 3 Rep: 3 |       |       |             | Seq: 9 |         |   | 10:09:06 10 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 11210       |        |         |   |                      |    |
|                        |       |       | Ave. Int. = | 11210  | S. D. = |   | 0                    |    |

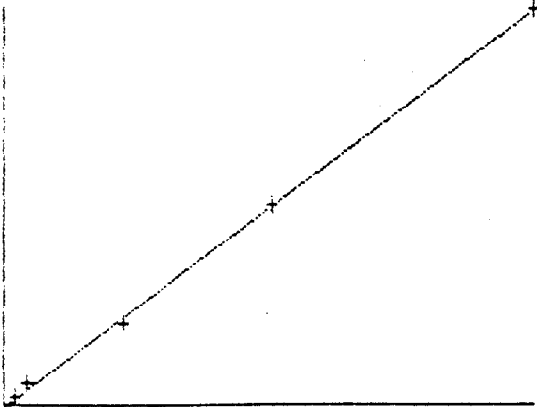
10:12:28 10 Feb 1994

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Protocol: ASCHG

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| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 4 Rep: 1 |       |       |             | Seq: 10 |         |   | 10:12:28 10 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 56720       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 56720   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 2 |       |       |             | Seq: 11 |         |   | 10:15:51 10 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 58638       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 58638   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 3 |       |       |             | Seq: 12 |         |   | 10:19:14 10 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 58024       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 58024   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 1 |       |       |             | Seq: 13 |         |   | 10:22:36 10 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 129113      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 129113  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 2 |       |       |             | Seq: 14 |         |   | 10:25:59 10 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 126747      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 126747  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 3 |       |       |             | Seq: 15 |         |   | 10:29:21 10 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 128555      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 128555  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 1 |       |       |             | Seq: 16 |         |   | 10:32:43 10 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 257376      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 257376  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 2 |       |       |             | Seq: 17 |         |   | 10:36:05 10 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 252200      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 252200  | S. D. = |   | 0                    |    |
| *** Standard: 6 Rep: 3 |       |       |             | Seq: 18 |         |   | 10:39:27 10 Feb 1994 | HG |
| Hg                     | 10.0  | ppb   | 249667      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 249667  | S. D. = |   | 0                    |    |

|                                      |              |                |                     |                 |
|--------------------------------------|--------------|----------------|---------------------|-----------------|
| Protocol: ASCHG                      |              | Rev: 2.000     | Time: 10:39:37      | 10 Feb 1994     |
| Folder: HG821894                     | Seq: 19      | Print: On      |                     |                 |
| User:                                | Batch:       | Id: Std6Rep3   | Cup:                | Gas: 0.30 LPM   |
| State: Idle                          | Macro ASCCLP | 189 : F3 Print | Xmit: Off           | Autosampler: On |
| <b>CALIBRATION: Line Calibration</b> |              |                |                     |                 |
| Line: Hg                             | Accepted     |                |                     |                 |
| Conc.                                | Calc.        | Dev.           | LiNear              |                 |
| S1 .000                              | -.073        | -.073          | Quadratic           |                 |
| S2 .200                              | .106         | -.014          | WtdLinear           |                 |
| S3 .500                              | .401         | -.099          |                     | C               |
| S4 2.00                              | 2.23         | .230           | Accept              | o               |
| S5 5.00                              | 5.01         | .010           |                     | n               |
| S6 10.0                              | 9.95         | -.053          | StdAdd              | c               |
| A .0000000                           | r            | .999539        |                     |                 |
| B 3.95192e-5                         | C            | -5.42231e-2    |                     |                 |
| Mean                                 | %RSD         |                | Relative Absorbance |                 |
| S1 -484                              | -95.79       | -566           | -902                | 15              |
| S2 6078                              | 20.39        | 6415           | 7100                | 4697            |
| S3 11516                             | 3.61         | 11350          | 11989               | 11210           |
| S4 57794                             | 1.69         | 56720          | 58638               | 50024           |
| S5 128138                            | 0.97         | 129113         | 126747              | 128555          |
| S6 253001                            | 1.55         | 257376         | 252200              | 249667          |
| New cal coefficients stored          |              |                |                     |                 |







11:04:07 10 Feb 1994

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Protocol: ASCHG

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| Line                      | Conc. | Units | SD/RSD     | 1     | 2       | 3      | 4      | 5                       |
|---------------------------|-------|-------|------------|-------|---------|--------|--------|-------------------------|
| *** Sample ID: Q7G3781G   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 22 |        |        | 11:04:07 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MET BLK                 |
| Hg                        | -.088 | ppb   | .000       |       |         |        |        | -.088                   |
| *** Sample ID: Q7G3781GS  |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 23 |        |        | 11:07:24 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MET SPK                 |
| Hg                        | 1.82  | ppb   | .000       |       |         |        |        | 1.82                    |
| *** Sample ID: JM3226GS   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 24 |        |        | 11:10:41 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MTX SPK                 |
| Hg                        | 2.35  | ppb   | .000       |       |         |        |        | 2.35                    |
| *** Sample ID: JM3226GR   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 25 |        |        | 11:13:58 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MTX SPK REP             |
| Hg                        | 2.67  | ppb   | .000       |       |         |        |        | 2.67                    |
| *** Sample ID: JM3226G    |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 26 |        |        | 11:17:17 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | 11031                   |
| Hg                        | -.050 | ppb   | .000       |       |         |        |        | -.050                   |
| *** Sample ID: JM3226GG   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 27 |        |        | 11:20:34 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | DUPLICATE               |
| Hg                        | .070  | ppb   | .000       |       |         |        |        | .070                    |
| *** Sample ID: JM3220G    |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 28 |        |        | 11:23:52 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | 11030                   |
| Hg                        | .016  | ppb   | .000       |       |         |        |        | .016                    |
| *** Sample ID: TCLP BLK   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 29 |        |        | 11:27:10 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | 2-10-94                 |
| Hg                        | .071  | ppb   | .000       |       |         |        |        | .071                    |
| *** Sample ID: N7G3772G   |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 30 |        |        | 11:30:28 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MET BLK                 |
| Hg                        | -.101 | ppb   | .000       |       |         |        |        | -.101                   |
| *** Sample ID: N7G3772GS  |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 31 |        |        | 11:33:46 10 Feb 1994 HG |
|                           |       |       |            |       |         |        |        | MET SPK                 |
| Hg                        | 1.79  | ppb   | .000       |       |         |        |        | 1.79                    |
| *** Check Standard: 1 Ck1 |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 32 |        |        | 11:37:05 10 Feb 1994 HG |
| Line                      | Flag  | Found | Range(+/-) | Units |         | SD/RSD |        |                         |
| Hg                        |       | -.030 | .200       | ppb   |         | .000   |        |                         |
| *** Check Standard: 2 Ck2 |       |       |            |       |         |        |        |                         |
|                           |       |       |            |       | Seq: 33 |        |        | 11:40:25 10 Feb 1994 HG |
| Line                      | Flag  | %Rcv. | Found      | True  | Units   |        | SD/RSD |                         |
| Hg                        |       | 92.7  | 4.64       | 5.00  | ppb     | .000   |        |                         |

11:43:44 10 Feb 1994

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| Line  | Conc.                 | Units | SD/RSD     | 1          | 2       | 3 | 4                    | 5  |
|-------|-----------------------|-------|------------|------------|---------|---|----------------------|----|
| ----- |                       |       |            |            |         |   |                      |    |
| ***   | Sample ID: JM3178GS   |       |            |            | Seq: 34 |   | 11:43:44 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | 1.92                  | ppb   | .000       | 1.92       |         |   |                      |    |
| ***   | Sample ID: JM3178GR   |       |            |            | Seq: 35 |   | 11:47:01 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | 1.88                  | ppb   | .000       | 1.88       |         |   |                      |    |
| ***   | Sample ID: JM3178G    |       |            |            | Seq: 36 |   | 11:50:17 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | .404                  | ppb   | .000       | .404       |         |   |                      |    |
| ***   | Sample ID: JM3178GG   |       |            |            | Seq: 37 |   | 11:53:32 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | .018                  | ppb   | .000       | .018       |         |   |                      |    |
| ***   | Sample ID: JM3169G    |       |            |            | Seq: 38 |   | 11:56:48 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | .513                  | ppb   | .000       | .513       |         |   |                      |    |
| ***   | Sample ID: JM3170G    |       |            |            | Seq: 39 |   | 12:00:04 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | -.028                 | ppb   | .000       | -.028      |         |   |                      |    |
| ***   | Sample ID: JM3171G    |       |            |            | Seq: 40 |   | 12:03:20 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | -.085                 | ppb   | .000       | -.085      |         |   |                      |    |
| ***   | Sample ID: JM3172G    |       |            |            | Seq: 41 |   | 12:06:36 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | .006                  | ppb   | .000       | .006       |         |   |                      |    |
| ***   | Sample ID: JM3173G    |       |            |            | Seq: 42 |   | 12:09:52 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | .202                  | ppb   | .000       | .202       |         |   |                      |    |
| ***   | Sample ID: JM3174G    |       |            |            | Seq: 43 |   | 12:13:08 10 Feb 1994 | HG |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
|       |                       |       |            |            |         |   |                      |    |
| Hg    | -.041                 | ppb   | .000       | -.041      |         |   |                      |    |
| ***   | Check Standard: 1 Ck1 |       |            |            | Seq: 44 |   | 12:16:26 10 Feb 1994 | HG |
| Line  | Flag                  | Found | Range(+/-) | Units      | SD/RSD  |   |                      |    |
| Hg    |                       | -.090 | .200       | ppb        | .000    |   |                      |    |
| ***   | Check Standard: 2 Ck2 |       |            |            | Seq: 45 |   | 12:19:47 10 Feb 1994 | HG |
| Line  | Flag                  | XRcv. | Found      | True Units | SD/RSD  |   |                      |    |
| Hg    |                       | 92.5  | 4.62       | 5.00 ppb   | .000    |   |                      |    |

12:23:05 10 Feb 1994

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Protocol: ASCHG

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| Line  | Conc.                 | Units | SD/RSD     | 1       | 2                       | 3      | 4 | 5 |
|-------|-----------------------|-------|------------|---------|-------------------------|--------|---|---|
| ----- |                       |       |            |         |                         |        |   |   |
| ***   | Sample ID: JM3175G    |       |            | Seq: 46 | 12:23:05 10 Feb 1994 HG |        |   |   |
|       |                       |       | CLJ-CSS-04 |         |                         |        |   |   |
| Hg    | .300                  | ppb   | .000       | .300    |                         |        |   |   |
| ***   | Sample ID: JM3176G    |       |            | Seq: 47 | 12:26:21 10 Feb 1994 HG |        |   |   |
|       |                       |       | CLJ-CSS-05 |         |                         |        |   |   |
| Hg    | -.038                 | ppb   | .000       | -.038   |                         |        |   |   |
| ***   | Sample ID: JM3177G    |       |            | Seq: 48 | 12:29:39 10 Feb 1994 HG |        |   |   |
|       |                       |       | CLJ-CSS-06 |         |                         |        |   |   |
| Hg    | .324                  | ppb   | .000       | .324    |                         |        |   |   |
| ***   | Sample ID: TCLP BLK   |       |            | Seq: 49 | 12:32:55 10 Feb 1994 HG |        |   |   |
|       |                       |       | 2-9-94     |         |                         |        |   |   |
| Hg    | -.069                 | ppb   | .000       | -.069   |                         |        |   |   |
| ***   | Check Standard: 1 Ck1 |       |            | Seq: 50 | 12:36:12 10 Feb 1994 HG |        |   |   |
| Line  | Flag                  | Found | Range(+/-) | Units   | SD/RSD                  |        |   |   |
| Hg    |                       | -.038 | .200       | ppb     | .000                    |        |   |   |
| ***   | Check Standard: 2 Ck2 |       |            | Seq: 51 | 12:39:32 10 Feb 1994 HG |        |   |   |
| Line  | Flag                  | %Rcv. | Found      | True    | Units                   | SD/RSD |   |   |
| Hg    |                       | 91.6  | 4.58       | 5.00    | ppb                     | .000   |   |   |
| ***   | Check Standard: 3 Ck3 |       |            | Seq: 52 | 12:50:22 10 Feb 1994 HG |        |   |   |
| Line  | Flag                  | %Rcv. | Found      | True    | Units                   | SD/RSD |   |   |
| Hg    |                       | 72.7  | .145       | .200    | ppb                     | .000   |   |   |

Protocol: ASCHG

Rev: 2.008 Time: 08:15:20 14 Feb 1994

Folder: HG021494

Seq: 0

Print: On

User:

Batch:

Id:

Cup:

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            | N7G3792G  | MET BLANK       |           |        |             | 1.0000 | 1.0000 |             |      |
| 2            | N7G3792GS | MET SPIKE       |           |        |             | 1.0000 | 1.0000 |             |      |
| 3            | JM3193GS  | MTX SPIKE       |           |        |             | 1.0000 | 1.0000 |             |      |
| 4            | JM3193GR  | MTX SPIKE DUP   |           |        |             | 1.0000 | 1.0000 |             |      |
| 5            | JM3193G   | 15226N-CLJCSS22 |           |        |             | 1.0000 | 1.0000 |             |      |
| 6            | JM3193    | REPLICATE       |           |        |             | 1.0000 | 1.0000 |             |      |
| 7            | JM3184G   | CLJ-CSS13       |           |        |             | 1.0000 | 1.0000 |             |      |
| 8            | JM3185G   | CLJ-CSS14       |           |        |             | 1.0000 | 1.0000 |             |      |
| 9            | JM3186G   | CLJ-CSS15       |           |        |             | 1.0000 | 1.0000 |             |      |
| 10           | JM3187G   | CLJ-CSS16       |           |        |             | 1.0000 | 1.0000 |             |      |
| 11           | JM3188G   | CLJ-CSS17       |           |        |             | 1.0000 | 1.0000 |             |      |
| 12           | JM3189G   | CLJ-CSS19       |           |        |             | 1.0000 | 1.0000 |             |      |
| 13           | JM3190G   | CLJCSS19        |           |        |             | 1.0000 | 1.0000 |             |      |
| 14           | JM3191G   | CLJ-CSS20       |           |        |             | 1.0000 | 1.0000 |             |      |
| 15           | JM2192G   | CLJ-CSS21       |           |        |             | 1.0000 | 1.0000 |             |      |

PgDn

Cup 15 weight: 1.0000

Row entry, Ins to switch

Protocol: ASCHG

Rev: 2.008 Time: 08:18:45 14 Feb 1994

Folder: HG021494

Seq: 0

Print: On

User:

Batch:

Id:

Cup:

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           | TCLP BLANK  | N7G3792       | 1.0000    | 1.0000 |             |      |      |
| 17           | Q7G3789G    | MET BLANK     | 1.0000    | 1.0000 |             |      |      |
| 18           | Q7G3789GS   | MET SPIKE     | 1.0000    | 1.0000 |             |      |      |
| 19           | JM3036GS    | MTX SPIKE     | 1.0000    | 1.0000 |             |      |      |
| 20           | JM3036GR    | MTX SPIKE DUP | 1.0000    | 1.0000 |             |      |      |
| 21           | JM3036G     | 15372-1741    | 1.0000    | 1.0000 |             |      |      |
| 22           | JM3036G     | REPLICATE     | 1.0000    | 1.0000 |             |      |      |
| 23           | JM3039G     | 1744          | 1.0000    | 1.0000 |             |      |      |
| 24           | JM3045G     | 1750          | 1.0000    | 1.0000 |             |      |      |
| 25           | JM3046G     | 1751          | 1.0000    | 1.0000 |             |      |      |
| 26           | JM3231G     | 15699G-LS-001 | 1.0000    | 1.0000 |             |      |      |
| 27           | JM3232G     | LW002         | 1.0000    | 1.0000 |             |      |      |
| 28           | TCLP BLANK  | Q7G3789       | 1.0000    | 1.0000 |             |      |      |
| 29           |             |               | 1.0000    | 1.0000 |             |      |      |
| 30           |             |               | 1.0000    | 1.0000 |             |      |      |

PgDn

Cup 28 weight: 1.0000

Row entry, Ins to switch

|                        |                   |                         |
|------------------------|-------------------|-------------------------|
| *** Standard: 1 Rep: 1 | Seq: 5            | 09:47:01 14 Feb 1994 HG |
| Hg .000 ppb            | Ave. Int. = 37    | 37 S. D. = 0            |
| *** Standard: 1 Rep: 2 | Seq: 6            | 09:50:23 14 Feb 1994 HG |
| Hg .000 ppb            | Ave. Int. = 990   | 990 S. D. = 0           |
| *** Standard: 1 Rep: 3 | Seq: 7            | 09:53:45 14 Feb 1994 HG |
| Hg .000 ppb            | Ave. Int. = -1173 | -1173 S. D. = 0         |
| *** Standard: 2 Rep: 1 | Seq: 8            | 09:57:06 14 Feb 1994 HG |
| Hg .200 ppb            | Ave. Int. = 6635  | 6635 S. D. = 0          |
| *** Standard: 2 Rep: 2 | Seq: 9            | 10:00:28 14 Feb 1994 HG |
| Hg .200 ppb            | Ave. Int. = 7903  | 7903 S. D. = 0          |
| *** Standard: 2 Rep: 3 | Seq: 10           | 10:03:50 14 Feb 1994 HG |
| Hg .200 ppb            | Ave. Int. = 6203  | 6203 S. D. = 0          |

10:07:13 14 Feb 1994

Folder: HG021494

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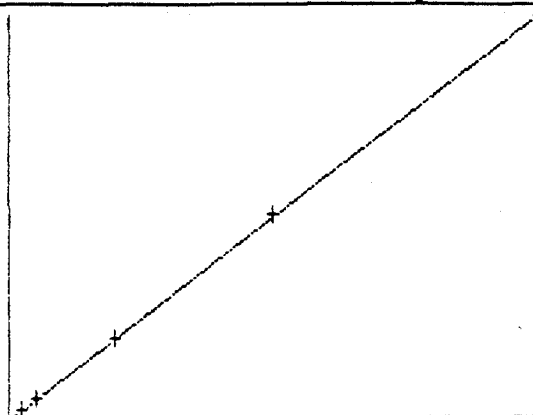
Protocol: ASCHG

| Line                   | Conc. | Units | SD/RSD      | 1       | 2       | 3 | 4                    | 5  |
|------------------------|-------|-------|-------------|---------|---------|---|----------------------|----|
| -----                  |       |       |             |         |         |   |                      |    |
| *** Standard: 3 Rep: 1 |       |       |             | Seq: 11 |         |   | 10:07:13 14 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 13513       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 13513   | S. D. = |   | 0                    |    |
| *** Standard: 3 Rep: 2 |       |       |             | Seq: 12 |         |   | 10:10:35 14 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 14241       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 14241   | S. D. = |   | 0                    |    |
| *** Standard: 3 Rep: 3 |       |       |             | Seq: 13 |         |   | 10:13:58 14 Feb 1994 | HG |
| Hg                     | .500  | ppb   | 13224       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 13224   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 1 |       |       |             | Seq: 14 |         |   | 10:17:20 14 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 50459       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 50459   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 2 |       |       |             | Seq: 15 |         |   | 10:20:43 14 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 51406       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 51406   | S. D. = |   | 0                    |    |
| *** Standard: 4 Rep: 3 |       |       |             | Seq: 16 |         |   | 10:24:05 14 Feb 1994 | HG |
| Hg                     | 2.00  | ppb   | 49387       |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 49387   | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 1 |       |       |             | Seq: 17 |         |   | 10:27:28 14 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 124320      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 124320  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 2 |       |       |             | Seq: 18 |         |   | 10:30:50 14 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 128523      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 128523  | S. D. = |   | 0                    |    |
| *** Standard: 5 Rep: 3 |       |       |             | Seq: 19 |         |   | 10:34:13 14 Feb 1994 | HG |
| Hg                     | 5.00  | ppb   | 125864      |         |         |   |                      |    |
|                        |       |       | Ave. Int. = | 125864  | S. D. = |   | 0                    |    |





|                                      |              |                |                           |                     |
|--------------------------------------|--------------|----------------|---------------------------|---------------------|
| Protocol: ASCHG                      |              | Rev: 2.008     | Time: 10:44:31            | 14 Feb 1994         |
| Folder: HG821494                     | Seq: 23      | Print: On      |                           |                     |
| User:                                | Batch:       | Id: Std6Rep3   | Cup:                      | Gas: 0.30 LPM       |
| State: Idle                          | Macro ASCCLP | 109 : F3 Print | Xmit: Off Autosampler: On |                     |
| <b>CALIBRATION: Line Calibration</b> |              |                |                           |                     |
| Line: Hg                             |              |                |                           | Accepted            |
|                                      | Conc.        | Calc.          | Dev.                      | LiNear              |
| S1                                   | .000         | -.027          | -.027                     | Quadratic           |
| S2                                   | .200         | .249           | .049                      | WtdLinear           |
| S3                                   | .500         | .516           | .016                      | C                   |
| S4                                   | 2.00         | 1.97           | -.028                     | Accept o            |
| S5                                   | 5.00         | 4.97           | -.026                     | n                   |
| S6                                   | 10.0         | 10.0           | .016                      | StdAdd c            |
| A                                    | .0000000     | r              | .999967                   |                     |
| B                                    | 3.95995e-5   | C              | -2.49877e-2               |                     |
|                                      | Mean         | %RSD           |                           | Relative Absorbance |
| S1                                   | -48          | -2227.48       | 37                        | 990 -1173           |
| S2                                   | 6913         | 12.78          | 6635                      | 7903 6203           |
| S3                                   | 13659        | 3.84           | 13513                     | 14241 13224         |
| S4                                   | 58417        | 2              | 58459                     | 51406 49387         |
| S5                                   | 126235       | 1.68           | 124320                    | 128523 125864       |
| S6                                   | 253571       | 0.8            | 251372                    | 255387 253956       |
| New cal coefficients stored          |              |                |                           |                     |



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| Line                      | Conc. | Units | SD/RSD     | 1     | 2     | 3                       | 4                       | 5 |
|---------------------------|-------|-------|------------|-------|-------|-------------------------|-------------------------|---|
| -----                     |       |       |            |       |       |                         |                         |   |
| *** Check Standard: 1 Ck1 |       |       |            |       |       |                         |                         |   |
| Line                      | Flag  | Found | Range(+/-) | Units | Seq:  | 10:47:42 14 Feb 1994 HG |                         |   |
| Hg                        |       | .023  | .200       | ppb   | 23    |                         |                         |   |
| SD/RSD .000               |       |       |            |       |       |                         |                         |   |
| *** Check Standard: 2 Ck2 |       |       |            |       |       |                         |                         |   |
| Line                      | Flag  | %Rcv. | Found      | True  | Units | Seq:                    | 10:51:01 14 Feb 1994 HG |   |
| Hg                        |       | 93.9  | 4.70       | 5.00  | ppb   | 24                      |                         |   |
| SD/RSD .000               |       |       |            |       |       |                         |                         |   |
| *** Check Standard: 3 Ck3 |       |       |            |       |       |                         |                         |   |
| Line                      | Flag  | %Rcv. | Found      | True  | Units | Seq:                    | 10:54:23 14 Feb 1994 HG |   |
| Hg                        |       | 95.2  | .190       | .200  | ppb   | 25                      |                         |   |
| SD/RSD .000               |       |       |            |       |       |                         |                         |   |
| *** Sample ID: N7G3792G   |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 10:57:42 14 Feb 1994 HG |                         |   |
| MET BLANK                 |       |       |            |       |       |                         |                         |   |
| Hg                        | .002  | ppb   | .000       | .002  |       |                         |                         |   |
| *** Sample ID: N7G3792GS  |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:00:59 14 Feb 1994 HG |                         |   |
| MET SPIKE                 |       |       |            |       |       |                         |                         |   |
| Hg                        | 2.01  | ppb   | .000       | 2.01  |       |                         |                         |   |
| *** Sample ID: JM3193GS   |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:04:16 14 Feb 1994 HG |                         |   |
| MTX SPIKE                 |       |       |            |       |       |                         |                         |   |
| Hg                        | 2.39  | ppb   | .000       | 2.39  |       |                         |                         |   |
| *** Sample ID: JM3193GR   |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:07:33 14 Feb 1994 HG |                         |   |
| MTX SPIKE DUP             |       |       |            |       |       |                         |                         |   |
| Hg                        | 2.18  | ppb   | .000       | 2.18  |       |                         |                         |   |
| *** Sample ID: JM3193G    |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:10:50 14 Feb 1994 HG |                         |   |
| 15226N-CLJCSS22           |       |       |            |       |       |                         |                         |   |
| Hg                        | .029  | ppb   | .000       | .029  |       |                         |                         |   |
| *** Sample ID: JM3193G    |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:14:07 14 Feb 1994 HG |                         |   |
| REPLICATE                 |       |       |            |       |       |                         |                         |   |
| Hg                        | .123  | ppb   | .000       | .123  |       |                         |                         |   |
| *** Sample ID: JM3184G    |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:17:25 14 Feb 1994 HG |                         |   |
| CLJ-CSS13                 |       |       |            |       |       |                         |                         |   |
| Hg                        | .035  | ppb   | .000       | .035  |       |                         |                         |   |
| *** Sample ID: JM3185G    |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:20:43 14 Feb 1994 HG |                         |   |
| CLJ-CSS14                 |       |       |            |       |       |                         |                         |   |
| Hg                        | .097  | ppb   | .000       | .097  |       |                         |                         |   |
| *** Sample ID: JM3186G    |       |       |            |       |       |                         |                         |   |
|                           |       |       |            |       | Seq:  | 11:24:02 14 Feb 1994 HG |                         |   |
| CLJ-CSS15                 |       |       |            |       |       |                         |                         |   |
| Hg                        | .493  | ppb   | .000       | .493  |       |                         |                         |   |

11:27:20 14 Feb 1994

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| Line                                        | Conc. | Units | SD/RSD     | 1     | 2       | 3      | 4 | 5                       |
|---------------------------------------------|-------|-------|------------|-------|---------|--------|---|-------------------------|
| *** Sample ID: JM3187G                      |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 35 |        |   | 11:27:20 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJ-CSS16               |
| Hg                                          | .177  | ppb   | .000       | .177  |         |        |   |                         |
| *** Check Standard: 1 Ck1                   |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 36 |        |   | 11:30:39 14 Feb 1994 HG |
| Line                                        | Flag  | Found | Range(+/-) | Units | SD/RSD  |        |   |                         |
| Hg                                          |       | .010  | .200       | ppb   | .000    |        |   |                         |
| *** Check Standard: 2 Ck2                   |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 37 |        |   | 11:34:00 14 Feb 1994 HG |
| Line                                        | Flag  | %Rcv. | Found      | True  | Units   | SD/RSD |   |                         |
| Hg                                          |       | 92.4  | 4.62       | 5.00  | ppb     | .000   |   |                         |
| *** Sample ID: JM3188G                      |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 38 |        |   | 11:37:19 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJ-CSS17               |
| Hg                                          | .122  | ppb   | .000       | .122  |         |        |   |                         |
| *** Sample ID: JM3189G                      |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 39 |        |   | 11:40:36 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJ-CSS19               |
| Hg                                          | -.044 | ppb   | .000       | -.044 |         |        |   |                         |
| *** Sample ID: JM3190G                      |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 40 |        |   | 11:43:51 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJCSS19                |
| Hg                                          | .092  | ppb   | .000       | .092  |         |        |   |                         |
| *** Sample ID: JM3191G                      |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 41 |        |   | 11:47:07 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJ-CSS20               |
| Hg                                          | .133  | ppb   | .000       | .133  |         |        |   |                         |
| *** Sample ID: JM <sup>3 SD 2-14</sup> 192G |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 42 |        |   | 11:50:23 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | CLJ-CSS21               |
| Hg                                          | -.037 | ppb   | .000       | -.037 |         |        |   |                         |
| *** Sample ID: TCLP BLANK                   |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 43 |        |   | 11:53:39 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | N7G3792                 |
| Hg                                          | .167  | ppb   | .000       | .167  |         |        |   |                         |
| *** Sample ID: Q7G3789G                     |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 44 |        |   | 11:56:55 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | MET BLANK               |
| Hg                                          | .078  | ppb   | .000       | .078  |         |        |   |                         |
| *** Sample ID: Q7G3789GS                    |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 45 |        |   | 12:00:11 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | MET SPIKE               |
| Hg                                          | 1.78  | ppb   | .000       | 1.78  |         |        |   |                         |
| *** Sample ID: JM3036GS                     |       |       |            |       |         |        |   |                         |
|                                             |       |       |            |       | Seq: 46 |        |   | 12:03:27 14 Feb 1994 HG |
|                                             |       |       |            |       |         |        |   | MTX SPIKE               |
| Hg                                          | 2.41  | ppb   | .000       | 2.41  |         |        |   |                         |

12:06:43 14 Feb 1994

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| Line  | Conc.                 | Units | SD/RSD     | 1       | 2                       | 3      | 4 | 5 |
|-------|-----------------------|-------|------------|---------|-------------------------|--------|---|---|
| ----- |                       |       |            |         |                         |        |   |   |
| ***   | Sample ID: JM3036GR   |       |            | Seq: 47 | 12:06:43 14 Feb 1994 HG |        |   |   |
|       | MTX SPIKE DUP         |       |            |         |                         |        |   |   |
| Hg    | 5.99                  | ppb   | .000       | 5.99    |                         |        |   |   |
| ***   | Check Standard: 1 Ck1 |       |            | Seq: 48 | 12:10:01 14 Feb 1994 HG |        |   |   |
| Line  | Flag                  | Found | Range(+/-) | Units   | SD/RSD                  |        |   |   |
| Hg    |                       | -.087 | .200       | ppb     | .000                    |        |   |   |
| ***   | Check Standard: 2 Ck2 |       |            | Seq: 49 | 12:13:21 14 Feb 1994 HG |        |   |   |
| Line  | Flag                  | %Rcv. | Found      | True    | Units                   | SD/RSD |   |   |
| Hg    |                       | 91.7  | 4.58       | 5.00    | ppb                     | .000   |   |   |
| ***   | Sample ID: JM3036G    |       |            | Seq: 50 | 12:16:40 14 Feb 1994 HG |        |   |   |
|       | 15372-1741            |       |            |         |                         |        |   |   |
| Hg    | .091                  | ppb   | .000       | .091    |                         |        |   |   |
| ***   | Sample ID: JM3036G    |       |            | Seq: 51 | 12:19:56 14 Feb 1994 HG |        |   |   |
|       | REPLICATE             |       |            |         |                         |        |   |   |
| Hg    | .075                  | ppb   | .000       | .075    |                         |        |   |   |
| ***   | Sample ID: JM3039G    |       |            | Seq: 52 | 12:23:11 14 Feb 1994 HG |        |   |   |
|       | 1744                  |       |            |         |                         |        |   |   |
| Hg    | .159                  | ppb   | .000       | .159    |                         |        |   |   |
| ***   | Sample ID: JM3045G    |       |            | Seq: 53 | 12:26:24 14 Feb 1994 HG |        |   |   |
|       | 1750                  |       |            |         |                         |        |   |   |
| Hg    | .115                  | ppb   | .000       | .115    |                         |        |   |   |
| ***   | Sample ID: JM3046G    |       |            | Seq: 54 | 12:29:39 14 Feb 1994 HG |        |   |   |
|       | 1751                  |       |            |         |                         |        |   |   |
| Hg    | .161                  | ppb   | .000       | .161    |                         |        |   |   |
| ***   | Sample ID: JM3231G    |       |            | Seq: 55 | 12:32:54 14 Feb 1994 HG |        |   |   |
|       | 15699G-LS-001         |       |            |         |                         |        |   |   |
| Hg    | .084                  | ppb   | .000       | .084    |                         |        |   |   |
| ***   | Sample ID: JM3232G    |       |            | Seq: 56 | 12:36:09 14 Feb 1994 HG |        |   |   |
|       | LW002                 |       |            |         |                         |        |   |   |
| Hg    | .106                  | ppb   | .000       | .106    |                         |        |   |   |
| ***   | Sample ID: TCLP BLANK |       |            | Seq: 57 | 12:39:24 14 Feb 1994 HG |        |   |   |
|       | Q7G3789               |       |            |         |                         |        |   |   |
| Hg    | .014                  | ppb   | .000       | .014    |                         |        |   |   |
| ***   | Check Standard: 1 Ck1 |       |            | Seq: 58 | 12:42:41 14 Feb 1994 HG |        |   |   |
| Line  | Flag                  | Found | Range(+/-) | Units   | SD/RSD                  |        |   |   |
| Hg    |                       | .032  | .200       | ppb     | .000                    |        |   |   |

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Line Conc. Units SD/RSD 1 2 3 4 5  
-----

\*\*\* Check Standard: 2 Ck2  
Seq: 59 12:46:01 14 Feb 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
Hg 90.5 4.52 5.00 ppb .000

\*\*\* Check Standard: 3 Ck3  
Seq: 60 12:58:18 14 Feb 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
Hg 51.1 .102 .200 ppb .000

\*\*\* Check Standard: 3 Ck3  
Seq: 61 13:03:40 14 Feb 1994 HG  
Line Flag %Rcv. Found True Units SD/RSD  
Hg 119. .239 .200 ppb .000

QC BATCH # N7G3775

0011<sup>0532</sup>

Analyst: RJF Date: 2/9/94 Method #: 7470 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> \_\_\_\_\_

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

H<sub>2</sub>SO<sub>4</sub> 30550

KMNO<sub>4</sub> 613718

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 003710

NH<sub>2</sub>OH HCL F3877

NaCl F49704

SnCl<sub>2</sub> 926783

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA \_\_\_\_\_ mL \_\_\_\_\_

Stock Hg 44

TCLP \_\_\_\_\_ mL \_\_\_\_\_

| ASC #       | Job #  | Sample ID | Vi/Wi | Vf | F | Filtered | Comments          |
|-------------|--------|-----------|-------|----|---|----------|-------------------|
| MTH BLK     |        |           | 50    | 50 |   |          |                   |
| MTH SPK     |        |           |       |    |   |          |                   |
| 1 JM3179    | 15226N | CLRS508   |       |    |   |          |                   |
| 2 3180      |        | 09        |       |    |   |          |                   |
| 3 3181      |        | 10        |       |    |   |          |                   |
| 4 3182      |        | 11        |       |    |   |          |                   |
| 5 3183      |        | 12        |       |    |   |          |                   |
| 6 3184      |        | 13        |       |    |   |          |                   |
| 7 3185      |        | 14        |       |    |   |          |                   |
| 8 3186      |        | 15        |       |    |   |          |                   |
| 9 3187      |        | 16        |       |    |   |          |                   |
| 10 3188     |        | 17        |       |    |   |          |                   |
| 11 3189     |        | 18        |       |    |   |          |                   |
| 12 3183     | ↓      | ↓ 12      | ↓     | ↓  |   |          | Replicate         |
| 13          |        |           |       |    |   |          |                   |
| 14          |        |           |       |    |   |          |                   |
| 15          |        |           |       |    |   |          |                   |
| 16          |        |           |       |    |   |          |                   |
| 17          |        |           |       |    |   |          |                   |
| 18          |        |           |       |    |   |          |                   |
| 19          |        |           |       |    |   |          |                   |
| 20          |        |           |       |    |   |          |                   |
| MTX SPK     | 15226N | CLRS+8RJF | 50    | 50 |   |          | Revised procedure |
| JM3189R     | ↓      | ↓ 12      | ↓     | ↓  |   |          |                   |
| MTX SPK DUP |        |           |       |    |   |          |                   |
| JM3183      |        |           |       |    |   |          |                   |

| Hg Standard | mL Stock | Vf | ug/L | ug/kg | Comments                |
|-------------|----------|----|------|-------|-------------------------|
| #1          |          |    |      |       | See Batch N7G-3772      |
| #2          |          |    |      |       | for TCLP Blanks         |
| #3          |          |    |      |       | samples marked out were |
| #4          |          |    |      |       | not yet tumbled.        |
| #5          |          |    |      |       |                         |

Water Bath Temp: \_\_\_\_\_

Read and Understood By \_\_\_\_\_ Date \_\_\_\_\_

QC BATCH # N7B3772B

0533  
0012

Analyst: BJF Date: 2/10/94 Method #: 3470 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> \_\_\_\_\_

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

H<sub>2</sub>SO<sub>4</sub> 30350

KMNO<sub>4</sub> 613718

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> D03710

NH<sub>2</sub>OH HCL E38717

NaCl F49704

SnCl<sub>2</sub> 926783

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL \_\_\_\_\_

HGA \_\_\_\_\_ mL \_\_\_\_\_

Stock Hg 074

TCLP \_\_\_\_\_ mL \_\_\_\_\_

| ASC #       | Job #  | Sample ID | Vi/Wi | Vf | F | Filtered | Comments             |
|-------------|--------|-----------|-------|----|---|----------|----------------------|
| MTH BLK     |        |           | 50    | 50 |   |          |                      |
| MTH SPK     |        |           |       |    |   |          |                      |
| 1 JM3169    | 15266N | CLJ0501   |       |    |   |          |                      |
| 2 3170      |        | ↓ 01A     |       |    |   |          |                      |
| 3 3171      |        | ↓ 01B     |       |    |   |          |                      |
| 4 3172      |        | CLJ0501   |       |    |   |          |                      |
| 5 3173      |        | 02        |       |    |   |          |                      |
| 6 3174      |        | 03        |       |    |   |          |                      |
| 7 3175      |        | 04        |       |    |   |          |                      |
| 8 3176      |        | 05        |       |    |   |          |                      |
| 9 3177      |        | 06        |       |    |   |          |                      |
| 10 3178     |        | 07        |       |    |   |          |                      |
| 11 ↓        | ↓      | ↓         | ↓     | ↓  |   |          | Replicate            |
| 12 —        | TCLP   | Blank     | ↓     | ↓  |   |          |                      |
| 13          |        |           |       |    |   |          |                      |
| 14          |        |           |       |    |   |          |                      |
| 15          |        |           |       |    |   |          |                      |
| 16          |        |           |       |    |   |          |                      |
| 17          |        |           |       |    |   |          |                      |
| 18          |        |           |       |    |   |          |                      |
| 19          |        |           |       |    |   |          |                      |
| 20          |        |           |       |    |   |          | Replicate<br>3-10-94 |
| MTX SPK     | 15266N | CLJ0507   | 50    | 50 |   |          |                      |
| JM3178      | ↓      | ↓         | ↓     | ↓  |   |          |                      |
| MTX SPK DLP |        |           |       |    |   |          |                      |

| Hg Standard | mL Stock | Vf | ug/L | ug/kg | Comments                                    |
|-------------|----------|----|------|-------|---------------------------------------------|
| #1          |          |    |      |       | Redo because of contamination of the sample |
| #2          |          |    |      |       |                                             |
| #3          |          |    |      |       |                                             |
| #4          |          |    |      |       |                                             |
| #5          |          |    |      |       |                                             |

Water Bath Temp.: \_\_\_\_\_

Read and Understood By \_\_\_\_\_ Date \_\_\_\_\_



0534  
0015

QC BATCH # N7G3792

Analyst: RJF Date: 2/14/94 Method #: 7430 Notebook: \_\_\_\_\_

Reagent Codes:

HNO<sub>3</sub> \_\_\_\_\_

HCl \_\_\_\_\_

H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_

H<sub>2</sub>SO<sub>4</sub> 30350

KMNO<sub>4</sub> G13718

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> D03710

NH<sub>2</sub>OH HCL E3877

NaCl F49704

SnCl<sub>2</sub> 926783

DI \_\_\_\_\_

Spike Codes:

ICP \_\_\_\_\_ mL

HGA \_\_\_\_\_ mL

Stock Hg 0774

TCLP \_\_\_\_\_ mL

| ASC #       | Job #  | Sample ID      | Vi/Wi | Vf | F | Filtered | Comments          |
|-------------|--------|----------------|-------|----|---|----------|-------------------|
| MTH BLK     |        |                | 50    | 50 |   |          |                   |
| MTH SPK     |        |                |       |    |   |          |                   |
| 1           | JM3184 | 15226N CL10513 |       |    |   |          |                   |
| 2           | 3185   |                | 14    |    |   |          |                   |
| 3           | 3186   |                | 15    |    |   |          |                   |
| 4           | 3187   |                | 16    |    |   |          |                   |
| 5           | 3188   |                | 17    |    |   |          |                   |
| 6           | 3189   |                | 18    |    |   |          |                   |
| 7           | 3190   |                | 19    |    |   |          |                   |
| 8           | 3191   |                | 20    |    |   |          |                   |
| 9           | 3192   |                | 21    |    |   |          |                   |
| 10          | 3193   |                | 22    |    |   |          |                   |
| 11          | ↓      | ↓              | ↓     | ↓  |   |          | Replicate         |
| 12          | TCLP   | BLK            | ↓     | ↓  |   |          |                   |
| 13          |        |                |       |    |   |          |                   |
| 14          |        |                |       |    |   |          |                   |
| 15          |        |                |       |    |   |          |                   |
| 16          |        |                |       |    |   |          |                   |
| 17          |        |                |       |    |   |          |                   |
| 18          |        |                |       |    |   |          |                   |
| 19          |        |                |       |    |   |          |                   |
| 20          |        |                |       |    |   |          | Benee J. Furstone |
| MTX SPK     | 15226N | CL10522        | 50    | 50 |   |          | 2-14-94           |
| JM3193      |        |                |       |    |   |          |                   |
| MTX SPK DCP | ↓      | ↓              | ↓     | ↓  |   |          |                   |

| Hg Standard | mL Stock | Vf | ug/L | ug/kg | Comments |
|-------------|----------|----|------|-------|----------|
| #1          |          |    |      |       |          |
| #2          |          |    |      |       |          |
| #3          |          |    |      |       |          |
| #4          |          |    |      |       |          |
| #5          |          |    |      |       |          |

Water Bath Temp: \_\_\_\_\_

Read and Understood By \_\_\_\_\_ Date \_\_\_\_\_

**CONVENTIONALS**

# COVER PAGE

## CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: Analytical Services CorpContract: NEESALab Code: NA Case #: NASAS #: NA SDG #: CLJ-CSS-01

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

## EPA Sample No.

## Lab Sample ID.

|                   |               |
|-------------------|---------------|
| <u>CLJ-CSS-01</u> | <u>JM3172</u> |
| <u>CLJ-CSS-02</u> | <u>JM3173</u> |
| <u>CLJ-CSS-03</u> | <u>JM3174</u> |
| <u>CLJ-CSS-04</u> | <u>JM3175</u> |
| <u>CLJ-CSS-05</u> | <u>JM3176</u> |
| <u>CLJ-CSS-06</u> | <u>JM3177</u> |
| <u>CLJ-CSS-07</u> | <u>JM3178</u> |
| <u>CLJ-CSS-08</u> | <u>JM3179</u> |
| <u>CLJ-CSS-09</u> | <u>JM3180</u> |
| <u>CLJ-CSS-10</u> | <u>JM3181</u> |
| <u>CLJ-CSS-11</u> | <u>JM3182</u> |
| <u>CLJ-CSS-12</u> | <u>JM3183</u> |
| <u>CLJ-CSS-13</u> | <u>JM3184</u> |
| <u>CLJ-CSS-14</u> | <u>JM3185</u> |
| <u>CLJ-CSS-15</u> | <u>JM3186</u> |
| <u>CLJ-CSS-16</u> | <u>JM3187</u> |
| <u>CLJ-CSS-17</u> | <u>JM3188</u> |
| <u>CLJ-CSS-18</u> | <u>JM3189</u> |
| <u>CLJ-CSS-19</u> | <u>JM3190</u> |
| <u>CLJ-CSS-20</u> | <u>JM3191</u> |

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. AnatawName: Joe AnatawDate: 2/28/94Title: Operations Manager

# COVER PAGE CONVENTIONAL 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-21

IM3192

CLJ-CSS-22

IM3193

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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: [Signature]

Name: Joe Hnatow

Date: 2/28/94

Title: Operations Manager

# CONVENTIONAL ANALYSIS DATA SHEET (I) 0538

Lab Name: *Analytical Services Corp*    Contract: *NEESA*    EPA SAMPLE #: *CLJ-CSS-0*  
 Lab Code: *NA*    Case #: *NA*    SAS #: *NA*    SDG #: *CLS-CSS-01*  
 Matrix: (soil/water) *SOIL*    Level: (low/med) *LOW*    Lab Sample ID: *JM3172*  
 % Solids: *89.6*    Date Received: *02/07/94*

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

| CAS NO. | ANALYTE          | CONCENTRATION    | C        | Q | M         |
|---------|------------------|------------------|----------|---|-----------|
|         | Reactive Cyanide | <i>10.0</i>      | <i>u</i> |   | <i>RC</i> |
|         | Reactive Sulfide | <i>10.0</i>      | <i>u</i> |   | <i>RS</i> |
|         | Flashpoint, 60°C | <i>&gt;60 °C</i> |          |   | <i>FP</i> |
|         | pH (Electrode)   | <i>6.35</i>      |          |   | <i>pH</i> |
|         |                  |                  |          |   |           |
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Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0539

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) SOIL Level: (low/med) LOW Lab Sample ID: IM3173  
 % Solids: 87.0 Date Received: 02/07/94

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 | 760°C         |   |   | FP |
|         | pH (Electrode)   | 5.53          |   |   | pH |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0540

**Lab Name:** Analytical Services Corp     **Contract:** NEESA     **EPA SAMPLE #:** CLJ-CSS-03  
**Lab Code:** NA     **Case #:** NA     **SAS #:** NA     **SDG #:** CLJ-CSS-01  
**Matrix:** (soil/water) SOIL     **Level:** (low/med) LOW     **Lab Sample ID:** JM3174  
**% Solids:** 83.7     **Date Received:** 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.33          |   |   | PH |
|         |                  |               |   |   |    |
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**Color Before:** \_\_\_\_\_     **Clarity Before:** \_\_\_\_\_     **Texture:** \_\_\_\_\_  
**Color After:** \_\_\_\_\_     **Clarity After:** \_\_\_\_\_     **Artifacts:** \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0541

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-CSS-C  
 Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
 Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: IM3175  
 % Solids: 93.2 Date Received: 02/07/94

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 | 760°C         |   |   | FP |
|         | pH (Electrode)   | 5.41          |   |   | pH |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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



# CONVENTIONAL ANALYSIS DATA SHEET (1) 0542

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-C  
Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-01  
Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: JM3176  
% Solids: 92.8 Date Received: 02/07/94

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 | 760°C         |   |   | FP |
|         | pH (Electrode)   | 5.80          |   |   | pH |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0543

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) SOIL    Level: (low/med) LOW    Lab Sample ID: IM3177  
 % Solids: 80.5    Date Received: 02/07/94

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°C        |   |   | FP |
|         | pH (Electrode)   | 6.18          |   |   | PH |
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Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0544

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) SOIL Level: (low/med) LOW Lab Sample ID: IM3178  
% Solids: 95.4 Date Received: 02/07/94

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

| CAS NO. | ANALYTE          | CONCENTRATION | C | Q | M  |
|---------|------------------|---------------|---|---|----|
|         | Reactive Cyanide | 10.0          | U |   | PC |
|         | Reactive Sulfide | 10.0          | U |   | RS |
|         | Flashpoint, 60°C | > 60°C        |   |   | FP |
|         | pH (Electrode)   | 5.80          |   |   | pH |
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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-C

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

Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: JM3179

% Solids: 93.1 Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.42          |   |   | pH |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0546

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) SOIL Level: (low/med) LOW Lab Sample ID: JM 3180  
% Solids: 80.4 Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 6.41          |   |   | PH |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0547

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-1C

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

Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: JM3181

% Solids: 91.0 Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.03          |   |   | pH |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
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# CONVENTIONAL ANALYSIS DATA SHEET (1) 0548

**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) SOIL    **Level:** (low/med) LOW    **Lab Sample ID:** JM3182  
**% Solids:** 91.0    **Date Received:** 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.42          |   |   | PH |
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**Color Before:** \_\_\_\_\_    **Clarity Before:** \_\_\_\_\_    **Texture:** \_\_\_\_\_  
**Color After:** \_\_\_\_\_    **Clarity After:** \_\_\_\_\_    **Artifacts:** \_\_\_\_\_

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





# CONVENTIONAL ANALYSIS DATA SHEET (1) 0550

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) SOIL Level: (low/med) LOW Lab Sample ID: IM3184

% Solids: 90.0

Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.42          |   |   | pH |
|         |                  |               |   |   |    |
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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-14

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

Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: JM3185

% Solids: 90.7 Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.58          |   |   | pH |
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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-16  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: CLJ-CSS-01  
 Matrix: (soil/water) SOIL    Level: (low/med) LOW    Lab Sample ID: JM3187  
 % Solids: 91.2    Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.37          |   |   | pH |
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Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0554

**Lab Name:** *Analytical Services Corp*    **Contract:** NEESA    **EPA SAMPLE #:** CLJ-CSS-1  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** CLJ-CSS-01  
**Matrix:** (soil/water) SOIL    **Level:** (low/med) LOW    **Lab Sample ID:** JM3188  
**% Solids:** 82.5    **Date Received:** 02/07/94

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°C        |   |   | FP |
|         | pH (Electrode)   | 5.34          |   |   | pH |
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**Color Before:** \_\_\_\_\_      **Clarity Before:** \_\_\_\_\_      **Texture:** \_\_\_\_\_  
**Color After:** \_\_\_\_\_      **Clarity After:** \_\_\_\_\_      **Artifacts:** \_\_\_\_\_  
**COMMENTS:** \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0555

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLJ-CSS-18  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: CLJ-CSS-01  
 Matrix: (soil/water) SOIL    Level: (low/med) LOW    Lab Sample ID: JM3189  
 % Solids: 95.1    Date Received: 02/07/94

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°C        |   |   | FP |
|         | pH (Electrode)   | 6.20          |   |   | pH |
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Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1) 0556

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) SOIL Level: (low/med) LOW Lab Sample ID: JM3190

% Solids: 89.7 Date Received: 02/07/94

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°C        |   |   | FP |
|         | pH (Electrode)   | 5.31          |   |   | pH |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

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

# CONVENTIONAL ANALYSIS DATA SHEET (1)

0557

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: CLJ-CSS-2C

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

Matrix: (soil/water) SOIL Level: (low/med) LOW Lab Sample ID: IM3191

% Solids: 82.8

Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.82          |   |   | pH |
|         |                  |               |   |   |    |
|         |                  |               |   |   |    |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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





# CONVENTIONAL ANALYSIS DATA SHEET (1) <sup>0559</sup>

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) SOIL Level: (low/med) LOW Lab Sample ID: JM3193  
% Solids: 86.8 Date Received: 02/07/94

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°C         |   |   | FP |
|         | pH (Electrode)   | 5.93          |   |   | pH |
|         |                  |               |   |   |    |
|         |                  |               |   |   |    |
|         |                  |               |   |   |    |
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Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

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



# BLANKS (3)

0561

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

# BLANKS (3)

0562

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: LI-CSS-0

Prep Blank Matrix: (soil/water) WATER

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

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









# SPIKE SAMPLE RECOVERY (5A)

0566

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) SOIL Level (low/med): LOW % Solids for Sample: 89.5

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 |                  |                           |   |                    |   |                  |      |   |    |
| Reactive Sulfide |                  | 5.99                      |   | 10.0               | U |                  | 85.7 |   | RS |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |
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|                  |                  |                           |   |                    |   |                  |      |   |    |
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|                  |                  |                           |   |                    |   |                  |      |   |    |
|                  |                  |                           |   |                    |   |                  |      |   |    |

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

# SPIKE SAMPLE RECOVERY (5A)

0567

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLI-DS-01  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: CLJ-SS-C  
 Matrix: (soil/water) SOIL      Level (low/med): LOW      % Solids for Sample: 88.5

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 |                  |                           |   |                    |   |                  |     |   |    |
| Reactive Sulfide |                  | 5.64                      |   | 10.0               | U | 6.99             | 807 |   | RS |
|                  |                  |                           |   |                    |   |                  |     |   |    |
|                  |                  |                           |   |                    |   |                  |     |   |    |
|                  |                  |                           |   |                    |   |                  |     |   |    |
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|                  |                  |                           |   |                    |   |                  |     |   |    |
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COMMENTS: \_\_\_\_\_

# DUPLICATES (6)

0568

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-DS-0

Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-0

Matrix: (soil/water) SOIL % Solids for Sample: 88.5

Level (low/med): LOW % Solids for Duplicate: 88.5

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 |               |           |   |               |   |      |   |    |
| Reactive Sulfide |               | 5.64      |   | 5.63          |   | .177 |   | BS |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
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|                  |               |           |   |               |   |      |   |    |
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|                  |               |           |   |               |   |      |   |    |
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|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
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# DUPLICATES (6)

0569

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: CLJ-CSS-15

Lab Code: NA Case #: NA SAS #: NA SDG #: CLJ-CSS-0

Matrix: (soil/water) SOIL % Solids for Sample: 89.5

Level (low/med): LOW % Solids for Duplicate: 89.5

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 |               |           |   |               |   |     |   |    |
| Reactive Sulfide |               | 5.99      |   | 5.99          |   | 0   |   | RS |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
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|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |
|                  |               |           |   |               |   |     |   |    |

# DUPLICATES (6)

0570

Lab Name: Analytical Services Corp

Contract: NEESA

EPA Sample #: CLJ-DS-0

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-0

Matrix: (soil/water) SOIL

% Solids for Sample: 88.5

Level (low/med): LOW

% Solids for Duplicate: 88.5

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 |               | 122       |   | 113           |   | 7.66 |   | 20 |
| Reactive Sulfide |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |

# DUPLICATES (6)

0571

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) SOIL      % Solids for Sample: 95.4  
Level (low/med): LOW      % Solids for Duplicate: 95.4

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 |               | 116       |   | 118           |   | 1.71 |   | RC |
| Reactive Sulfide |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |
|                  |               |           |   |               |   |      |   |    |

# LABORATORY CONTROL SAMPLE (7)      0572

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *CLJ-CSS-0*

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

Aqueous LCS Source: *CV-0039*

| ANALYTE          | AQUEOUS (ug/L) |             |             | SOLID (mg/kg) |       |   |        |     |
|------------------|----------------|-------------|-------------|---------------|-------|---|--------|-----|
|                  | True           | Found       | % R         | True          | Found | C | Limits | % R |
| Reactive Cyanide |                |             |             |               |       |   |        |     |
| Reactive Sulfide | <i>6.99</i>    | <i>5.99</i> | <i>85.6</i> |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |
|                  |                |             |             |               |       |   |        |     |

# LABORATORY CONTROL SAMPLE (7)

0573

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-c

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

Aqueous LCS Source: CV-0039

| ANALYTE          | AQUEOUS (ug/L) |       |      | SOLID (mg/kg) |       |   |        |     |
|------------------|----------------|-------|------|---------------|-------|---|--------|-----|
|                  | True           | Found | % R  | True          | Found | C | Limits | % R |
| Reactive Cyanide |                |       |      |               |       |   |        |     |
| Reactive Sulfide | 6.99           | 5.99  | 85.6 |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
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|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |





LABORATORY CONTROL SAMPLE (7)

0575

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLI-CSS-0

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

Aqueous LCS Source: CV0065

| ANALYTE          | AQUEOUS (ug/L) |       |      | SOLID (mg/kg) |       |   |        |     |
|------------------|----------------|-------|------|---------------|-------|---|--------|-----|
|                  | True           | Found | % R  | True          | Found | C | Limits | % R |
| Reactive Cyanide | 188            | 125   | 66.4 |               |       |   |        |     |
| Reactive Sulfide |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
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|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |
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|                  |                |       |      |               |       |   |        |     |
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|                  |                |       |      |               |       |   |        |     |
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|                  |                |       |      |               |       |   |        |     |
|                  |                |       |      |               |       |   |        |     |

# PREPARATION LOG (13)

0576

Lab Name: *Analytical Services Corp*

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RS

| EPA SAMPLE NUMBER | PREPARATION DATE | WEIGHT (GRAM) | VOLUME (mL) |
|-------------------|------------------|---------------|-------------|
| CLJ-DS-01         | 2-10-94          | 10.01         |             |
| CLJ-DS-01A        | 2-10-94          | 10.00         |             |
| CLJ-DS-01B        | 2-10-94          | 10.03         |             |
| CLJ-CSS-01        | 2-10-94          | 10.02         |             |
| CLJ-CSS-02        | 2-10-94          | 10.00         |             |
| CLJ-CSS-03        | 2-10-94          | 10.03         |             |
| CLJ-CSS-04        | 2-10-94          | 10.01         |             |
| CLJ-CSS-05        | 2-10-94          | 10.00         |             |
| CLJ-CSS-06        | 2-10-94          | 10.02         |             |
| CLJ-CSS-07        | 2-10-94          | 10.04         |             |
| CLJ-CSS-08        | 2-10-94          | 10.03         |             |
| CLJ-CSS-09        | 2-10-94          | 10.00         |             |
| CLJ-CSS-10        | 2-10-94          | 10.02         |             |
| CLJ-CSS-11        | 2-10-94          | 10.02         |             |
| CLJ-CSS-12        | 2-10-94          | 10.01         |             |
| CLJ-CSS-13        | 2-10-94          | 10.03         |             |
| CLJ-CSS-14        | 2-10-94          | 10.01         |             |
| PBW               | 2-10-94          |               | 10ml        |
| LCS               | 2-10-94          |               | 10ml        |
|                   |                  |               |             |
|                   |                  |               |             |
|                   |                  |               |             |
|                   |                  |               |             |
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|                   |                  |               |             |

# PREPARATION LOG (13)

0577

Lab Name: *Analytical Services Corp*    Lab Code: NA    Contract: NFESA  
Case #: NA    SAS #: NA    SDG #: CLJ-CSS-01    Method: BS

| EPA SAMPLE NUMBER | PREPARATION DATE | WEIGHT (GRAM) | VOLUME (mL) |
|-------------------|------------------|---------------|-------------|
| CLJ-CSS-15        | 2-11-94          | 10.01         |             |
| CLJ-CSS-16        | 2-11-94          | 10.06         |             |
| CLJ-CSS-17        | 2-11-94          | 10.03         |             |
| CLJ-CSS-18        | 2-11-94          | 10.00         |             |
| CLJ-CSS-19        | 2-11-94          | 10.06         |             |
| CLJ-CSS-20        | 2-11-94          | 10.02         |             |
| CLJ-CSS-21        | 2-11-94          | 10.01         |             |
| CLJ-CSS-22        | 2-11-94          | 10.04         |             |
| PBW               | 2-11-94          |               | 10 ml       |
| LCS               | 2-11-94          |               | 10 ml       |
|                   |                  |               |             |
|                   |                  |               |             |
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PREPARATION LOG (13)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RC

| EPA SAMPLE NUMBER | PREPARATION DATE | WEIGHT (GRAM) | VOLUME (mL) |
|-------------------|------------------|---------------|-------------|
| CLJ-DS-01         | 2-16-94          | 10.00         |             |
| CLJ-DS-01A        | 2-16-94          | 10.01         |             |
| CLJ-DS-01B        | 2-16-94          | 10.03         |             |
| CLJ-CSS-01        | 2-16-94          | 10.00         |             |
| CLJ-CSS-02        | 2-16-94          | 10.01         |             |
| CLJ-CSS-03        | 2-16-94          | 10.03         |             |
| CLJ-CSS-04        | 2-16-94          | 10.05         |             |
| CLJ-CSS-05        | 2-16-94          | 10.03         |             |
| CLJ-CSS-06        | 2-16-94          | 10.00         |             |
| DBW               | 2-16-94          |               | 10 ml       |
| LCS               | 2-16-94          |               | 10 ml       |
|                   |                  |               |             |
|                   |                  |               |             |
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# PREPARATION LOG (13)

0579

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RC

| EPA SAMPLE NUMBER | PREPARATION DATE | WEIGHT (GRAM) | VOLUME (mL) |
|-------------------|------------------|---------------|-------------|
| CLJ-CSS-07        | 2-17-94          | 10.00         |             |
| CLJ-CSS-08        | 2-17-94          | 10.06         |             |
| CLJ-CSS-09        | 2-17-94          | 10.00         |             |
| CLJ-CSS-10        | 2-17-94          | 10.01         |             |
| CLJ-CSS-11        | 2-17-94          | 10.03         |             |
| CLJ-CSS-12        | 2-17-94          | 10.02         |             |
| CLJ-CSS-13        | 2-17-94          | 10.01         |             |
| CLJ-CSS-14        | 2-17-94          | 10.04         |             |
| CLJ-CSS-15        | 2-17-94          | 10.00         |             |
| CLJ-CSS-16        | 2-17-94          | 10.03         |             |
| CLJ-CSS-17        | 2-17-94          | 10.05         |             |
| CLJ-CSS-18        | 2-17-94          | 10.01         |             |
| CLJ-CSS-19        | 2-17-94          | 10.04         |             |
| CLJ-CSS-20        | 2-17-94          | 10.01         |             |
| CLJ-CSS-21        | 2-17-94          | 10.04         |             |
| CLJ-CSS-22        | 2-17-94          | 10.00         |             |
| PBW               | 2-17-94          |               | 10 ml       |
| LCS               | 2-17-94          |               | 10 ml       |
|                   |                  |               |             |
|                   |                  |               |             |
|                   |                  |               |             |
|                   |                  |               |             |
|                   |                  |               |             |
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|                   |                  |               |             |

## CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RS

Instrument ID Number: \_\_\_\_\_

Start Date: 2/10/94

End Date: 2/10/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | p<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS               |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PBW               |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01         |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01A        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01B        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-01        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-02        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-03        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-04        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-05        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-06        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-07        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-08        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-09        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-10        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |







# CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-01

Method: FP

Instrument ID Number: \_\_\_\_\_

Start Date: 2/10/94

End Date: 2/11/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | p<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-10        |     | 1317 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-11        |     | 1322 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-12        |     | 1330 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-13        |     | 1332 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-14        |     | 1335 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV               |     | 1305 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-15        |     | 1318 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-16        |     | 1321 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-17        |     | 1330 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-18        |     | 1345 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-19        |     | 1349 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-20        |     | 1355 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-21        |     | 1400 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-22        |     | 1410 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XXXXX             |     | 1418 |     |          |        |        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |

# CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RS

Instrument ID Number: \_\_\_\_\_

Start Date: 2/11/94

End Date: 2/11/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | P<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS               |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| PBW               |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-15        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-15S       |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-15D       |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-16        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-17        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-18        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-19        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-20        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-21        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-22        |     |      |     |          | X      |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |

## CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLI-CSS-01

Method: pH

Instrument ID Number: \_\_\_\_\_

Start Date: 2/15/94

End Date: 2/15/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | p<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-11        |     | 1119 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-12        |     | 1122 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-13        |     | 1124 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-14        |     | 1126 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-15        |     | 1127 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-16        |     | 1129 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-17        |     | 1131 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-18        |     | 1133 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-19        |     | 1134 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-20        |     | 1137 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-21        |     | 1139 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLI-CSS-22        |     | 1142 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV               |     | 1145 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |

# CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAB #: NA

SDG #: CLJ-CSS-01

Method: pH

Instrument ID Number: \_\_\_\_\_

Start Date: 2/15/94

End Date: 2/15/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | P<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICV               |     | 1020 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01         |     | 1045 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-01        |     | 1046 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01A        |     | 1049 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XXXXX             |     | 1051 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01B        |     | 1054 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-02        |     | 1055 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-03        |     | 1057 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-04        |     | 1100 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-05        |     | 1106 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-06        |     | 1108 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-07        |     | 1110 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-08        |     | 1113 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-09        |     | 1116 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-10        |     | 1118 |     |          |        | X      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |

## CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: \_\_\_\_\_

Method: BC

Instrument ID Number: \_\_\_\_\_

Start Date: 2/16/94

End Date: 2/16/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | P<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01S        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01D        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01         |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS               |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01A        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-DS-01B        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-01        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-02        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-03        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-04        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-05        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-06        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PBW               |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |      |     |          |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |

## CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp

Lab Code: NA

Contract: NEESA

Case #: NA

SAS #: NA

SDG #: CLJ-CSS-01

Method: RC

Instrument ID Number: \_\_\_\_\_

Start Date: 2/17/94

End Date: 2/17/94

| EPA Sample Number | D/F | Time | % R | Analytes |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|------|-----|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   |     |      |     | R<br>C   | R<br>S | p<br>H | F<br>P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PBW               |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS               |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-07S       |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-07D       |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-08        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-09        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-10        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-11        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-12        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-13        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-14        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-15        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-16        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-17        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLJ-CSS-18        |     |      |     | X        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





REACTIVE SULFIDE

Book No: \_\_\_\_\_

Date: 2-10-94

Initials: SED

Batch # N2I3266

Q2I3266 ~~WTD~~

| JD NUMBER | PROJECT NUMBER | SAMPLE NUMBER | SAMPLE WEIGHT | FLOW        | ACID       | RX TIME | DRAGGARD | RESULTS |
|-----------|----------------|---------------|---------------|-------------|------------|---------|----------|---------|
|           |                | SPK =         | 18mm x        | 3.33<br>2ml | 299<br>360 | = 83%   |          |         |
|           |                | Blank         | QC            | 60ml<br>min | 3ml        | 30min   | 0mm      | ND      |
| Jm 3169   | 15226N         | CLS-DS-01     | 10.01         | 60ml<br>min | 3ml        | 30min   | 0mm      | ND      |
| Jm 3170   |                | CLS-DS-01A    | 10.00         |             |            |         | 0mm      |         |
| Jm 3171   |                | CLS-DS-01B    | 10.03         |             |            |         | 0mm      |         |
| Jm 3172   |                | CLS-CSS-01    | 10.02         |             |            |         | 0mm      |         |
| Jm 3173   |                | CLS-CSS-02    | 10.00         |             |            |         | 0mm      |         |
| Jm 3174   |                | CLS-CSS-03    | 10.03         |             |            |         | 0mm      |         |
| Jm 3175   |                | CLS-CSS-04    | 10.01         |             |            |         | 0mm      |         |
| Jm 3176   |                | CLS-CSS-05    | 10.00         |             |            |         | 0mm      |         |
| Jm 3177   |                | CLS-CSS-06    | 10.02         |             |            |         | 0mm      |         |
| Jm 3178   |                | CLS-CSS-07    | 10.04         |             |            |         | 0mm      |         |
| Jm 3179   |                | CLS-CSS-08    | 10.03         |             |            |         | 0mm      |         |
| Jm 3180   |                | CLS-CSS-09    | 10.00         |             |            |         | 0mm      |         |
| Jm 3181   |                | CLS-CSS-10    | 10.02         |             |            |         | 0mm      |         |
| Jm 3182   |                | CLS-CSS-11    | 10.02         |             |            |         | 0mm      |         |
| Jm 3183   |                | CLS-CSS-12    | 10.01         |             |            |         | 0mm      |         |
| Jm 3184   |                | CLS-CSS-13    | 10.03         |             |            |         | 0mm      |         |
| Jm 3185   |                | CLS-CSS-14    | 10.01         | ↓           | ↓          | ↓       | 0mm      | ↓       |
| Jm 3169   | DUP            |               | 10.04         | ↓           | ↓          | ↓       | 17mm     | 78.6    |
| Jm 3169   | MTX            |               | 10.06         | ↓           | ↓          | ↓       | 17mm     | 78.6    |

Reagents:

1.005N H<sub>2</sub>SO<sub>4</sub> - 280067  
SPK = 200039  
200 ml spike added

Wade T. DeLong  
 Read and Understood By

2-21-94

(Date)

2-22-94  
 5.64 WTD  
 2-22-94  
 5.63  
 2-22-94

REACTIVE SULFIDE

Book No: \_\_\_\_\_

Date: 2-11-94

Initials: SED

Batch # N2I 3286 <sup>3289</sup> ~~3286~~ <sub>2-21-94</sub>

| JD NUMBER             | PROJECT NUMBER | SAMPLE NUMBER | SAMPLE WEIGHT | FLOW                                | ACID                     | RX TIME   | DRAGGARD | RESULTS |
|-----------------------|----------------|---------------|---------------|-------------------------------------|--------------------------|-----------|----------|---------|
|                       |                | SPK =         | 18.00 g       | $\frac{3.35}{.2 \text{ ml}} \times$ | $\frac{299}{300} \times$ | 100 = 83% |          |         |
|                       |                | Blank         | 10.00 g       | $\frac{60 \text{ ml}}{\text{min}}$  | 3 ml                     | 30 min    | 0 mm     |         |
| Jm 3186               | 015226N        | CLS-CSS-15    | 10.01 g       | $\frac{60 \text{ ml}}{\text{min}}$  | 3 ml                     | 30 min    | 0 mm     |         |
| Jm 3186               |                | MTX           | 10.00 g       |                                     |                          |           | 18 mm    |         |
| Jm 3186               |                | DJP           | 10.00 g       |                                     |                          |           | 18 mm    |         |
| Jm 3187               |                | CLS-CSS-16    | 10.06 g       |                                     |                          |           | 0 mm     |         |
| Jm 3188               |                | CLS-CSS-17    | 10.03 g       |                                     |                          |           | 0 mm     |         |
| Jm 3189               |                | CLS-CSS-18    | 10.00 g       |                                     |                          |           | 0 mm     |         |
| Jm 3190               |                | CLS-CSS-19    | 10.06 g       |                                     |                          |           | 0 mm     |         |
| Jm 3191               |                | CLS-CSS-20    | 10.02 g       |                                     |                          |           | 0 mm     |         |
| Jm 3192               |                | CLS-CSS-21    | 10.01 g       |                                     |                          |           | 0 mm     |         |
| Jm 3193               |                | CLS-CSS-22    | 10.04 g       |                                     |                          |           | 0 mm     |         |
|                       |                |               |               |                                     |                          |           |          |         |
| Steven Dutton 2-11-94 |                |               |               |                                     |                          |           |          |         |

Reagents:

(COSEN H<sub>2</sub>SO<sub>4</sub>) CRO067

SPK = CV0039

200 ml spiked

Wade T. DeLong  
Read and Understood By

2-21-94  
(Date)

# REACTIVE CYANIDE ANALYSIS

004

Date: 2/16/94  
 Analyst: SED  
 QC Batch #: N2E3287  
 PARM #: B059  
 Curve ID: CVSTD

Spike Lot: CU0065  
 Spike Vol Added: 10ml

Reagents Lot #  
 Rhodanine Ind.: CR0069  
 H<sub>2</sub>SO<sub>4</sub>: CR0068  
 NaOH: CR0053  
 AgNO<sub>3</sub>: CV0069  
 ThymolBlue Ind.: CR0077

| ASC Project Number | Sample Point | Facility Code | Initial Vol./Wt.   | Final Volume | Volume to Titrate | Volume of Titrant | Normality of Titrant | Time On/Time Off | Results                   |
|--------------------|--------------|---------------|--------------------|--------------|-------------------|-------------------|----------------------|------------------|---------------------------|
| JM 3169            | MTX          | 15226N        | 10.01              | 250ml        | 100ml             | 2.05ml            | .0141                | 8:40am - 10:10am | 122.1<br>126.17<br>125.75 |
| JM 3169            | Dup          |               | 10.03              |              |                   | 1.90 ml           |                      |                  |                           |
| JM 3169            | Blank        |               | 10.00 <sup>g</sup> |              |                   | 0.05ml            |                      |                  | ND                        |
|                    | Spike        |               | 10 ml              |              |                   | 2.25ml            |                      |                  | 134.4                     |
| JM 3170            | CLS-AS-01A   |               | 10.01 <sup>g</sup> |              |                   | .05ml             |                      | 10:26am - 11:57  | ND                        |
| JM 3171            | CLS-AS-01B   |               | 10.03 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
| JM 3172            | CLS-CSS-01   |               | 10.00 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
| JM 3173            | CLS-CSS-02   |               | 10.01 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
| JM 3174            | CLS-CSS-03   |               | 10.03 <sup>g</sup> |              |                   | .05ml             |                      | 1:10 pm - 2:43   | ND                        |
| JM 3175            | CLS-CSS-04   |               | 10.05 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
| JM 3176            | CLS-CSS-05   |               | 10.03 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
| JM 3177            | CLS-CSS-06   |               | 10.00 <sup>g</sup> |              |                   | .05ml             |                      |                  | ND                        |
|                    | Blank        | QC            |                    | 250ml        | 100ml             | .05ml             |                      |                  | ND                        |
|                    |              |               |                    |              |                   |                   |                      |                  | 2-16-94                   |

Comments: USED 10ml of CV SPK (Stock) For MTX & Dup

  
 Read and Understood by \_\_\_\_\_ Date: 2-21-94

# REACTIVE CARBONIDE ANALYSIS

Date: 2/17/94  
 Analyst: SEL  
 QC Batch #: N2F3288  
 PARM #: B059  
 Curve ID: CVSTD


Spike Lot: CV0065  
 Spike Vol Added: 10ml

Reagents Lot #  
 Rhodanine Ind.: CR0069  
 H<sub>2</sub>SO<sub>4</sub>: CR0068  
 NaOH: CR0079  
 AgNO<sub>3</sub>: CV0069  
 ThymolBlue Ind.: CR0077

| ASC Project Number | Sample Point | Facility Code | Initial Vol./Wt.   | Final Volume | Volume to Titrant | Volume of Titrant | Normality of Titrant | Time On/Time Off  | Results |
|--------------------|--------------|---------------|--------------------|--------------|-------------------|-------------------|----------------------|-------------------|---------|
|                    | Blank        | QC            |                    | 250ml        | 100ml             | .05ml             | .0141                | —                 | ND      |
|                    | Spike        |               | 10.0ml             |              |                   | 2.10 ml           |                      | 7:38 am - 9:10 am | 125     |
| JM3178             | MTY          | 15226N        | 10.01 <sup>g</sup> |              |                   | 1.95ml            |                      |                   | 116     |
| JM3178             | DUP          |               | 10.03 <sup>g</sup> |              |                   | 2.00 ml           |                      |                   | 118     |
| JM3178             | CLS-CSS-07   |               | 10.00 <sup>g</sup> |              |                   | .05ml             |                      |                   | ND      |
| JM3179             | CLS-CSS-08   |               | 10.06 <sup>g</sup> |              |                   | .05ml             |                      | 9:20 am - 10:52   |         |
| JM3180             | CLS-CSS-09   |               | 10.00 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3181             | CLS-CSS-10   |               | 10.01 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3182             | CLS-CSS-11   |               | 10.03 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3183             | CLS-CSS-12   |               | 10.02 <sup>g</sup> |              |                   | .05ml             |                      | 11:04 am - 12:38  |         |
| JM3184             | CLS-CSS-13   |               | 10.01 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3185             | CLS-CSS-14   |               | 10.04 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3186             | CLS-CSS-15   |               | 10.00 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3187             | CLS-CSS-16   |               | 10.03 <sup>g</sup> |              |                   | .05ml             |                      | 1:05 - 2:37 pm    |         |
| JM3188             | CLS-CSS-17   |               | 10.05 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3189             | CLS-CSS-18   |               | 10.01 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |
| JM3190             | CLS-CSS-19   |               | 10.04 <sup>g</sup> |              |                   | .05ml             |                      |                   |         |

Comments:

\* Page 1 of 2

  
 Read and Understood by \_\_\_\_\_ Date 2-21-94

# REACTIVE CARBON NITRIDE ANALYSIS

010

Date: 2/17/94  
 Analyst: SED  
 QC Batch #: N2T3208  
 PARM #: B059  
 Curve ID: CVSTD

Spike Lot: CV0065  
 Spike Vol Added: 10ml

Reagents Lot #  
 Rhodanine Ind.: CR0069  
 H<sub>2</sub>SO<sub>4</sub>: CR0068  
 NaOH: CR0079  
 AgNO<sub>3</sub>: CV0069  
 ThymolBlue Ind.: CR0077

| ASC Project Number                                                                                                                                  | Sample Point | Facility Code | Initial Vol./Wt. | Final Volume | Volume to Titrate | Volume of Titrant | Normality of Titrant | Time On/Time Off | Results |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|--------------|-------------------|-------------------|----------------------|------------------|---------|
| Jm 3191                                                                                                                                             | CLJ-CSS-20   | 15226N        | 10.01 g          | 250ml        | 100ml             | .05ml             | .0141                | 2:45pm - 4:15    | ND      |
| Jm 3192                                                                                                                                             | CLJ-CSS-21   | ↓             | 10.04 g          | 250ml        | 100ml             | .05ml             | .0141                | ↓                | ND      |
| Jm 3193                                                                                                                                             | CLJ-CSS-22   | ↓             | 10.00 g          | 250ml        | 100ml             | .05ml             | .0141                | ↓                | ND      |
| <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>St. John's College<br/>2-17-94</p> </div> |              |               |                  |              |                   |                   |                      |                  |         |

Comments: \* Page 2 of 2

Wade T. Dolony 2-21-94  
 Read and Understood by \_\_\_\_\_ Date: \_\_\_\_\_

FLASH POINT - SETA FLASH

p-Xylene      2V0063      QC      SED      9:10      2/10/94  
 Sample ID      Project #      Sample Point      Analyst      Time      Date

Unit Setpoint Temperature: 26 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3169      15226N      CLJ-05-01      SED      10:00      2/10/94  
 Sample ID      Project #      Sample Point      Analyst      Time      Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3170      15226N      CLJ-05-01A      SED      10:03      2/10/94  
 Sample ID      Project #      Sample Point      Analyst      Time      Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3171      15226N      CLJ-05-01B      SED      10:10      2/10/94  
 Sample ID      Project #      Sample Point      Analyst      Time      Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade D. Long      Date: 2-21-94  
 (C:\WP50\FORMS\SETA.201)

## FLASH POINT - SETA FLASH

JM 3172    15226N    CLJ-CSS-01    SED    10:14    2 / 10 / 94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM 3173    15226N    CLJ-CSS-02    SED    10:16    2 / 10 / 94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM 3174    15226N    CLJ-CSS-03    SED    10:20    2 / 10 / 94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM 3175    15226N    CLJ-CSS-04    SED    10:22    2 / 10 / 94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong  
 (C:\WP50\FORMS\SETA.201)

Date: 2-21-94

FLASH POINT - SETA FLASH

JM3176 15226N CLJ-CSS-05 SED 10:25 2/10/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3177 15226N CLJ-CSS-06 SED 10:28 2/10/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3197 300553 2 SED 10:45 2/10/93 94  
Sample ID Project # Sample Point Analyst Time Date SD

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3196 300553 1 SED 10:50 2/10/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94  
(C:\WP50\FORMS\SETA.201)



FLASH POINT - SETA FLASH

Jm 3178    015226N    CLS-CSS-07    SED    1.05    2/10/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3179    015226N    CLS-CSS-08    SED    1.08    2/10/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3180    015226N    CLS-CSS-09    SED    1.14    2/10/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Jm 3181    015226N    CLS-CSS-10    SED    1.17    2/10/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94  
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

SM 3182    015226N    CLJ-CSS-11    SED    1:22    2/10/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

SM 3183    015226N    CLJ-CSS-12    SED    1:30    2/20/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

SM 3184    015226N    CLJ-CSS-13    SED    1:32    2/20/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

SM 3185    015226N    CLJ-CSS-14    SED    1:35    2/20/94  
Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94  
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

p-Xylene CV6063 QC SED 105 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: ~~60~~ °C 27<sup>SP</sup>

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3186 015226N CLS-CSS-15 SED 1:18 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3187 015226N CLS-CSS-16 SED 1:21 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

JM3188 15226N CLS-CSS-16 17<sup>SP</sup> SED 1:30 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. Dolan Date: 2-21-94  
(C:\WP50\FORMS\SETA.201)

## FLASH POINT - SETA FLASH

QC IS IN Previous Book

JM3189    15226N    CLJ-CSS-18    SED    1.45    2/11/94  
 Sample ID    Project #    Sample Point    Analyst    Time    Date

Unit Setpoint Temperature: 60 °Cp-Xylene Reaction: Positive Flash  Negative Flash Sample Reaction: Positive Flash  Negative Flash 

JM3190    15226N    CLJ-CSS-18-19    SED    1.49    2/11/94  
 Sample ID    Project #    Sample Point<sup>SP</sup>    Analyst    Time    Date

Unit Setpoint Temperature: 60 °Cp-Xylene Reaction: Positive Flash  Negative Flash Sample Reaction: Positive Flash  Negative Flash 

JM3191    15226N    CLJ-CSS-20    SED    1.55    2/11/94  
 Sample ID    Project #    Sample Point<sup>SP</sup>    Analyst    Time    Date

Unit Setpoint Temperature: 60 °Cp-Xylene Reaction: Positive Flash  Negative Flash Sample Reaction: Positive Flash  Negative Flash 

JM3192    15226N    CLJ-CSS-20-21    SED    2.00    2/11/94  
 Sample ID    Project #    Sample Point<sup>SP</sup>    Analyst    Time    Date

Unit Setpoint Temperature: 60 °Cp-Xylene Reaction: Positive Flash  Negative Flash Sample Reaction: Positive Flash  Negative Flash 

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong    Date: 2-24-94  
 (M:\WPCORP\FORMS\SETA.201)

FLASH POINT - SETA FLASH

SM 3193 15226N CLS-25-22 SED 2:10 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

SM 3034 15742 008 SED 2:18 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

SM 3220 14344C 11030 SED 2:30 2/11/94  
Sample ID Project # Sample Point Analyst Time Date

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash  Negative Flash

Sample Reaction: Positive Flash  Negative Flash

~~Sample ID Project # Sample Point Analyst Time Date~~

~~Unit Setpoint Temperature: \_\_\_\_\_ °C~~

~~p-Xylene Reaction: Positive Flash  Negative Flash~~

~~Sample Reaction: Positive Flash  Negative Flash~~

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-24-94  
(M:\WPCORP\FORMS\SETA.201)

WTD  
2-24-94

pH

CP CP 10:17 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.01

Slope: 92.4 mV Temperature: 22.3 °C Ph Meter: Beckman

Comments: PL # 700 buffer - CV 0050 - 10 buffer - CV. 0051

AM3345 12358 RW-1 CP 10:51 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.45

Slope: 100.9 mV Temperature: 17.4 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

AM3169 15226N CLS-DS-01 CP 10:45 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.03

Slope: 141.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

AM3176 15226N CLS-DS-01A CP 10:49 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.24

Slope: 100.9 mV Temperature: 21.8 °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: 2.24.94  
 (C:\WP50\FORMS\pH.201)

pH

AM3171 15226N CLS-DS-01B CP 10:54 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.89

Slope: 100.9 mV Temperature: 21.6 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

AM3172 15226N CLS-CSS-01 CP 10:46 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.35

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

AM3173 15226N CLS-CSS-02 CP 10:55 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.53

Slope: 100.9 mV Temperature: 21.1 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

AM3174 15226N CLS-CSS-03 CP 10:57 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.33

Slope: 100.9 mV Temperature: 19.6 °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: 2-24-94  
 (C:\WP50\FORMS\PH.201)

pH

JM3175 15226N CLS-CSS04 CP 11:00 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.41

Slope: 100.9 mV Temperature: 21.2°C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3174 15226N CLS-CSS05 CP 11:06 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.80

Slope: 100.9 mV Temperature: 21.7°C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3177 15226N CLS-CSS06 CP 11:08 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.18

Slope: 100.9 mV Temperature: 21.8°C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3178 15226N CLS-CSS07 CP 11:10 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.80

Slope: 110.9 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: 2-24-94  
 (C:\WP50\FORMS\pH.201)



pH

JM3179 15226N CLS-CSS-08 CP 11:13 2/15/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.42

Slope: 140.9 mV Temperature: 20.9 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3180 15226N CLS-CSS-09 CP 11:16 2/15/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.41

Slope: 140.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3181 15226N CLS-CSS-10 CP 11:18 2/15/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.03

Slope: 140.9 mV Temperature: 21.3 °C Ph Meter: Beckman

Comments: \_\_\_\_\_

JM3182 15226N CLS-CSS-11 CP 11:19 2/15/94  
Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.40

Slope: 140.9 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: 2.24.94  
(C:\WP50\FORMS\pH.201)

pH

JM3183 15226N CLS.CSS-12 CP 11:22 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.97

Slope: 100.9 mV Temperature: 22.8 °C Ph Meter: Budna

Comments:

JM3184 15226N CLS.CSS-13 CP 11:24 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.42

Slope: 140.9 mV Temperature: 20.9 °C Ph Meter: Budna

Comments:

JM3185 15226N CLS.CSS-14 CP 11:26 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.58

Slope: 100.9 mV Temperature: 21.0 °C Ph Meter: Budna

Comments:

JM3186 15226N CLS.CSS-15 CP 11:27 2/15/94 ↓  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.45

Slope: 140.9 mV Temperature: 21.0 °C Ph Meter: Budna

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94  
 (C:\WP50\FORMS\pH.201)

pH

AM3187   15226N   CLS-CSS-16   CP   11:29   2/15/94  
 Sample ID   Project #   Sample Point   Analyst   Time   Date

pH 4.0    pH 7.0    pH 10.0

Sample pH 5.37

Slope: 160.9 mV   Temperature: 19.8 °C   Ph Meter: Beckman

Comments:

AM3188   15226N   CLS-CSS-17   CP   11:31   2/15/94  
 Sample ID   Project #   Sample Point   Analyst   Time   Date

pH 4.0    pH 7.0    pH 10.0

Sample pH 5.34

Slope: 111.9 mV   Temperature: 21.6 °C   Ph Meter: Beckman

Comments:

AM3189   15226N   CLS-CSS-18   CP   11:35   2/15/94  
 Sample ID   Project #   Sample Point   Analyst   Time   Date

pH 4.0    pH 7.0    pH 10.0

Sample pH 6.20

Slope: 110.9 mV   Temperature: 22.1 °C   Ph Meter: Beckman

Comments:

AM3190   15226N   CLS-CSS-19   CP   11:34   2/15/94  
 Sample ID   Project #   Sample Point   Analyst   Time   Date

pH 4.0    pH 7.0    pH 10.0

Sample pH 5.31

Slope: 100.9 mV   Temperature: 21.5 °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: 2-24-94  
 (C:\WP50\FORMS\pH.201)

pH

1M3191 15226N CLB-CSS-20 CP 11:37 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.82

Slope: 110.9 mV Temperature: 21.9 °C Ph Meter: Beckman

Comments:

1M3192 15226N CLB-CSS-21 CP 11:39 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 6.40

Slope: 118.9 mV Temperature: 22.1 °C Ph Meter: Beckman

Comments:

1M3193 15226N CLB-CSS-22 CP 11:42 2/15/94  
 Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH 5.93

Slope: 110.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Sample ID Project # Sample Point Analyst Time Date

pH 4.0  pH 7.0  pH 10.0  Sample pH \_\_\_\_\_

Slope: \_\_\_\_\_ mV Temperature: \_\_\_\_\_ °C Ph Meter: \_\_\_\_\_

Comments: Andy Polar 2.15.94

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2.24.94  
 (C:\WP50\FORMS\pH.201)

pH

Sample ID \_\_\_\_\_ Project # \_\_\_\_\_ Sample Point OC Analyst CP Time 10:19 Date 2/15/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 7.03

Slope: 92.6 mV Temperature: 21.4 °C Ph Meter: Beckma

Comments: PL buffer # 7 - CV0050 - #10 buffer CV0051

Sample ID \_\_\_\_\_ Project # \_\_\_\_\_ Sample Point OC Analyst CP Time 10:20 Date 2/15/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.04

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckma

Comments: PH buffer # 4 - CV.0049. PL buffer # 7. CV0050

Sample ID \_\_\_\_\_ Project # \_\_\_\_\_ Sample Point OC Analyst CP Time 11:45 Date 2/15/94

pH 4.0  pH 7.0  pH 10.0  Sample pH 4.01

Slope: 100.9 mV Temperature: 21.0 °C Ph Meter: Beckman

Comments: PH buffer # 4 - CV0049. PL buffer # 7 CV0050

Sample ID \_\_\_\_\_ Project # \_\_\_\_\_ Sample Point \_\_\_\_\_ Analyst \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_

pH 4.0  pH 7.0  pH 10.0  Sample pH \_\_\_\_\_

Slope: \_\_\_\_\_ mV Temperature: \_\_\_\_\_ °C Ph Meter: \_\_\_\_\_

Comments: City Plan 2.15.94

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2.24.94  
 (C:\WP50\FORMS\pH.201)

**TOTAL SOLIDS**

| Sample # | Project # | Sample Point | B = Weight of dry dish | C = Weight of wet sample + dry dish | A = Weight of dry sample + dry dish | Percent Total Solids |
|----------|-----------|--------------|------------------------|-------------------------------------|-------------------------------------|----------------------|
| JTR 3170 | 15336 N   | CLJDS-01A    | 1.59                   | 7.23 5.64                           | 6.66                                | 89.9                 |
| 3171     |           | CLJ-DS-01B   | 1.58                   | <del>7.15</del> 7.12 5.54           | 6.51                                | 89.0                 |
| 3172     |           | CLJ-CSS-01   | 1.59                   | 7.34 5.75                           | 6.74                                | 89.6                 |
| 3173     |           | CLJ-CSS-02   | 1.59                   | 7.19 5.60                           | 6.46                                | 87.0                 |
| 3174     |           | CLJ-CSS-03   | 1.60                   | 7.12 5.52                           | 6.22                                | 83.7                 |
| 3175     |           | CLJ-CSS-04   | 1.58                   | 7.16 5.58                           | 6.78                                | 93.2                 |
| 3176     |           | CLJ-CSS-05   | 1.59                   | 7.11 5.52                           | 6.71                                | 92.8                 |
| 3177     |           | CLJ-CSS-06   | 1.58                   | 7.11 5.53                           | 6.03                                | 80.5                 |
| 3178     |           | CLJ-CSS-07   | 1.57                   | 7.02 5.45                           | 6.77                                | 95.4                 |
| 3179     |           | CLJ-CSS-08   | 1.57                   | 7.08 5.51                           | 6.70                                | 93.1                 |
| 3180     |           | CLJ-CSS-09   | 1.58                   | 7.08 5.50                           | 6.00                                | 80.4                 |
| 3181     |           | CLJ-CSS-10   | 1.59                   | 7.17 5.58                           | 6.67                                | 91.0                 |
| 3182     |           | CLJ-CSS-11   | 1.60                   | 7.15 5.55                           | 6.65                                | 91.0                 |
| 3183     |           | CLJ-CSS-12   | 1.59                   | 7.37 5.78                           | 7.29                                | 98.6                 |

A - B  
% Total Solids = ----- X 100

C - B  
Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY:

AS, CC

DATE:

2-13-94

READ AND UNDERSTOOD BY:

EW Wade T. DoLang 2-18-94

DATE:

2-13-94

(C:\WP50\FORMS\SOLIDS.201)

(Created: 5-16-91)

0611

TOTAL SOLIDS

| Sample #                   | Project # | Sample Point | B = Weight of dry dish | C = Weight of wet sample + dry dish | A = Weight of dry sample + dry dish | Percent Total Solids |
|----------------------------|-----------|--------------|------------------------|-------------------------------------|-------------------------------------|----------------------|
| JM 3184                    | 15226N    | CLJ-CSS-13   | 1.61                   | 7.10 5.49                           | 6.55                                | 90.0                 |
| 3185                       |           | CLJ-CSS-14   | 1.61                   | 7.11 5.50                           | 6.60                                | 90.7                 |
| 3186                       |           | CLJ-CSS-15   | 1.60                   | 7.05 5.45                           | 6.48                                | 89.5                 |
| 3187                       |           | CLJ-CSS-16   | 1.59                   | 7.07 5.48                           | 6.59                                | 91.2                 |
| 3188                       |           | CLJ-CSS-17   | 1.60                   | 7.19 5.59                           | 6.21                                | 82.5                 |
| 3189                       |           | CLJ-CSS-18   | 1.59                   | 7.11 5.52                           | 6.84                                | 95.1                 |
| 3190                       |           | CLJ-CSS-19   | 1.60                   | 7.12 5.52                           | 6.55                                | 89.7                 |
| 3191                       |           | CLJ-CSS-20   | 1.62                   | 7.03 5.41                           | 6.10                                | 82.8                 |
| 3192                       |           | CLJ-CSS-21   | 1.59                   | 7.06 5.47                           | 6.70                                | 93.4                 |
| 3193                       |           | CLJ-CSS-22   | 1.59                   | 7.12 5.53                           | 6.39                                | 86.8                 |
| Angela C. Schumann 2-12-94 |           |              |                        |                                     |                                     |                      |

$$\% \text{ Total Solids} = \frac{A - B}{C - B} \times 100$$
 Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY: AS, CC

DATE: 2-12-94

READ AND UNDERSTOOD BY: CW Wade DeLong 2-18-94

DATE: 2-13-94

(C:\WP50\FORMS\%SOLIDS.201)

(Created: 5-16-91)

0612

TOTAL SOLIDS

| Sample #     | Project # | Sample Point            | B = Weight of dry dish | C = Weight of wet sample + dry dish | A = Weight of dry sample + dry dish | Percent Total Solids |
|--------------|-----------|-------------------------|------------------------|-------------------------------------|-------------------------------------|----------------------|
| JM3044       | 15372     | 1749                    | 1.60                   | 7.17 5.57                           | 6.43                                | 86.7                 |
| 3045         |           | 1750                    | 1.59                   | 7.51 5.92                           | 6.57                                | 84.1                 |
| 3046         |           | 1751                    | 1.59                   | 70.9 5.50                           | 6.44                                | 88.1                 |
| 3047         |           | 1752                    | 1.60                   | 8.11 6.50                           | 7.78                                | 95.0                 |
| 3048         |           | 1753                    | 1.58                   | 7.13 5.55                           | 6.41                                | 87.0                 |
| 3049         |           | 1754                    | 1.61                   | 7.63 6.02                           | 6.72                                | 84.8                 |
| 3050         |           | 1755                    | 1.62                   | 7.34 5.72                           | 6.03                                | 77.0                 |
| 3015         | 13A07C    | GCLF-1                  | 1.60                   | 7.93 6.33                           | 7.38                                | 91.3%                |
| 3017         | 14416C    | <del>14416</del> MS-023 | 1.59                   | 7.96 6.37                           | 6.93                                | 83.8%                |
| 3124         | 15230     | B-2                     | 1.61                   | 8.15 6.54                           | 7.64                                | 92.2                 |
| JM3169       | 15226     | CLJ-DS-01               | 1.61                   | 7.66 6.05                           | 6.97                                | 88.5                 |
| Wadit DeLong |           |                         |                        |                                     |                                     |                      |
| 2-22-94      |           |                         |                        |                                     |                                     |                      |

$\% \text{ Total Solids} = \frac{A - B}{C - B} \times 100$   
 Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY: AS CC

DATE: 2-4-94

READ AND UNDERSTOOD BY: Wadit DeLong

DATE: 2-23-94

(C:\WP50\FORMS\SOLIDS.201)

(Created: 5-16-91)

0613



SECTION 2

(DG)

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Semivolatile Tentatively Identified Compounds, GC/MS, (CL1F)

|                 |       |       |
|-----------------|-------|-------|
| Unk hydrocarbon | mg/kg | 369 J |
| Unk hydrocarbon | mg/kg | 399 J |
| Unk hydrocarbon | mg/kg | 509 J |
| Unk hydrocarbon | mg/kg | 478 J |
| Unk hydrocarbon | mg/kg | 610 J |
| Unk hydrocarbon | mg/kg | 547 J |
| Unk hydrocarbon | mg/kg | 385 J |
| Unk hydrocarbon | mg/kg | 489 J |
| Unk hydrocarbon | mg/kg | 515 J |
| Unk hydrocarbon | mg/kg | 529 J |
| Unk hydrocarbon | mg/kg | 844 J |
| Unk hydrocarbon | mg/kg | 562 J |
| Unk hydrocarbon | mg/kg | 501 J |
| Unk hydrocarbon | mg/kg | 568 J |
| Unk hydrocarbon | mg/kg | 575 J |
| Unk hydrocarbon | mg/kg | 548 J |
| Unk hydrocarbon | mg/kg | 646 J |
| Unk hydrocarbon | mg/kg | 677 J |
| Unk hydrocarbon | mg/kg | 771 J |
| Unk hydrocarbon | mg/kg | 796 J |

## Conventional Data (CV10)

|                      |        |       |
|----------------------|--------|-------|
| BTU/lb               | BTU/lb | 17500 |
| Chloride             | mg/kg  | <5.00 |
| Density              | gm/cc  | .958  |
| Nitrate as N         | mg/kg  | <2.50 |
| Phosphate, Dissolved | mg/kg  | <3.26 |
| Sulfate as SO4       | mg/kg  | 15.0  |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters Units

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

|                    |       |       |
|--------------------|-------|-------|
| Aldrin             | mg/kg | <.255 |
| Alpha-BHC          | mg/kg | <.255 |
| Beta-BHC           | mg/kg | <.255 |
| Chlordane          | mg/kg | <1.28 |
| 4,4'-DDD           | mg/kg | <.255 |
| 4,4'-DDE           | mg/kg | <.255 |
| 4,4'-DDT           | mg/kg | <.255 |
| Delta-BHC          | mg/kg | <.255 |
| Dieldrin           | mg/kg | <.255 |
| Endosulfan sulfate | mg/kg | <.255 |
| Endosulfan I       | mg/kg | <.255 |
| Endosulfan II      | mg/kg | <.255 |
| Endrin             | mg/kg | <.255 |
| Endrin aldehyde    | mg/kg | <.255 |
| Endrin ketone      | mg/kg | <.255 |
| Gamma-BHC          | mg/kg | <.255 |
| Heptachlor         | mg/kg | <.255 |
| Heptachlor epoxide | mg/kg | <.255 |
| Methoxychlor       | mg/kg | <.255 |
| Toxaphene          | mg/kg | <5.11 |
| Aroclor 1016       | mg/kg | <2.55 |
| Aroclor 1221       | mg/kg | <2.55 |
| Aroclor 1232       | mg/kg | <2.55 |
| Aroclor 1242       | mg/kg | <2.55 |
| Aroclor 1248       | mg/kg | <2.55 |
| Aroclor 1254       | mg/kg | <2.55 |
| Aroclor 1260       | mg/kg | <2.55 |
| alpha-Chlordane    | mg/kg | <.255 |
| gamma-Chlordane    | mg/kg | <.255 |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Target Analyte List Total Metals Analysis, (ME20)

|           |       |       |
|-----------|-------|-------|
| Aluminum  | mg/kg | 285   |
| Antimony  | mg/kg | <1.98 |
| Arsenic   | mg/kg | <4.95 |
| Barium    | mg/kg | 32.7  |
| Beryllium | mg/kg | <.990 |
| Cadmium   | mg/kg | <.990 |
| Calcium   | mg/kg | 118   |
| Chromium  | mg/kg | 1.73  |
| Cobalt    | mg/kg | <4.95 |
| Copper    | mg/kg | 4.58  |
| Iron      | mg/kg | 5200  |
| Lead      | mg/kg | 50.7  |
| Magnesium | mg/kg | <24.8 |
| Manganese | mg/kg | 14.7  |
| Mercury   | mg/kg | <.051 |
| Nickel    | mg/kg | 3.00  |
| Potassium | mg/kg | 57.2  |
| Selenium  | mg/kg | <4.95 |
| Silver    | mg/kg | <.990 |
| Sodium    | mg/kg | 636   |
| Thallium  | mg/kg | <4.95 |
| Vanadium  | mg/kg | <4.95 |
| Zinc      | mg/kg | 5.77  |

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

|                              |       |      |
|------------------------------|-------|------|
| Acenaphthene                 | mg/kg | <600 |
| Acenaphthylene               | mg/kg | <600 |
| Anthracene                   | mg/kg | <600 |
| Benzo (a) anthracene         | mg/kg | <600 |
| Benzo (b) fluoranthene       | mg/kg | <600 |
| Benzo (k) fluoranthene       | mg/kg | <600 |
| Benzo (a) pyrene             | mg/kg | <600 |
| bis (2-Chloroethoxy) methane | mg/kg | <600 |
| bis (2-Ethylhexyl) phthalate | mg/kg | <600 |
| Carbazole                    | mg/kg | <600 |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

|                           |       |       |
|---------------------------|-------|-------|
| 4-Chloroaniline           | mg/kg | <600  |
| 2-Chloronaphthalene       | mg/kg | <600  |
| 2-Chlorophenol            | mg/kg | <600  |
| Chrysene                  | mg/kg | <600  |
| Dibenzo (a, h) anthracene | mg/kg | <600  |
| Dibenzofuran              | mg/kg | <600  |
| 1, 2-Dichlorobenzene      | mg/kg | <600  |
| 1, 3-Dichlorobenzene      | mg/kg | <600  |
| 1, 4-Dichlorobenzene      | mg/kg | <600  |
| 3, 3' -Dichlorobenzidine  | mg/kg | <600  |
| 2, 4-Dichlorophenol       | mg/kg | <600  |
| 2, 4-Dimethylphenol       | mg/kg | <600  |
| 2, 4-Dinitrophenol        | mg/kg | <3000 |
| 2, 4-Dinitrotoluene       | mg/kg | <600  |
| 2, 6-Dinitrotoluene       | mg/kg | <600  |
| Fluoranthene              | mg/kg | <600  |
| Fluorene                  | mg/kg | <600  |
| Hexachlorobenzene         | mg/kg | <600  |
| Hexachlorobutadiene       | mg/kg | <600  |
| Hexachlorocyclopentadiene | mg/kg | <600  |
| Hexachloroethane          | mg/kg | <600  |
| Isophorone                | mg/kg | <600  |
| 2-Methylnaphthalene       | mg/kg | <600  |
| 2-Methylphenol            | mg/kg | <600  |
| 4-Methylphenol            | mg/kg | <600  |
| N-Nitrosodiphenylamine    | mg/kg | <600  |
| Naphthalene               | mg/kg | <600  |
| 2-Nitroaniline            | mg/kg | <600  |
| 3-Nitroaniline            | mg/kg | <600  |
| 4-Nitroaniline            | mg/kg | <600  |
| Nitrobenzene              | mg/kg | <600  |
| 2-Nitrophenol             | mg/kg | <600  |
| 4-Nitrophenol             | mg/kg | <3000 |
| Pentachlorophenol         | mg/kg | <600  |
| Phenanthrene              | mg/kg | <600  |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

|                        |       |      |
|------------------------|-------|------|
| Phenol                 | mg/kg | <600 |
| Pyrene                 | mg/kg | <600 |
| 1,2,4-Trichlorobenzene | mg/kg | <600 |
| 2,4,5-Trichlorophenol  | mg/kg | <600 |
| 2,4,6-Trichlorophenol  | mg/kg | <600 |

## Target Compound List Volatile Analysis, MS, (MV20)

|                             |       |       |
|-----------------------------|-------|-------|
| Acetone                     | mg/kg | <.625 |
| Benzene                     | mg/kg | <.625 |
| Bromoform                   | mg/kg | <.625 |
| Carbon disulfide            | mg/kg | <.625 |
| Carbon tetrachloride        | mg/kg | <.625 |
| Chlorobenzene               | mg/kg | <.625 |
| Chlorodibromomethane        | mg/kg | <.625 |
| Chloroethane                | mg/kg | <.625 |
| Chloroform                  | mg/kg | <.625 |
| Dichlorobromomethane        | mg/kg | <.625 |
| 1,1-Dichloroethane          | mg/kg | <.625 |
| 1,2-Dichloroethane          | mg/kg | <.625 |
| 1,1-Dichloroethylene        | mg/kg | <.625 |
| 1,2-Dichloropropane         | mg/kg | <.625 |
| cis-1,3-Dichloropropylene   | mg/kg | <.625 |
| trans-1,3-Dichloropropylene | mg/kg | <.625 |
| Ethylbenzene                | mg/kg | <.625 |
| 2-Hexanone                  | mg/kg | <.625 |
| Methyl bromide              | mg/kg | <.625 |
| Methyl chloride             | mg/kg | <.625 |
| Methylene chloride          | mg/kg | <.625 |
| Methyl ethyl ketone         | mg/kg | <1.25 |
| Methyl-iso-butyl ketone     | mg/kg | <1.25 |
| Styrene                     | mg/kg | <.625 |
| 1,1,2,2-Tetrachloroethane   | mg/kg | <.625 |
| Tetrachloroethylene         | mg/kg | <.625 |
| Toluene                     | mg/kg | <.625 |
| 1,2-Trans-dichloroethylene  | mg/kg | <.625 |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DG-01  
ASC Sample Number: JM3970  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Target Compound List Volatile Analysis, MS, (MV20)

|                       |       |       |
|-----------------------|-------|-------|
| 1,1,1-Trichloroethane | mg/kg | <.625 |
| 1,1,2-Trichloroethane | mg/kg | <.625 |
| Trichloroethylene     | mg/kg | <.625 |
| Vinyl chloride        | mg/kg | <.625 |
| Xylenes               | mg/kg | <.625 |



Analytical Services Corp.

## ANALYTICAL REPORT

REVISED 7/1/94

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

**Attn:** Kent Geis  
Bill Perry

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

**Sample(s):** CLJ-DG-01

**Sample Type(s):** Organic

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

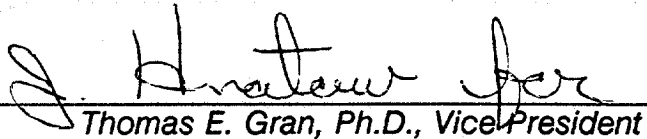
**Date Sample Received:** February 25, 1994

**Date Order Received:** February 25, 1994

**Joblink(s):** 615260

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

Reviewed and  
Approved by:

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

Date: 7-5-94



**SUMMARY OF ANALYTICAL METHODOLOGY**

| <b>Parameter</b>                                                          | <b>Reference</b> | <b>Method</b> |
|---------------------------------------------------------------------------|------------------|---------------|
| <b>Conventionals</b>                                                      |                  |               |
| BTU/lb                                                                    | ASTM             | D240-76       |
| Bulk Density                                                              | ASTM             | D5057         |
| Anions by IC (Cl, NO <sub>3</sub> , PO <sub>4</sub> and SO <sub>4</sub> ) | CAWW             | 300.0         |
| <b>Metals</b>                                                             |                  |               |
| Metals (except mercury)                                                   | SW-846           | 6010          |
| Mercury by Cold Vapor                                                     | SW-846           | 7470          |
| <b>Organics</b>                                                           |                  |               |
| Volatile Compounds by GC/MS                                               | SW-846           | 8240          |
| Semi-volatile Compounds by GC/MS                                          | SW-846           | 8270          |
| Pesticides and PCBs by GC                                                 | SW-846           | 8080          |

**Conventionals**

The method qualifier for Anions by Ion Chromatography is "IC", BTU/lb is "BT" and Density is "D", the CLP manual does not address these methods for reporting. The RPD for BTU/lb is not reported due to the acceptance criteria listed in ASTM D240-76 which is a difference of <55 BTU/lb.

**Metals**

Due to sample matrix problems, all metals except Mercury, were analyzed by ICP.

Spike recoveries were outside QC limits for Antimony, Chromium and Copper. The Lead spike recovery was outside limits due to high level of analyte present in the unspiked sample. All metals listed above resulted in acceptable spike recoveries for the Post Spike Sample.

**Pesticides/PCBs**

The surrogate Tetrachloro-m-xylene (TCX) was outside the advisory limits for Sample #CLJ-DG-01. This surrogate was also outside the limits, in the same direction, in the matrix spike/matrix spike duplicate (MS/MSD). The same Sample #CLJ-DG-01 was utilized for the MS/MSD demonstrating matrix interferences.

Lindane was outside QC limits in both the matrix spike and matrix spike duplicate. The method blank spike for Lindane resulted in 92% recovery which is well within the QC acceptability limits. This demonstrates potential matrix interferences with respect to this compound.

**Semi-volatile Organics**

Due to high levels of non-target compounds present, Sample #CLJ-DG-01 was diluted by a factor of 20. This dilution factor was also applied on Sample #CLJ-DG-01 matrix spike/matrix spike duplicate. As a result, elevated detection limits are reported for the target compound list. Two surrogate recoveries were outside QC limits in the matrix spike and six surrogates were outside QCF limits in the matrix spike duplicate. Thirteen out of twenty-two spike recoveries were outside QC limits. All compounds that were outside QC limits in the MS/MSD were within QC limits in the method spike. This demonstrates that the method was "in-control" and that poor recoveries in the MS/MSD are attributable to matrix interferences and dilution factors.

All initial and continuing calibration criteria were met.

## SDG NARRATIVE

---

### Volatile Organics

Sample #CLJ-DG-01 was initially analyzed on 3/4/94 at too high of a dilution factor. The holding time for this sample expired on 3/10/94. The sample was subsequently analyzed on 3/30/94 at a more concentrated dilution factor. The results of this analysis have been reported. The chromatograms from the 3/4/94 analysis have also been included for your review.

All initial and continuing calibration criteria were met.

---

### Reason for Revision:

- o This report was revised to include BTU and Density in the Conventional Analyses Section.

# COVER PAGE CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

DW No.: NA

**EPA Sample No.**

**Lab Sample ID.**

CLJ-DG-01

JM397D

COMMENTS: See SDG NARRATIVE

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

Signature: J. Hnatow

Name: Joseph Hnatow

Date: 5/26/94

Title: OPERATIONS Manager



# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

005

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA 07*  
~~067-06-0~~

Initial Calibration Source: *Alltech AIC-143* Continuing Calibration Source: *Alltech AIC-143*

Concentration Units: ug/L

| Analyte           | INITIAL CALIBRATION |       |       | CONTINUING CALIBRATION |       |       |       |       | M  |
|-------------------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|                   | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Chloride          | 4.00                | 4.06  | 101   | 4.00                   | 4.12  | 103   |       |       | IC |
| Nitrate<br>as N   | .904                | .845  | 93.5  | .904                   | .878  | 97.1  |       |       | IC |
| Phosphate<br>as P | 1.96                | 1.83  | 93.4  | 1.96                   | 1.80  | 91.8  |       |       | IC |
| Sulfate           | 6.00                | 5.76  | 96.0  | 6.00                   | 5.87  | 97.8  |       |       | IC |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |
|                   |                     |       |       |                        |       |       |       |       |    |

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

# BLANKS (3)

006

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CLT-DG-01 NA 11

Prep Blank Matrix: (soil/water) WATER

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

| ANALYTE        | Init<br>Calibration<br>Blank (ug/L) | C | Continuing Calibration Blank<br>(ug/L) |   |   |   |   |   | Preparation<br>Blank | C | M  |
|----------------|-------------------------------------|---|----------------------------------------|---|---|---|---|---|----------------------|---|----|
|                |                                     |   | 1                                      | C | 2 | C | 3 | C |                      |   |    |
| Chloride       |                                     |   |                                        |   |   |   |   |   | .153                 | B | IC |
| Nitrate as N   |                                     |   |                                        |   |   |   |   |   | 0                    | U | IC |
| Phosphate as P |                                     |   |                                        |   |   |   |   |   | 0                    | U | IC |
| Sulfate        |                                     |   |                                        |   |   |   |   |   | .293                 | B | IC |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |
|                |                                     |   |                                        |   |   |   |   |   |                      |   |    |

# SPIKE SAMPLE RECOVERY (5A)

007

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: CLJ-DG-01

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

Matrix: (soil/water) OIL      Level (low/med): MED      % Solids for Sample: \_\_\_\_\_

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       |                  | 59.2                      |   | 4.97               | B | 50.0             | 108  |   | IC |
| Nitrate as N   |                  | 11.3                      |   | 6.99               | B | 11.3             | 92.9 |   | IC |
| Phosphate as P |                  | 16.6                      |   | 1.27               | B | 16.3             | 94.0 |   | IC |
| Sulfate        |                  | 66.7                      |   | 15.0               |   | 50.0             | 103  |   | IC |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
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|                |                  |                           |   |                    |   |                  |      |   |    |
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|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |
|                |                  |                           |   |                    |   |                  |      |   |    |

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



DUPLICATES (6)

008

Lab Name: *Analytical Services Corp* Contract: NEESA EPA Sample #: CLJ-DG-2

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

Matrix: (soil/water) OIL % Solids for Sample:     

Level (low/med): MED % 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  |
|----------------|---------------|-----------|---|---------------|---|------|---|----|
| Chloride       |               | 59.2      |   | 59.1          |   | .169 |   | IC |
| Nitrate as N   |               | 11.2      |   | 11.3          |   | .889 |   | IC |
| Phosphate as P |               | 16.6      |   | 16.7          |   | .601 |   | IC |
| Sulfate        |               | 66.7      |   | 66.9          |   | .229 |   | IC |
| BTU/lb         |               | 1125      |   | 1169          |   |      |   | BT |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
|                |               |           |   |               |   |      |   |    |
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|                |               |           |   |               |   |      |   |    |



# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp*

Contract: *NEESA*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

DW No.: *NA*

EPA Sample No.

Lab Sample ID.

*CLJ-DG-01*

*JM3970*

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\_\_\_\_\_

Were ICP interelement corrections applied?

Yes/NO *YES*

Were ICP background corrections applied?

Yes/NO *YES*

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

Yes/NO *NO*

COMMENTS: *See SDG Narrative*

\_\_\_\_\_

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

Signature: *J. Hnatow*

Name: *Joseph Hnatow*

Date: *5/26/94*

Title: *Operations Manager*

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

CLJ-DG-01

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

Matrix (soil/water): SOIL Lab Sample ID: Jm 3970

Level (low/med): LOW Date Received: 2/25/94

% Solids: \_\_\_\_\_

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

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 285           |   |   | P  |
| 7440-36-0 | Antimony  | 0.661         | U |   | P  |
| 7440-38-2 | Arsenic   | 0.611         | U |   | P  |
| 7440-39-3 | Barium    | 32.7          |   |   | P  |
| 7440-41-7 | Beryllium | 0.064         | B |   | P  |
| 7440-43-9 | Cadmium   | 0.027         | U |   | P  |
| 7440-70-2 | Calcium   | 118           |   |   | P  |
| 7440-47-3 | Chromium  | 1.73          |   |   | P  |
| 7440-48-4 | Cobalt    | 0.463         | B |   | P  |
| 7440-50-8 | Copper    | 4.58          |   |   | P  |
| 7439-89-6 | Iron      | 5200          |   |   | P  |
| 7439-92-1 | Lead      | 50.7          |   |   | P  |
| 7439-95-4 | Magnesium | 19.7          | B |   | P  |
| 7439-96-5 | Manganese | 14.7          |   |   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |   | CV |
| 7440-02-0 | Nickel    | 3.00          |   |   | P  |
| 7440-09-7 | Potassium | 57.2          |   |   | P  |
| 7782-49-2 | Selenium  | 1.16          | B |   | P  |
| 7440-22-4 | Silver    | 0.198         | U |   | P  |
| 7440-23-5 | Sodium    | 636           |   |   | P  |
| 7440-28-0 | Thallium  | 0.557         | U |   | P  |
| 7440-62-2 | Vanadium  | 1.27          | B |   | P  |
| 7440-66-6 | Zinc      | 5.77          |   |   | P  |
|           | Cyanide   |               |   |   |    |

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

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

Comments:

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

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP

Contract: NEESA

Lab Code: NA Case No.: NA

SAS No.: NA

SDG No.: NA

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |        |       |       |       | M  |
|-----------|---------------------|-------|-------|------------------------|--------|-------|-------|-------|----|
|           | True                | Found | %R(1) | True                   | Found  | %R(1) | Found | %R(1) |    |
| Aluminum  | 9630                | 9849  | 102   | 4800                   | 244936 | 103   |       |       | P  |
| Antimony  | 4620                | 4709  | 102   | 2300                   | 2424   | 105   |       |       | P  |
| Arsenic   | 4410                | 4718  | 107   | 2330                   | 2441   | 105   |       |       | P  |
| Barium    | 9240                | 9443  | 102   | 4790                   | 4880   | 102   |       |       | P  |
| Beryllium | 248                 | 251   | 101   | 125                    | 127    | 102   |       |       | P  |
| Cadmium   | 2530                | 2547  | 101   | 1290                   | 1320   | 102   |       |       | P  |
| Calcium   | 23100               | 23980 | 104   | 11950                  | 12440  | 104   |       |       | P  |
| Chromium  | 973                 | 991   | 102   | 487                    | 508    | 104   |       |       | P  |
| Cobalt    | 2510                | 2546  | 101   | 1280                   | 1323   | 103   |       |       | P  |
| Copper    | 1260                | 1285  | 102   | 606                    | 645    | 106   |       |       | P  |
| Iron      | 4670                | 4762  | 102   | 2390                   | 2464   | 103   |       |       | P  |
| Lead      | 4680                | 4702  | 100   | 2400                   | 2483   | 103   |       |       | P  |
| Magnesium | 23300               | 23540 | 101   | 12300                  | 12650  | 103   |       |       | P  |
| Manganese | 2500                | 2580  | 103   | 1280                   | 1307   | 102   |       |       | P  |
| Mercury   | 5.00                | 4.45  | 88.9  | 5.00                   | 4.43   | 88.6  | 4.38  | 87.5  | CV |
| Nickel    | 2500                | 2574  | 103   | 1310                   | 1329   | 101   |       |       | P  |
| Potassium | 23800               | 24330 | 102   | 11920                  | 12630  | 106   |       |       | P  |
| Selenium  | 4590                | 4693  | 102   | 2360                   | 2432   | 103   |       |       | P  |
| Silver    | 1260                | 1275  | 101   | 588                    | 623    | 106   |       |       | P  |
| Sodium    | 23800               | 24220 | 102   | 12140                  | 12440  | 102   |       |       | P  |
| Thallium  | 4510                | 4525  | 100   | 2350                   | 2392   | 102   |       |       | P  |
| Vanadium  | 4730                | 4777  | 101   | 2410                   | 2474   | 103   |       |       | P  |
| Zinc      | 2480                | 2522  | 102   | 1240                   | 1277   | 103   |       |       | P  |
| Cyanide   |                     |       |       |                        |        |       |       |       |    |

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

3  
BLANKS

Lab Name: ANALYTICAL SERVICES CORP

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Preparation Blank Matrix (soil/water): WATER

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

| Analyte   | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) |   |        |   |   |   | Preparation Blank                   | C | M  |
|-----------|-----------------------------|---|-------------------------------------|---|--------|---|---|---|-------------------------------------|---|----|
|           |                             |   | 1                                   | C | 2      | C | 3 | C |                                     |   |    |
| Aluminum  | 16.1                        | U | 6.8                                 | U |        |   |   |   | 17.8                                | U | P  |
| Antimony  | 2.3                         | U | -20.0                               | U |        |   |   |   | <del>17.8</del> <sup>58</sup> 11.94 | U | P  |
| Arsenic   | 5.0                         | U | 4.4                                 | U |        |   |   |   | -18.6                               | U | P  |
| Barium    | 1.2                         | U | 1.2                                 | U |        |   |   |   | -10.9                               | U | P  |
| Beryllium | 0                           | U | 0.1                                 | U |        |   |   |   | 2.0                                 | U | P  |
| Cadmium   | 0.1                         | U | -0.2                                | U |        |   |   |   | 0                                   | U | P  |
| Cadmium   | 0.1                         | U | -0.2                                | U |        |   |   |   | 0.9                                 | U | P  |
| Calcium   | 4.6                         | U | 4.6                                 | U |        |   |   |   | 50.1                                | B | P  |
| Chromium  | -0.8                        | U | -0.8                                | U |        |   |   |   | -0.1                                | U | P  |
| Cobalt    | 2.4                         | U | 1.3                                 | U |        |   |   |   | 1.9                                 | U | P  |
| Copper    | 1.8                         | U | 0                                   | U |        |   |   |   | 6.7                                 | U | P  |
| Iron      | -0.9                        | U | 6.8                                 | B |        |   |   |   | -2.2                                | U | P  |
| Lead      | 9.4                         | U | 9.8                                 | U |        |   |   |   | -7.5                                | U | P  |
| Magnesium | 13.7                        | U | -6.5                                | U |        |   |   |   | 14.5                                | U | P  |
| Manganese | 0.4                         | U | 0.1                                 | U |        |   |   |   | 1.7                                 | B | P  |
| Mercury   | -0.095                      | U | -0.076                              | U | -0.046 | U |   |   | -0.066                              | U | CY |
| Nickel    | 3.4                         | U | 4.1                                 | U |        |   |   |   | 5.5                                 | U | P  |
| Potassium | 638                         | U | 255                                 | U |        |   |   |   | 128                                 | U | P  |
| Selenium  | 10.2                        | U | 4.0                                 | U |        |   |   |   | 17.0                                | U | P  |
| Silver    | 0.8                         | U | 1.5                                 | U |        |   |   |   | 0.3                                 | U | P  |
| Sodium    | 40.3                        | U | 86.1                                | U |        |   |   |   | -69.2                               | U | P  |
| Thallium  | 6.5                         | U | 8.2                                 | U |        |   |   |   | 13.0                                | U | P  |
| Vanadium  | 1.8                         | U | 2.0                                 | U |        |   |   |   | 0                                   | U | P  |
| Zinc      | 0.7                         | U | 0.3                                 | U |        |   |   |   | 2.6                                 | U | P  |
| Cyanide   |                             |   |                                     |   |        |   |   |   |                                     |   |    |

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 ICP ID Number: 61 ICS Source: VENTURES

Concentration Units: ug/L

| Analyte   | True   |         | Initial Found |         |      | Final Found |         |     |
|-----------|--------|---------|---------------|---------|------|-------------|---------|-----|
|           | Sol. A | Sol. AB | Sol. A        | Sol. AB | %R   | Sol. A      | Sol. AB | %R  |
| Aluminum  | 487000 | 481000  | 494000        | 482000  | 100  | 496000      | 489000  | 102 |
| Antimony  |        | 895     | 20.8          | 917     | 102  | 2.1         | 931     | 104 |
| Arsenic   |        | 932     | -14.7         | 954     | 102  | 13.9        | 964     | 103 |
| Barium    |        | 471     | 1.9           | 468     | 99.4 | 1.9         | 472     | 100 |
| Beryllium |        | 465     | 0.1           | 465     | 100  | -0.1        | 474     | 102 |
| Bismuth   |        | 874     | -5.8          | 900     | 103  | -5.5        | 924     | 106 |
| Calcium   | 184000 | 227000  | 188000        | 227000  | 100  | 190000      | 231200  | 102 |
| Chromium  |        | 462     | -5.2          | 467     | 101  | -6.5        | 472     | 102 |
| Cobalt    |        | 432     | -2.5          | 440     | 102  | -3.0        | 449     | 104 |
| Copper    |        | 472     | 7.6           | 483     | 102  | 2.1         | 489     | 104 |
| Iron      | 177000 | 172000  | 181000        | 174000  | 101  | 181000      | 176000  | 102 |
| Lead      |        | 883     | -23.2         | 868     | 98.3 | -36.8       | 907     | 103 |
| Magnesium | 243000 | 490000  | 248000        | 500000  | 102  | 251000      | 512000  | 104 |
| Manganese |        | 406     | -1.9          | 453     | 112  | -2.6        | 456     | 112 |
| Mercury   |        |         |               |         |      |             |         |     |
| Nickel    |        | 872     | 1.5           | 878     | 101  | 4.4         | 893     | 102 |
| Potassium |        |         |               |         |      |             |         |     |
| Selenium  |        | 885     | 27.0          | 917     | 104  | 17.6        | 907     | 102 |
| Silver    |        | 923     | -6.0          | 925     | 100  | -4.8        | 941     | 102 |
| Sodium    |        | 963     | -60.6         | 988     | 103  | -43.3       | 1011    | 105 |
| Thallium  |        | 864     | 23.1          | 843     | 97.6 | 22.8        | 882     | 102 |
| Vanadium  |        | 446     | 0.6           | 447     | 100  | 0.5         | 455     | 102 |
| Zinc      |        | 923     | 25.9          | 937     | 102  | 17.5        | 953     | 103 |

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5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP.

Contract: NEESA

CLJ-DG-01

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): \_\_\_\_\_

| Analyte   | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R   | Q | M  |
|-----------|------------------|------------------------------|----------------------|------------------|------|---|----|
| Aluminum  | 75-125           | 564                          | 285                  | 257              | 109  |   | P  |
| Antimony  | 75-125           | 4.22                         | 0                    | 12.4             | 34.0 | N | P  |
| Arsenic   | 75-125           | 40.0                         | 0.255                | 51.6             | 77.0 |   | P  |
| Barium    | 75-125           | 78.3                         | 32.7                 | 50.7             | 89.9 |   | P  |
| Beryllium | 75-125           | 1.13                         | 0.064                | 1.27             | 83.9 |   | P  |
| Cadmium   | 75-125           | 0.972                        | -0.052               | 1.28             | 80.0 |   | P  |
| Calcium   | 75-125           | 398                          | 118                  | 259              | 108  |   | P  |
| Chromium  | 75-125           | 9.01                         | 1.73                 | 5.39             | 135  | N | P  |
| Cobalt    | 75-125           | 11.2                         | 0.463                | 13.1             | 82.0 |   | P  |
| Copper    | 75-125           | 16.1                         | 4.58                 | 6.87             | 168  | N | P  |
| Iron      |                  | 5201                         | 5200                 | 253              | 0    |   | P  |
| Lead      | 75-125           | 118                          | 50.7                 | 13.0             | 518  | N | P  |
| Magnesium | 75-125           | 227                          | 19.7                 | 254              | 81.6 |   | P  |
| Manganese | 75-125           | 27.1                         | 14.7                 | 12.9             | 96.1 |   | P  |
| Mercury   | 75-125           | 247                          | 0                    | 253              | 102  |   | CV |
| Nickel    | 75-125           | 14.7                         | 3.00                 | 12.9             | 90.7 |   | P  |
| Potassium | 75-125           | 276                          | 57.2                 | 262              | 83.5 |   | P  |
| Selenium  | 75-125           | 43.1                         | 1.16                 | 52.1             | 80.5 |   | P  |
| Silver    | 75-125           | 1.01                         | 0                    | 1.24             | 81.5 |   | P  |
| Sodium    | 75-125           | 895                          | 636                  | 271              | 95.6 |   | P  |
| Thallium  | 75-125           | 41.4                         | 0                    | 51.6             | 80.2 |   | P  |
| Vanadium  | 75-125           | 12.2                         | 1.27                 | 12.9             | 84.7 |   | P  |
| Zinc      | 75-125           | 17.2                         | 5.77                 | 12.8             | 89.3 |   | P  |
| Cyanide   |                  |                              |                      |                  |      |   |    |

Comments:

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



5B  
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP

Contract: NEESA

CLJ-DG-01

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ~~µg/l~~ <sup>MG/KG</sup> <sub>5B</sub> 5-12-94

| Analyte   | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R   | Q | M |
|-----------|------------------|------------------------------|----------------------|------------------|------|---|---|
| Aluminum  | 75-125           | 522                          | 257                  | 265              | 100  |   | P |
| Antimony  | 75-125           | 12.2                         | 0                    | 12.0             | 102  |   | P |
| Arsenic   | 75-125           | 50.9                         | 0.230                | 53.2             | 95.2 |   | P |
| Barium    | 75-125           | 82.1                         | 29.4                 | 52.3             | 101  |   | P |
| Beryllium | 75-125           | 1.33                         | 0.058                | 1.31             | 97.1 |   | P |
| Cadmium   | 75-125           | 1.25                         | -0.047               | 1.32             | 98.3 |   | P |
| Calcium   | 75-125           | 429                          | 106                  | 267              | 121  |   | P |
| Chromium  | 75-125           | 7.43                         | 156                  | 5.55             | 106  |   | P |
| Cobalt    | 75-125           | 13.4                         | 0.717                | 13.5             | 96.2 |   | P |
| Copper    | 75-125           | 11.7                         | 4.12                 | 7.08             | 107  |   | P |
| Iron      |                  | 4074                         | 4680                 | 261              | 0    |   | P |
| Lead      | 75-125           | 58.8                         | 45.6                 | 13.4             | 98.5 |   | P |
| Magnesium | 75-125           | 267                          | 17.7                 | 262              | 95.2 |   | P |
| Manganese | 75-125           | 32.4                         | 13.2                 | 13.3             | 144  | N | P |
| Mercury   |                  |                              |                      |                  |      |   |   |
| Nickel    | 75-125           | 15.6                         | 2.70                 | 13.3             | 97.0 |   | P |
| Potassium | 75-125           | 308                          | 51.5                 | 270              | 95.0 |   | P |
| Selenium  | 75-125           | 53.2                         | 1.04                 | 53.7             | 97.1 |   | P |
| Silver    | 75-125           | 1.24                         | 0                    | 1.28             | 96.9 |   | P |
| Sodium    | 75-125           | 875                          | 572                  | 279              | 109  |   | P |
| Thallium  | 75-125           | 50.6                         | 0                    | 53.2             | 95.1 |   | P |
| Vanadium  | 75-125           | 14.3                         | 1.14                 | 13.3             | 98.9 |   | P |
| Zinc      | 75-125           | 18.0                         | 5.19                 | 13.2             | 97.0 |   | P |
| Cyanide   |                  |                              |                      |                  |      |   |   |

Comments:

6  
DUPLICATES

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

CLJ-DG-01

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  |               | 285                   |   | 315                   |   | 10.0 |   | P  |
| Antimony  |               | 0.324                 | U | -0.283                | U |      |   | P  |
| Arsenic   | 0.248         | 0.255                 | B | 0.783                 | B | 10.1 | * | P  |
| Barium    |               | 32.7                  |   | 36.5                  |   | 10.9 |   | P  |
| Beryllium | 0.017         | 0.064                 | B | 0.076                 | B | 17.1 |   | P  |
| Cadmium   | 0.027         | -0.052                | B | -0.012                | U | 12.5 | * | P  |
| Calcium   | 124           | 118                   |   | 286                   |   | 83.2 | * | P  |
| Chromium  |               | 1.73                  |   | 1.97                  |   | 13.0 |   | P  |
| Cobalt    | 1.24          | 0.463                 | B | 0.443                 | B | 4.7  |   | P  |
| Copper    | 2.48          | 4.58                  |   | 5.62                  |   | 20.4 |   | P  |
| Iron      |               | 5200                  |   | 2960                  |   | 54.9 | * | P  |
| Lead      |               | 50.7                  |   | 51.7                  |   | 2.0  |   | P  |
| Magnesium |               | 19.7                  | B | 21.4                  | B | 9.2  |   | P  |
| Manganese |               | 14.7                  |   | 13.1                  |   | 11.5 |   | P  |
| Mercury   | 10.1          | <del>1.035</del> 1.77 | U | <del>0.267</del> 11.7 |   | 14.7 |   | CV |
| Nickel    | 0.990         | 3.00                  |   | 2.99                  |   | 0.3  |   | P  |
| Potassium |               | 57.2                  |   | 66.7                  |   | 14.9 |   | P  |
| Selenium  |               | 1.16                  | B | 0.958                 | B | 19.1 |   | P  |
| Silver    |               | -0.060                | U | -0.067                | U | 11.0 |   | P  |
| Sodium    |               | 636                   |   | 726                   |   | 13.2 |   | P  |
| Thallium  |               | 0.228                 | U | 0.037                 | U | 14.4 | * | P  |
| Vanadium  | 1.24          | 1.27                  | B | 1.30                  | B | 2.3  |   | P  |
| Zinc      |               | 577                   |   | 5.06                  |   | 13.1 |   | P  |
| Cyanide   |               |                       |   |                       |   |      |   |    |

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: N4P40197P

Sample wt/vol: 2.00 (g/mL) g

Lab File ID: ^Z4201

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

Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL

Date Extracted: 3-4-94

Concentrated Extract Volume: 6000 (uL)

Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.00

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           | 300  | U |
| 319-85-7   | beta-BHC            |      |   |
| 319-36-8   | delta-BHC           |      |   |
| 58-89-9    | gamma-BHC (Lindane) |      |   |
| 76-44-8    | Heptachlor          |      |   |
| 309-00-2   | Aldrin              |      |   |
| 1024-57-3  | Heptachlor epoxide  |      |   |
| 959-98-8   | Endosulfan I        |      |   |
| 60-57-1    | Dieldrin            |      |   |
| 72-55-9    | 4,4'-DDE            |      |   |
| 72-20-8    | Endrin              |      |   |
| 33213-65-9 | Endosulfan II       |      |   |
| 72-54-8    | 4,4'-DDD            |      |   |
| 1031-07-8  | Endosulfan sulfate  |      |   |
| 50-29-3    | 4,4'-DDT            |      |   |
| 72-43-5    | Methoxychlor        |      |   |
| 53494-70-5 | Endrin ketone       |      |   |
| 7421-36-3  | Endrin aldehyde     |      |   |
| 5103-71-9  | alpha-Chlordane     |      |   |
| 5103-74-2  | gamma-Chlordane     |      |   |
| 8001-35-2  | Toxaphene           | 6000 |   |
| 12674-11-2 | Aroclor-1016        | 3000 | U |
| 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: N4P40197FS  
 Sample wt/vol: 2.00 (g/mL) g Lab File ID: 124202  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94  
 Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94  
 Concentrated Extract Volume: 6000 (uL) Date Analyzed: 3-25-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

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

|            |                     |      |   |
|------------|---------------------|------|---|
| 319-84-6   | alpha-BHC           | 1670 |   |
| 319-85-7   | beta-BHC            | 1510 |   |
| 319-36-8   | delta-BHC           | 1330 |   |
| 58-89-9    | gamma-BHC (Lindane) | 1600 |   |
| 76-44-8    | Heptachlor          | 1380 |   |
| 309-00-2   | Aldrin              | 1540 |   |
| 1024-57-3  | Heptachlor epoxide  | 1460 |   |
| 959-98-8   | Endosulfan I        | 1700 |   |
| 60-57-1    | Dieldrin            | 1640 |   |
| 72-55-9    | 4,4'-DDE            | 1710 |   |
| 72-20-8    | Endrin              | 1840 |   |
| 33213-65-9 | Endosulfan II       | 1600 |   |
| 72-54-8    | 4,4'-DDD            | 1580 |   |
| 1031-07-8  | Endosulfan sulfate  | 1360 |   |
| 50-29-3    | 4,4'-DDT            | 1620 |   |
| 72-43-5    | Methoxychlor        | 2030 |   |
| 53494-70-5 | Endrin ketone       | 1510 |   |
| 7421-36-3  | Endrin aldehyde     | 1150 |   |
| 5103-71-9  | alpha-Chlordane     | 1320 |   |
| 5103-74-2  | gamma-Chlordane     | 1340 |   |
| 8001-35-2  | Toxaphene           | 6000 | U |
| 12674-11-2 | Aroclor-1016        | 3000 |   |
| 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.

Lab Name: ASC Contract: NEESA CLW-DG-01MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N~~HP~~ JM3970PS  
 Sample wt/vol: 2.13 (g/mL) g Lab File ID: ^24203  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94  
 Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94  
 Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-25-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

| CAS NO.    | COMPOUND            | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|---------------------|------------------------------------------------------|---|
| 319-84-6   | alpha-BHC           | 589                                                  |   |
| 319-85-7   | beta-BHC            | 793                                                  |   |
| 319-36-8   | delta-BHC           | 452                                                  |   |
| 58-89-9    | gamma-BHC (Lindane) | 598                                                  |   |
| 76-44-8    | Heptachlor          | 879                                                  |   |
| 309-00-2   | Aldrin              | 711                                                  |   |
| 1024-57-3  | Heptachlor epoxide  | 790                                                  |   |
| 959-98-8   | Endosulfan I        | 864                                                  |   |
| 60-57-1    | Dieldrin            | 705                                                  |   |
| 72-55-9    | 4,4'-DDE            | 714                                                  |   |
| 72-20-8    | Endrin              | 766                                                  |   |
| 33213-65-9 | Endosulfan II       | 653                                                  |   |
| 72-54-8    | 4,4'-DDD            | 708                                                  |   |
| 1031-07-8  | Endosulfan sulfate  | 455                                                  |   |
| 50-29-3    | 4,4'-DDT            | 1410                                                 |   |
| 72-43-5    | Methoxychlor        | 1400                                                 |   |
| 53494-70-5 | Endrin ketone       | 531                                                  |   |
| 7421-36-3  | Endrin aldehyde     | 439                                                  |   |
| 5103-71-9  | alpha-Chlordane     | 742                                                  |   |
| 5103-74-2  | gamma-Chlordane     | 726                                                  |   |
| 8001-35-2  | Toxaphene           | 600                                                  | U |
| 12674-11-2 | Aroclor-1016        | 3050                                                 |   |
| 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.

DG  
CLJ-DS-01MSD

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: 1M3970PR  
 Sample wt/vol: 2.08 (g/mL) g Lab File ID: ^Z4204  
 % Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94  
 Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94  
 Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-25-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

| CAS NO.    | COMPOUND            | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | <u>Q</u> |
|------------|---------------------|------------------------------------------------------|----------|
| 319-84-6   | alpha-BHC           | 594                                                  |          |
| 319-85-7   | beta-BHC            | 803                                                  |          |
| 319-36-8   | delta-BHC           | 491                                                  |          |
| 58-89-9    | gamma-BHC (Lindane) | 622                                                  |          |
| 76-44-8    | Heptachlor          | 966                                                  |          |
| 309-00-2   | Aldrin              | 725                                                  |          |
| 1024-57-3  | Heptachlor epoxide  | 813                                                  |          |
| 959-98-8   | Endosulfan I        | 869                                                  |          |
| 60-57-1    | Dieldrin            | 734                                                  |          |
| 72-55-9    | 4,4'-DDE            | 700                                                  |          |
| 72-20-8    | Endrin              | 781                                                  |          |
| 33213-65-9 | Endosulfan II       | 694                                                  |          |
| 72-54-8    | 4,4'-DDD            | 741                                                  |          |
| 1031-07-8  | Endosulfan sulfate  | 491                                                  |          |
| 50-29-3    | 4,4'-DDT            | 1300                                                 |          |
| 72-43-5    | Methoxychlor        | 1170                                                 |          |
| 53494-70-5 | Endrin ketone       | 528                                                  |          |
| 7421-36-3  | Endrin aldehyde     | 466                                                  |          |
| 5103-71-9  | alpha-Chlordane     | 622                                                  |          |
| 5103-74-2  | gamma-Chlordane     | 719                                                  |          |
| 8001-35-2  | Toxaphene           | 6250                                                 | U        |
| 12674-11-2 | Aroclor-1016        | 3130                                                 |          |
| 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.

CLW-DG-01

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3970P

Sample wt/vol: 2.35 (g/mL) g

Lab File ID: ^Z4205

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

Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL

Date Extracted: 3-4-94

Concentrated Extract Volume: 6000 (uL)

Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.00

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

Sulfur Cleanup: (Y/N) N

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

| CAS NO.    | COMPOUND            | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|---------------------|------------------------------------------------------|---|
| 319-84-6   | alpha-BHC           | 255                                                  | 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           | 5110                                                 |   |
| 12674-11-2 | Aroclor-1016        | 2550                                                 |   |
| 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<br>SAMPLE NO. | TCX 1<br>%REC # | TCX 2<br>%REC # | DCB 1<br>%REC # | DCB 2<br>%REC # | OTHER<br>(1) | OTHER<br>(2) | TOT<br>OUT |
|----|-------------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|------------|
| 01 | PBLK01            | 90.7            | 106             | 95.6            | 111             |              |              | 0          |
| 02 | PSPK01            | 86.3            | 100             | 97.3            | 112             |              |              | 0          |
| 03 | CLJ-DG-UIMS       | 56.5*           | 66.8            | 74.7            | 98.4            |              |              | 1          |
| 04 | CLJ-DG-UIMS       | 54.2*           | 62.4            | 65.6            | 70.7            |              |              | 1          |
| 05 | CLJ-DG-01         | 52.6*           | 57.6*           | 61.5            | 60.5            |              |              | 2          |
| 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



PESTICIDE BLANK SPIKE RECOVERY

024

Lab Name: ASC Contract: NEESA

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

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

| COMPOUND            | SPIKE ADDED <sup>kg</sup><br>(ug/L) | SAMPLE CONCENTRATION<br>(ug/L) <sup>kg</sup> | MS CONCENTRATION<br>(ug/L) <sup>kg</sup> | MS % REC # | QC LIMITS REC. |
|---------------------|-------------------------------------|----------------------------------------------|------------------------------------------|------------|----------------|
| gamma-BHC (Lindane) | 47.9                                | U                                            | 34.9                                     | 72.8       | 56-120         |
| Heptachlor          | 37.5                                | U                                            | 27.6                                     | 73.5       | 40-131         |
| Heptachlor Epoxide  |                                     |                                              |                                          |            | 30-130         |
| Toxaphene           |                                     |                                              |                                          |            | 30-130         |
| Endrin              | 89.3                                | U                                            | 93.3                                     | 104        | 30-130         |
| Methoxychlor        |                                     |                                              |                                          |            | 30-130         |
| gamma-Chlordane     |                                     |                                              |                                          |            | 30-130         |
| alpha-Chlordane     |                                     |                                              |                                          |            | 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 83 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.: CLJ-DG-01

| COMPOUND            | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|---------------------|---------------------|------------------------------|--------------------------|------------|----------------|
| gamma-BHC (Lindane) | 1620                | 0                            | 598                      | 36.7 *     | 46-127         |
| Heptachlor          | 1340                | 0                            | 379                      | 28.3       | 35-130         |
| Aldrin              | 1530                | 0                            | 711                      | 46.5       | 34-132         |
| Dieldrin            | 1530                | 0                            | 705                      | 46.1       | 31-134         |
| Endrin              | 1620                | 0                            | 766                      | 47.3       | 42-139         |
| 4,4'-DDT            | 1290                | 0                            | 1410                     | 109        | 23-134         |

| COMPOUND            | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | REC.   |
|---------------------|---------------------|---------------------------|-------------|---------|---------------|--------|
| gamma-BHC (Lindane) | 1670                | 622                       | 37.2 *      | 3.89    | 50            | 46-127 |
| Heptachlor          | 1370                | 866                       | 63.2        | 1.52    | 31            | 35-130 |
| Aldrin              | 1560                | 725                       | 46.5        | 1.95    | 43            | 34-132 |
| Dieldrin            | 1570                | 734                       | 46.8        | 4.09    | 38            | 31-134 |
| Endrin              | 1660                | 781                       | 47.0        | 1.98    | 45            | 42-139 |
| 4,4'-DDT            | 1320                | 1360                      | 103         | 3.43    | 50            | 23-134 |

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

\* Values outside of QC limits

RPD: 0 out of 6 outside limits  
 Spike Recovery: 2 out of 12 outside limits

COMMENTS:

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA PBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: N4P40197P Lab File ID: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) OIL  
 Sulfur Cleanup: (Y/N) N Date Extracted: 3-4-94  
 Date Analyzed (1): 3-25-94 Date Analyzed (2): 3-25-94  
 Time Analyzed (1): 11:12 Time Analyzed (2): 11:56  
 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<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED 1 | DATE<br>ANALYZED 2 |
|----|-------------------|------------------|--------------------|--------------------|
| 01 | PSPK01            | N4P40197PS       | 3-25-94            | 3-25-94            |
| 02 | CLJ-DG-01MS       | JM3970PS         | ↓                  | ↓                  |
| 03 | CLJ-DG-01MSD      | JM3970PR         | ↓                  | ↓                  |
| 04 | CLJ-DG-01         | JM3970P          | ↓                  | ↓                  |
| 05 |                   |                  |                    |                    |
| 06 |                   |                  |                    |                    |
| 07 |                   |                  |                    |                    |
| 08 |                   |                  |                    |                    |
| 09 |                   |                  |                    |                    |
| 10 |                   |                  |                    |                    |
| 11 |                   |                  |                    |                    |
| 12 |                   |                  |                    |                    |
| 13 |                   |                  |                    |                    |
| 14 |                   |                  |                    |                    |
| 15 |                   |                  |                    |                    |
| 16 |                   |                  |                    |                    |
| 17 |                   |                  |                    |                    |
| 18 |                   |                  |                    |                    |
| 19 |                   |                  |                    |                    |
| 20 |                   |                  |                    |                    |
| 21 |                   |                  |                    |                    |
| 22 |                   |                  |                    |                    |
| 23 |                   |                  |                    |                    |
| 24 |                   |                  |                    |                    |
| 25 |                   |                  |                    |                    |
| 26 |                   |                  |                    |                    |

COMMENTS:

60  
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

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 5.00 high 100  
 GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

| COMPOUND             | RT OF STANDARDS |       |       | MEAN<br>RT | RT WINDOW |       |
|----------------------|-----------------|-------|-------|------------|-----------|-------|
|                      | LOW             | MID   | HIGH  |            | FROM      | TO    |
| alpha-BHC            |                 |       |       |            |           |       |
| beta-BHC             |                 |       |       |            |           |       |
| delta-BHC            |                 |       |       |            |           |       |
| gamma-BHC (Lindane)  |                 |       |       |            |           |       |
| Heptachlor           | 11.42           | 11.42 | 11.42 | 11.42      | 11.37     | 11.47 |
| Aldrin               |                 |       |       |            |           |       |
| Heptachlor epoxide   | 14.47           | 14.47 | 14.47 | 14.47      | 14.40     | 14.54 |
| Endosulfan I         |                 |       |       |            |           |       |
| Dieldrin             |                 |       |       |            |           |       |
| 4,4'-DDE             |                 |       |       |            |           |       |
| Endrin               | 17.96           | 17.96 | 17.96 | 17.96      | 17.89     | 18.03 |
| Endosulfan II        |                 |       |       |            |           |       |
| 4,4'-DDD             |                 |       |       |            |           |       |
| Endosulfan sulfate   |                 |       |       |            |           |       |
| 4,4'-DDT             |                 |       |       |            |           |       |
| Methoxychlor         |                 |       |       |            |           |       |
| Endrin ketone        |                 |       |       |            |           |       |
| Endrin aldehyde      |                 |       |       |            |           |       |
| alpha-Chlordane      | 15.57           | 15.57 | 15.57 | 15.57      | 15.50     | 15.64 |
| gamma-Chlordane      | 15.02           | 15.02 | 15.02 | 15.02      | 14.95     | 15.09 |
| Tetrachloro-m-xylene | 6.69            | 6.69  | 6.69  | 6.69       | 6.64      | 6.74  |
| Decachlorobiphenyl   | 31.11           | 31.12 | 31.13 | 31.12      | 31.02     | 31.22 |

\* Surrogate retention times are measured from Standard Mix A analyses.  
 Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

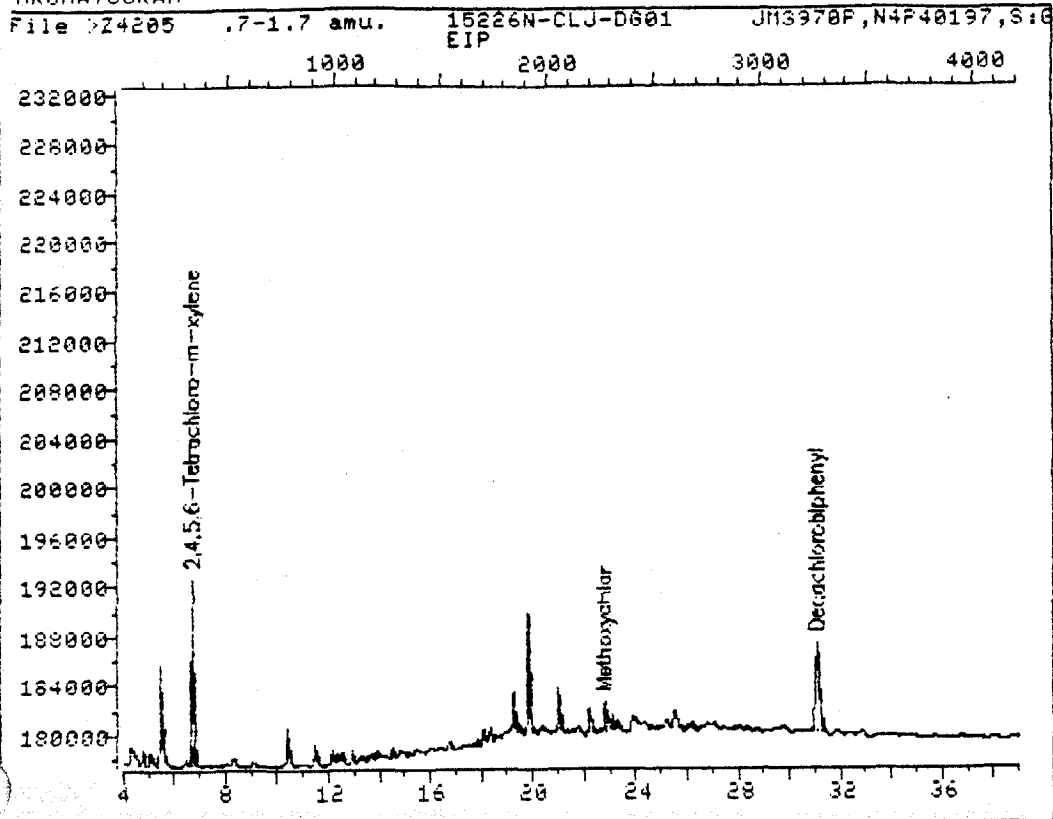
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 2 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

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

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

Retention time windows are ± 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: >Z4205::D5 Quant Output File: ^Z4205::D5  
Name: 15226N-CLJ-DG01 Instrument ID: Z  
Misc: JM3970P,N4P40197,S:G1,2.35,6.5:1, 10X

Id File: IZP307::D5  
Title: PESTICIDES 08-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940325 14:50  
Injected at: 940325 14:10

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DL  
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QUANT REPORT

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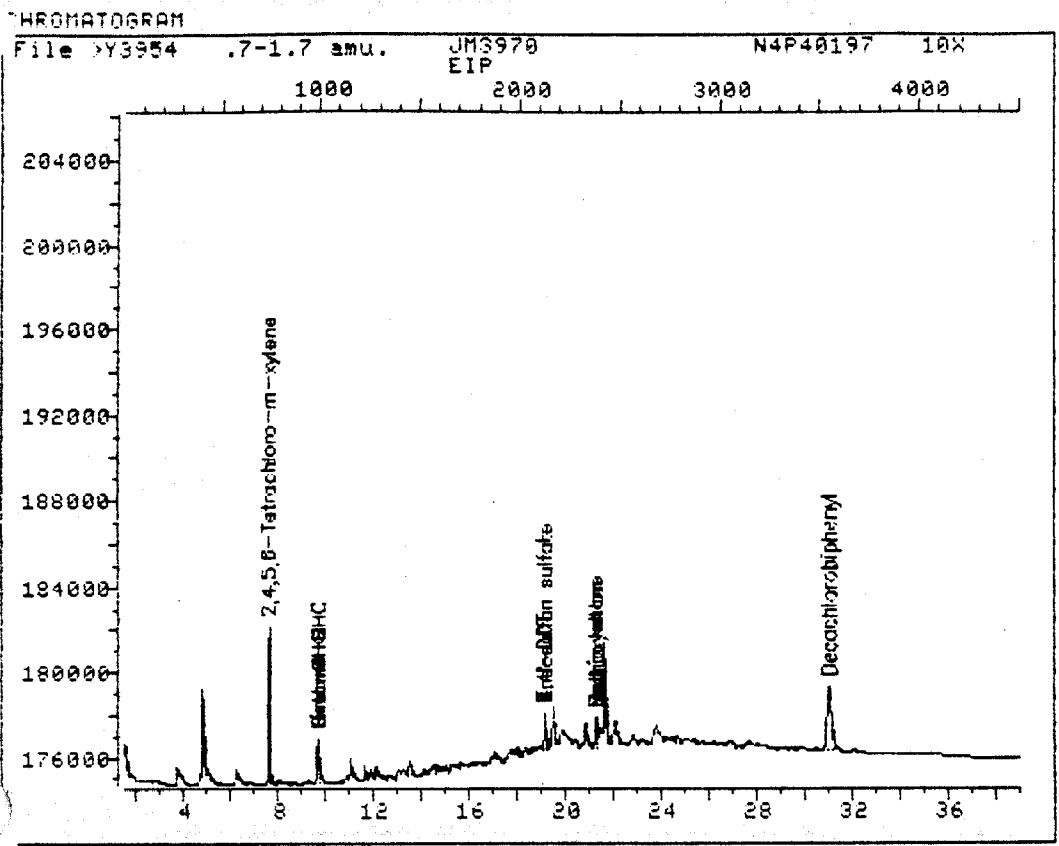
Operator ID: USER1                      Quant Rev: 7                      Quant Time: 940325 14:50  
Output File: ^Z4205::D5                      Injected at: 940325 14:10  
Data File: >Z4205::D5                      Dilution Factor: 10.00000  
Name: 15226N-CLJ-DG01                      Instrument ID: Z  
Misc: JM3970P,N4P40197,S:G1,2.35,6.5:1, 10X

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   | 63712 | .199            | ug/ml            | 100 |
| *21) #Methoxychlor               | 22.76 | 2252  | 19263 | <del>.148</del> | <del>ug/ml</del> | 100 |
| 23) #Decachlorobiphenyl          | 31.04 | 3246  | 82982 | .196            | ug/ml            | 100 |

# Compound uses ESTD

\* Confirmed not present on DB-5 (Run # Y3954)



Data File: >Y3954::D5  
Name: JM3970  
Misc: N4P40197 10X

Quant Output File: ^Y3954::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 : 940325 15:34  
Injected at: 940325 14:54



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QUANT REPORT

Operator ID: USER1  
Output File: ^Y3954::05  
Data File: >Y3954::05  
Name: JM3970  
Misc: N4P40197 10X

Quant Rev: 7      Quant Time: 940325 15:34  
                  Injected at: 940325 14:54  
Dilution Factor: 10.00000  
Instrument ID: Y

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

| Compound                         | R.T.  | Scan# | Area  | Conc  | Units            | q   |
|----------------------------------|-------|-------|-------|-------|------------------|-----|
| 1) #2,4,5,6-Tetrachloro-m-xylene | 7.58  | 731   | 30175 | .236  | ug/ml            | 100 |
| 3) #Beta-BHC                     | 9.67  | 982   | 10239 | .118  | <del>ug/ml</del> | 100 |
| 4) #Gamma-BHC                    | 9.67  | 982   | 10239 | .0652 | <del>ug/ml</del> | 100 |
| 5) #Lindane                      | 9.67  | 982   | 10239 | .0652 | <del>ug/ml</del> | 100 |
| 19) #4,4'-DDT                    | 19.13 | 2116  | 9535  | .0958 | <del>ug/ml</del> | 100 |
| 20) #Endosulfan sulfate          | 19.13 | 2116  | 9535  | .0958 | <del>ug/ml</del> | 100 |
| 21) #Endrin ketone               | 21.24 | 2370  | 8480  | .0561 | <del>ug/ml</del> | 100 |
| 22) #Methoxychlor                | 21.24 | 2370  | 8480  | .151  | <del>ug/ml</del> | 100 |
| 23) #Decachlorobiphenyl          | 30.99 | 3540  | 34945 | .209  | ug/ml            | 100 |

# Compound uses ESTD

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBIKI

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

Matrix: (soil/water) SOIL Lab Sample ID: NAC40196

Sample wt/vol: 2.00 (g/mL) Lab File ID: D8099

Level: (low/med) med Date Received: 02-25-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-04-94

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

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

| CAS NO.  | COMPOUND                     | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|----------|------------------------------|------------------------------------------------------|---|
| 108-95-2 | Phenol                       | 50 000                                               | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 50 000                                               | U |
| 95-57-8  | 2-Chlorophenol               | 50 000                                               | U |
| 541-73-1 | 1,3-Dichlorobenzene          | 50 000                                               | U |
| 106-46-7 | 1,4-Dichlorobenzene          | 50 000                                               | U |
| 95-50-1  | 1,2-Dichlorobenzene          | 50 000                                               | U |
| 95-48-7  | 2-Methylphenol               | 50 000                                               | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 50 000                                               | U |
| 106-44-5 | 4-Methylphenol               | 50 000                                               | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 50 000                                               | U |
| 67-72-1  | Hexachloroethane             | 50 000                                               | U |
| 98-95-3  | Nitrobenzene                 | 50 000                                               | U |
| 78-59-1  | Isophorone                   | 50 000                                               | U |
| 88-75-5  | 2-Nitrophenol                | 50 000                                               | U |
| 105-67-9 | 2,4-Dimethylphenol           | 50 000                                               | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 50 000                                               | U |
| 120-83-2 | 2,4-Dichlorophenol           | 50 000                                               | U |
| 120-82-1 | 1,2,4-Trichlorobenzene       | 50 000                                               | U |
| 91-20-3  | Naphthalene                  | 50 000                                               | U |
| 106-47-8 | 4-Chloroaniline              | 50 000                                               | U |
| 87-68-3  | Hexachlorobutadiene          | 50 000                                               | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 50 000                                               | U |
| 91-57-6  | 2-Metnylnaphthalene          | 50 000                                               | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 50 000                                               | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 50 000                                               | U |
| 95-95-4  | 2,4,5-Trichloropnenol        | 50 000                                               | U |
| 91-58-7  | 2-Chloronaphtnalene          | 50 000                                               | U |
| 88-74-4  | 2-Nitroaniline               | 50 000                                               | U |
| 131-11-3 | Dimethylphthalate            | 50 000                                               | U |
| 208-96-8 | Aceraphthylene               | 50 000                                               | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 50 000                                               | U |
| 99-09-2  | 3-Nitroaniline               | 50 000                                               | U |
| 83-32-9  | Acenaphtene                  | 50 000                                               | U |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

034  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBIKI

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

Matrix: (soil/water) SOIL Lab Sample ID: NA-C40196

Sample wt/vol: 2.00 (g/mL) Lab File ID: D8099

Level: (low/med) med Date Received: 02-25-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-04-94

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

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

| CAS NO.   | COMPOUND                   | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|-----------|----------------------------|------------------------------------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 125 000                                              | U |
| 100-02-7  | 4-Nitrophenol              | 125 000                                              | U |
| 132-64-9  | Dibenzofuran               | 50 000                                               | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 50 000                                               | U |
| 84-66-2   | Diethylphthalate           | 50 000                                               | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 50 000                                               | U |
| 86-73-7   | Fluorene                   | 50 000                                               | U |
| 100-01-6  | 4-Nitroaniline             | 50 000                                               | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 50 000                                               | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 50 000                                               | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 50 000                                               | U |
| 118-74-1  | Hexachlorobenzene          | 50 000                                               | U |
| 87-86-5   | Pentachlorophenol          | 125 000                                              | U |
| 85-01-8   | Phenanthrene               | 50 000                                               | U |
| 120-12-7  | Anthracene                 | 50 000                                               | U |
| 86-74-8   | Carbazole                  | 50 000                                               | U |
| 84-74-2   | Di-n-butylphthalate        | 50 000                                               | U |
| 206-44-0  | Fluoranthene               | 50 000                                               | U |
| 129-00-0  | Pyrene                     | 50 000                                               | U |
| 85-68-7   | Butylbenzylphthalate       | 50 000                                               | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 50 000                                               | U |
| 56-55-3   | Benzo(a)anthracene         | 50 000                                               | U |
| 218-01-9  | Chrysene                   | 50 000                                               | U |
| 117-31-7  | bis(2-Ethylhexyl)phthalate | 50 000                                               | U |
| 117-84-0  | Di-n-octylphthalate        | 50 000                                               | U |
| 205-99-2  | Benzo(b)fluoranthene       | 50 000                                               | U |
| 207-08-9  | Benzo(k)fluoranthene       | 50 000                                               | U |
| 50-32-8   | Benzo(a)pyrene             | 50 000                                               | U |
| 193-39-5  | Indeno(1,2,3-cd)pyrene     | 50 000                                               | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 50 000                                               | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 50 000                                               | U |

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBIKI  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: NAC40196  
 Sample wt/vol: 2.00 (g/mL) Lab File ID: D8099  
 Level: (low/med) med Date Received: 02-25-1994  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-04-1994  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03-11-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

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.         |               |    |            |   |
| 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.

SBLKIBS

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N4C40196CS  
 Sample wt/vol: 200 (g/mL) g Lab File ID: D8100  
 Level: (low/med) MED Date Received: 2-25-94  
 % Moisture:        decanted: (Y/N) N Date Extracted: 3-4-94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3-11-94  
 Injection Volume: 200 (uL) Dilution Factor: 100  
 GPC Cleanup: (Y/N) N pH:       

CONCENTRATION UNITS:

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

|          |                              |         |   |
|----------|------------------------------|---------|---|
| 108-95-2 | Phenol                       | 176,000 |   |
| 111-44-4 | bis(2-Chloroethyl) ether     | 93,300  |   |
| 95-57-8  | 2-Chlorophenol               | 186,000 |   |
| 541-73-1 | 1,3-Dichlorobenzene          | 177,000 |   |
| 106-46-7 | 1,4-Dichlorobenzene          | 168,000 |   |
| 95-50-1  | 1,2-Dichlorobenzene          | 169,000 |   |
| 95-48-7  | 2-Methylphenol               | 146,000 |   |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 50,000  | U |
| 106-44-5 | 4-Methylphenol               | 139,000 |   |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 157,000 |   |
| 67-72-1  | Hexachloroethane             | 168,000 |   |
| 98-95-3  | Nitrobenzene                 | 50,000  | U |
| 78-59-1  | Isophorone                   | 148,000 |   |
| 88-75-5  | 2-Nitrophenol                | 50,000  | U |
| 105-67-9 | 2,4-Dimethylphenol           | 50,000  | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 50,000  | U |
| 120-83-2 | 2,4-Dichlorophenol           | 206,000 |   |
| 120-82-1 | 1,2,4-Trichlorobenzene       | 161,000 |   |
| 91-20-3  | Naphthalene                  | 2830    |   |
| 106-47-8 | 4-Chloroaniline              | 42,000  |   |
| 87-68-3  | Hexachlorobutadiene          | 50,000  | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 165,000 |   |
| 91-57-6  | 2-Methylnaphthalene          | 153,000 |   |
| 77-47-4  | Hexachlorocyclopentadiene    | 50,000  | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 186,000 |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 184,000 |   |
| 91-58-7  | 2-Chloronaphthalene          | 2370    |   |
| 88-74-4  | 2-Nitroaniline               | 50,000  | U |
| 131-11-3 | Dimethylphthalate            | 50,000  | U |
| 208-96-8 | Acenaphthylene               | 166,000 |   |
| 606-20-2 | 2,6-Dinitrotoluene           | 2850    |   |
| 99-09-2  | 3-Nitroaniline               | 1580    |   |
| 83-32-9  | Acenaphthene                 | 134,000 |   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

037  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBLKIBS

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

Matrix: (soil/water) SOIL Lab Sample ID: N4C40196CS

Sample wt/vol: 200 (g/mL) g Lab File ID: 08100

Level: (low/med) MED Date Received: 2-25-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Extracted: 3-4-94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3-11-94

Injection Volume: 200 (uL) Dilution Factor: 1.00

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

| CAS NO.   | COMPOUND                   | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|----------------------------|------------------------------------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 197,000                                              |   |
| 100-02-7  | 4-Nitrophenol              | 365,000                                              |   |
| 132-64-9  | Dibenzofuran               | 650                                                  |   |
| 121-14-2  | 2,4-Dinitrotoluene         | 210,000                                              |   |
| 84-66-2   | Diethylphthalate           | 50,000                                               | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 50,000                                               | U |
| 86-73-7   | Fluorene                   | 408                                                  |   |
| 100-01-6  | 4-Nitroaniline             | 206,000                                              |   |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 50,000                                               | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 50,000                                               | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 162,000                                              |   |
| 118-74-1  | Hexachlorobenzene          | 3180                                                 |   |
| 87-86-5   | Pentachlorophenol          | 318,000                                              |   |
| 85-01-8   | Phenanthrene               | 142,000                                              |   |
| 120-12-7  | Anthracene                 | 138,000                                              |   |
| 86-74-8   | Carbazole                  | 171,000                                              |   |
| 84-74-2   | Di-n-butylphthalate        | 110,000                                              |   |
| 206-44-0  | Fluoranthene               | 50,000                                               | U |
| 129-00-0  | Pyrene                     | 155,000                                              |   |
| 85-68-7   | Butylbenzylphthalate       | 148,000                                              |   |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 142,000                                              |   |
| 56-55-3   | Benzo(a)anthracene         | 169,000                                              |   |
| 218-01-9  | Chrysene                   | 184,000                                              |   |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 124,000                                              |   |
| 117-84-0  | Di-n-octylphthalate        | 293                                                  |   |
| 205-99-2  | Benzo(b)fluoranthene       | 50,000                                               | U |
| 207-08-9  | Benzo(k)fluoranthene       | 50,000                                               | U |
| 50-32-8   | Benzo(a)pyrene             | 184,000                                              |   |
| 193-39-5  | Indeno(1,2,3-cd)pyrene     | 50,000                                               | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 50,000                                               | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 50,000                                               | U |

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

038  
EPA SAMPLE NO.

CLJ-DG-CIMS

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3970CS

Sample wt/vol: 344 (g/mL) g

Lab File ID: DS101

Level: (low/med) MED

Date Received: 2-25-94

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

Date Extracted: 3-4-94

Concentrated Extract Volume: ~~6500~~<sup>6500</sup> (uL)

Date Analyzed: 3-11-94

Injection Volume: 200 (uL)

Dilution Factor: 20.0

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

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

| CAS NO.  | COMPOUND                     | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|------------------------------------------------------|---|
| 108-95-2 | Phenol                       | 248,000                                              | J |
| 111-44-4 | bis(2-Chloroethyl) ether     | 93,000                                               | J |
| 95-57-8  | 2-Chlorophenol               | 226,000                                              | J |
| 541-73-1 | 1,3-Dichlorobenzene          | 194,000                                              | J |
| 106-46-7 | 1,4-Dichlorobenzene          | 185,000                                              | J |
| 95-50-1  | 1,2-Dichlorobenzene          | 215,000                                              | J |
| 95-48-7  | 2-Methylphenol               | 208,000                                              | J |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1,070,000                                            | U |
| 106-44-5 | 4-Methylphenol               | 184,000                                              | J |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 243,000                                              | J |
| 67-72-1  | Hexachloroethane             | 159,000                                              | J |
| 98-95-3  | Nitrobenzene                 | 1,070,000                                            | U |
| 78-59-1  | Isophorone                   | 240,000                                              | J |
| 88-75-5  | 2-Nitrophenol                | 1,070,000                                            | U |
| 105-67-9 | 2,4-Dimethylphenol           | 1,070,000                                            | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 1,070,000                                            | U |
| 120-83-2 | 2,4-Dichlorophenol           | 304,000                                              | J |
| 120-82-1 | 1,2,4-Trichlorobenzene       | 214,000                                              | J |
| 91-20-3  | Naphthalene                  | 1,070,000                                            | U |
| 106-47-8 | 4-Chloroaniline              | 116,000                                              | J |
| 87-68-3  | Hexachlorobutadiene          | 1,070,000                                            | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 234,000                                              | J |
| 91-57-6  | 2-Methylnaphthalene          | 253,000                                              | J |
| 77-47-4  | Hexachlorocyclopentadiene    | 1,070,000                                            | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 251,000                                              | J |
| 95-95-4  | 2,4,5-Trichlorophenol        | 277,000                                              | J |
| 91-58-7  | 2-Chloronaphthalene          | 1,070,000                                            | U |
| 88-74-4  | 2-Nitroaniline               | 1,070,000                                            | U |
| 131-11-3 | Dimethylphthalate            | 1,070,000                                            | U |
| 208-96-8 | Acenaphthylene               | 257,000                                              | J |
| 606-20-2 | 2,6-Dinitrotoluene           | 1,070,000                                            | U |
| 99-09-2  | 3-Nitroaniline               | 1,070,000                                            | U |
| 83-32-9  | Acenaphthene                 | 225,000                                              | J |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

039  
EPA SAMPLE NO.

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

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

Matrix: (soil/water) SOIL Lab Sample ID: JM3970CS

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8101

Level: (low/med) MED Date Received: 2-25-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: 5000<sup>uL</sup> <sup>6500</sup> (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 200

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

| CAS NO.   | COMPOUND                   | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | <u>Q</u> |
|-----------|----------------------------|------------------------------------------------------|----------|
| 51-28-5   | 2,4-Dinitrophenol          | 5,350,000                                            | U        |
| 100-02-7  | 4-Nitrophenol              | 5,350,000                                            | U        |
| 132-64-9  | Dibenzofuran               | 1,070,000                                            | U        |
| 121-14-2  | 2,4-Dinitrotoluene         | 189,000                                              | J        |
| 84-66-2   | Diethylphthalate           | 1,070,000                                            | U        |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1,070,000                                            | U        |
| 86-73-7   | Fluorene                   | 1,070,000                                            | U        |
| 100-01-6  | 4-Nitroaniline             | 1,070,000                                            | U        |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 1,070,000                                            | U        |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 1,070,000                                            | U        |
| 101-55-3  | 4-Bromophenyl-phenylether  | 270,000                                              | J        |
| 118-74-1  | Hexachlorobenzene          | 1,070,000                                            | U        |
| 87-86-5   | Pentachlorophenol          | 159,000                                              | J        |
| 85-01-8   | Phenanthrene               | 222,000                                              | J        |
| 120-12-7  | Anthracene                 | 216,000                                              | J        |
| 86-74-8   | Carbazole                  | 230,000                                              | J        |
| 84-74-2   | Di-n-butylphthalate        | 277,000                                              | J        |
| 206-44-0  | Fluoranthene               | 1,070,000                                            | U        |
| 129-00-0  | Pyrene                     | 208,000                                              | J        |
| 85-68-7   | Butylbenzylphthalate       | 250,000                                              | J        |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 185,000                                              | J        |
| 56-55-3   | Benzo(a)anthracene         | 196,000                                              | J        |
| 218-01-9  | Chrysene                   | 213,000                                              | J        |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 289,000                                              | J        |
| 117-84-0  | Di-n-octylphthalate        | 2,100                                                | J        |
| 205-99-2  | Benzo(b)fluoranthene       | 1,070,000                                            | U        |
| 207-08-9  | Benzo(k)fluoranthene       | 1,070,000                                            | U        |
| 50-32-8   | Benzo(a)pyrene             | 194,000                                              | J        |
| 193-39-5  | Indeno(1,2,3-cd)pyrene     | 1,070,000                                            | U        |
| 53-70-3   | Dibenz(a,h)anthracene      | 1,070,000                                            | U        |
| 191-24-2  | Benzo(g,h,i)perylene       | 1,070,000                                            | U        |

(1) - Cannot be separated from Diphenylamine



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

040-010  
EPA SAMPLE NO.

CLJ-DG-01MSD

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: 1M3970CR  
 Sample wt/vol: 2.44 (g/mL) g Lab File ID: DB102  
 Level: (low/med) MED Date Received: 2-25-94  
 ‡ Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 3-4-94  
 Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-11-94  
 Injection Volume: 200 (uL) Dilution Factor: 20  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

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

| CAS NO.  | COMPOUND                     | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|------------------------------------------------------|---|
| 108-95-2 | Phenol                       | 315,000                                              | J |
| 111-44-4 | bis(2-Chloroethyl) ether     | 125,000                                              | J |
| 95-57-8  | 2-Chlorophenol               | 231,000                                              | J |
| 541-73-1 | 1,3-Dichlorobenzene          | 233,000                                              | J |
| 106-46-7 | 1,4-Dichlorobenzene          | 223,000                                              | J |
| 95-50-1  | 1,2-Dichlorobenzene          | 260,000                                              | J |
| 95-48-7  | 2-Methylphenol               | 260,000                                              | J |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1070,000                                             | U |
| 106-44-5 | 4-Methylphenol               | 230,000                                              | J |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 295,000                                              | J |
| 67-72-1  | Hexachloroethane             | 197,000                                              | J |
| 98-95-3  | Nitrobenzene                 | 1,070,000                                            | U |
| 78-59-1  | Isophorone                   | 294,000                                              | J |
| 88-75-5  | 2-Nitrophenol                | 1,070,000                                            | U |
| 105-67-9 | 2,4-Dimethylphenol           | 1,070,000                                            | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 1,070,000                                            | U |
| 120-83-2 | 2,4-Dichlorophenol           | 387,000                                              | J |
| 120-82-1 | 1,2,4-Trichlorobenzene       | 253,000                                              | J |
| 91-20-3  | Naphthalene                  | 1,070,000                                            | U |
| 106-47-8 | 4-Chloroaniline              | 404,000                                              | J |
| 87-68-3  | Hexachlorobutadiene          | 1,070,000                                            | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 298,000                                              | J |
| 91-57-6  | 2-Methylnaphthalene          | 307,000                                              | J |
| 77-47-4  | Hexachlorocyclopentadiene    | 1,070,000                                            | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 321,000                                              | J |
| 95-95-4  | 2,4,5-Trichlorophenol        | 346,000                                              | J |
| 91-58-7  | 2-Chloronaphthalene          | 1,070,000                                            | U |
| 88-74-4  | 2-Nitroaniline               | 1,070,000                                            | U |
| 131-11-3 | Dimethylphthalate            | 1,070,000                                            | U |
| 208-96-8 | Acenaphthylene               | 314,000                                              | J |
| 606-20-2 | 2,6-Dinitrotoluene           | 1,070,000                                            | U |
| 99-09-2  | 3-Nitroaniline               | 1,070,000                                            | U |
| 83-32-9  | Acenaphthene                 | 263,000                                              | J |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01MSD

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) SOIL Lab Sample ID: 1M3970CR

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8102

Level: (low/med) MED Date Received: 2-25-94

‡ Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-11-94

Injection Volume: 200 (uL) Dilution Factor: 20

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

CONCENTRATION UNITS:

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

|           |                            |                         |   |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 5,350,000               | U |
| 100-02-7  | 4-Nitrophenol              | 5,350,000 <sup>DL</sup> | J |
| 132-64-9  | Dibenzofuran               | 1,070,000               | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 236,000                 | J |
| 84-66-2   | Diethylphthalate           | 1,070,000               | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1,070,000               | U |
| 86-73-7   | Fluorene                   | 1,070,000               | U |
| 100-01-6  | 4-Nitroaniline             | 1,070,000               | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 1,070,000               | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 1,070,000               | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 326,000                 | J |
| 118-74-1  | Hexachlorobenzene          | 1,070,000               | U |
| 87-86-5   | Pentachlorophenol          | 264,000                 | J |
| 85-01-8   | Phenanthrene               | 265,000                 | J |
| 120-12-7  | Anthracene                 | 253,000                 | J |
| 86-74-8   | Carbazole                  | 350,000                 | J |
| 84-74-2   | Di-n-butylphthalate        | 340,000                 | J |
| 206-44-0  | Fluoranthene               | 1,070,000               | U |
| 129-00-0  | Pyrene                     | 251,000                 | J |
| 85-68-7   | Butylbenzylphthalate       | 308,000                 | J |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 250,000                 | J |
| 56-55-3   | Benzo(a)anthracene         | 233,000                 | J |
| 218-01-9  | Chrysene                   | 255,000                 | J |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 326,000                 | J |
| 117-84-0  | Di-n-octylphthalate        | 1410                    | J |
| 205-99-2  | Benzo(b)fluoranthene       | 1,070,000               | U |
| 207-08-9  | Benzo(k)fluoranthene       | 1,070,000               | U |
| 50-32-8   | Benzo(a)pyrene             | 204,000                 | J |
| 193-39-5  | Indeno(1,2,3-cd)pyrene     | 1,070,000               | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 1,070,000               | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 1,070,000               | U |

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DG-01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3970  
 Sample wt/vol: 2.00 (g/mL) g Lab File ID: D8095  
 Level: (low/med) med Date Received: 02-25-94  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Extracted: 03-04-94  
 Concentrated Extract Volume: 6000 (uL) Date Analyzed: 03-10-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 20  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

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

| CAS NO.  | COMPOUND                     | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|----------|------------------------------|------------------------------------------------------|---|
| 108-95-2 | Phenol                       | 600 000                                              | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 600 000                                              | U |
| 95-57-8  | 2-Chlorophenol               | 600 000                                              | U |
| 541-73-1 | 1,3-Dichlorobenzene          | 600 000                                              | U |
| 106-46-7 | 1,4-Dichlorobenzene          | 600 000                                              | U |
| 95-50-1  | 1,2-Dichlorobenzene          | 600 000                                              | U |
| 95-48-7  | 2-Methylphenol               | 600 000                                              | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 600 000                                              | U |
| 106-44-5 | 4-Methylphenol               | 600 000                                              | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 600 000                                              | U |
| 67-72-1  | Hexachloroethane             | 600 000                                              | U |
| 98-95-3  | Nitrobenzene                 | 600 000                                              | U |
| 78-59-1  | Isophorone                   | 600 000                                              | U |
| 88-75-5  | 2-Nitrophenol                | 600 000                                              | U |
| 105-67-9 | 2,4-Dimethylphenol           | 600 000                                              | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 600 000                                              | U |
| 120-83-2 | 2,4-Dichlorophenol           | 600 000                                              | U |
| 120-82-1 | 1,2,4-Trichlorobenzene       | 600 000                                              | U |
| 91-20-3  | Naphthalene                  | 600 000                                              | U |
| 106-47-8 | 4-Chloroaniline              | 600 000                                              | U |
| 87-68-3  | Hexachlorobutadiene          | 600 000                                              | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 600 000                                              | U |
| 91-57-6  | 2-Methylnaphthalene          | 600 000                                              | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 600 000                                              | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 600 000                                              | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 600 000                                              | U |
| 91-58-7  | 2-Chloronaphthalene          | 600 000                                              | U |
| 88-74-4  | 2-Nitroaniline               | 600 000                                              | U |
| 131-11-3 | Dimethylphthalate            | 600 000                                              | U |
| 208-96-8 | Acenaphthylene               | 600 000                                              | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 600 000                                              | U |
| 99-09-2  | 3-Nitroaniline               | 600 000                                              | U |
| 83-32-9  | Acenaphthene                 | 600 000                                              | U |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DG-01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3970  
 Sample wt/vol: 2.00 (g/mL) Lab File ID: D8095  
 Level: (low/med) med Date Received: 02-25-94  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-04-94  
 Concentrated Extract Volume: 6000 (uL) Date Analyzed: 03-10-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 20  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

| CAS NO.   | COMPOUND                   | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|-----------|----------------------------|------------------------------------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 3000 000                                             | U |
| 100-02-7  | 4-Nitrophenol              | 3000 000                                             | U |
| 132-64-9  | Dibenzofuran               | 600 000                                              | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 600 000                                              | U |
| 84-66-2   | Diethylphthalate           | 600 000                                              | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 600 000                                              | U |
| 86-73-7   | Fluorene                   | 600 000                                              | U |
| 100-01-6  | 4-Nitroaniline             | 600 000                                              | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 600 000                                              | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 600 000                                              | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 600 000                                              | U |
| 118-74-1  | Hexachlorobenzene          | 600 000                                              | U |
| 87-86-5   | Pentachlorophenol          | 3000 000                                             | U |
| 85-01-8   | Phenanthrene               | 600 000                                              | U |
| 120-12-7  | Anthracene                 | 600 000                                              | U |
| 86-74-8   | Carbazole                  | 600 000                                              | U |
| 84-74-2   | Di-n-butylphthalate        | 600 000                                              | U |
| 206-44-0  | Fluoranthene               | 600 000                                              | U |
| 129-00-0  | Pyrene                     | 600 000                                              | U |
| 85-68-7   | Butylbenzylphthalate       | 600 000                                              | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 600 000                                              | U |
| 56-55-3   | Benzo(a)anthracene         | 600 000                                              | U |
| 218-01-9  | Chrysene                   | 600 000                                              | U |
| 117-31-7  | bis(2-Ethylhexyl)phthalate | 600 000                                              | U |
| 117-84-0  | Di-n-octylphthalate        | 600 000                                              | U |
| 205-99-2  | Benzo(b)fluoranthene       | 600 000                                              | U |
| 207-08-9  | Benzo(k)fluoranthene       | 600 000                                              | U |
| 50-32-8   | Benzo(a)pyrene             | 600 000                                              | U |
| 193-39-5  | Indeno(1,2,3-cd)pyrene     | 600 000                                              | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 600 000                                              | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 600 000                                              | U |

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3970

Sample wt/vol: 2.00 (g/mL)

Lab File ID: D8095

Level: (low/med) med

Date Received: 02-25-94

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

Date Extracted: 03-04-94

Concentrated Extract Volume: 6000 (uL)

Date Analyzed: 03-10-94

Injection Volume: 2.0 (uL)

Dilution Factor: 20

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

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME   | RT     | EST. CONC. | Q |
|------------|-----------------|--------|------------|---|
| 1. C       | Unk hydrocarbon | 18.691 | 369000     | J |
| 2. C       | Unk hydrocarbon | 19.705 | 394000     | J |
| 3. C       | Unk hydrocarbon | 20.652 | 509000     | J |
| 4. C       | Unk hydrocarbon | 21.554 | 478000     | J |
| 5. C       | Unk hydrocarbon | 22.412 | 610000     | J |
| 6. C       | Unk hydrocarbon | 23.224 | 547000     | J |
| 7. C       | Unk hydrocarbon | 23.540 | 385000     | J |
| 8. C       | Unk hydrocarbon | 24.315 | 484000     | J |
| 9. C       | Unk hydrocarbon | 24.761 | 515000     | J |
| 10. C      | Unk hydrocarbon | 25.055 | 529000     | J |
| 11. C      | Unk hydrocarbon | 25.575 | 844000     | J |
| 12. C      | Unk hydrocarbon | 26.434 | 562000     | J |
| 13. C      | Unk hydrocarbon | 27.407 | 501000     | J |
| 14. C      | Unk hydrocarbon | 28.515 | 568000     | J |
| 15. C      | Unk hydrocarbon | 29.781 | 575000     | J |
| 16. C      | Unk hydrocarbon | 31.272 | 548000     | J |
| 17. C      | Unk hydrocarbon | 33.034 | 646000     | J |
| 18. C      | Unk hydrocarbon | 35.090 | 677000     | J |
| 19. C      | Unk hydrocarbon | 37.551 | 771000     | J |
| 20. C      | Unk hydrocarbon | 40.455 | 796000     | J |
| 21.        |                 |        |            |   |
| 22.        |                 |        |            |   |
| 23.        |                 |        |            |   |
| 24.        |                 |        |            |   |
| 25.        |                 |        |            |   |
| 26.        |                 |        |            |   |
| 27.        |                 |        |            |   |
| 28.        |                 |        |            |   |
| 29.        |                 |        |            |   |
| 30.        |                 |        |            |   |

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

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

|    | EPA<br>SAMPLE NO. | S1<br>(NBZ) # | S2<br>(FBP) # | S3<br>(TPH) # | S4<br>(PHL) # | S5<br>(2FP) # | S6<br>(TBP) # | S7<br>(2CP) # | S8<br>(DCB) # | TOT<br>OUT |
|----|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| 01 | SBIK1             | 82.1          | 86.7          | 86.0          | 82.7          | 78.9          | 120           |               |               | 0          |
| 02 | SBIK1RS           | 75.2          | 58.6          | 89.6          | 72.0          | 78.1          | 98.2          |               |               | 0          |
| 03 | CLJ-DG-01         | 38.9          | 78.9          | 72.0          | 46.4          | 42.1          | 55.2          |               |               | 0          |
| 04 | CLJ-DG-01MS       | 95.7          | *130          | 112           | 113           | 101           | *144          |               |               | 2          |
| 05 | CLJ-DG-01MSD      | *127          | *153          | *139          | *143          | *133          | *190          |               |               | 6          |
| 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 |                   |               |               |               |               |               |               |               |               |            |

QC LIMITS  
 S1 (NBZ) = Nitrobenzene-d5 (23-120)  
 S2 (FBP) = 2-Fluorobiphenyl (30-115)  
 S3 (TPH) = Terphenyl-d14 (18-137)  
 S4 (PHL) = Phenol-d5 (24-113)  
 S5 (2FP) = 2-Fluorophenol (25-121)  
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)  
 S7 (2CP) = 2-Chlorophenol-d4 (20-130) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (20-130) (advisory)

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

## SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: SBK1BS

| COMPOUND                 | SPIKE<br>ADDED<br>( $\mu\text{g/L}$ ) | BLANK<br>CONCENTRATION<br>( $\mu\text{g/L}$ ) | BS<br>CONCENTRATION<br>( $\mu\text{g/L}$ ) | BS<br>%<br>REC # | QC<br>LIMITS<br>REC. |
|--------------------------|---------------------------------------|-----------------------------------------------|--------------------------------------------|------------------|----------------------|
| Phenol                   | 250,000                               | 0                                             | 176,000                                    | 70.4             | 12-110               |
| 2-Chlorophenol           | 250,000                               | 0                                             | 186,000                                    | 74.4             | 27-123               |
| 1,4-Dichlorobenzene      | 250,000                               | 0                                             | 168,000                                    | 67.2             | 36-97                |
| N-Nitroso-di-n-Prop. (1) | 250,000                               | 0                                             | 187,000                                    | 74.8             | 41-116               |
| 1,2,4-Trichlorobenzene   | 250,000                               | 0                                             | 161,000                                    | 64.4             | 39-98                |
| 4-Chloro-3-methylphenol  | 250,000                               | 0                                             | 165,000                                    | 66.0             | 23-97                |
| Benaphthene              | 250,000                               | 0                                             | 162,000                                    | 66.4             | 46-118               |
| Nitrophenol              | 250,000                               | 0                                             | 365,000                                    | 146 *            | 10-80                |
| 2,4-Dinitrotoluene       | 250,000                               | 0                                             | 210,000                                    | 84.0             | 24-96                |
| Pentachlorophenol        | 250,000                               | 0                                             | 318,000                                    | 127 *            | 9-103                |
| Pyrene                   | 250,000                               | 0                                             | 155,000                                    | 62.0             | 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: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Matrix Spike - EPA Sample No.: CLJ-DG-01MS Level: (low/med) med

| COMPOUND                 | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|--------------------------|---------------------|------------------------------|--------------------------|------------|----------------|
| Phenol                   | 76923               | 0                            | 4600                     | 121*       | 26-90          |
| 2-Chlorophenol           | 76923               | 0                            | 4250                     | 111*       | 25-102         |
| 1,4-Dichlorobenzene      | 76923               | 0                            | 3480                     | 90.5       | 28-104         |
| N-Nitroso-di-n-prop. (1) | 76923               | 0                            | 4560                     | 119        | 41-126         |
| 1,2,4-Trichlorobenzene   | 76923               | 0                            | 4020                     | 105        | 38-107         |
| 4-Chloro-3-methylphenol  | 76923               | 0                            | 4390                     | 114*       | 26-103         |
| Acenaphthene             | 76923               | 0                            | 4220                     | 110        | 31-137         |
| 4-Nitrophenol            | 76923               | 0                            | * 0                      | 0*         | 11-114         |
| 2,4-Dinitrotoluene       | 76923               | 0                            | 3550                     | 92.3*      | 28-89          |
| Pentachlorophenol        | 76923               | 0                            | 2980                     | 77.5       | 17-109         |
| Pyrene                   | 76923               | 0                            | 3910                     | 102        | 35-142         |

| COMPOUND                 | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD REC. |
|--------------------------|---------------------|---------------------------|-------------|---------|--------------------|
| Phenol                   | 76923               | 5910                      | 154*        | 23.7    | 35 26-90           |
| 2-Chlorophenol           | 76923               | 5280                      | 137*        | 21.6    | 50 25-102          |
| 1,4-Dichlorobenzene      | 76923               | 4180                      | 109*        | 18.3    | 27 28-104          |
| N-Nitroso-di-n-prop. (1) | 76923               | 5530                      | 144*        | 19.0    | 28 41-126          |
| 1,2,4-Trichlorobenzene   | 76923               | 4740                      | 123*        | 16.4    | 23 38-107          |
| 4-Chloro-3-methylphenol  | 76923               | 5590                      | 145*        | 23.9    | 33 26-103          |
| Acenaphthene             | 76923               | 4930                      | 128         | 15.5    | 19 31-137          |
| 4-Nitrophenol            | 76923               | 0988                      | 25.7        | * 0     | 50 11-114          |
| 2,4-Dinitrotoluene       | 76923               | 4430                      | 115*        | 22.1    | 47 28-89           |
| Pentachlorophenol        | 76923               | 4960                      | 129*        | * 49.9  | 47 17-109          |
| Pyrene                   | 76923               | 4710                      | 122.4       | 18.6    | 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: 2 out of 11 outside limits  
 Spike Recovery: 13 out of 22 outside limits

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



4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBIKI

Lab Name: ASC

Contract: NEESA

Lab Code: NA Case No.: NA

SAS No.: NA SDG No.: \_\_\_\_\_

Lab File ID: D8099

Lab Sample ID: NAC40196

Instrument ID: MSD

Date Extracted: 03-04-94

Matrix: (soil/water) SOIL

Date Analyzed: 03-11-94

Level: (low/med) Med.

Time Analyzed: 1021

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

|    | EPA<br>SAMPLE NO.   | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|---------------------|------------------|----------------|------------------|
| 01 | <u>SBIK1BS</u>      | <u>N4C40196</u>  | <u>DB100</u>   | <u>03-11-94</u>  |
| 02 | <u>CLJ-DG-01</u>    | <u>JM3970</u>    | <u>D8095</u>   | <u>03-10-94</u>  |
| 03 | <u>CLJ-DG-01MS</u>  | <u>JM3970MS</u>  | <u>D8101</u>   | <u>03-11-94</u>  |
| 04 | <u>CLJ-DG-01MSD</u> | <u>JM3970MSD</u> | <u>D8102</u>   | <u>03-11-94</u>  |
| 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 |                     |                  |                |                  |

COMMENTS:

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

5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

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

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 80.0% of mass 198           | 59.0                 |
| 68  | Less than 2.0% of mass 69          | 0.0 (0.0) 1:         |
| 69  | Mass 69 relative abundance         | 67.5                 |
| 70  | Less than 2.0% of mass 69          | 0.0 (0.0) 1:         |
| 127 | 25.0 - 75.0% of mass 198           | 40.5                 |
| 197 | Less than 1.0% of mass 198         | 0.5                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.0                  |
| 275 | 10.0 - 30.0% of mass 198           | 23.6                 |
| 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       | 03-07-94      | 1323          |
| 02 | sstd50         | sstd50        | D8008       | 03-07-94      | 1417          |
| 03 | sstd80         | sstd80        | D8009       | 03-07-94      | 1511          |
| 04 | sstd120        | sstd120       | D8010       | 03-07-94      | 1604          |
| 05 | sstd160        | sstd160       | D8011       | 03-07-94      | 1658          |
| 06 |                |               |             |               |               |
| 07 |                |               |             |               |               |
| 08 |                |               |             |               |               |
| 09 |                |               |             |               |               |
| 10 |                |               |             |               |               |
| 11 |                |               |             |               |               |
| 12 |                |               |             |               |               |
| 13 |                |               |             |               |               |
| 14 |                |               |             |               |               |
| 15 |                |               |             |               |               |
| 16 |                |               |             |               |               |
| 17 |                |               |             |               |               |
| 18 |                |               |             |               |               |
| 19 |                |               |             |               |               |
| 20 |                |               |             |               |               |
| 21 |                |               |             |               |               |
| 22 |                |               |             |               |               |

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
Lab File ID: D8097 DFTPP Injection Date: 03-11-94  
Instrument ID: MSD-D DFTPP Injection Time: 0712

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 80.0% of mass 198           | 49.7                 |
| 68  | Less than 2.0% of mass 69          | 0.4 (1.5)            |
| 69  | Mass 69 relative abundance         | 58.7                 |
| 70  | Less than 2.0% of mass 69          | 0.0 (0.0)            |
| 127 | 25.0 - 75.0% of mass 198           | 37.8                 |
| 197 | Less than 1.0% of mass 198         | 0.1                  |
| 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           | 22.5                 |
| 365 | Greater than 0.75% of mass 198     | 2.6                  |
| 441 | Present, but less than mass 443    | 75.3                 |
| 442 | 40.0 - 110.0% of mass 198          | 54.6                 |
| 443 | 15.0 - 24.0% of mass 442           | 19.1 (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 | SSTd50         | SSTd50        | D8098       | 03-11-94      | 0924          |
| 02 | SBK1           | NA40196       | D8099       | 03-11-94      | 1021          |
| 03 | SBK1B5         | NA40196       | D8100       | 03-11-94      | 1114          |
| 04 | CLJ-DS-01MS    | JM3970 MS     | D8101       | 03-11-94      | 1207          |
| 05 | CLJ-DS-01MSD   | JM3970 MSD    | D8102       | 03-11-94      | 1300          |
| 06 |                |               |             |               |               |
| 07 |                |               |             |               |               |
| 08 |                |               |             |               |               |
| 09 |                |               |             |               |               |
| 10 |                |               |             |               |               |
| 11 |                |               |             |               |               |
| 12 |                |               |             |               |               |
| 13 |                |               |             |               |               |
| 14 |                |               |             |               |               |
| 15 |                |               |             |               |               |
| 16 |                |               |             |               |               |
| 17 |                |               |             |               |               |
| 18 |                |               |             |               |               |
| 19 |                |               |             |               |               |
| 20 |                |               |             |               |               |
| 21 |                |               |             |               |               |
| 22 |                |               |             |               |               |

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): 03-07-94 03-07-94  
 Calibration Times: 1323 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008  
 RRF80 = D8009 RRF120 = D8010 RRF160 = D8011

| COMPOUND                     | RRF20 | RRF50 | RRF80 | RRF120 | RRF160 | RRF   | % RSD |
|------------------------------|-------|-------|-------|--------|--------|-------|-------|
| Phenol                       | 1.75  | 1.70  | 1.72  | 1.60   | 1.52   | 1.66  | 5.82  |
| bis(2-Chloroethyl) ether     | 3.66  | 3.60  | 3.42  | 3.20   | 3.02   | 3.38  | 7.91  |
| 2-Chlorophenol               | 1.34  | 1.35  | 1.30  | 1.26   | 1.24   | 1.30  | 3.51  |
| 1,3-Dichlorobenzene          | 1.43  | 1.45  | 1.30  | 1.33   | 1.35   | 1.37  | 4.71  |
| 1,4-Dichlorobenzene          | 1.51  | 1.48  | 1.53  | 1.33   | 1.33   | 1.43  | 6.05  |
| 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  | 4.53  |
| 4-Methylphenol               | 1.411 | 1.39  | 1.38  | 1.29   | 1.23   | 1.34  | 5.73  |
| N-Nitroso-di-n-propylamine   | 1.22  | 1.19  | 1.13  | 0.999  | 0.922  | 1.09  | 11.7  |
| Hexachloroethane             | 0.680 | 0.687 | 0.648 | 0.672  | 0.624  | 0.652 | 4.65  |
| Nitrobenzene                 | 0.451 | 0.441 | 0.411 | 0.367  | 0.374  | 0.409 | 9.28  |
| Isophorone                   | 0.978 | 0.951 | 0.890 | 0.809  | 0.791  | 0.884 | 9.40  |
| 2-Nitrophenol                | 0.211 | 0.214 | 0.199 | 0.185  | 0.182  | 0.198 | 7.29  |
| 2,4-Dimethylphenol           | 0.401 | 0.393 | 0.372 | 0.334  | 0.324  | 0.366 | 9.70  |
| bis(2-Chloroethoxy) methane  | 0.571 | 0.534 | 0.498 | 0.453  | 0.421  | 0.494 | 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  | 0.983 | 0.762  | 0.712  | 0.915 | 20.1  |
| 2,4-Dinitrophenol            | 0     | 0.050 | 0.063 | 0.077  | 0.093  | 0.071 | 26.4  |
| 4-Nitrophenol                | 0     | 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.

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) 03-07-94 03-07-94  
 Calibration Times: 1323 16:58

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

| COMPOUND                   | RRF20   | RRF50 | RRF80 | RRF120 | RRF160 | RRF   | ‡RSD |
|----------------------------|---------|-------|-------|--------|--------|-------|------|
| Diethylphthalate           | 1.69    | 1.56  | 1.37  | 1.17   | 1.14   | 1.39  | 17.1 |
| 4-Chlorophenyl-phenylether | * 0.675 | 0.627 | 0.547 | 0.482  | 0.458  | 0.558 | 16.7 |
| Fluorene                   | * 1.28  | 1.16  | 1.00  | 0.852  | 0.810  | 1.02  | 19.5 |
| 4-Nitroaniline             | * 0.203 | 0.271 | 0.241 | 0.236  | 0.266  | 0.241 | 1.6  |
| 4,6-Dinitro-2-methylphenol | * 0.074 | 0.127 | 0.125 | 0.117  | 0.119  | 0.112 | 19.8 |
| N-Nitrosodiphenylamine (1) | * 0.568 | 0.507 | 0.434 | 0.366  | 0.346  | 0.414 | 21.1 |
| 4-Bromophenyl-phenylether  | * 0.223 | 0.261 | 0.232 | 0.203  | 0.193  | 0.235 | 16.1 |
| Hexachlorobenzene          | * 0.376 | 0.323 | 0.322 | 0.282  | 0.264  | 0.325 | 17.0 |
| Pentachlorophenol          | *       | 0.079 | 0.029 | 0.091  | 0.112  | 0.093 | 15.3 |
| Phenanthrene               | * 1.16  | 1.02  | 0.896 | 0.759  | 0.735  | 0.913 | 19.5 |
| Anthracene                 | * 1.14  | 1.07  | 0.927 | 0.818  | 0.781  | 0.946 | 16.3 |
| Carbazole                  | * 0.967 | 0.981 | 0.831 | 0.731  | 0.736  | 0.849 | 14.3 |
| Oi-n-butylphthalate        | * 1.97  | 1.74  | 1.46  | 1.21   | 1.17   | 1.51  | 22.9 |
| Fluoranthene               | * 1.12  | 1.16  | 0.925 | 0.825  | 0.827  | 0.943 | 17.3 |
| Pyrene                     | * 1.20  | 1.24  | 1.16  | 1.01   | 0.878  | 1.14  | 17.9 |
| Butylbenzylphthalate       | * 0.251 | 0.231 | 0.225 | 0.225  | 0.268  | 0.238 | 24.0 |
| 3,3'-Dichlorobenzidine     | * 0.399 | 0.454 | 0.397 | 0.379  | 0.360  | 0.398 | 8.78 |
| Benzo(a)anthracene         | * 1.16  | 1.13  | 1.06  | 0.995  | 0.968  | 1.06  | 7.87 |
| Chrysene                   | * 1.10  | 1.10  | 0.998 | 0.938  | 0.929  | 1.01  | 8.27 |
| bis(2-Ethylhexyl)phthalate | * 1.29  | 1.18  | 1.07  | 0.929  | 0.855  | 1.07  | 16.8 |
| Oi-n-octylphthalate        | * 2.10  | 1.77  | 1.72  | 1.63   | 1.49   | 1.76  | 13.0 |
| Benzo(b)fluoranthene       | * 1.20  | 1.06  | 1.09  | 0.899  | 0.922  | 1.03  | 12.0 |
| Benzo(k)fluoranthene       | * 1.31  | 1.26  | 1.12  | 1.15   | 1.03   | 1.18  | 9.43 |
| Benzo(a)pyrene             | * 0.948 | 0.964 | 0.917 | 0.863  | 0.845  | 0.907 | 5.70 |
| Indeno(1,2,3-cd)pyrene     | * 0.751 | 0.891 | 0.833 | 0.820  | 0.818  | 0.823 | 6.05 |
| Dibenz(a,h)anthracene      | * 0.565 | 0.739 | 0.643 | 0.648  | 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      | 0.955 | 23.1 |
| Terphenyl-d14              | * 1.11  | 0.994 | 0.912 | 0.794  | 0.687  | 0.900 | 18.5 |
| Phenol-d5                  | * 1.55  | 1.59  | 1.53  | 1.46   | 1.40   | 1.51  | 5.04 |
| 2-Fluorophenol             | * 1.24  | 1.25  | 1.23  | 1.19   | 1.18   | 1.22  | 2.66 |
| 2,4,6-Tribromophenol       | * 0.268 | 0.291 | 0.274 | 0.246  | 0.247  | 0.265 | 7.19 |
| 2-Chlorophenol-d4          | *       |       |       |        |        |       |      |
| 1,2-Dichlorobenzene-d4     | *       |       |       |        |        |       |      |

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

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Instrument ID: MSD-D Calibration Date: 03-11-94 Time: 0924  
 Lab File ID: D8098 Init. Calib. Date(s): 03-07-94 03-07-94  
 Init. Calib. Times: 1323 1658

| COMPOUND                     | RRF   | RRF50 | MIN RRF | %D                        | MAX %D |
|------------------------------|-------|-------|---------|---------------------------|--------|
| Phenol                       | 1.66  | 1.59  | 0.800   | 4.1                       | 25.0   |
| bis(2-Chloroethyl) ether     | 3.38  | 3.35  | 0.700   | 1.0                       | 25.0   |
| 2-Chlorophenol               | 1.29  | 1.32  | 0.800   | 2.0                       | 25.0   |
| 1,3-Dichlorobenzene          | 1.37  | 1.41  | 0.600   | 2.6                       | 25.0   |
| 1,4-Dichlorobenzene          | 1.43  | 1.48  | 0.500   | 3.0                       | 25.0   |
| 1,2-Dichlorobenzene          | 1.20  | 1.27  | 0.400   | 5.7                       | 25.0   |
| 2-Methylphenol               | 1.13  | 1.26  | 0.700   | 11.4                      | 25.0   |
| 2,2'-oxybis(1-Chloropropane) | 3.14  | 3.20  |         | 1.7                       |        |
| 4-Methylphenol               | 1.34  | 1.42  | 0.600   | 6.1                       | 25.0   |
| N-Nitroso-di-n-propylamine   | 1.09  | 1.08  | 0.500   | 1.5                       | 25.0   |
| Hexachloroethane             | 0.652 | 0.672 | 0.300   | 3.0                       | 25.0   |
| Nitrobenzene                 | 0.409 | 0.386 | 0.200   | 5.5                       | 25.0   |
| Isophorone                   | 0.884 | 0.880 | 0.400   | 0.5                       | 25.0   |
| 2-Nitrophenol                | 0.198 | 0.223 | 0.100   | 12.8                      | 25.0   |
| 2,4-Dimethylphenol           | 0.366 | 0.357 | 0.200   | 2.5                       | 25.0   |
| bis(2-Chloroethoxy)methane   | 0.449 | 0.508 | 0.300   | 1.8                       | 25.0   |
| 2,4-Dichlorophenol           | 0.269 | 0.307 | 0.200   | 14.2                      | 25.0   |
| 1,2,4-Trichlorobenzene       | 0.294 | 0.333 | 0.200   | 13.0                      | 25.0   |
| Naphthalene                  | 0.891 | 0.992 | 0.700   | 11.4                      | 25.0   |
| 4-Chloroaniline              | 0.471 | 0.551 |         | 16.9                      |        |
| Hexachlorobutadiene          | 0.183 | 0.210 |         | 14.7                      |        |
| 4-Chloro-3-methylphenol      | 0.365 | 0.356 | 0.200   | 2.50                      | 25.0   |
| 2-Methylnaphthalene          | 0.572 | 0.626 | 0.400   | 9.50                      | 25.0   |
| Hexachlorocyclopentadiene    | 0.080 | 0.112 |         | 40.9                      |        |
| 2,4,6-Trichlorophenol        | 0.327 | 0.377 | 0.200   | 15.4                      | 25.0   |
| 2,4,5-Trichlorophenol        | 0.315 | 0.384 | 0.200   | 22.0                      | 25.0   |
| 2-Chloronaphthalene          | 0.889 | 0.977 | 0.300   | 9.90                      | 25.0   |
| 2-Nitroaniline               | 0.436 | 0.383 |         | 12.0                      |        |
| Dimethylphthalate            | 1.28  | 1.38  |         | 7.9                       |        |
| Acenaphthylene               | 1.42  | 1.58  | 1.000   | 11.4                      | 25.0   |
| 2,6-Dinitrotoluene           | 0.326 | 0.362 | 0.200   | 10.8                      | 25.0   |
| 3-Nitroaniline               | 0.273 | 0.283 |         | <del>3.50</del> 3.50 (DA) |        |
| Acenaphthene                 | 0.915 | 1.034 | 0.800   | 13.0                      | 25.0   |
| 2,4-Dinitrophenol            | 0.071 | 0.092 |         | 30.8                      |        |
| 4-Nitrophenol                | 0.076 | 0.056 |         | 26.4                      |        |
| Dibenzofuran                 | 1.26  | 1.52  | 0.800   | 20.3                      | 25.0   |
| 2,4-Dinitrotoluene           | 0.409 | 0.479 | 0.200   | 17.1                      | 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.: \_\_\_\_\_  
 Instrument ID: MSD-D Calibration Date: 03-11-94 Time: 0924  
 Lab File ID: D8098 Init. Calib. Date(s): 03-07-94 03-07-94  
 Init. Calib. Times: 1323 1658

| COMPOUND                   | RRF   | RRF50 | MIN RRF | %D   | MAX %D |
|----------------------------|-------|-------|---------|------|--------|
| Diethylphthalate           | 1.39  | 1.53  |         | 10.4 |        |
| 4-Chlorophenyl-phenylether | 0.558 | 0.662 | 0.400   | 18.6 | 25.0   |
| Fluorene                   | 1.02  | 1.26  | 0.900   | 23.1 | 25.0   |
| 4-Nitroaniline             | 0.241 | 0.304 |         | 25.9 |        |
| 4,6-Dinitro-2-methylphenol | 0.113 | 0.144 |         | 27.8 |        |
| N-Nitrosodiphenylamine (1) | 0.444 | 0.503 |         | 13.3 |        |
| 4-Bromophenyl-phenylether  | 0.235 | 0.227 | 0.100   | 3.4  | 25.0   |
| Hexachlorobenzene          | 0.325 | 0.277 | 0.100   | 15.0 | 25.0   |
| Pentachlorophenol          | 0.093 | 0.085 | 0.050   | 8.8  | 25.0   |
| Phenanthrene               | 0.913 | 1.04  | 0.700   | 13.4 | 25.0   |
| Anthracene                 | 0.946 | 1.07  | 0.700   | 12.9 | 25.0   |
| Carbazole                  | 0.849 | 0.994 |         | 17.1 |        |
| Di-n-butylphthalate        | 1.51  | 1.63  |         | 7.90 |        |
| Fluoranthene               | 0.993 | 1.13  | 0.600   | 14.2 | 25.0   |
| Pyrene                     | 1.14  | 1.43  | 0.600   | 25.3 | 25.0   |
| Butylbenzylphthalate       | 0.638 | 0.770 |         | 20.7 |        |
| 3,3'-Dichlorobenzidine     | 0.398 | 0.405 |         | 1.9  |        |
| Benzo(a)anthracene         | 1.06  | 1.22  | 0.800   | 14.8 | 25.0   |
| Chrysene                   | 1.01  | 1.12  | 0.700   | 10.5 | 25.0   |
| bis(2-Ethylhexyl)phthalate | 1.07  | 1.28  |         | 20.5 |        |
| Di-n-octylphthalate        | 1.76  | 2.04  |         | 16.1 |        |
| Benzo(b)fluoranthene       | 1.03  | 1.13  | 0.700   | 9.70 | 25.0   |
| Benzo(k)fluoranthene       | 1.18  | 1.29  | 0.700   | 9.60 | 25.0   |
| Benzo(a)pyrene             | 0.907 | 1.03  | 0.700   | 14.1 | 25.0   |
| Indeno(1,2,3-cd)pyrene     | 0.823 | 1.05  | 0.500   | 28.0 | 25.0   |
| Dibenz(a,h)anthracene      | 0.663 | 0.851 | 0.400   | 28.4 | 25.0   |
| Benzo(g,h,i)perylene       | 0.650 | 0.846 | 0.500   | 30.2 | 25.0   |
| Nitrobenzene-d5            | 0.413 | 0.402 | 0.200   | 2.8  | 25.0   |
| 2-Fluorobiphenyl           | 0.955 | 1.04  | 0.700   | 9.40 | 25.0   |
| Terphenyl-d14              | 0.900 | 1.01  | 0.500   | 12.0 | 25.0   |
| Phenol-d5                  | 1.51  | 1.52  | 0.800   | 0.7  | 25.0   |
| 2-Fluorophenol             | 1.22  | 1.18  | 0.600   | 2.90 | 25.0   |
| 2,4,6-Tribromophenol       | 0.265 | 0.182 |         | 31.2 |        |
| 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

055

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

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>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 CLJ-DG-01   | 26180               | 10.47 | 100716              | 13.04 | 66363               | 16.48 |
| 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.



8C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

056

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

|                | IS4 (PHN) | RT #  | IS5 (CRY) | RT #  | IS6 (PRY) | RT #  |
|----------------|-----------|-------|-----------|-------|-----------|-------|
|                | AREA #    |       | AREA #    |       | AREA #    |       |
| 12 HOUR STD    | 135369    | 20.38 | 108995    | 26.74 | 103478    | 32.51 |
| UPPER LIMIT    | 270738    | 20.88 | 217990    | 27.24 | 206956    | 33.01 |
| LOWER LIMIT    | 67684     | 19.58 | 54497     | 26.24 | 51739     | 32.01 |
| EPA SAMPLE NO. |           |       |           |       |           |       |
| 01             | CLJ-DG-01 | 20.34 | 89709     | 26.71 | 82339     | 32.47 |
| 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.

SEMIVOLATILE 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): D8098 Date Analyzed: 03-11-94  
 Instrument ID: MSD-D Time Analyzed: 0924

|                 | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT    |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| 12 HOUR STD     | 49114               | 10.47 | 188762              | 13.04 | 131098              | 16.96 |
| UPPER LIMIT     | 98228               | 10.47 | 377524              | 13.54 | 262196              | 17.46 |
| LOWER LIMIT     | 24557               | 9.97  | 44381               | 12.54 | 65549               | 16.46 |
| EPA SAMPLE NO.  |                     |       |                     |       |                     |       |
| 01 SBIK1        | 49619               | 10.45 | 173689              | 13.04 | 115840              | 16.96 |
| 02 SBIK1RS      | 47685               | 10.44 | 201267              | 13.03 | 135777              | 16.95 |
| 03 CLJ-DG-01MS  | 47774               | 10.45 | 172119              | 13.01 | 120539              | 16.96 |
| 04 CLJ-DG-01MSD | 47554               | 10.45 | 171542              | 13.02 | 122513              | 16.96 |
| 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.

8C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

058

Lab Name: ASC Contract: NEESA  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SOG No.: \_\_\_\_\_  
 Lab File ID (Standard): D8098 Date Analyzed: 03-11-94  
 Instrument ID: M50-T Time Analyzed: 0924

|                | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #  | IS6 (PRY)<br>AREA # | RT #  |
|----------------|---------------------|--------|---------------------|-------|---------------------|-------|
| 12 HOUR STD    | 236451              | 20.35  | 186745              | 26.71 | 190017              | 32.44 |
| UPPER LIMIT    | 472902              | 20.85  | 373490              | 27.21 | 380034              | 32.94 |
| LOWER LIMIT    | 118225              | 19.85  | 93372               | 26.21 | 95008               | 31.94 |
| EPA SAMPLE NO. |                     |        |                     |       |                     |       |
| 01             | SBIKI               | 21.293 | 202138              | 26.67 | 205303              | 32.42 |
| 02             | SBIKIBS             | 245060 | 201041              | 26.70 | 224293              | 32.43 |
| 03             | CLJ-DS-CIMS         | 210139 | 186842              | 26.66 | 173506              | 32.41 |
| 04             | CLJ-DS-DIMS         | 214168 | 189237              | 26.67 | 174782              | 32.41 |
| 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.

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d031094.b/d8095.d  
 Lab. Id. : Quant Type: ISTD  
 Inj Date : 10-MAR-94 23:17 Autotune Date: {  
 Operator : Tom Inst ID: a900.i  
 Smp Info : 15226N CLJ-DG-01  
 Misc Info : JM3970C,N4C40196,S:M1,2.00,6:20, BTL#1  
 Comment :  
 Method : /chem/a900.i/d031094.b/bnaclpd.m  
 Meth Date : 10-Mar-1994 13:07  
 Cal Date : 10-MAR-94 12:14 Cal File: d8081.d  
 Als bottle: 0  
 Dil Factor: 1.000 Target Version: Target 3.00  
 Integrator: HP RTE Compound Sublist: all.sub  
 Sample Matrix: WATER

TSC  
3-31-94

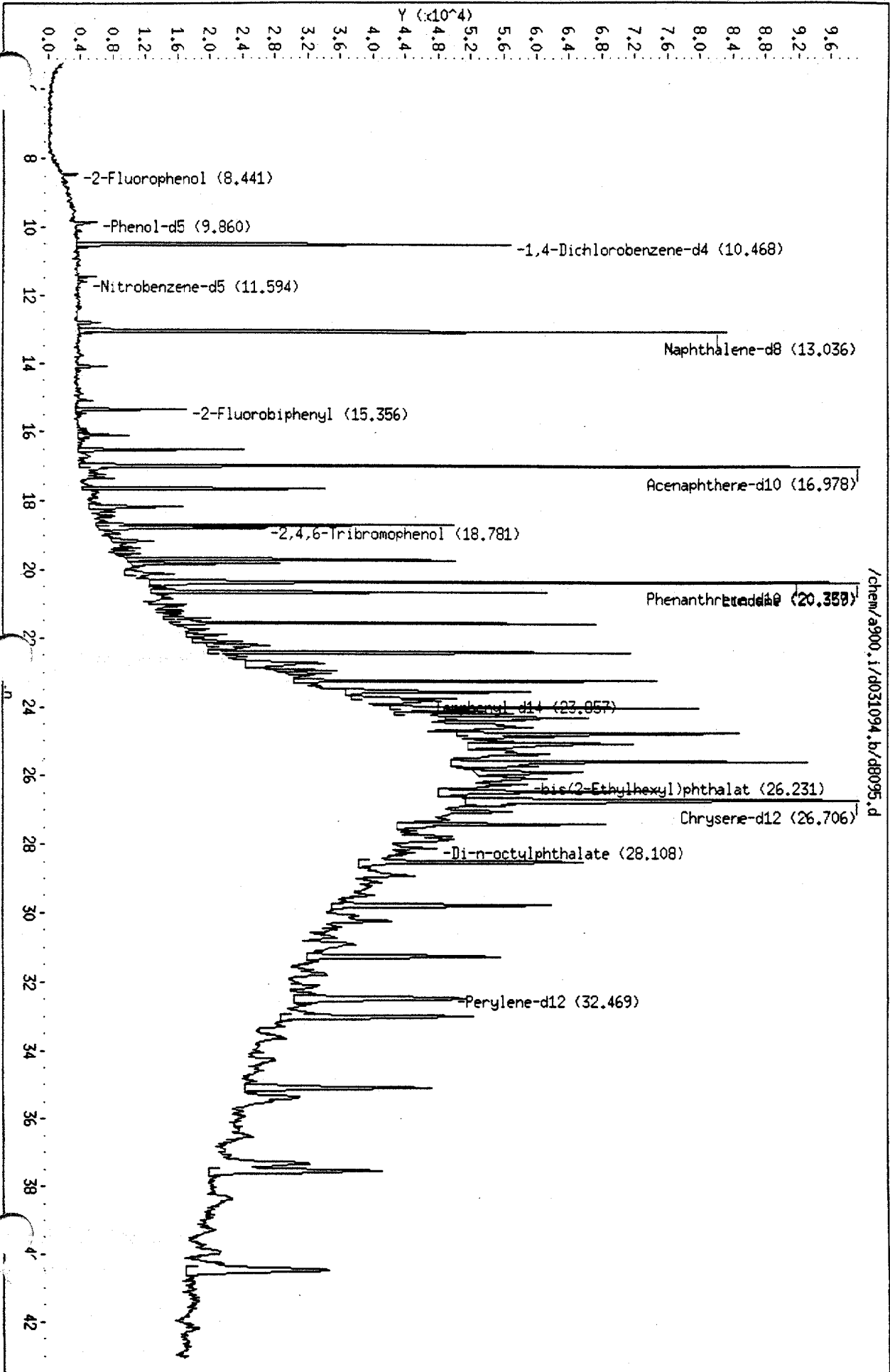
| Compounds                     | QUANT SIG |        | CONCENTRATIONS |          |                   |                       |
|-------------------------------|-----------|--------|----------------|----------|-------------------|-----------------------|
|                               | MASS      | RT     | REL RT         | RESPONSE | ON-COLUMN (ug/ml) | FINAL (ug/ml)         |
| 3 2-Fluorophenol              | 112.00    | 8.441  | (0.806)        | 2806     | 3.52              | 1.76 (aR) ✓           |
| \$ 4 Phenol-d5                | 99.00     | 9.860  | (0.942)        | 3583     | 3.44              | 1.72 (aR) ✓           |
| * 9 1,4-Dichlorobenzene-d4    | 152.00    | 10.468 | (1.000)        | 26180    | 40.0              |                       |
| \$ 17 Nitrobenzene-d5         | 82.00     | 11.594 | (0.889)        | 1926     | 1.62              | 0.808 (aR) ✓          |
| * 25 Naphthalene-d8           | 136.00    | 13.036 | (1.000)        | 100716   | 40.0              |                       |
| \$ 35 2-Fluorobiphenyl        | 172.00    | 15.356 | (0.904)        | 5637     | 3.37              | 1.68 (aR) ✓           |
| * 42 Acenaphthene-d10         | 164.00    | 16.978 | (1.000)        | 66363    | 40.0              |                       |
| \$ 54 2,4,6-Tribromophenol    | 330.00    | 18.781 | (1.106)        | 2199     | 4.64              | 2.32 (aR) ✓           |
| 58 Lindane                    | 183.00    | 20.359 | (1.001)        | 2533     | 7.21              | <del>3.61 (aR)</del>  |
| * 59 Phenanthrene-d10         | 188.00    | 20.337 | (1.000)        | 109073   | 40.0              |                       |
| \$ 67 Terphenyl-d14           | 244.00    | 23.857 | (0.893)        | 3247     | 1.33              | 0.665 (aR) ✓          |
| 70 bis(2-Ethylhexyl)phthalate | 149.00    | 26.231 | (0.982)        | 3598     | 1.18              | <del>0.593 (aR)</del> |
| * 73 Chrysene-d12             | 240.00    | 26.706 | (1.000)        | 89709    | 40.0              |                       |
| 75 Di-n-octylphthalate        | 149.00    | 28.108 | (0.866)        | 453      | 0.0978            | <del>0.0489 (a)</del> |
| * 79 Perylene-d12             | 264.00    | 32.469 | (1.000)        | 82339    | 40.0              |                       |

QC Flag Legend

- 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/a900.1/d031094.b/d8095.d  
Date: 10-MAR-94 23:17  
Instrument: a900.1  
Sample ID:  
Column phase: J&W DB-5  
Volume Injected (ul): 2.0

Column diameter: 0.25



Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

Instrument : a900.i

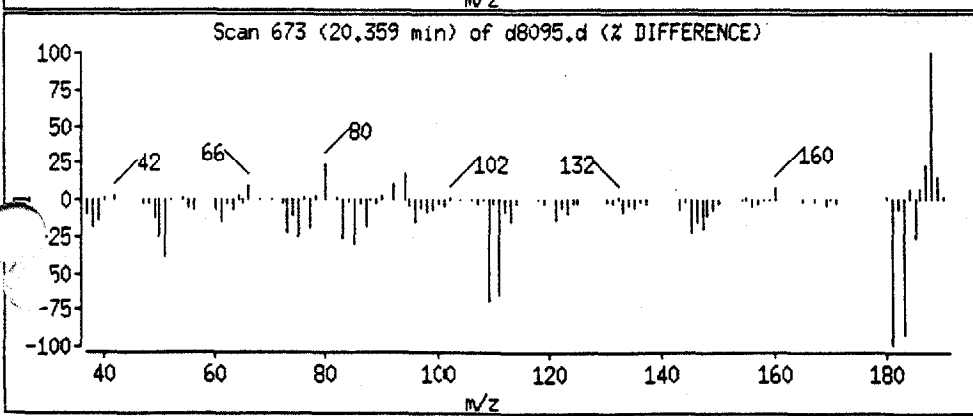
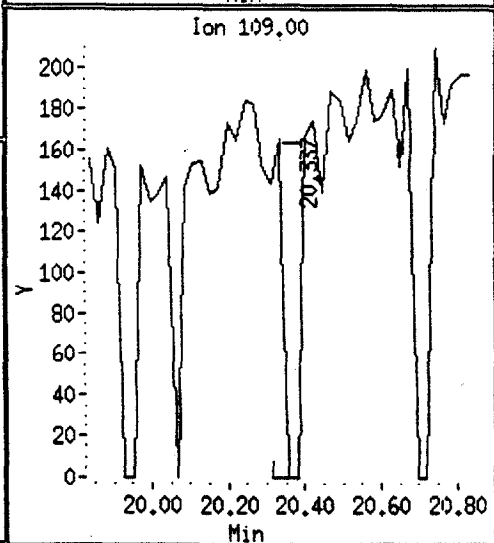
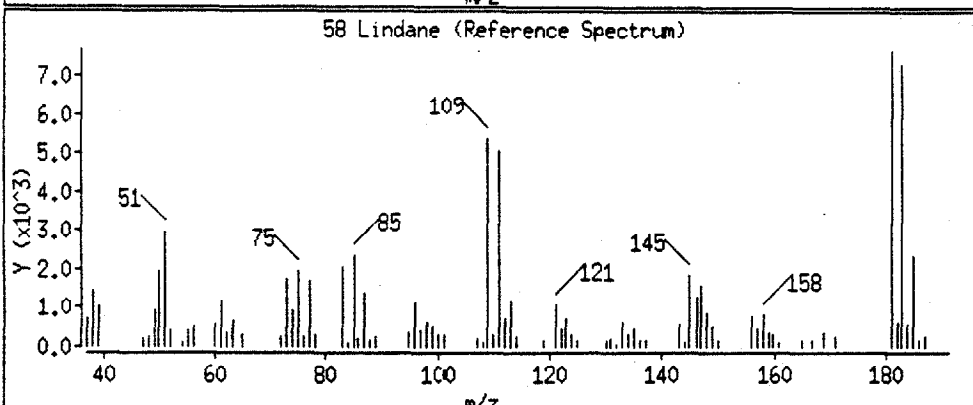
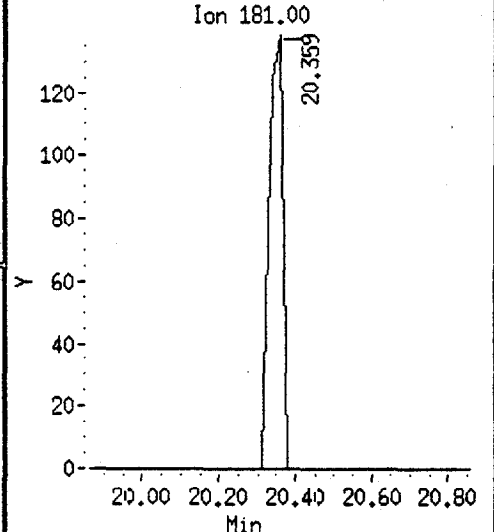
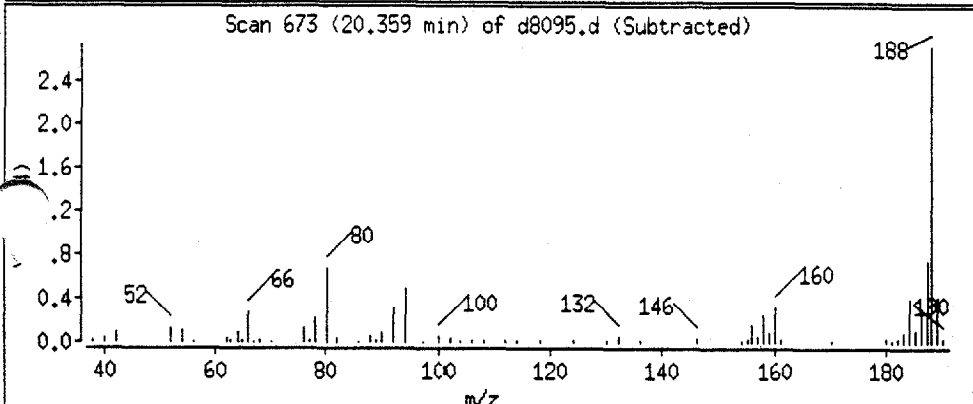
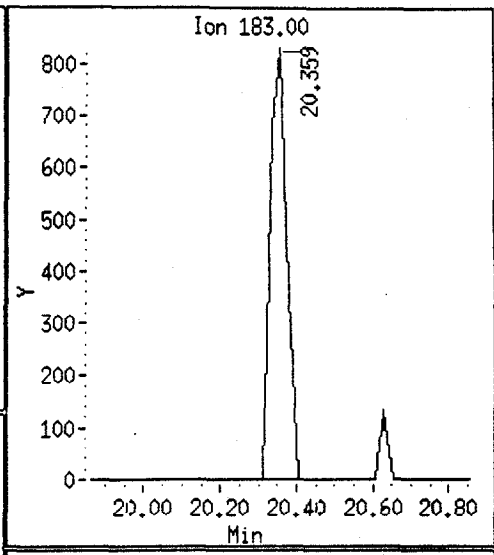
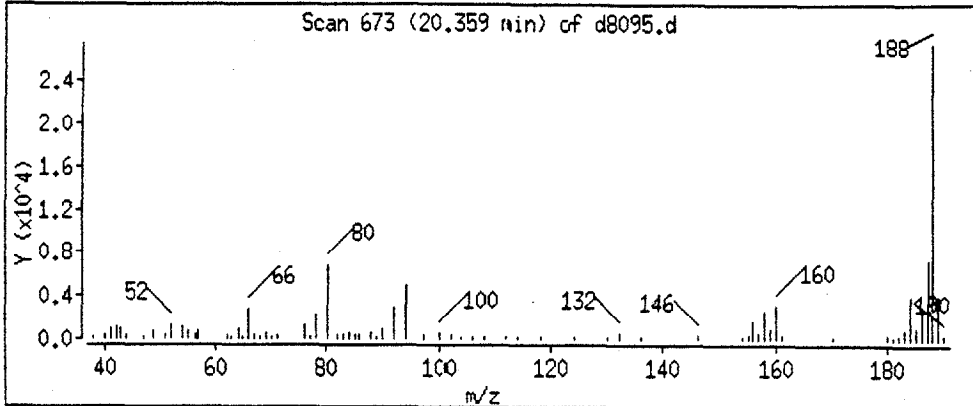
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

58 Lindane



Data File: /chem/a900.1/d031094.b/d8095.d

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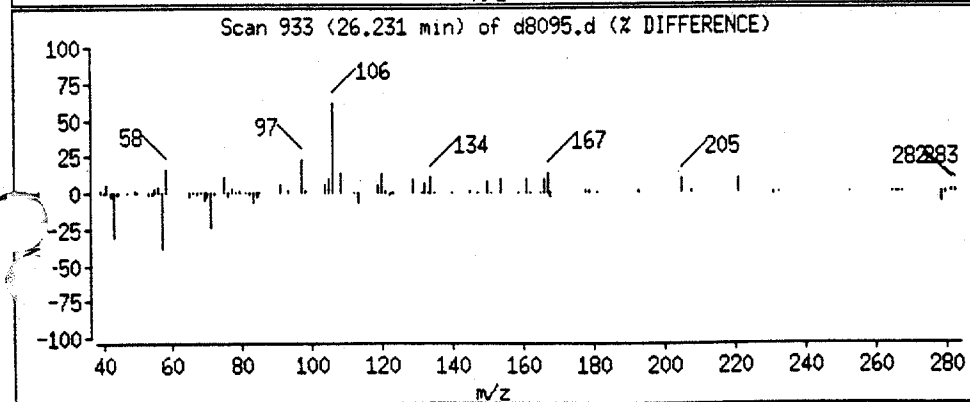
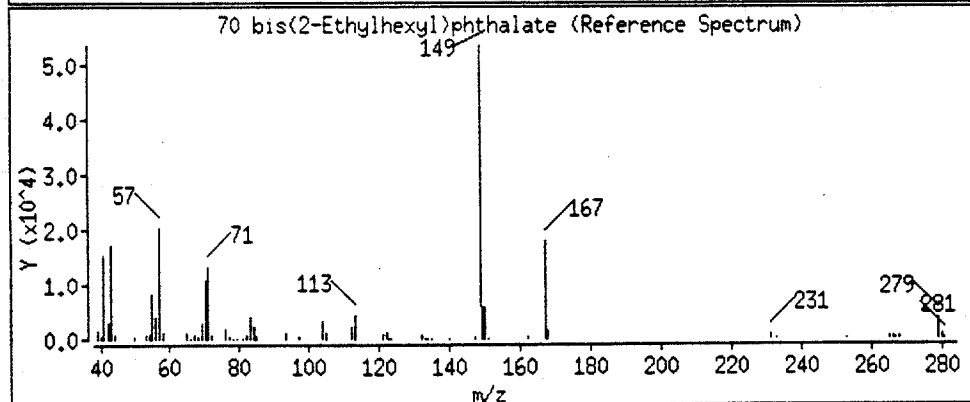
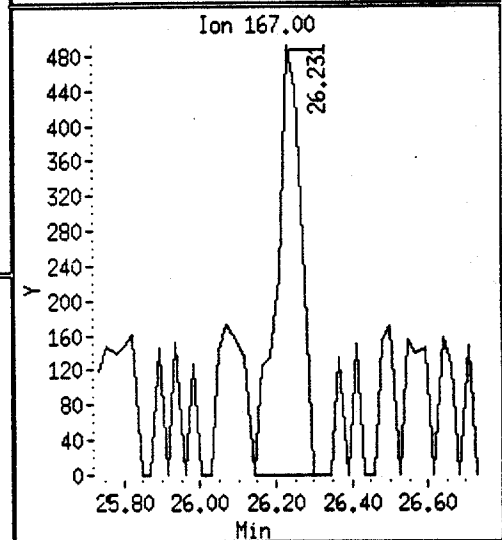
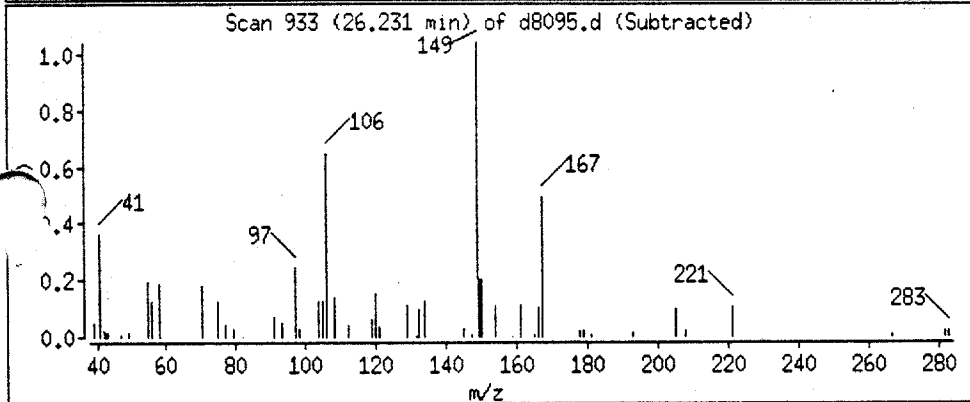
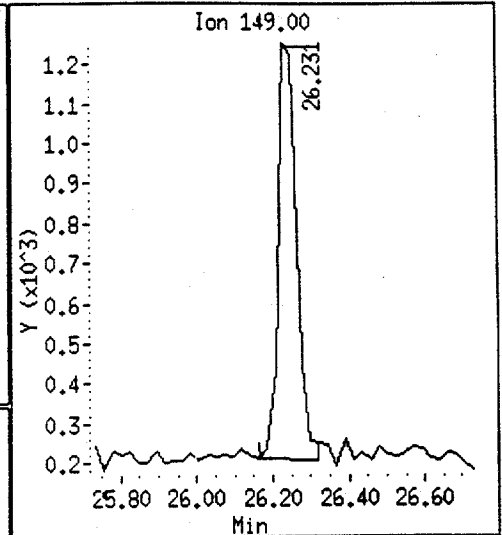
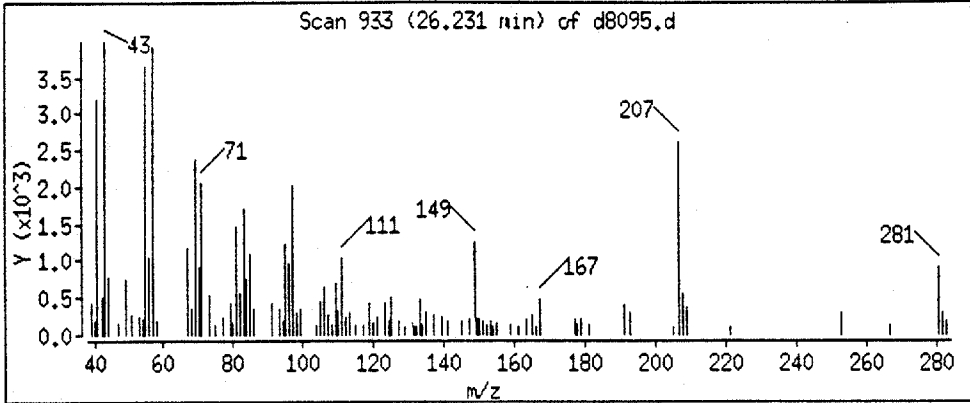
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

70 bis(2-Ethylhexyl)phthalate



Data File: /chem/a900.1/d031094.b/d8095.d

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Instrument : a900.i

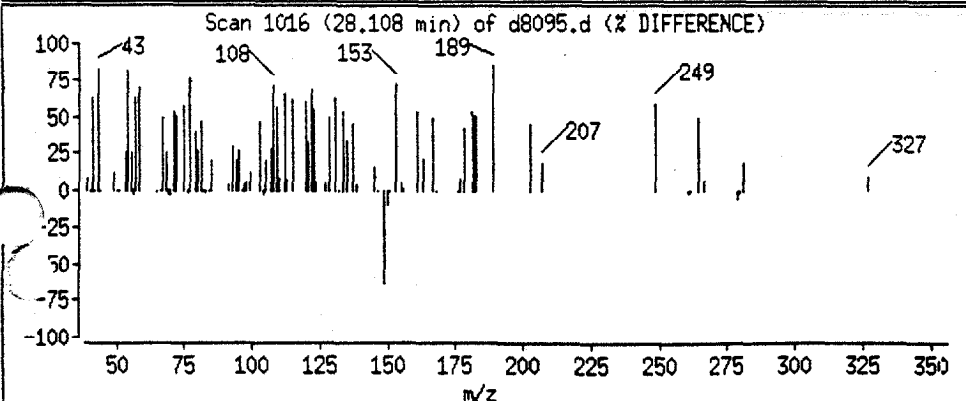
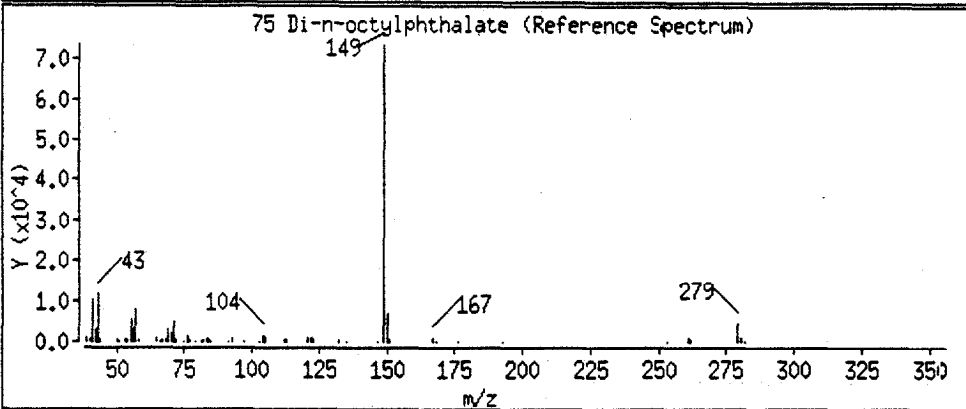
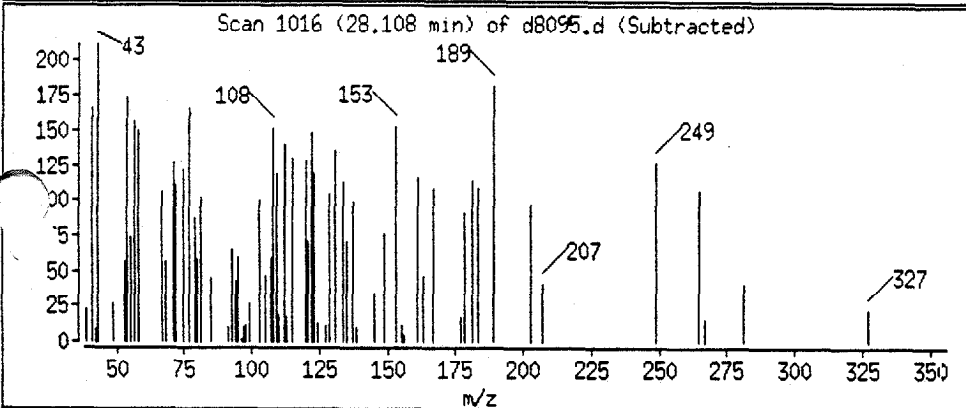
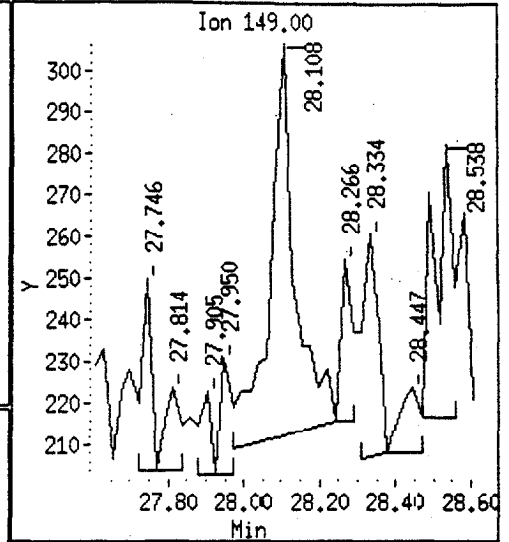
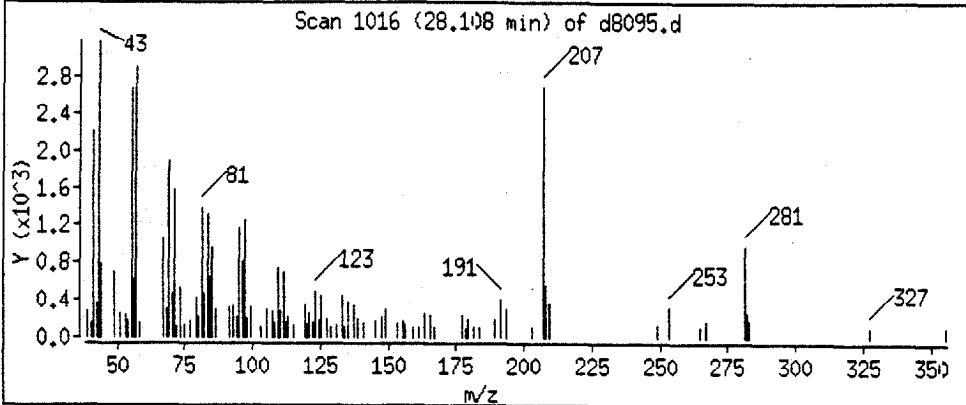
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

75 Di-n-octylphthalate





Data File: /chem/a900.i/d031094.b/d8095.d

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Instrument: a900.i

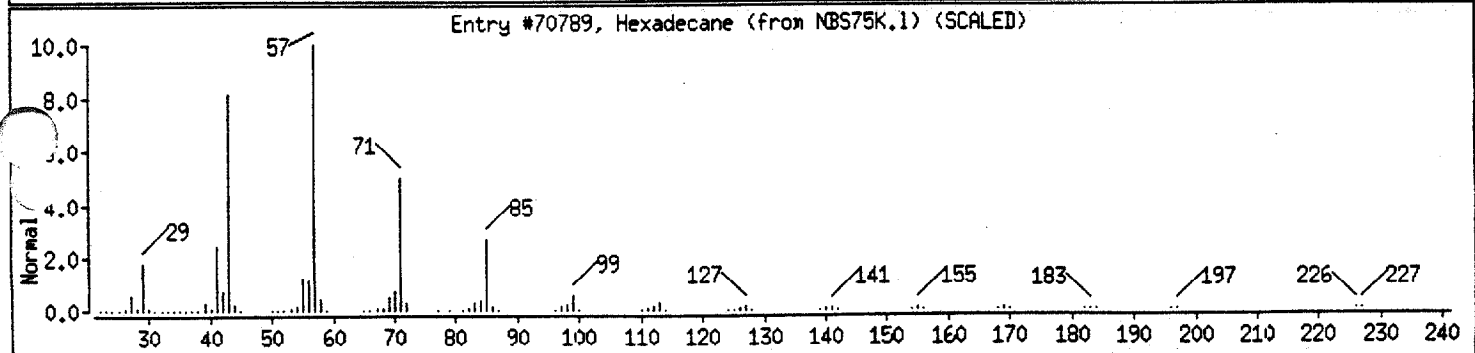
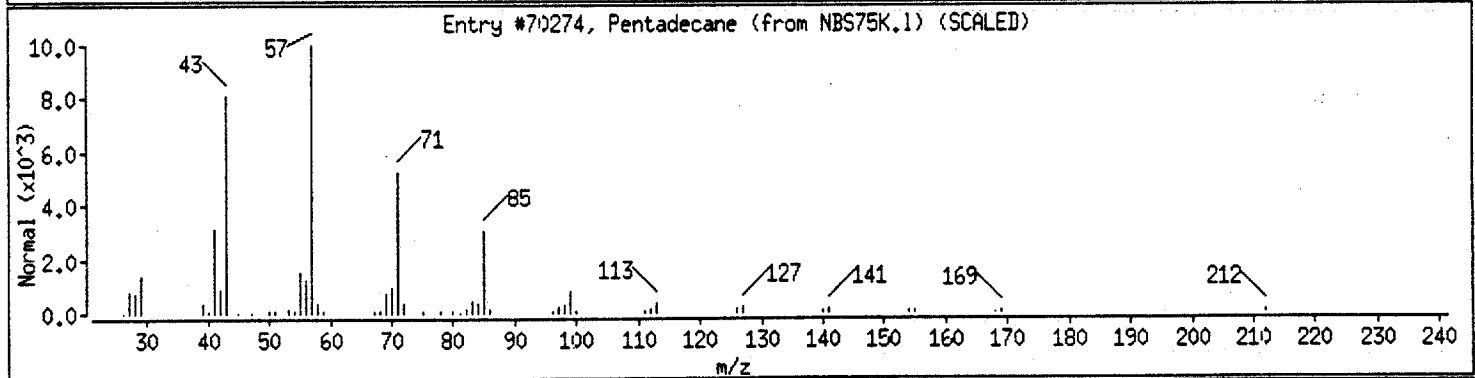
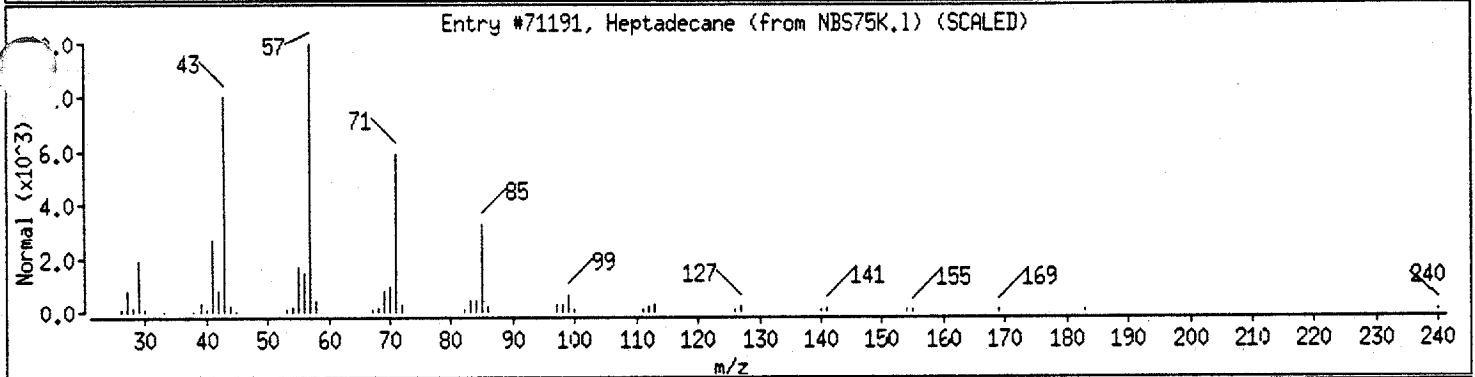
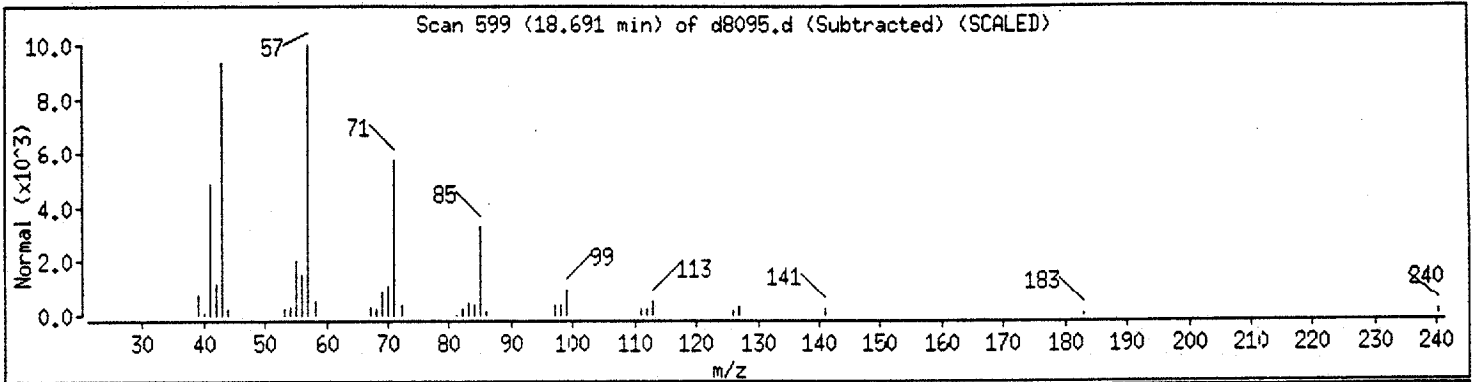
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Heptadecane                   | 629-78-7   | NBS75K.1 | 71191     | 95      |
| Pentadecane                   | 629-62-9   | NBS75K.1 | 70274     | 91      |
| Hexadecane                    | 544-76-3   | NBS75K.1 | 70789     | 91      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Instrument: a900.i

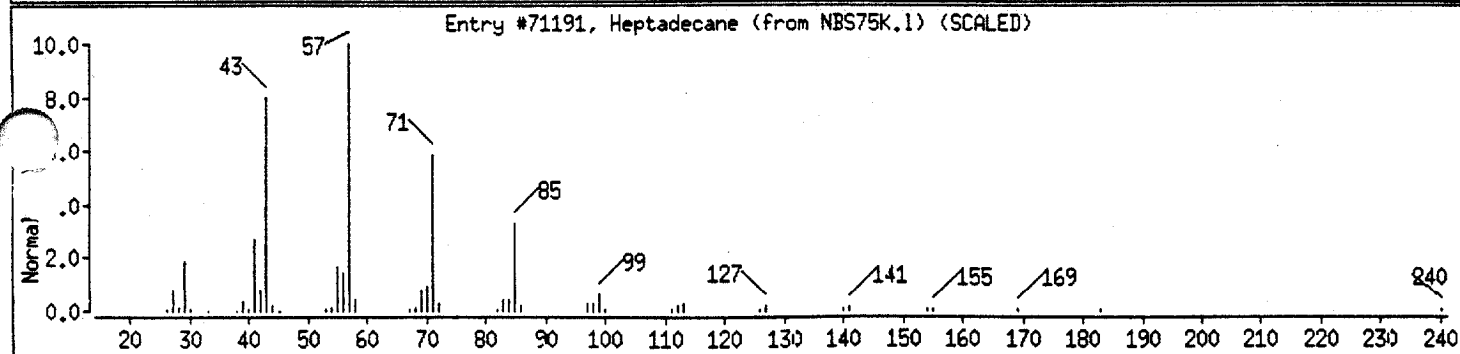
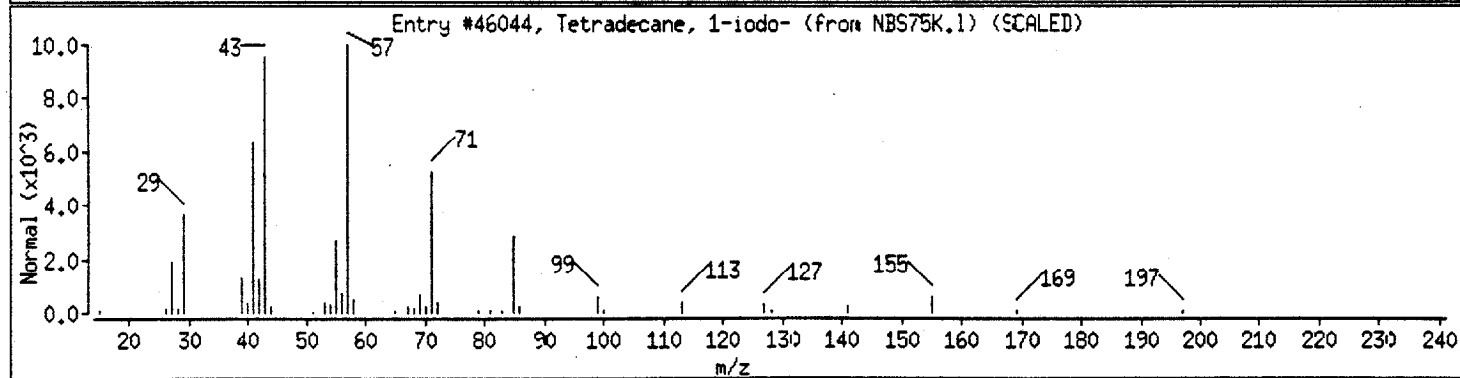
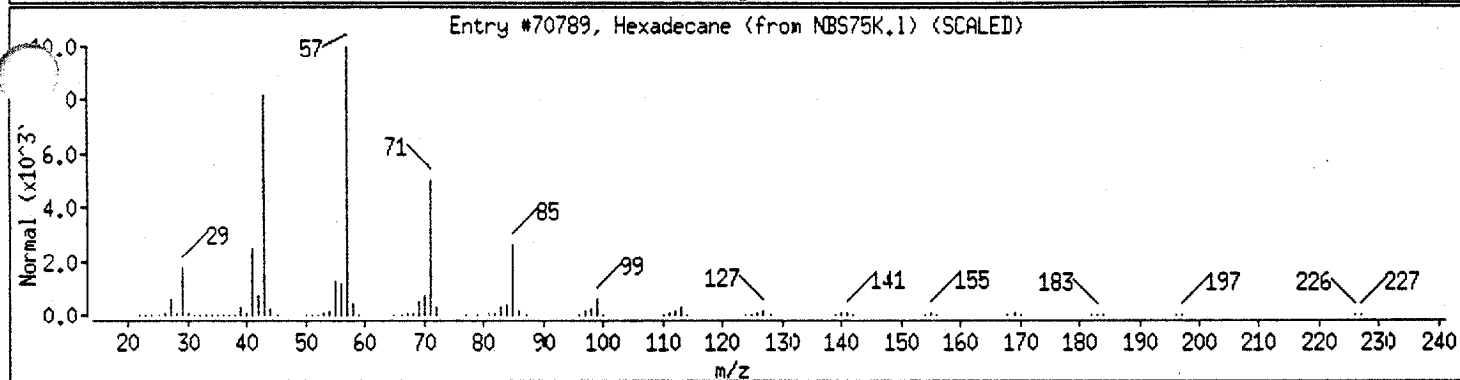
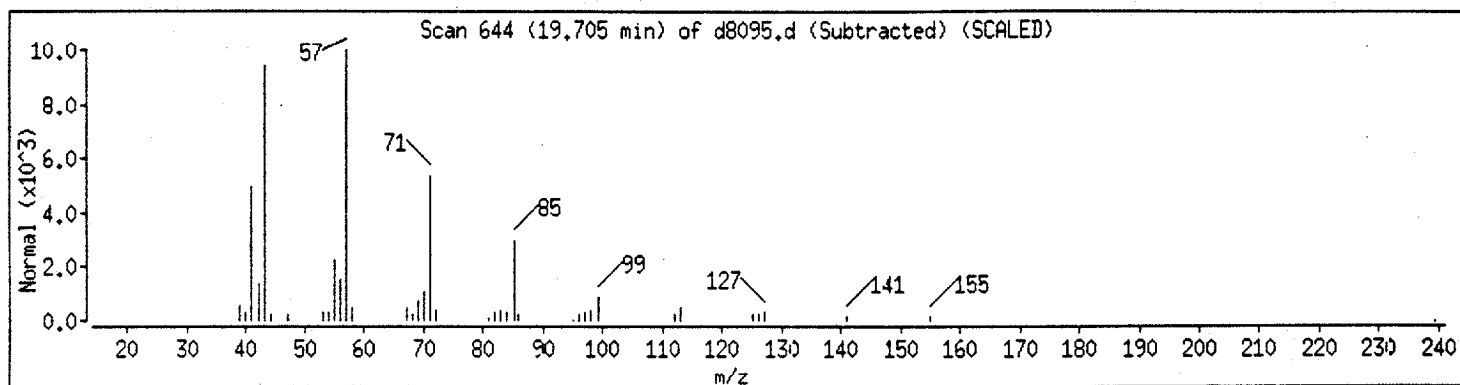
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Hexadecane                    | 544-76-3   | NBS75K.1 | 70789     | 91      |
| Tetradecane, 1-iodo-          | 19218-94-1 | NBS75K.1 | 46044     | 87      |
| Heptadecane                   | 629-78-7   | NBS75K.1 | 71191     | 87      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Instrument : a900.i

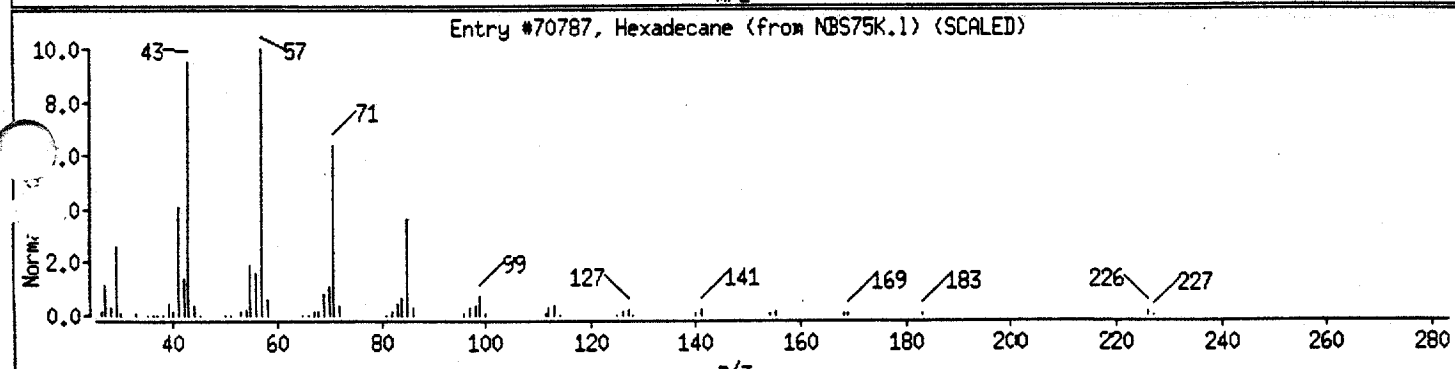
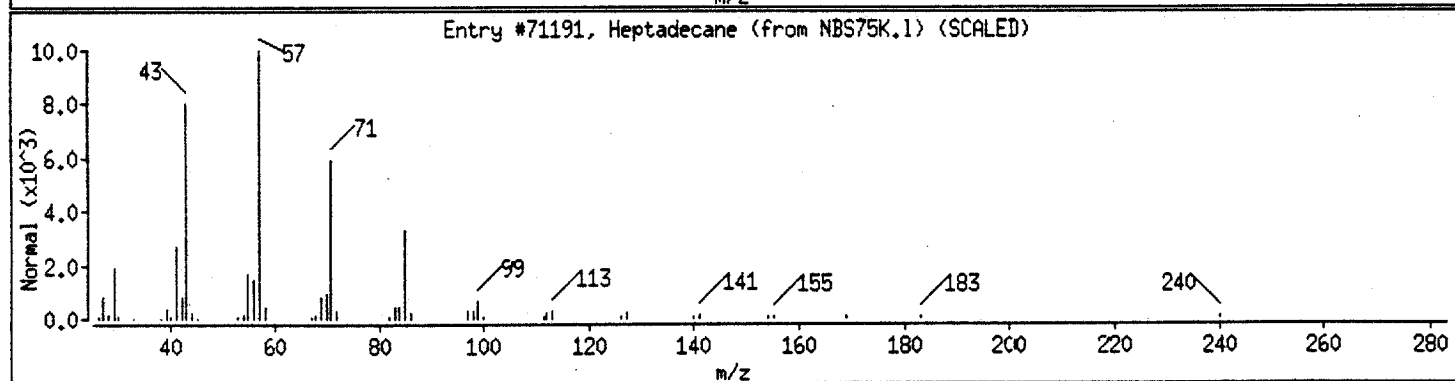
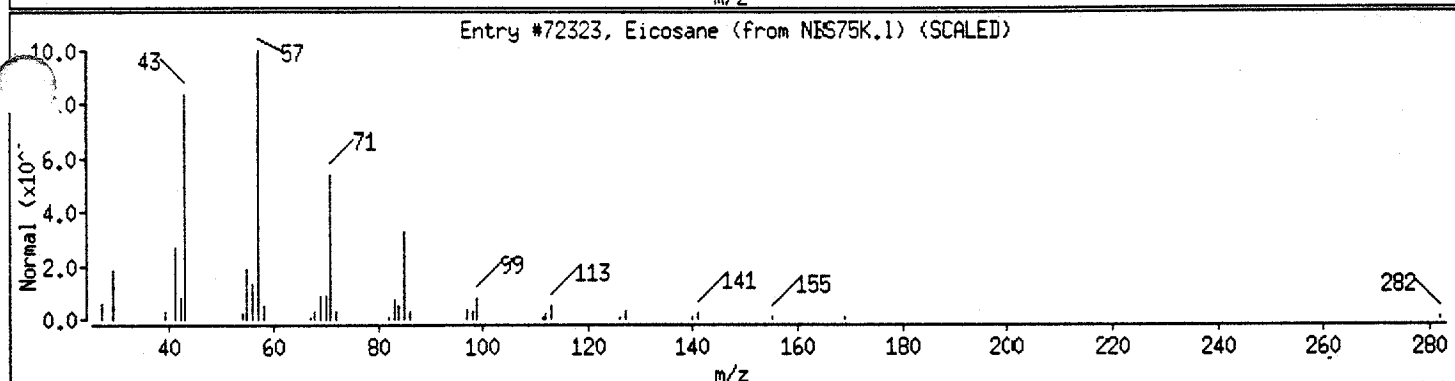
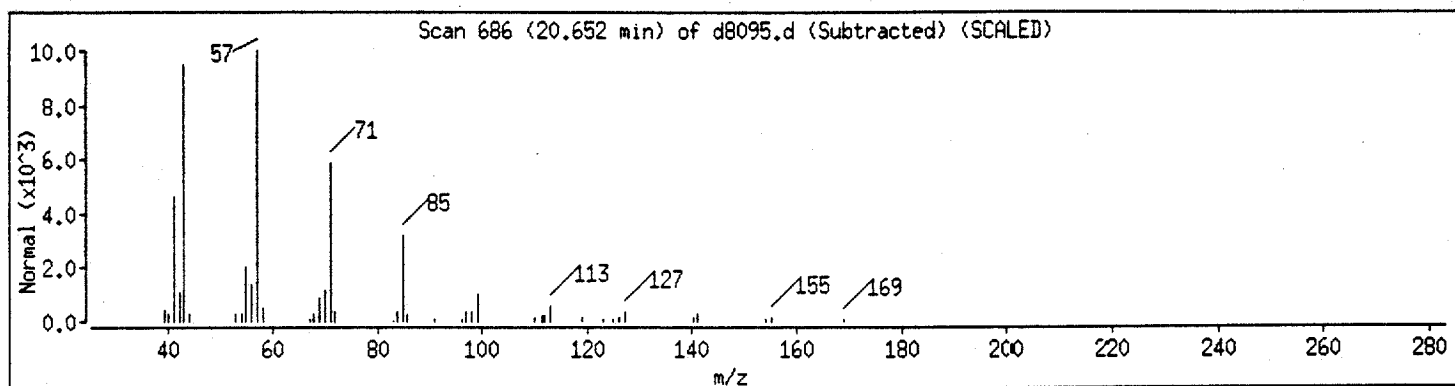
Sample ID :

Column phase : J&amp;W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Eicosane                      | 112-95-8   | NBS75K.1 | 72323     | 91      |
| Heptadecane                   | 629-78-7   | NBS75K.1 | 71191     | 91      |
| Hexadecane                    | 544-76-3   | NBS75K.1 | 70787     | 90      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Instrument: a900.i

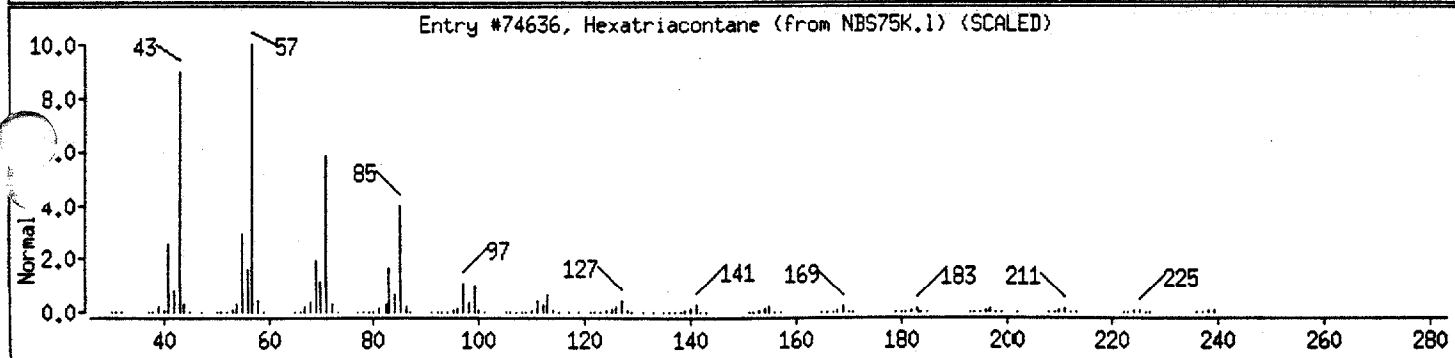
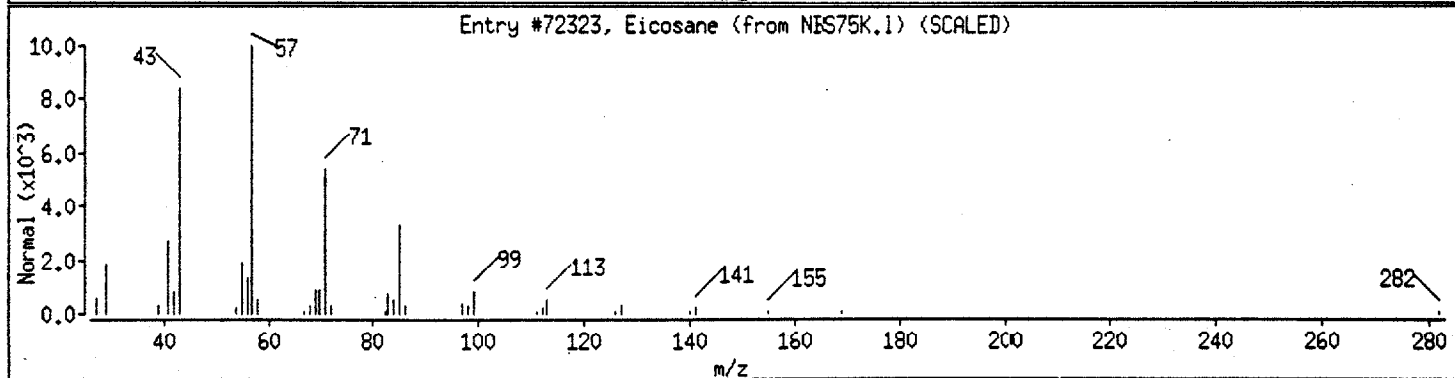
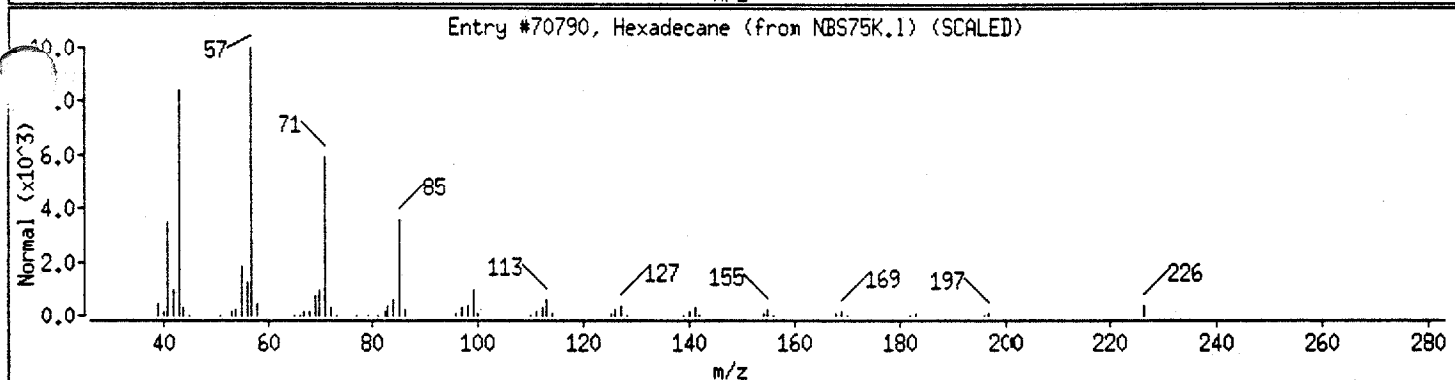
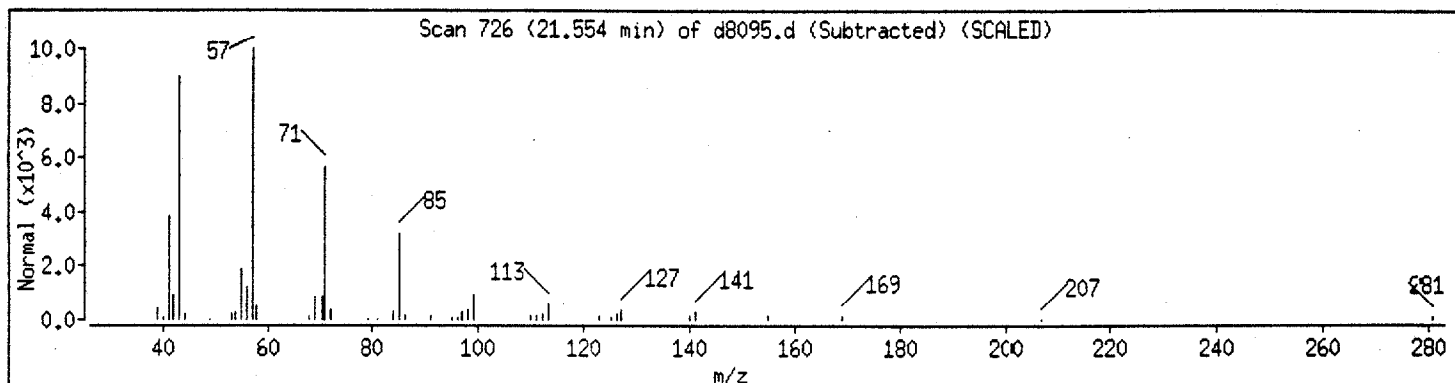
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Hexadecane                    | 544-76-3   | NBS75K.1 | 70790     | 91      |
| Eicosane                      | 112-95-8   | NBS75K.1 | 72323     | 91      |
| Hexatriacontane               | 630-06-8   | NBS75K.1 | 74636     | 87      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date: 10-MAR-94 23:17

Instrument: a900.i

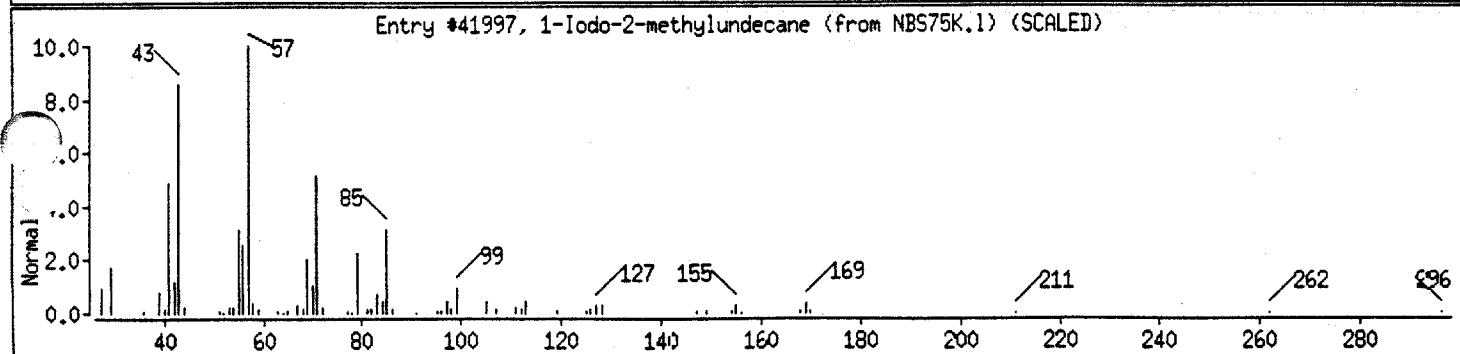
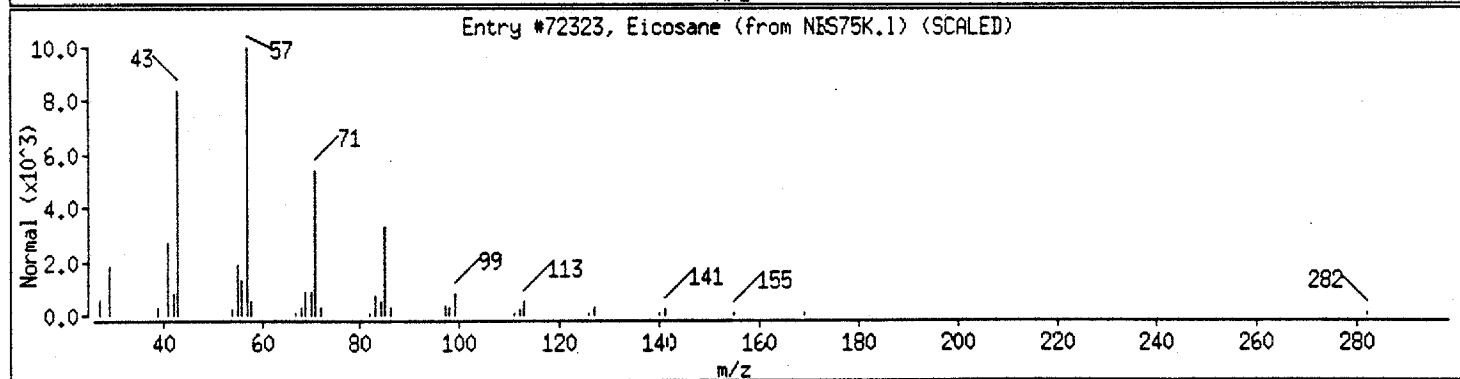
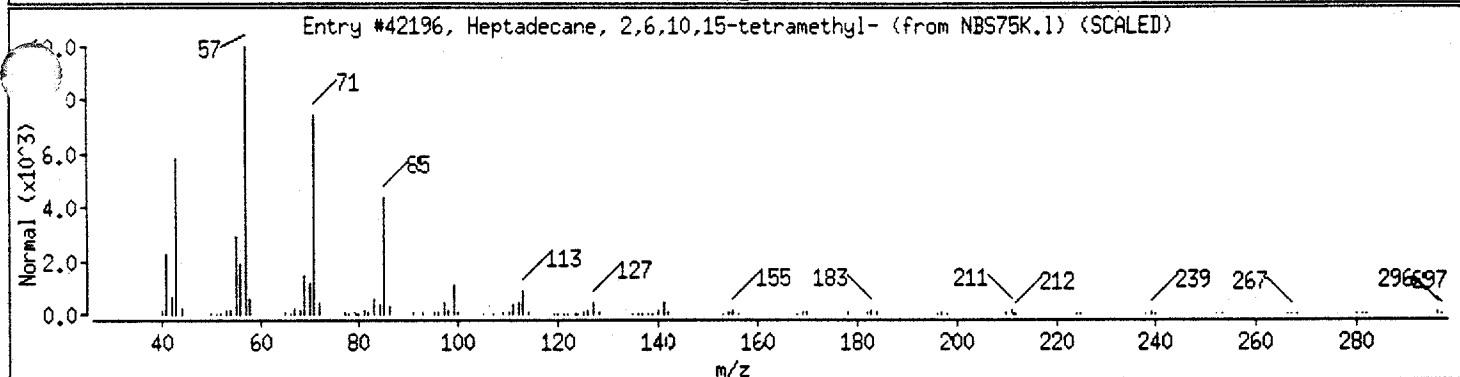
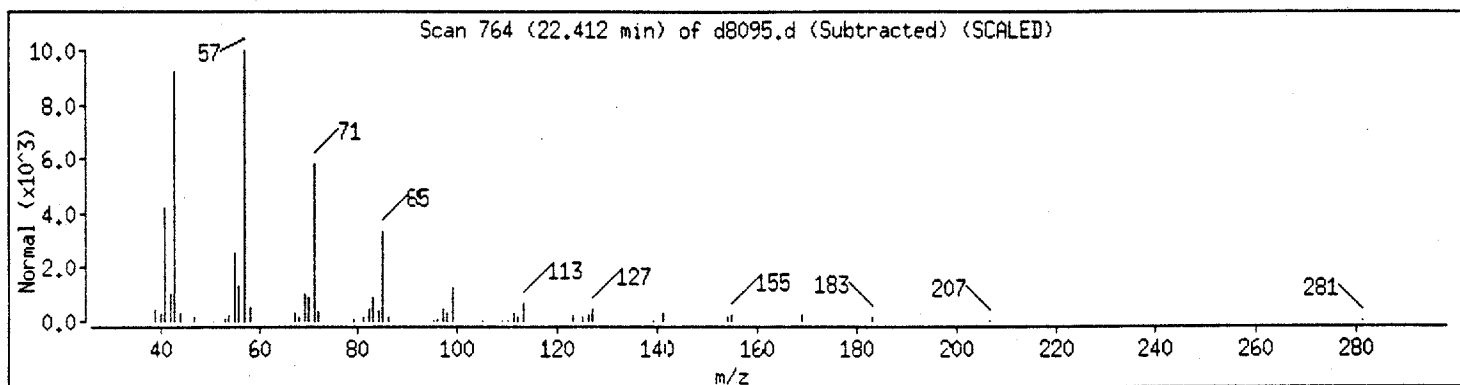
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match       | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------------|------------|----------|-----------|---------|
| Heptadecane, 2,6,10,15-tetramethyl- | 54833-48-6 | NBS75K.1 | 42196     | 91      |
| Eicosane                            | 112-95-8   | NBS75K.1 | 72323     | 91      |
| 1-Iodo-2-methylundecane             | 73105-67-6 | NBS75K.1 | 41997     | 90      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date : 10-MAR-94 23:17

Instrument : a900.i

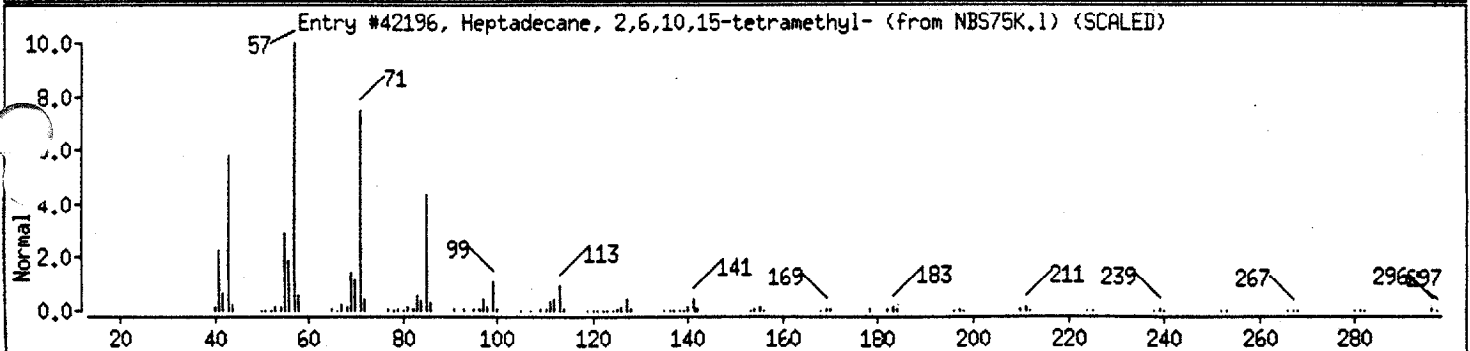
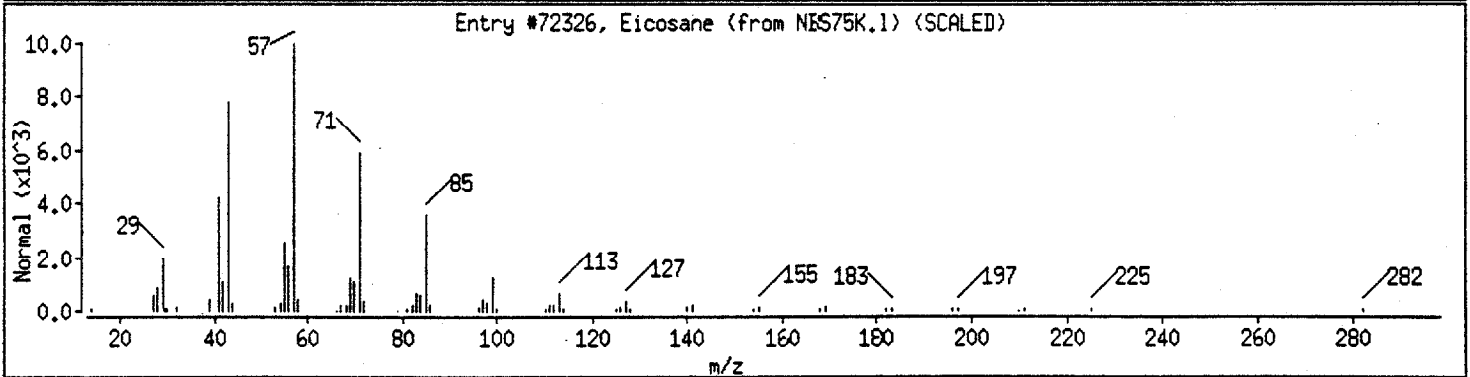
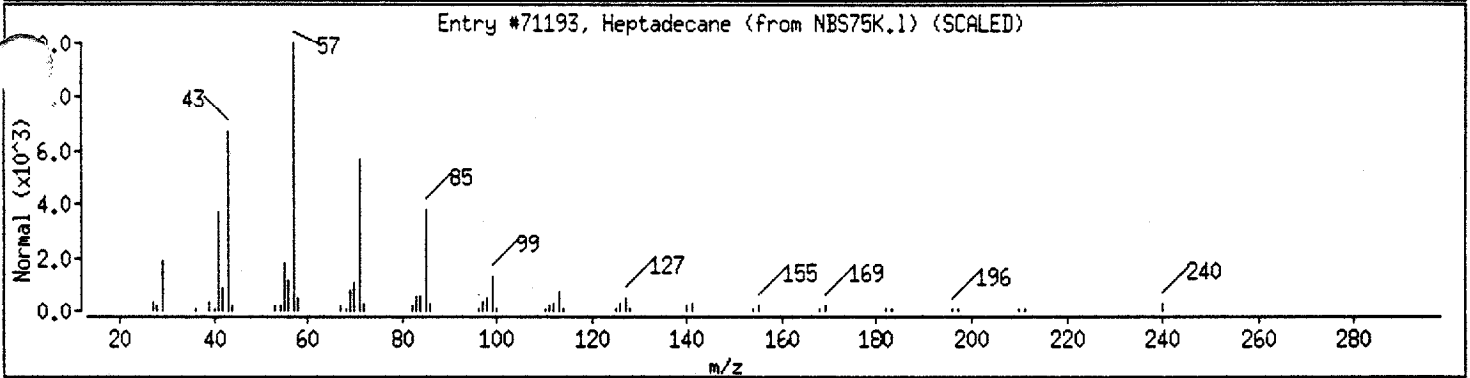
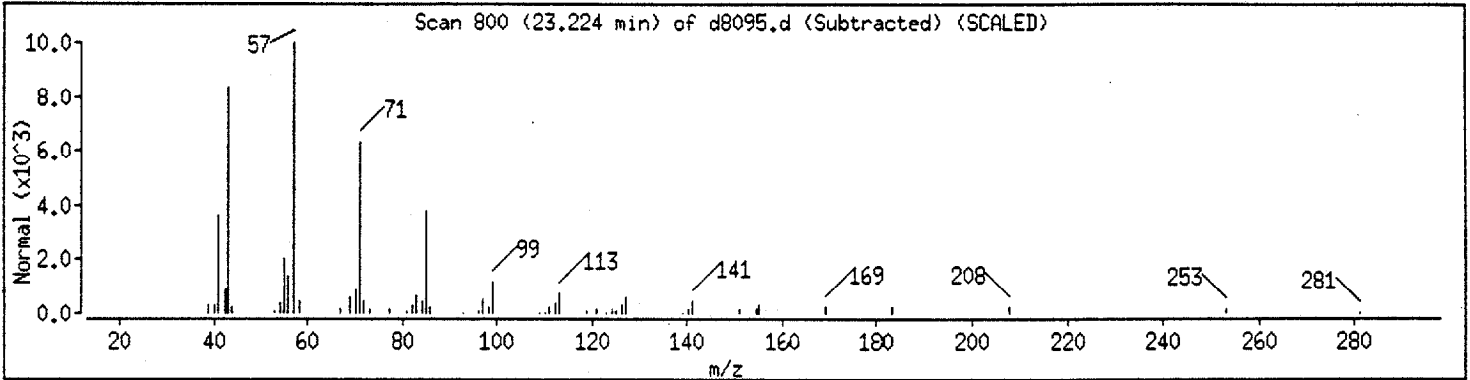
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match       | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------------|------------|----------|-----------|---------|
| Heptadecane                         | 629-78-7   | NBS75K.1 | 71193     | 90      |
| Eicosane                            | 112-95-8   | NBS75K.1 | 72326     | 90      |
| Heptadecane, 2,6,10,15-tetramethyl- | 54833-48-6 | NBS75K.1 | 42196     | 90      |



Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

Instrument : a900.i

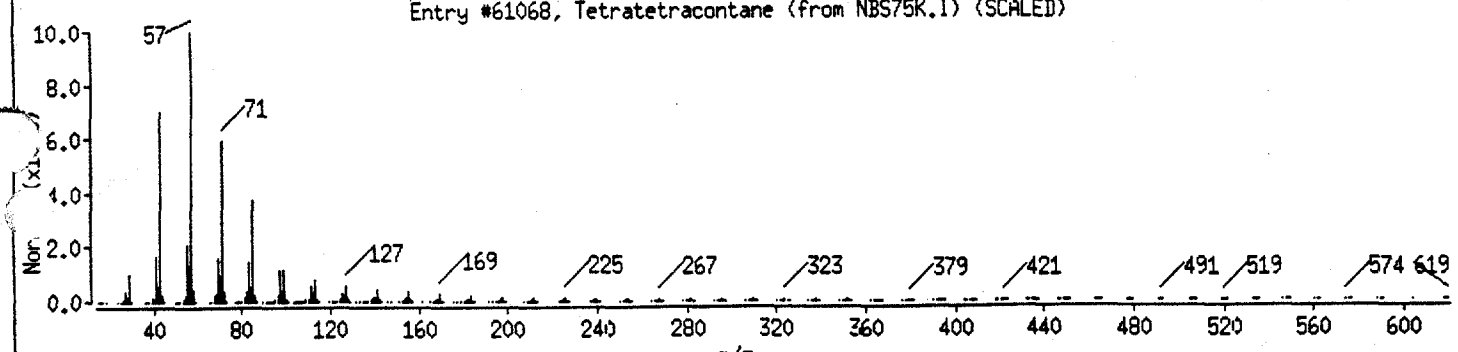
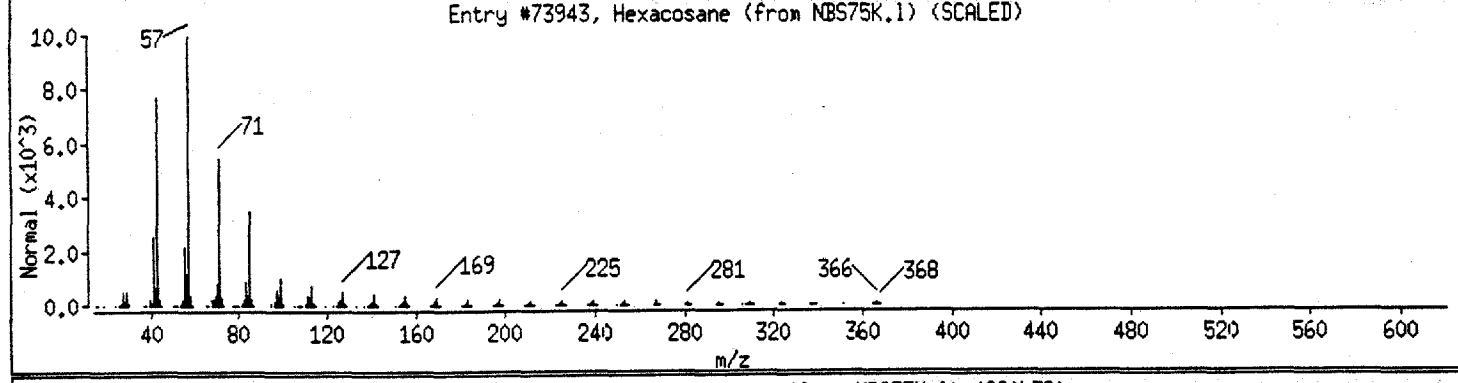
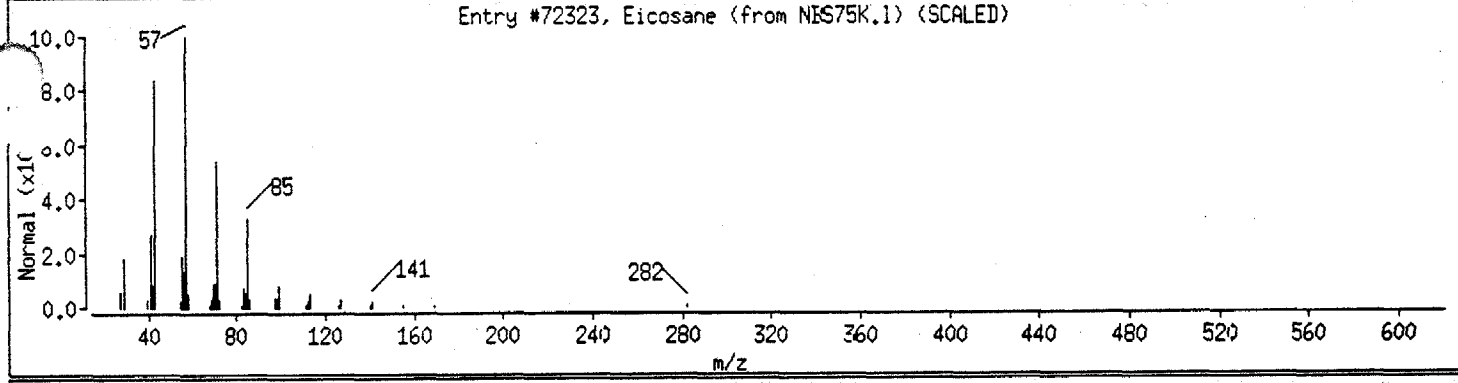
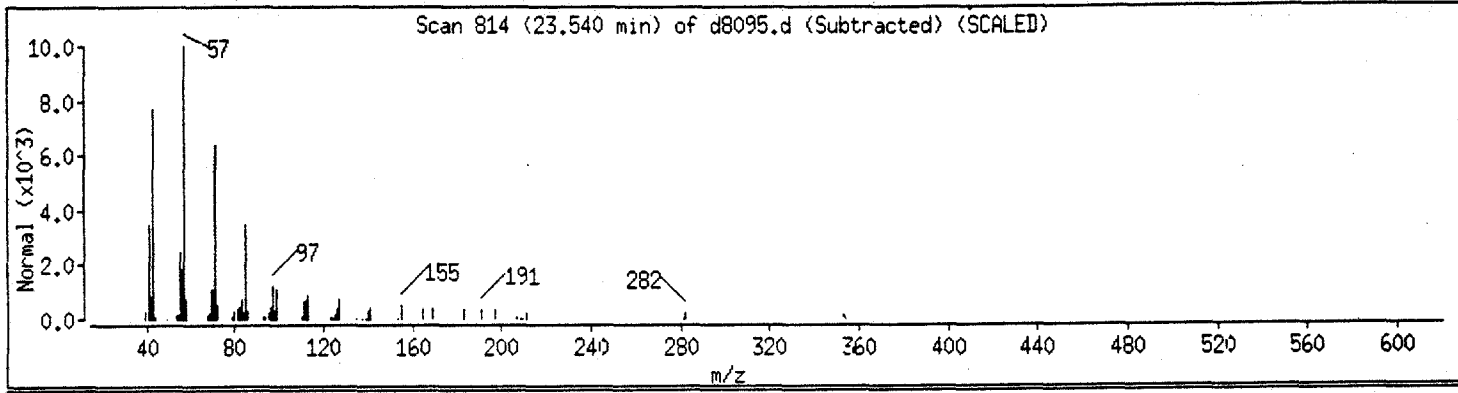
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Eicosane                      | 112-95-8   | NBS75K.1 | 72323     | 90      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 73943     | 86      |
| Tetratetracontane             | 7098-22-8  | NBS75K.1 | 61068     | 86      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Instrument: a900.i

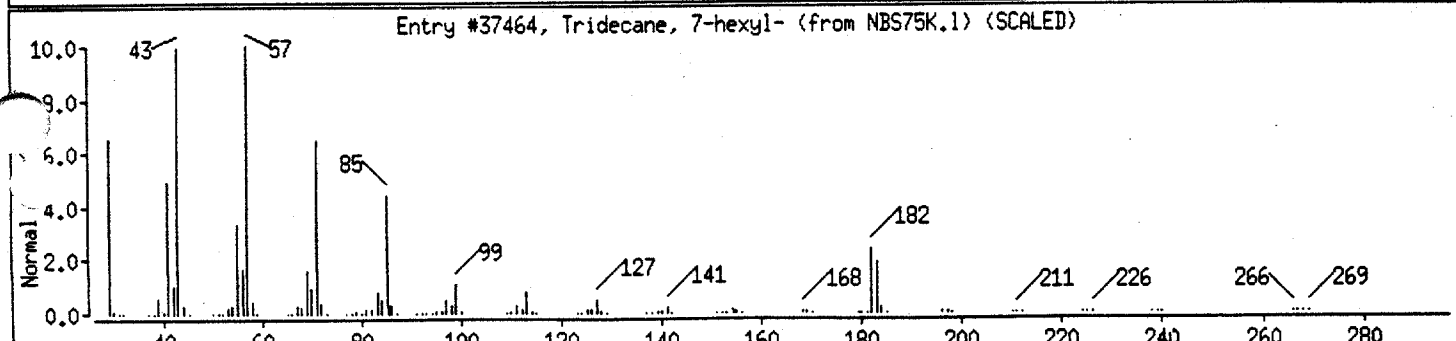
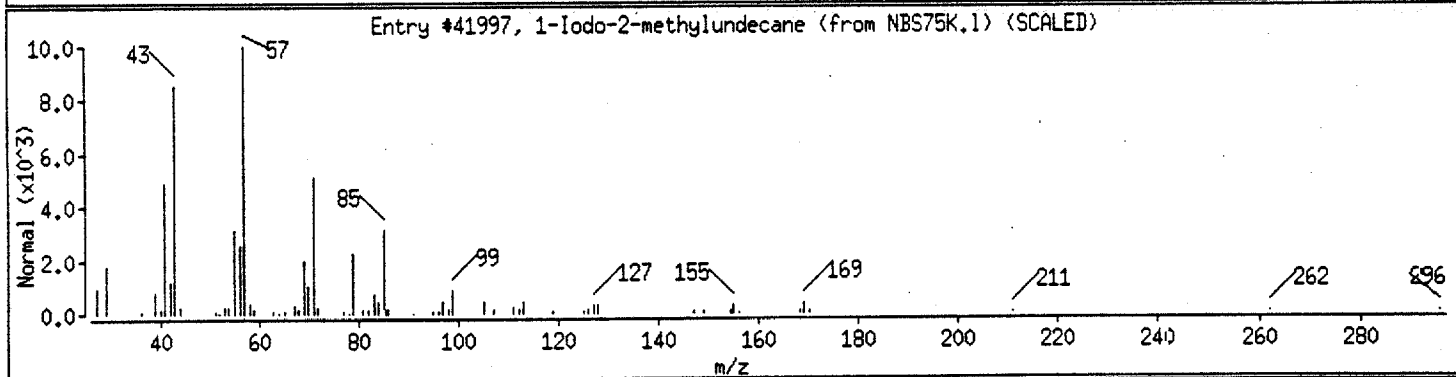
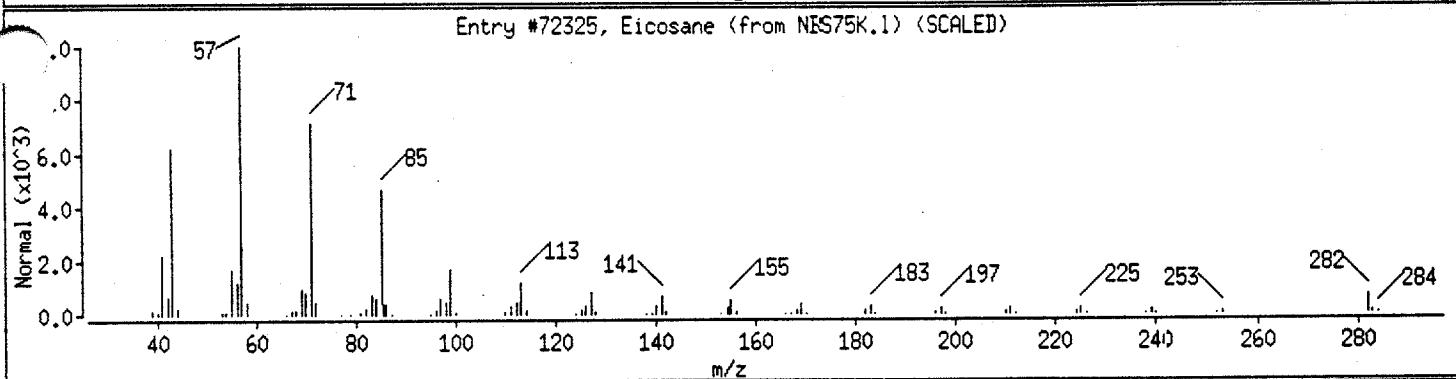
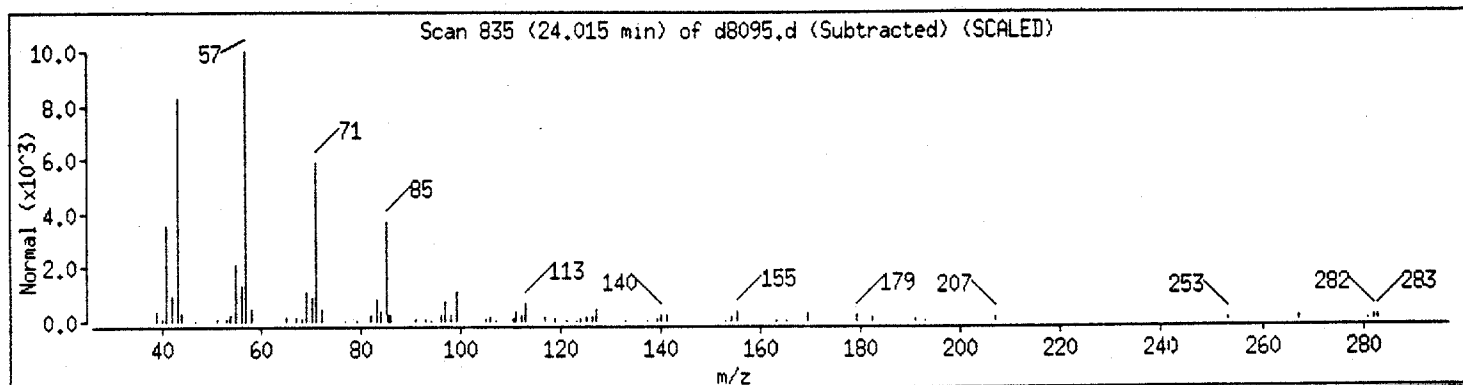
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Eicosane                      | 112-95-8   | NBS75K.1 | 72325     | 91      |
| 1-Iodo-2-methylundecane       | 73105-67-6 | NBS75K.1 | 41997     | 86      |
| Tridecane, 7-hexyl-           | 7225-66-3  | NBS75K.1 | 37464     | 86      |





Data File: /chem/a900.i/d031094.b/d8095.d

Date: 10-MAR-94 23:17

Instrument: a900.i

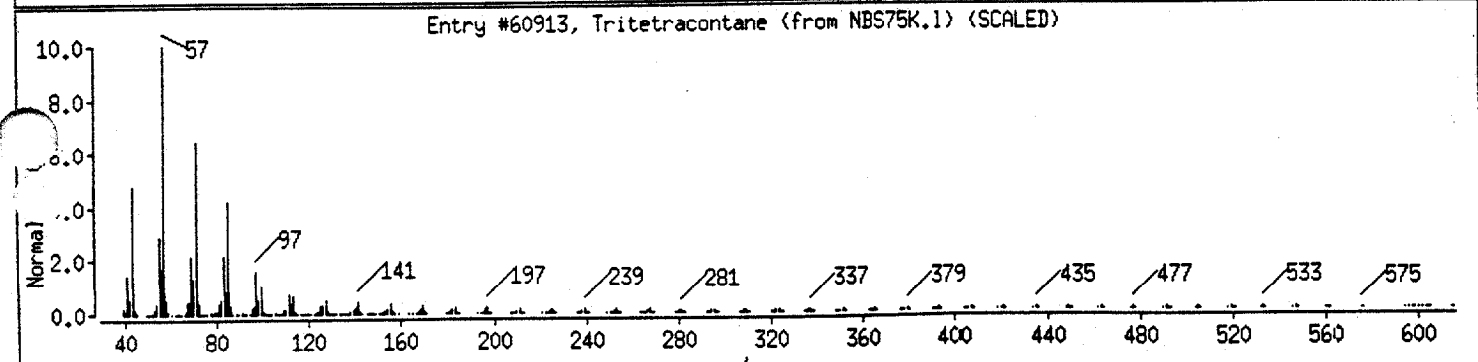
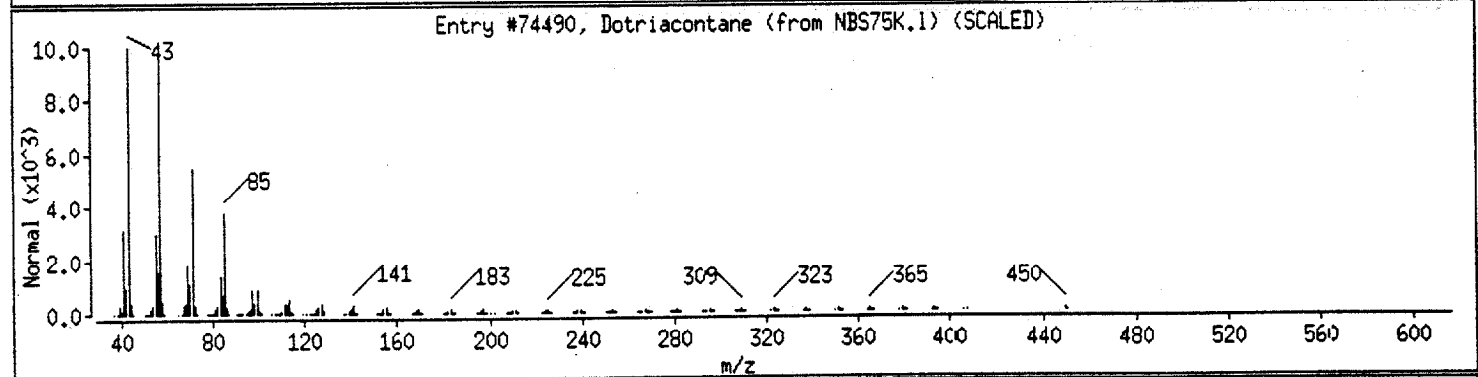
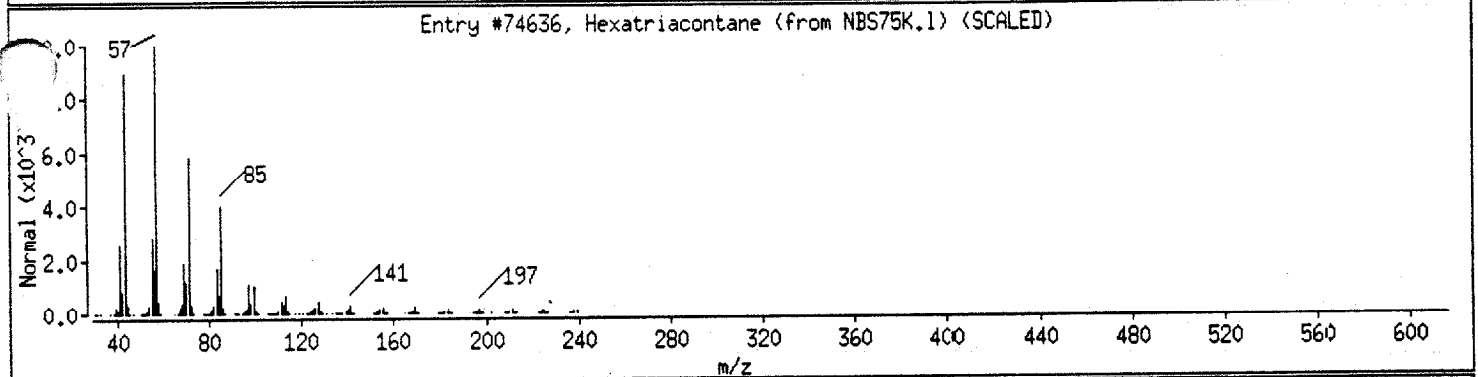
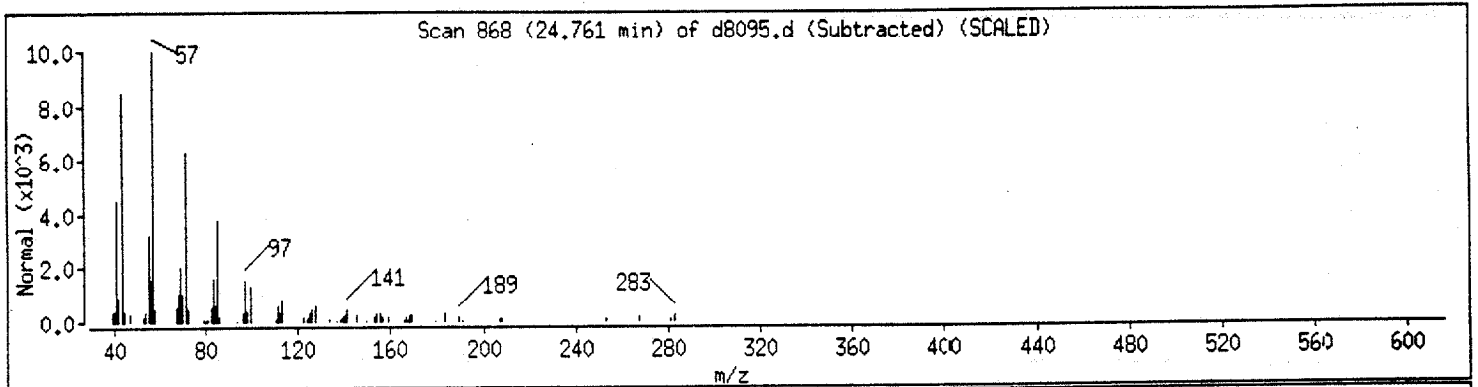
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Hexatriacontane               | 630-06-8   | NBS75K.1 | 74636     | 91      |
| Dotriacontane                 | 544-85-4   | NBS75K.1 | 74490     | 90      |
| Tritetracontane               | 7098-21-7  | NBS75K.1 | 60913     | 90      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date : 10-MAR-94 23:17

Instrument : a900.i

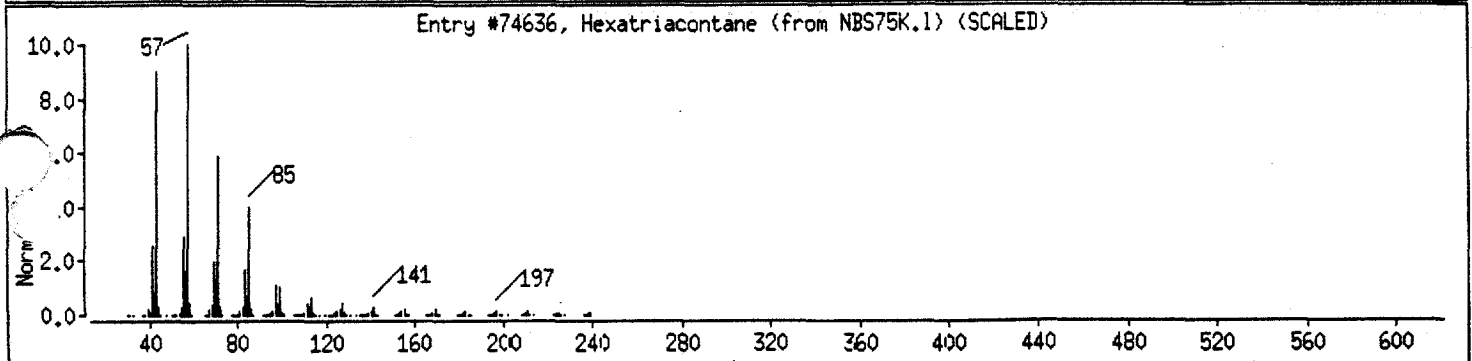
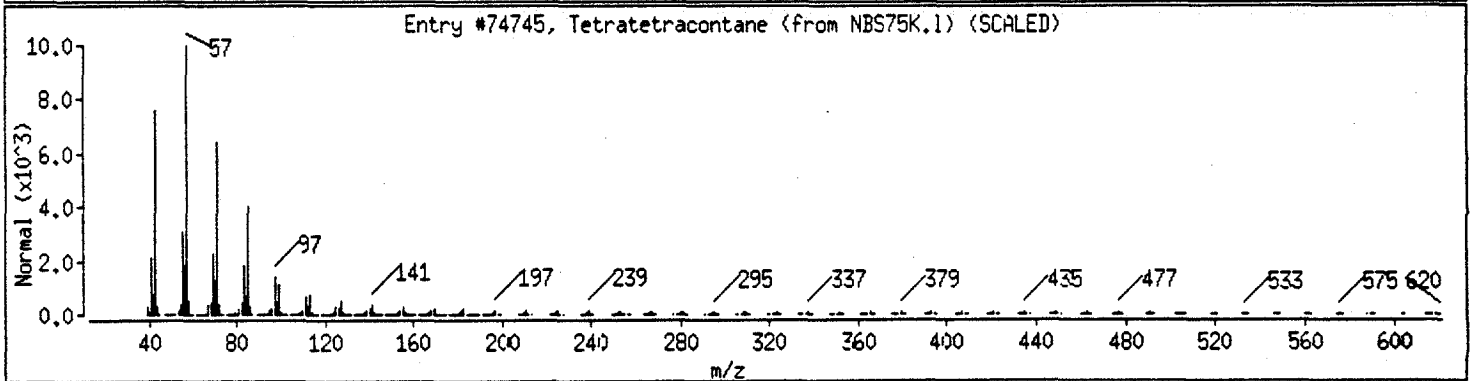
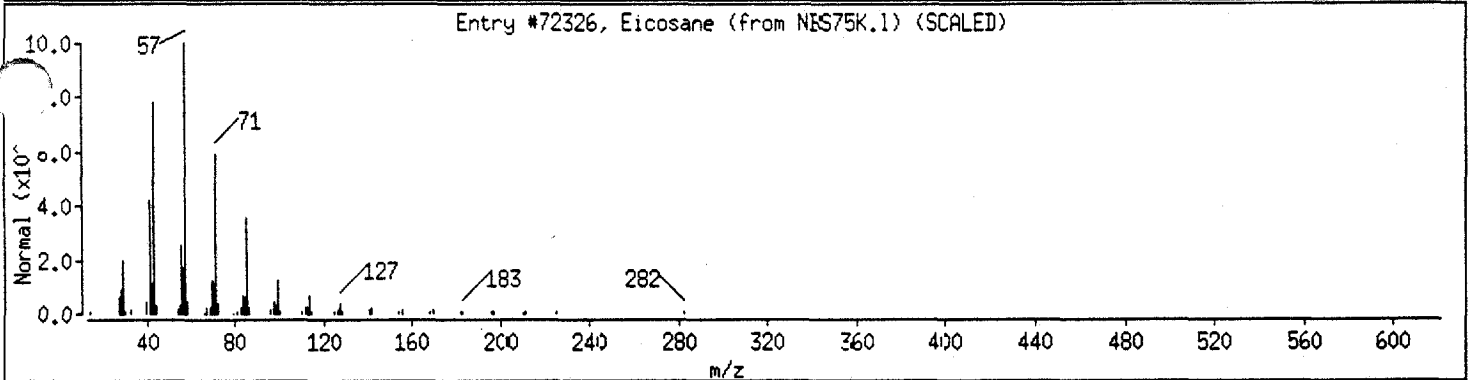
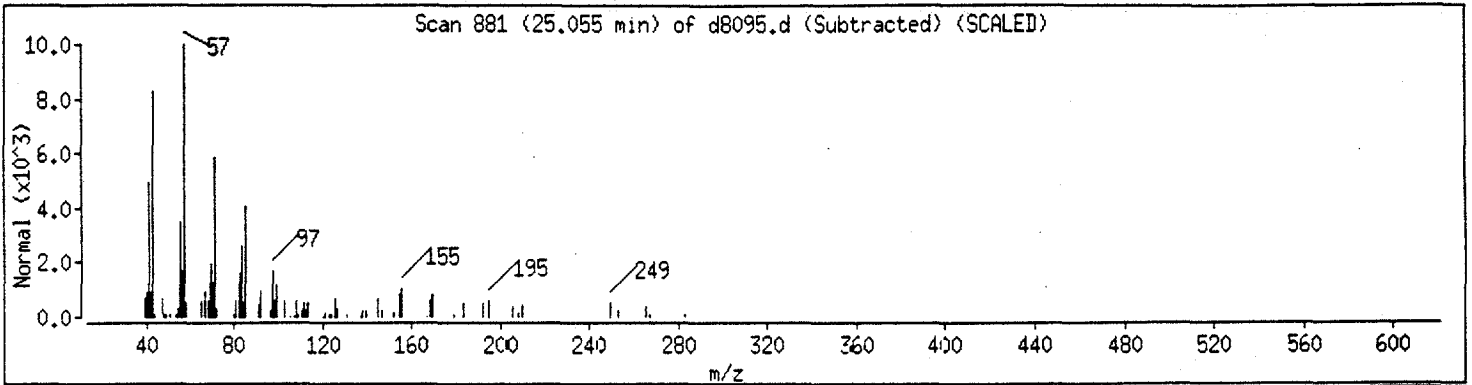
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Eicosane                      | 112-95-8   | NBS75K.1 | 72326     | 58      |
| Tetratetracontane             | 7098-22-8  | NBS75K.1 | 74745     | 58      |
| Hexatriacontane               | 630-06-8   | NBS75K.1 | 74636     | 58      |



Data File: /chem/a900.1/d031094.b/d8095.d

Date: 10-MAR-94 23:17

Instrument: a900.i

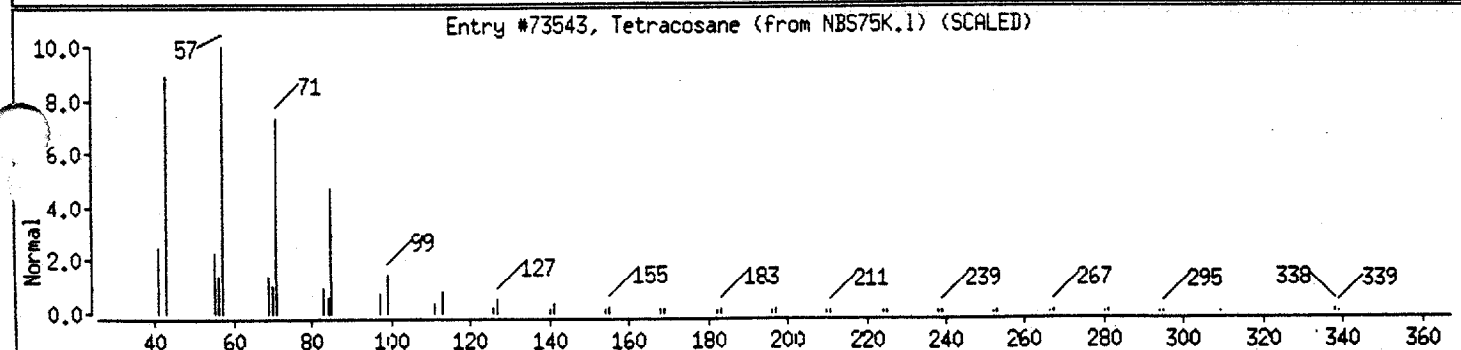
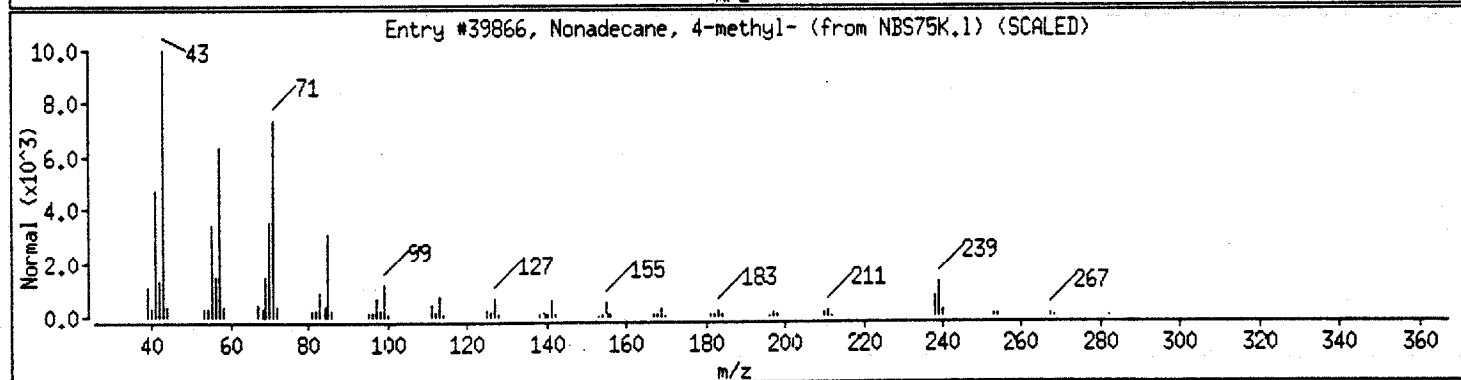
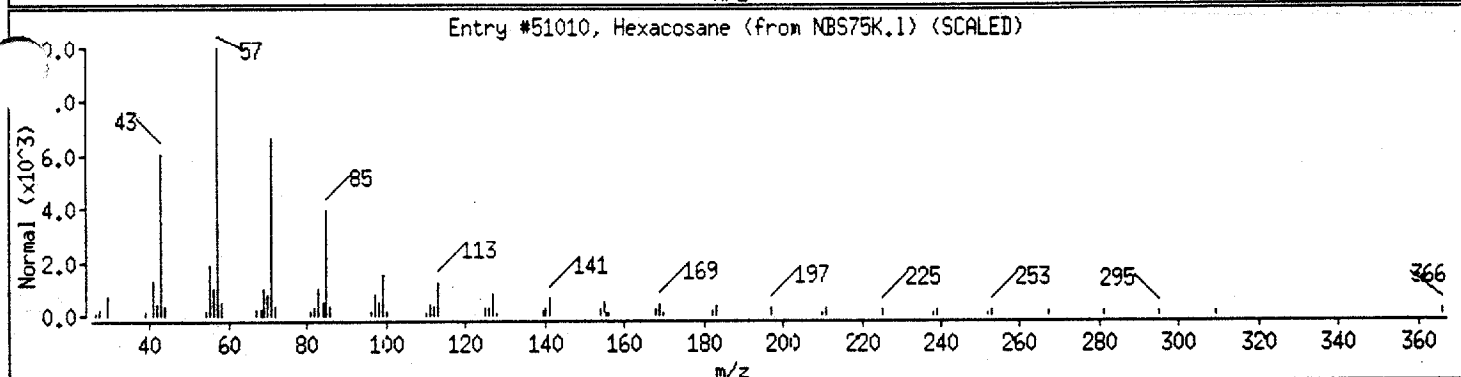
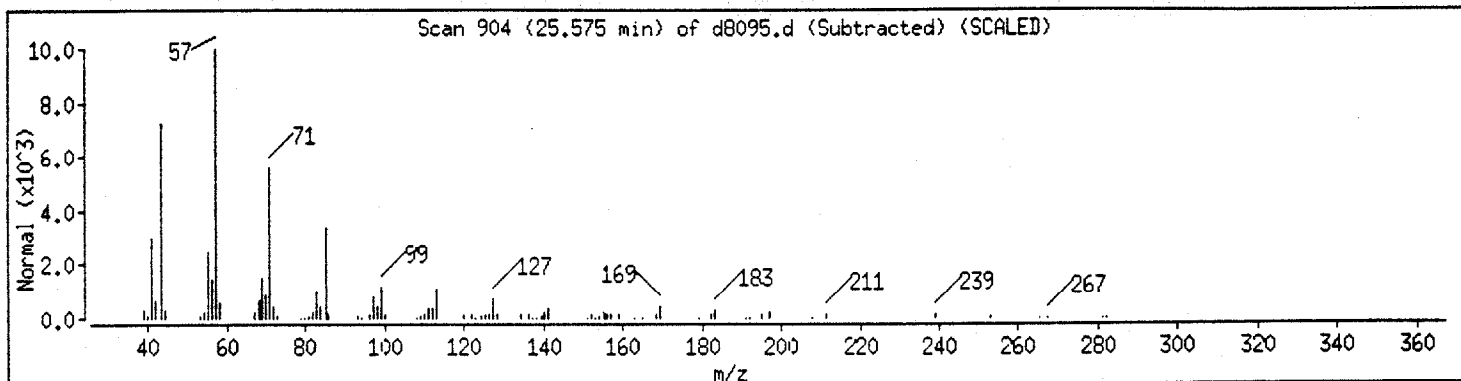
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Hexacosane                    | 630-01-3   | NBS75K.1 | 51010     | 91      |
| Nonadecane, 4-methyl-         | 25117-27-5 | NBS75K.1 | 39866     | 90      |
| Tetracosane                   | 646-31-1   | NBS75K.1 | 73543     | 87      |



Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

Instrument : a900.i

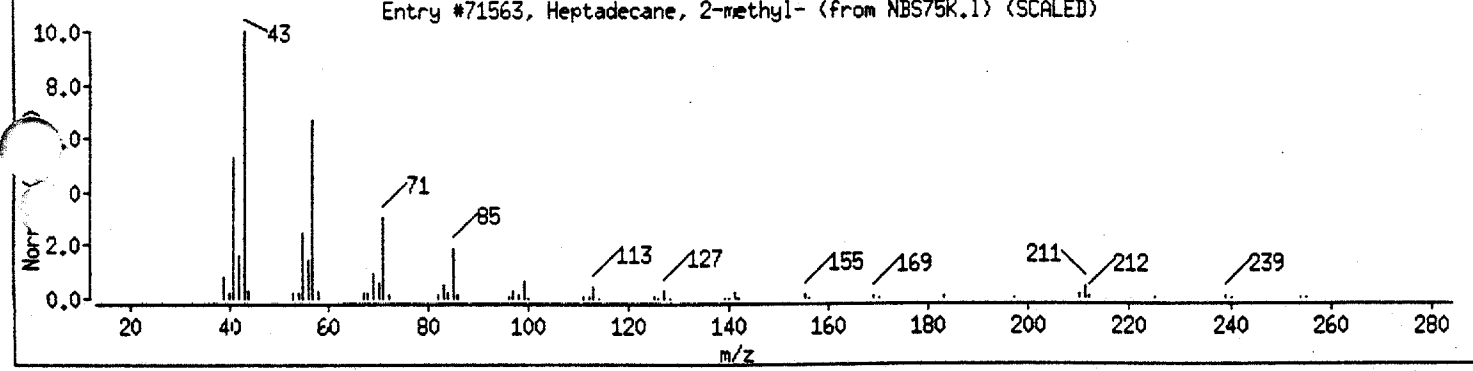
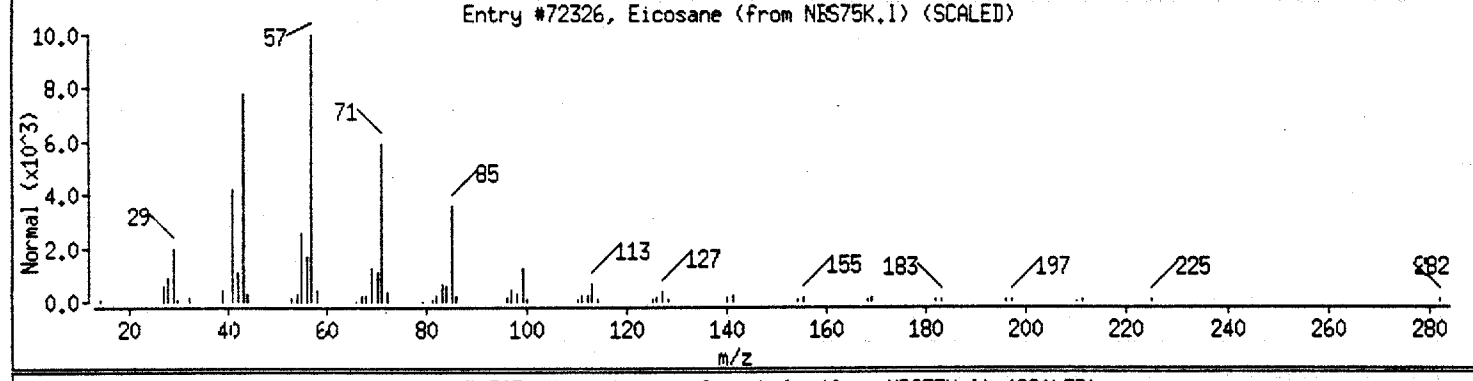
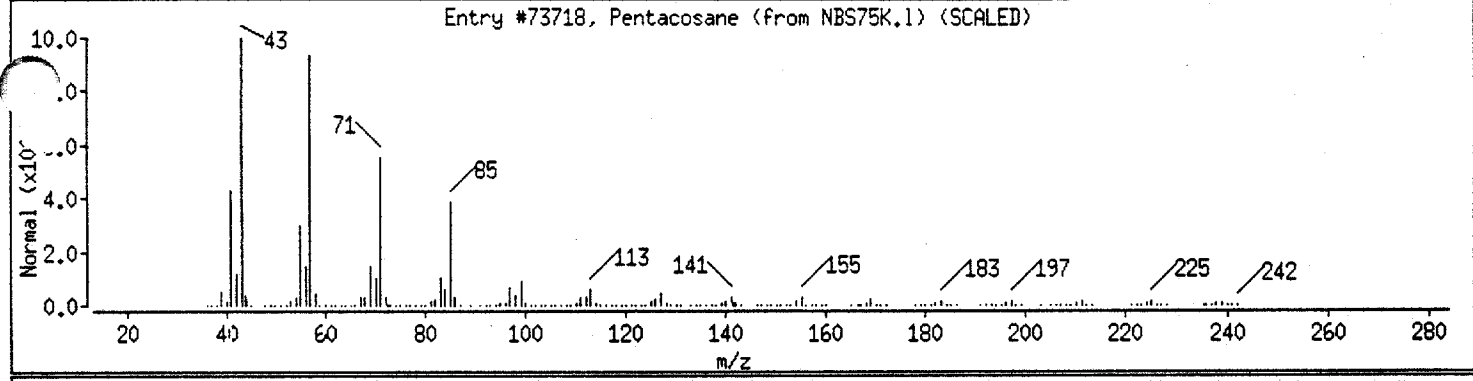
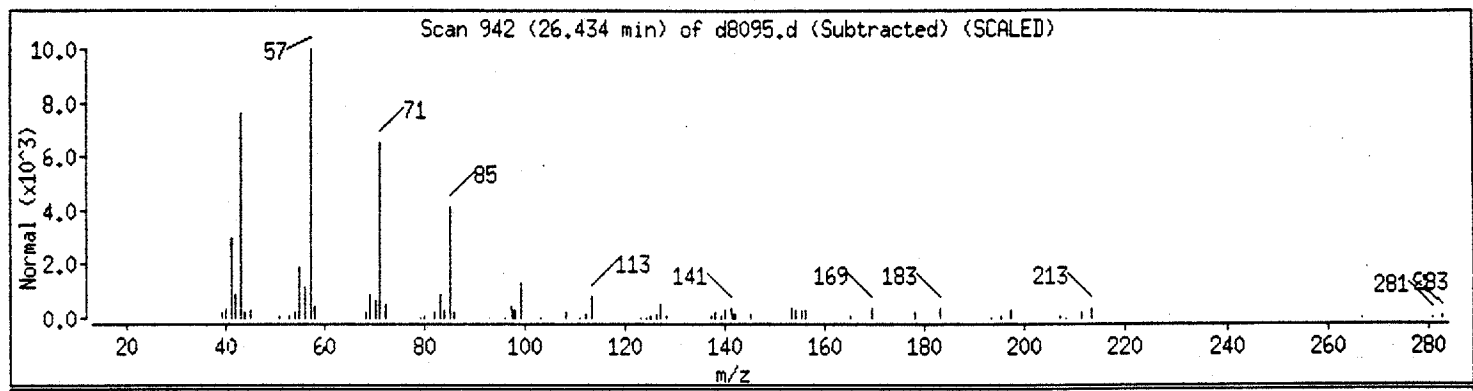
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Pentacosane                   | 629-99-2   | NBS75K.1 | 73718     | 83      |
| Eicosane                      | 112-95-8   | NBS75K.1 | 72326     | 78      |
| Heptadecane, 2-methyl-        | 1560-89-0  | NBS75K.1 | 71563     | 72      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date: 10-MAR-94 23:17

Instrument: a900.i

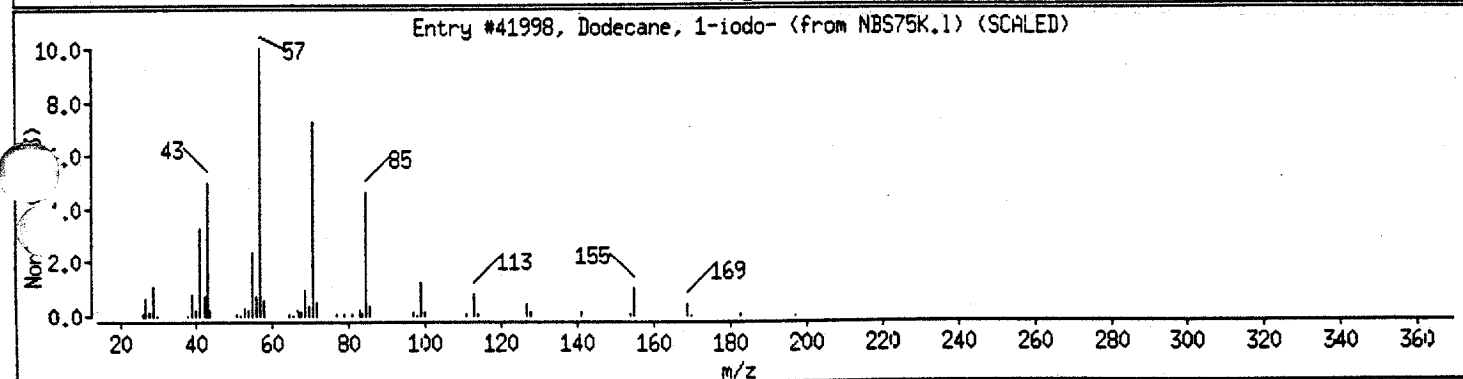
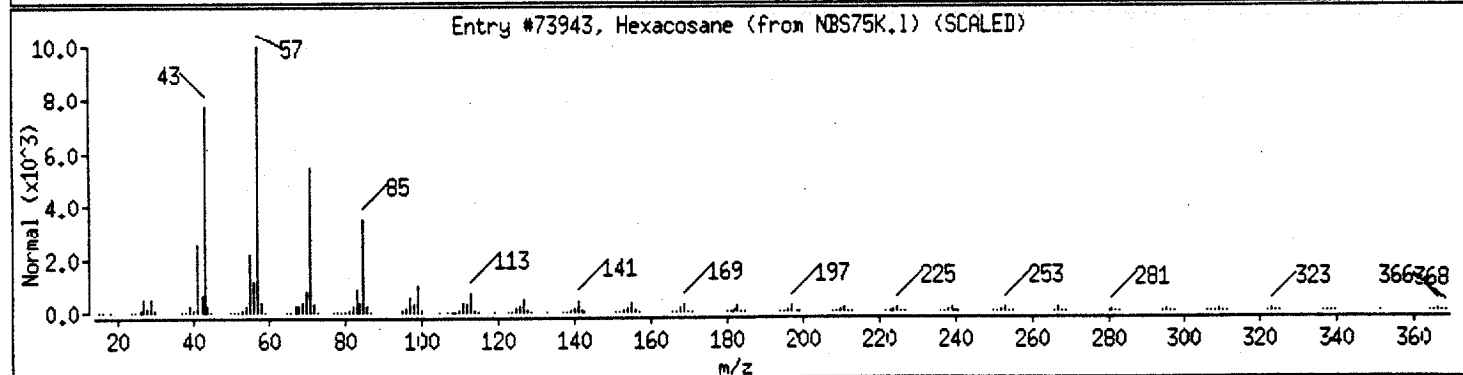
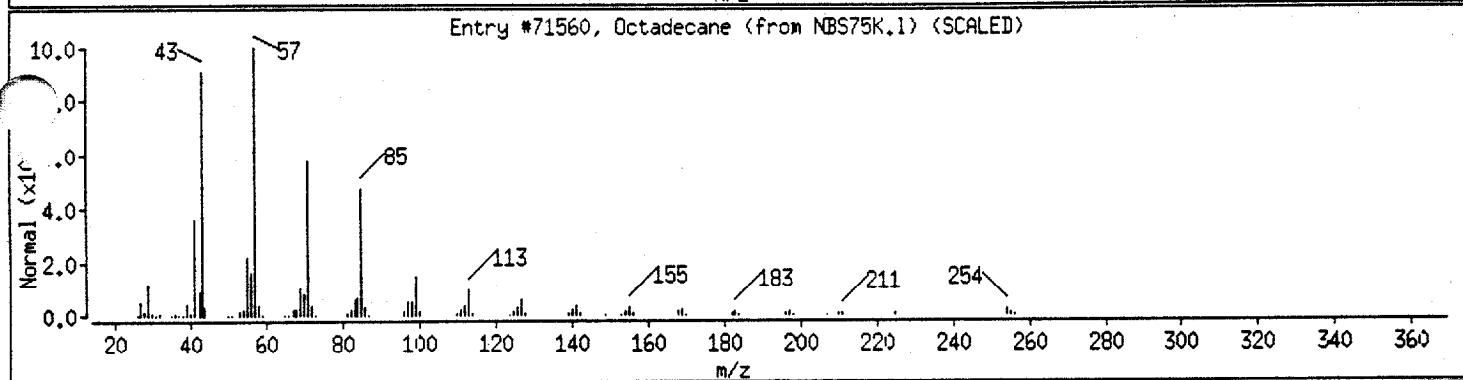
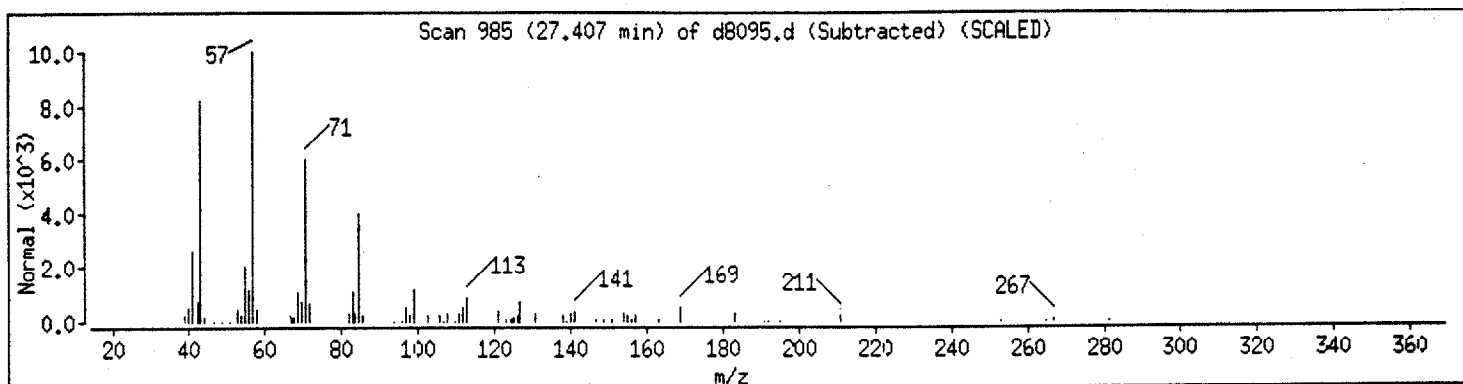
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Octadecane                    | 593-45-3   | NBS75K.1 | 71560     | 90      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 73943     | 86      |
| Dodecane, 1-iodo-             | 4292-19-7  | NBS75K.1 | 41998     | 86      |



Data File: /chem/a900.1/d031094.b/d8095.d

Date: 10-MAR-94 23:17

Instrument: a900.1

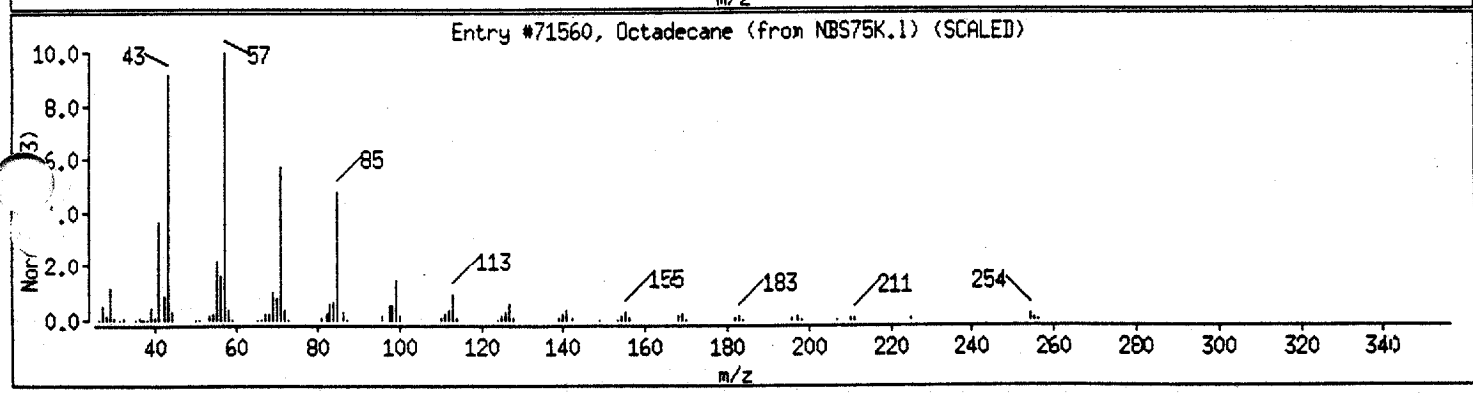
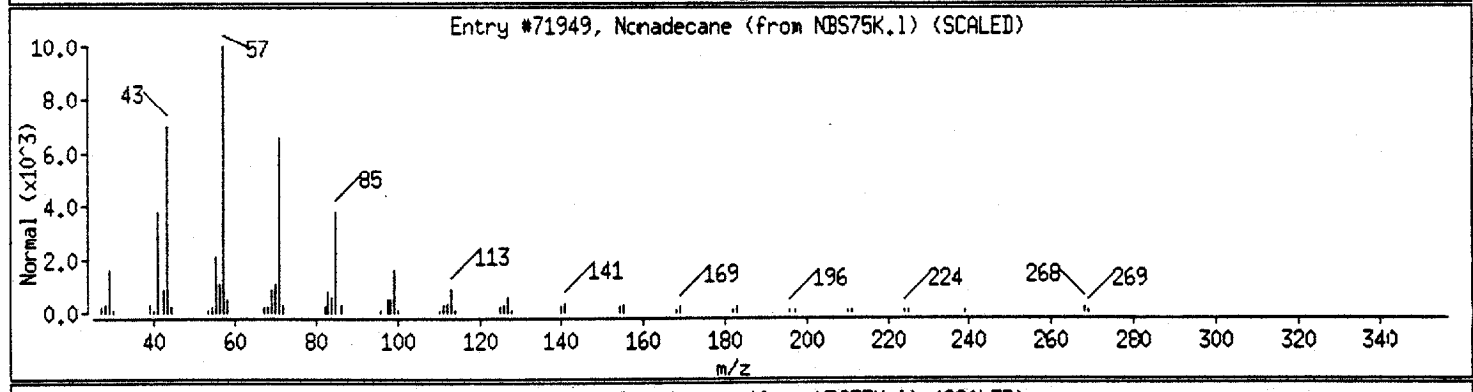
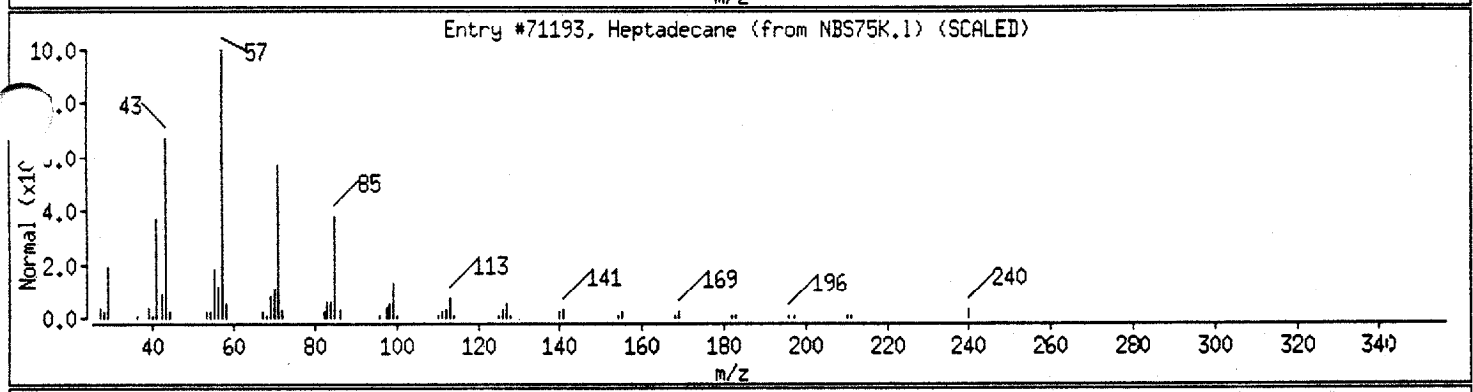
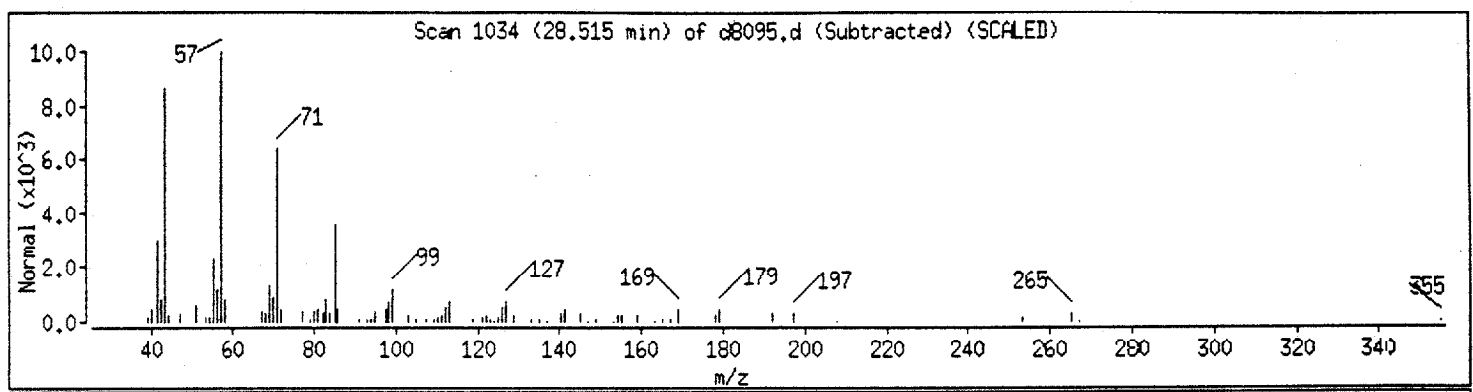
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Heptadecane                   | 629-78-7   | NBS75K.1 | 71193     | 87      |
| Nonadecane                    | 629-92-5   | NBS75K.1 | 71949     | 87      |
| Octadecane                    | 593-45-3   | NBS75K.1 | 71560     | 86      |



Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

Instrument : a900.i

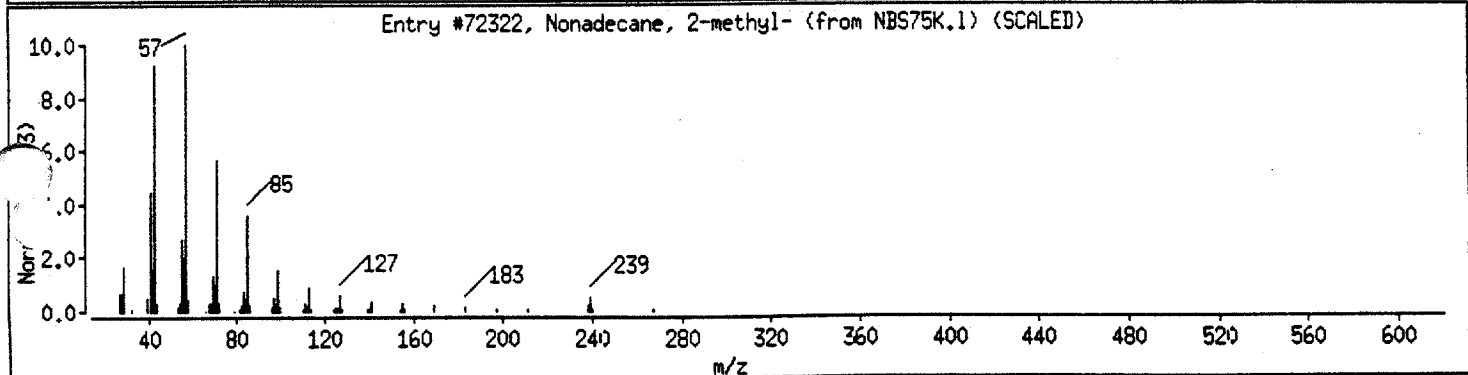
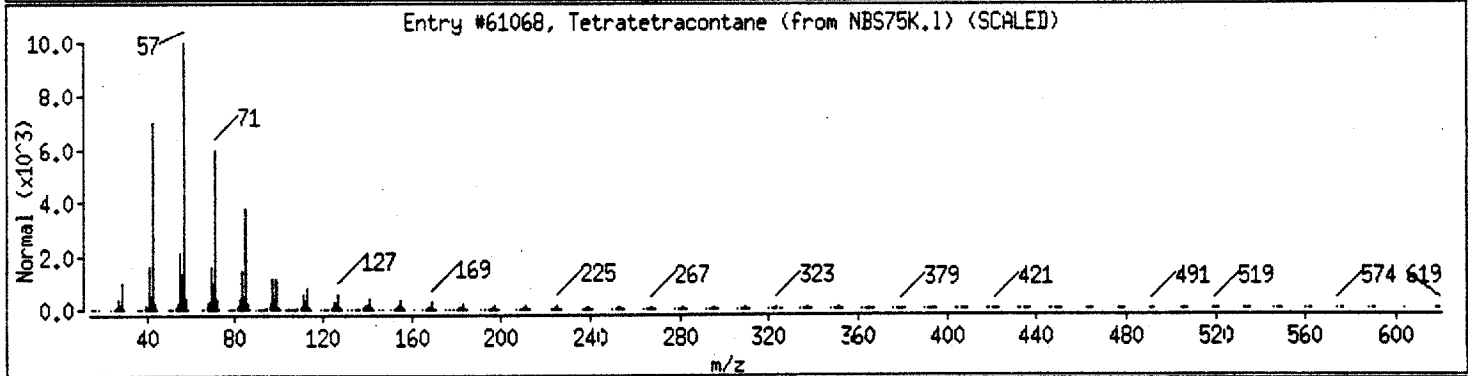
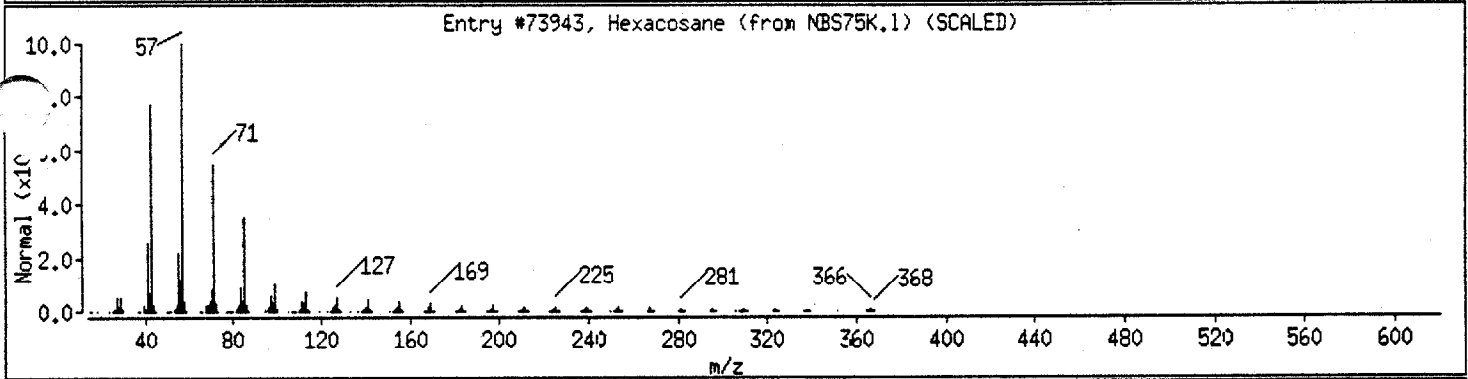
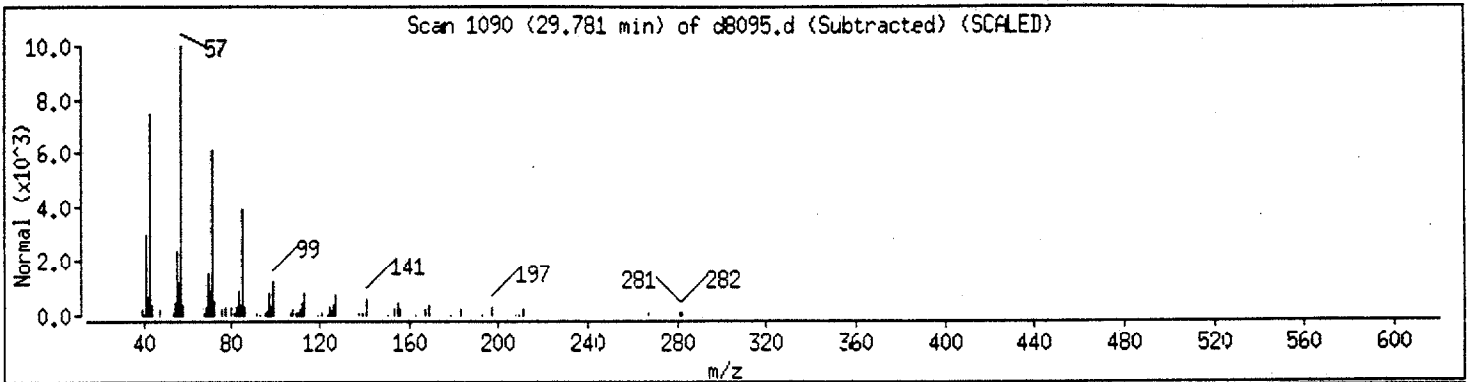
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Hexacosane                    | 630-01-3   | NBS75K.1 | 73943     | 91      |
| Tetratetracontane             | 7098-22-8  | NBS75K.1 | 61068     | 91      |
| Nonadecane, 2-methyl-         | 1560-86-7  | NBS75K.1 | 72322     | 91      |



Data File: /chem/a900.i/d031094.b/d8095.d

Date: 10-MAR-94 23:17

Instrument: a900.i

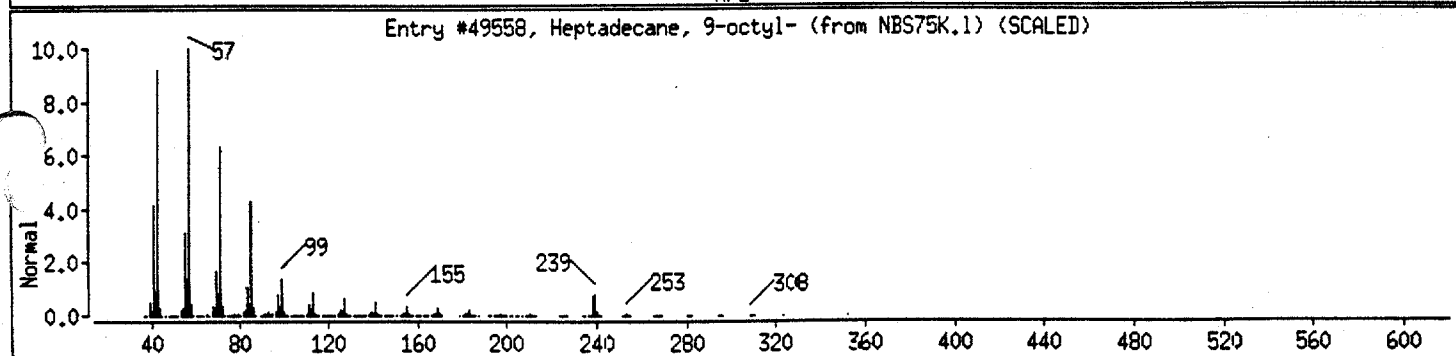
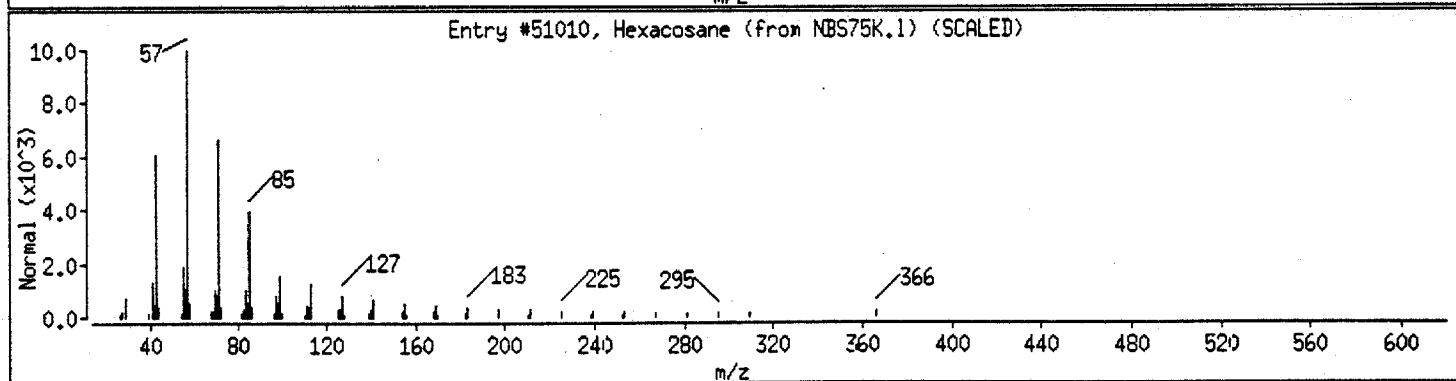
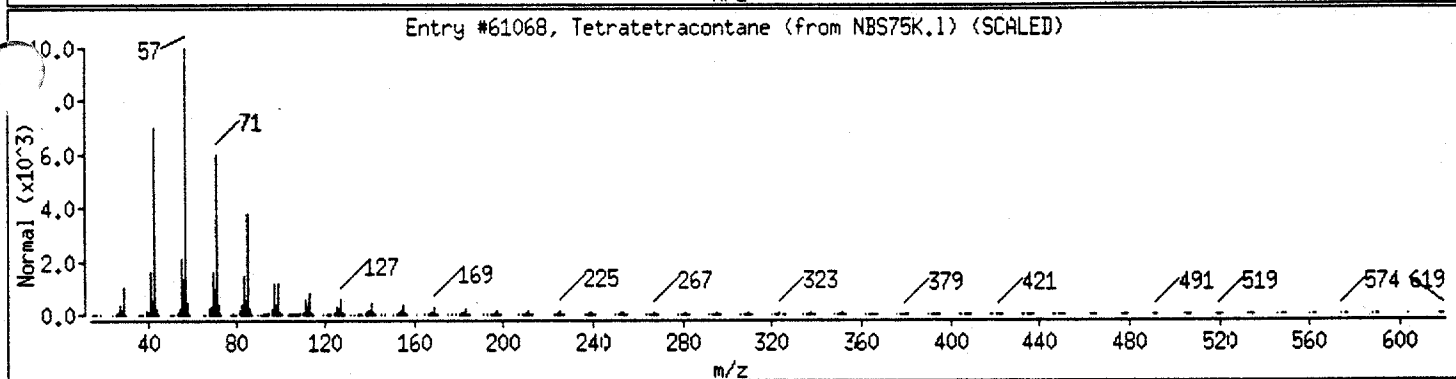
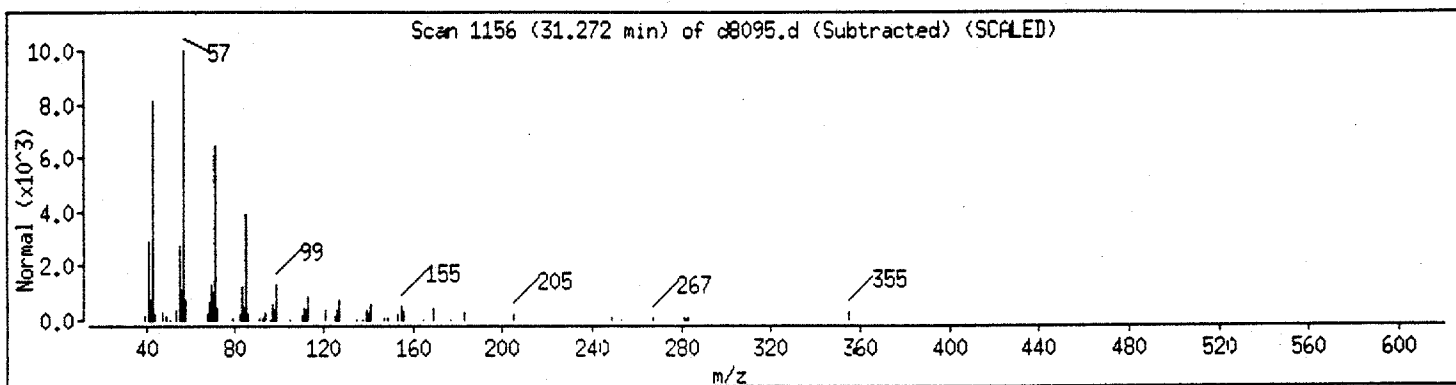
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Tetratetracontane             | 7098-22-8  | NBS75K.1 | 61068     | 90      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 51010     | 90      |
| Heptadecane, 9-octyl-         | 7225-64-1  | NBS75K.1 | 49558     | 90      |





Data File: /chem/a900.i/d031094.b/d8095.d

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Date : 10-MAR-94 23:17

Instrument : a900.i

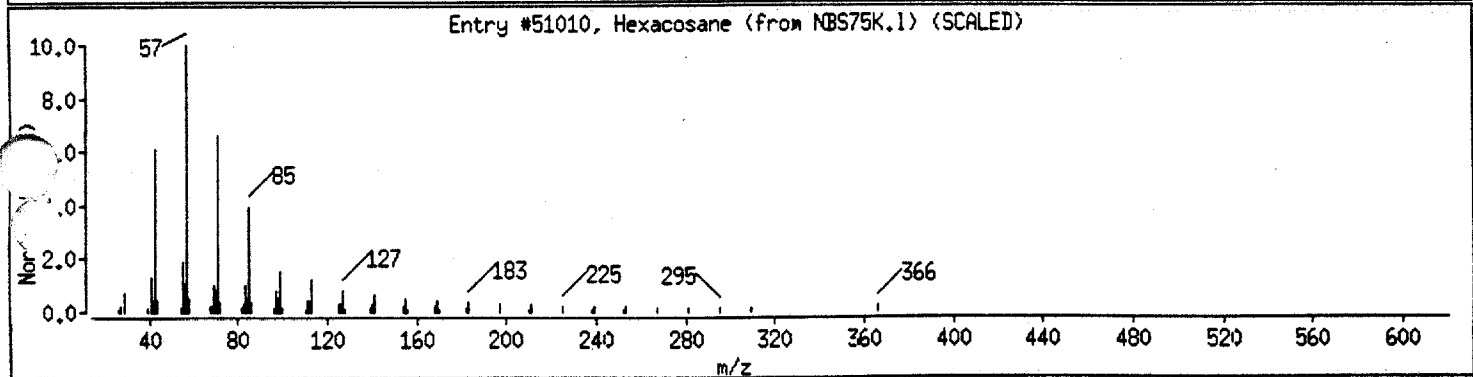
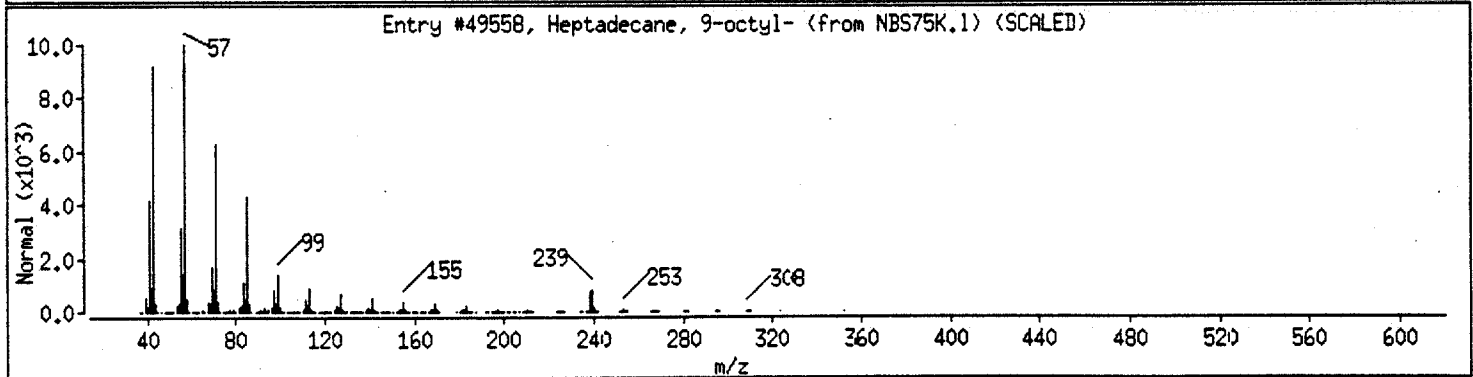
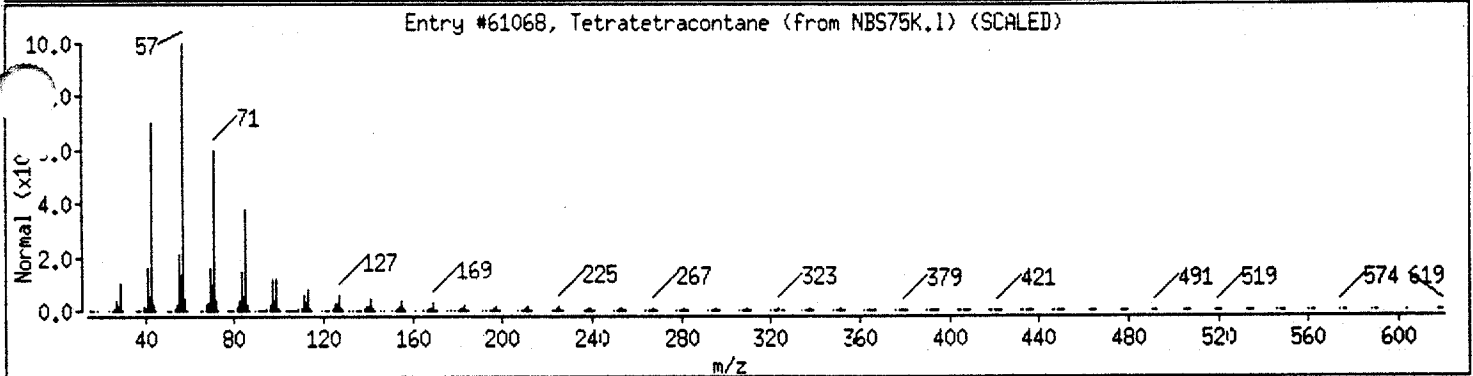
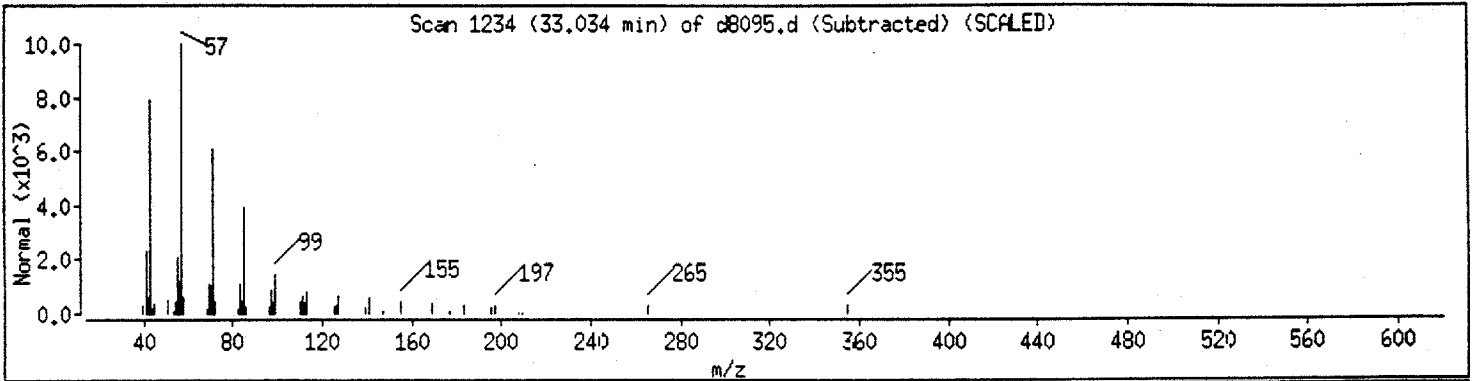
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Tetratetracontane             | 7098-22-8  | NBS75K.1 | 61068     | 91      |
| Heptadecane, 9-octyl-         | 7225-64-1  | NBS75K.1 | 49558     | 91      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 51010     | 91      |



Data File: /chem/a900.i/d031094.b/d8095.d

Date: 10-MAR-94 23:17

Instrument: a900.i

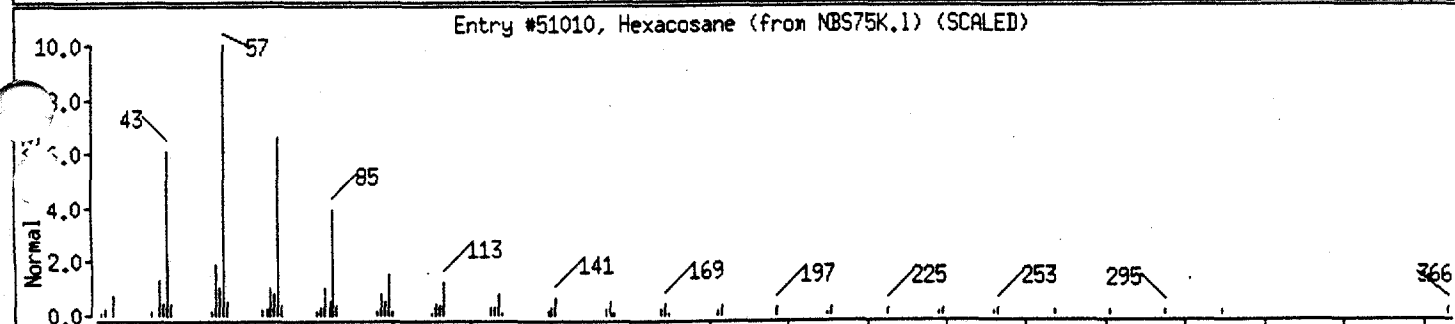
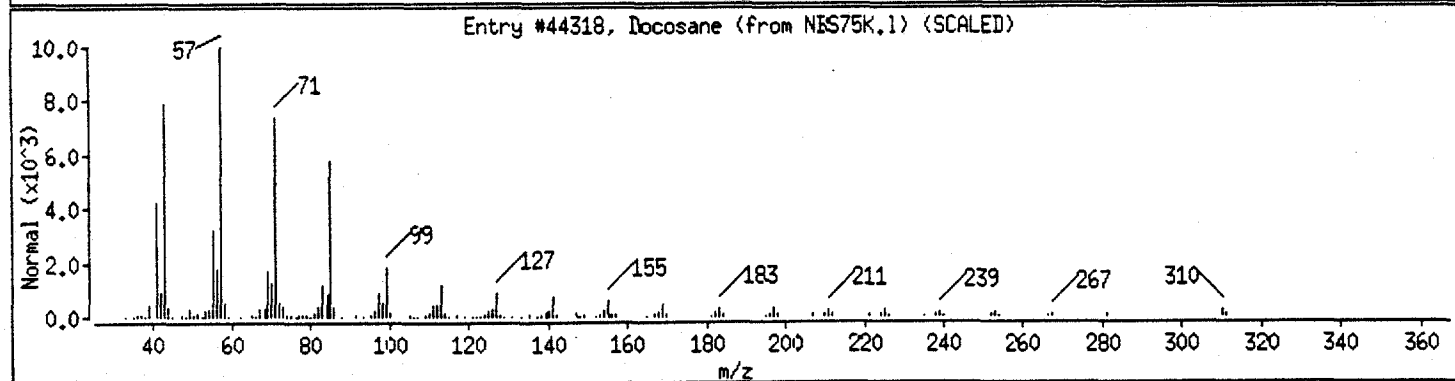
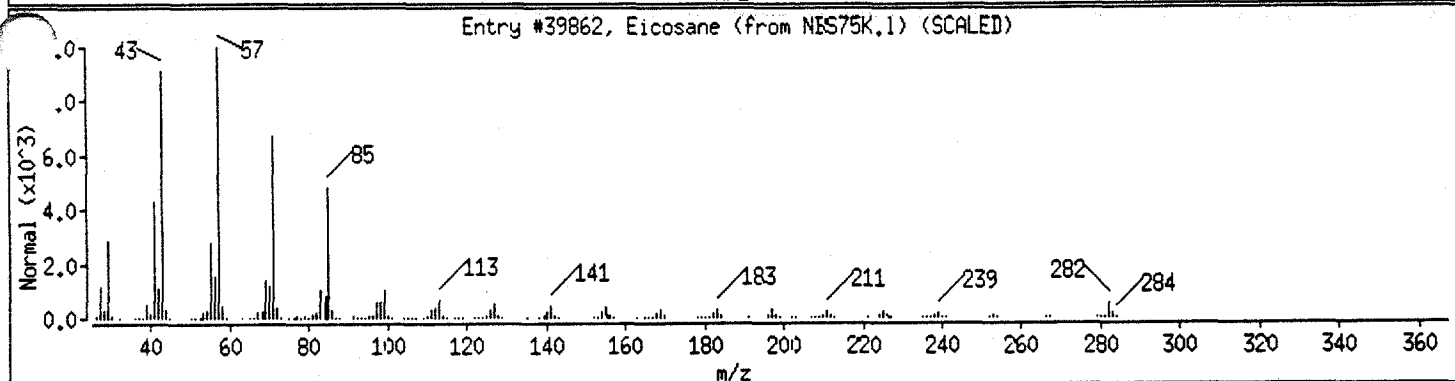
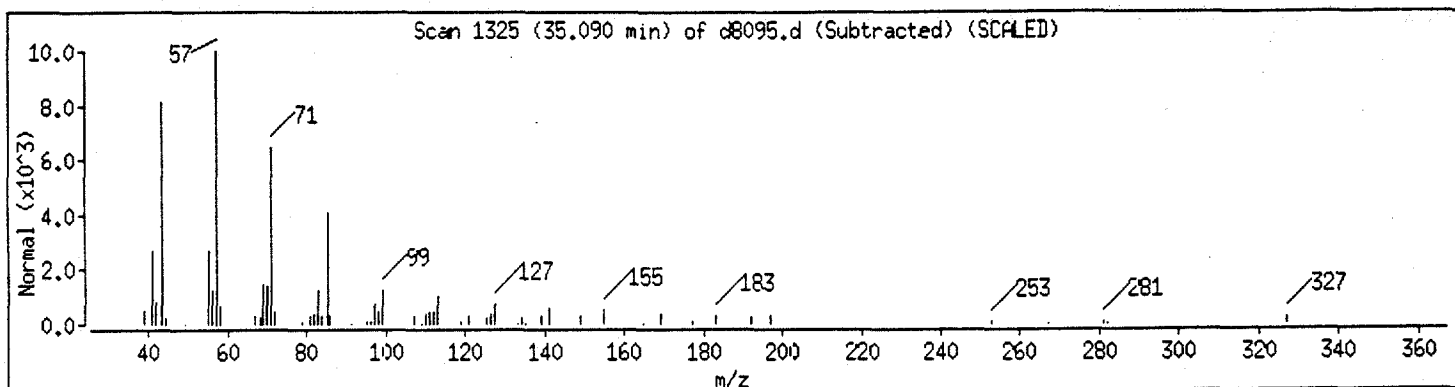
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Eicosane                      | 112-95-8   | NBS75K.1 | 39862     | 93      |
| Docosane                      | 629-97-0   | NBS75K.1 | 44318     | 91      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 51010     | 91      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date: 10-MAR-94 23:17

Instrument: a900.i

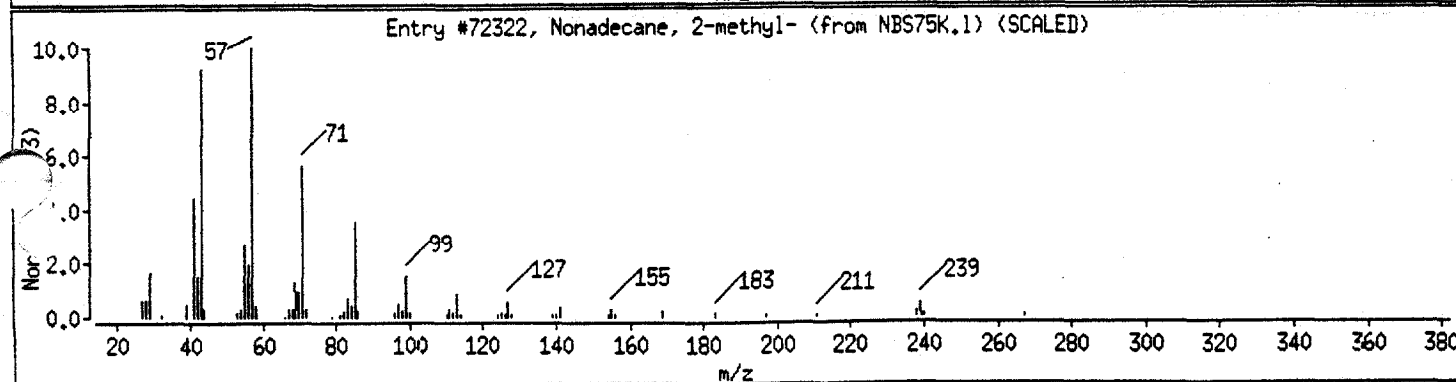
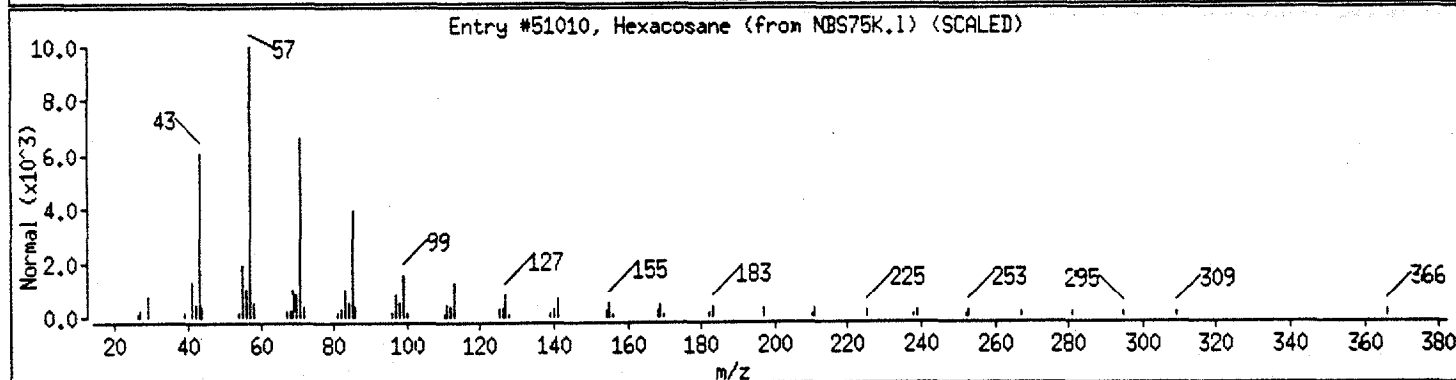
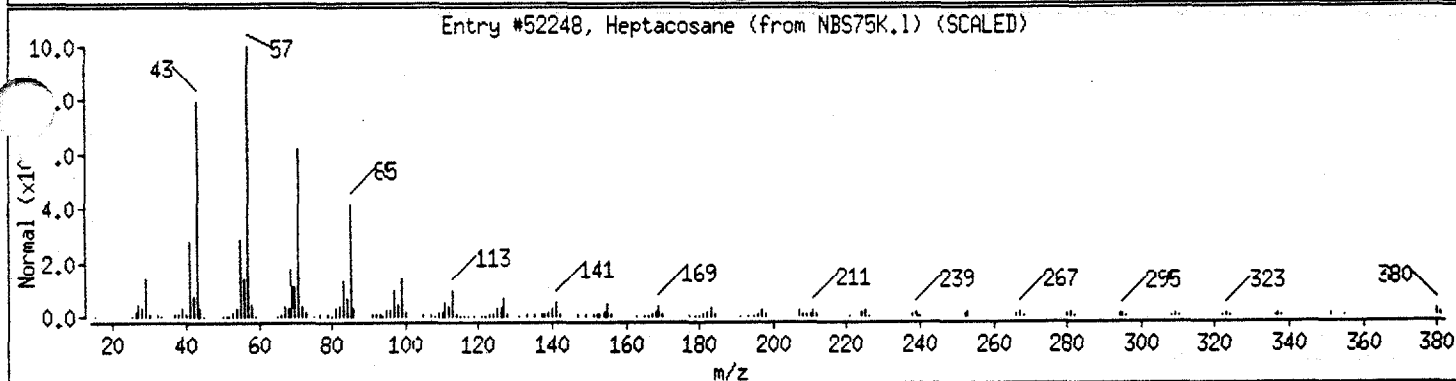
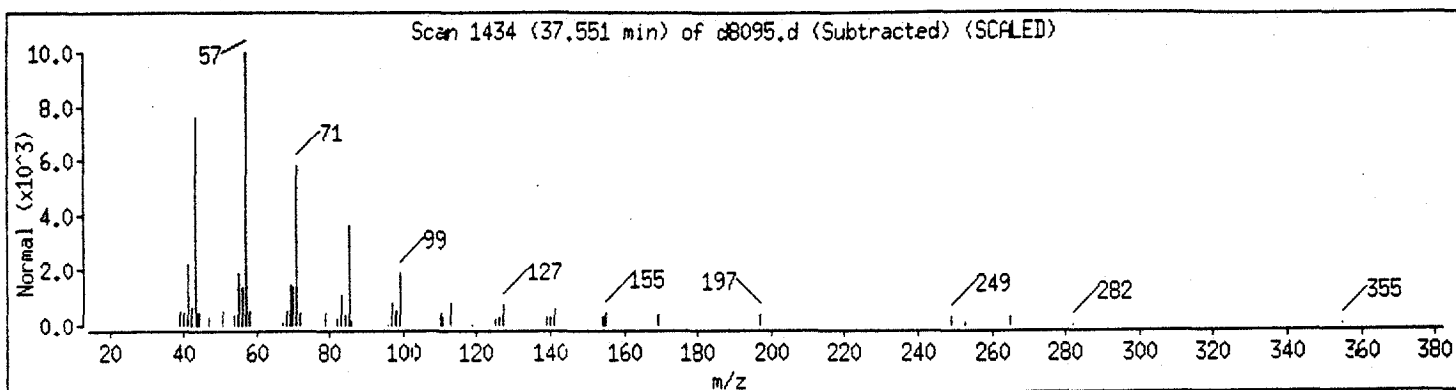
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

| Library Search Compound Match | CAS Number | Library  | Lib Entry | Quality |
|-------------------------------|------------|----------|-----------|---------|
| Heptacosane                   | 593-49-7   | NBS75K.1 | 52248     | 90      |
| Hexacosane                    | 630-01-3   | NBS75K.1 | 51010     | 90      |
| Nonadecane, 2-methyl-         | 1560-86-7  | NBS75K.1 | 72322     | 90      |



Data File: /chem/a900.i/d031094.b/d8095.d

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Date : 10-MAR-94 23:17

Instrument : a900.i

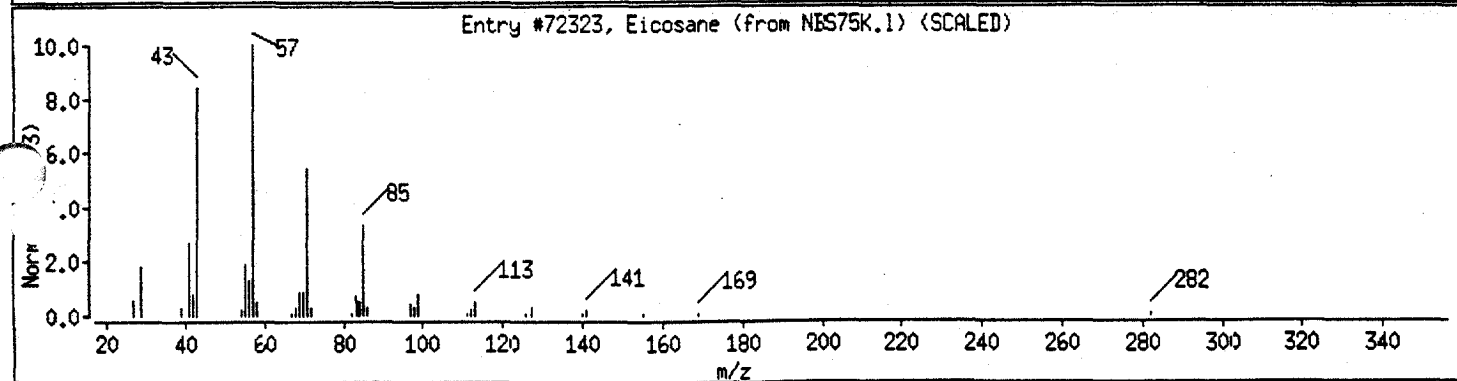
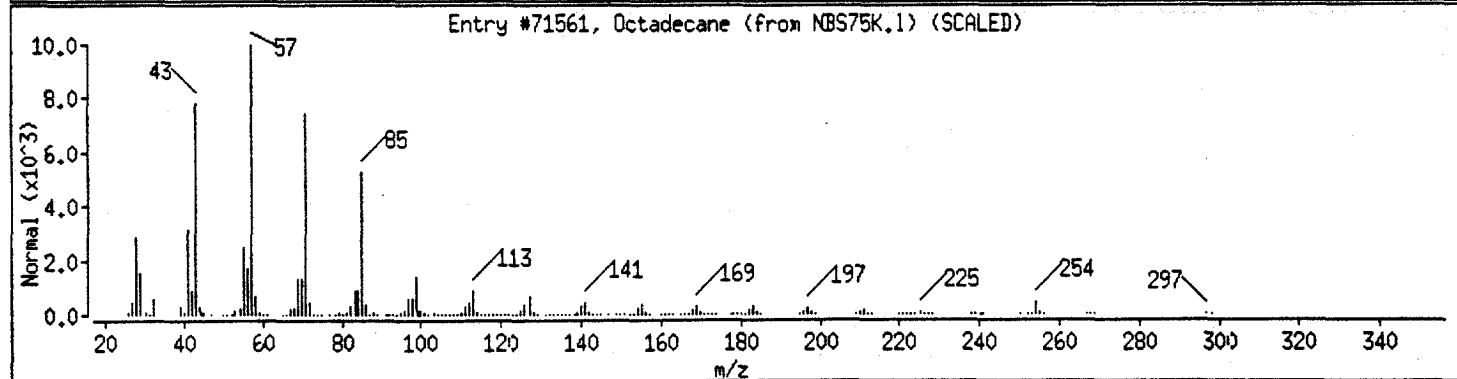
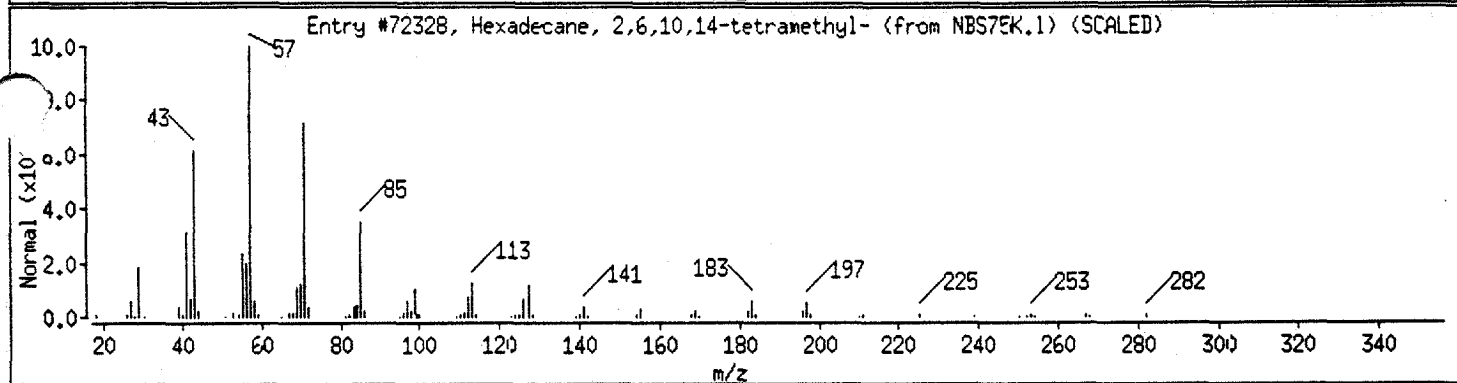
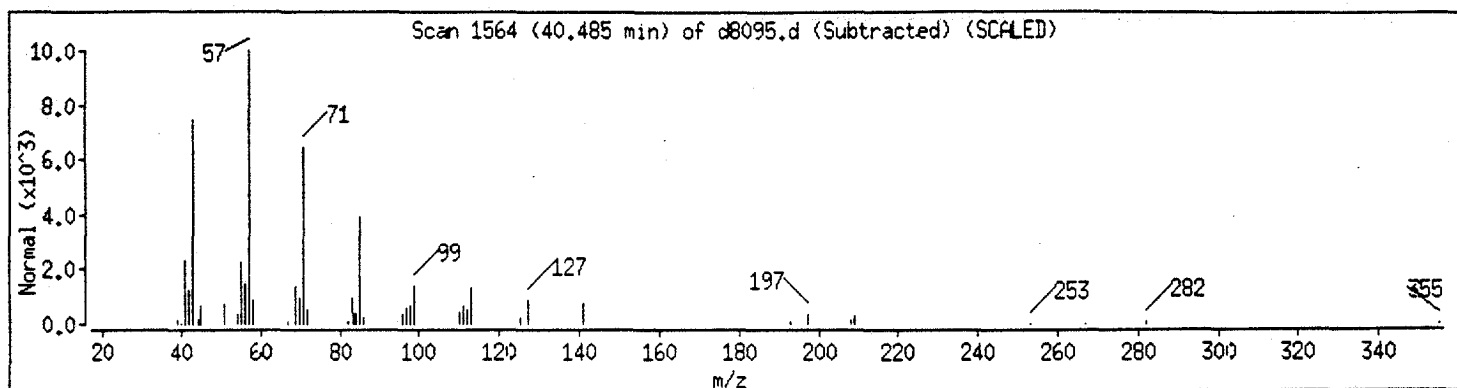
Sample ID :

Column phase : J&amp;W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

| Library Search Compound Match      | CAS Number | Library  | Lib Entry | Quality |
|------------------------------------|------------|----------|-----------|---------|
| Hexadecane, 2,6,10,14-tetramethyl- | 638-36-8   | NBS75K.1 | 72328     | 94      |
| Octadecane                         | 593-45-3   | NBS75K.1 | 71561     | 91      |
| Eicosane                           | 112-95-8   | NBS75K.1 | 72323     | 91      |



084

EPA SAMPLE NO.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA VBLK01

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

Matrix: (soil/water) SOIL Lab Sample ID: N4V3331V

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C6842

Level: (low/med) MED Date Received: 03-04-94

% Moisture: not dec. NA Date Analyzed: 03-04-94

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

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

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

| CAS NO.             | COMPOUND                                                  | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|---------------------|-----------------------------------------------------------|------------------------------------------------------|---|
| 74-87-3             | -----Chloromethane                                        | 625                                                  | U |
| 74-83-9             | -----Bromomethane                                         | 625                                                  | U |
| 75-01-4             | -----Vinyl Chloride                                       | 625                                                  | U |
| 75-00-3             | -----Chloroethane                                         | 625                                                  | U |
| 75-09-2             | -----Methylene Chloride                                   | 224                                                  | 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) <sup>TRANS</sup><br>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 |
| 591-78-4            | -----2-Hexanone                                           | 625                                                  | U |
| 127-18-4            | -----Tetrachloroethene                                    | 625                                                  | U |
| 79-34-5             | -----1,1,2,2-Tetrachloroethane                            | 625                                                  | U |
| 108-88-3            | -----Toluene                                              | 625                                                  | U |
| 108-90-7            | -----Chlorobenzene                                        | 625                                                  | U |
| 100-41-4            | -----Ethylbenzene                                         | 625                                                  | U |
| 100-42-5            | -----Styrene                                              | 625                                                  | U |
| 1330-20-7           | -----Xylene (total)                                       | 625                                                  | U |
| <del>106-46-7</del> | <del>1,4-Dichlorobenzene</del>                            |                                                      |   |

085

EPA SAMPLE NO.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA 4V8VSPK01

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

Matrix: (soil/water) SOIL Lab Sample ID: N4V3331VS

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C6843

Level: (low/med) MED Date Received: 03-04-94

% Moisture: not dec. NA Date Analyzed: 03-04-94

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

Soil Extract Volume: 10.000 (uL) Soil Aliquot Volume: 100 (uL)

| CAS NO.             | COMPOUND                        | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|---------------------|---------------------------------|------------------------------------------------------|---|
| 74-87-3             | -----Chloromethane              | 5170                                                 |   |
| 74-83-9             | -----Bromomethane               | 5500                                                 |   |
| 75-01-4             | -----Vinyl Chloride             | 5610                                                 |   |
| 75-00-3             | -----Chloroethane               | 5040                                                 |   |
| 75-09-2             | -----Methylene Chloride         | 5760                                                 |   |
| 67-64-1             | -----Acetone                    | 8560                                                 |   |
| 75-15-0             | -----Carbon Disulfide           | 5680                                                 |   |
| 75-35-4             | -----1,1-Dichloroethene         | 5850                                                 |   |
| 75-34-3             | -----1,1-Dichloroethane         | 5910                                                 |   |
| 540-59-0            | -----1,2-Dichloroethene (total) | 11790                                                |   |
| 67-66-3             | -----Chloroform                 | 6160                                                 |   |
| 107-06-2            | -----1,2-Dichloroethane         | 6120                                                 |   |
| 78-93-3             | -----2-Butanone                 | 910                                                  |   |
| 71-55-6             | -----1,1,1-Trichloroethane      | 5150                                                 |   |
| 56-23-5             | -----Carbon Tetrachloride       | 5550                                                 |   |
| 75-27-4             | -----Bromodichloromethane       | 6065                                                 |   |
| 78-87-5             | -----1,2-Dichloropropane        | 6050                                                 |   |
| 10061-01-5          | -----cis-1,3-Dichloropropene    | 5500                                                 |   |
| 79-01-6             | -----Trichloroethene            | 5790                                                 |   |
| 124-48-1            | -----Dibromochloromethane       | 5940                                                 |   |
| 79-00-5             | -----1,1,2-Trichloroethane      | 6020                                                 |   |
| 71-43-2             | -----Benzene                    | 5880                                                 |   |
| 10061-02-6          | -----trans-1,3-Dichloropropene  | 6110                                                 |   |
| 75-25-2             | -----Bromoform                  | 5770                                                 |   |
| 108-10-1            | -----4-Methyl-2-Pentanone       | 5560                                                 |   |
| 591-78-4            | -----2-Hexanone                 | 5180                                                 |   |
| 127-18-4            | -----Tetrachloroethene          | 5710                                                 |   |
| 79-34-5             | -----1,1,2,2-Tetrachloroethane  | 5970                                                 |   |
| 108-88-3            | -----Toluene                    | 5900                                                 |   |
| 108-90-7            | -----Chlorobenzene              | 5670                                                 |   |
| 100-41-4            | -----Ethylbenzene               | 5900                                                 |   |
| 100-42-5            | -----Styrene                    | 5960                                                 |   |
| 1130-20-7           | -----Xylene (total)             | 17600                                                |   |
| <del>106-46-7</del> | <del>1,4-Dichlorobenzene</del>  | <del>88</del>                                        |   |

086

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DG-01 MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3970VS  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7176  
 Level: (low/med) MED Date Received: \_\_\_\_\_  
 % Moisture: not dec. NA Date Analyzed: 03-30-94  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

| CAS NO.             | COMPOUND                       | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | g |
|---------------------|--------------------------------|------------------------------------------------------|---|
| 74-87-3             | Chloromethane                  | 7000                                                 |   |
| 74-83-9             | Bromomethane                   | 7630                                                 |   |
| 75-01-4             | Vinyl Chloride                 | 8000                                                 |   |
| 75-00-3             | Chloroethane                   | 7540                                                 |   |
| 75-09-2             | Methylene Chloride             | 7000                                                 |   |
| 67-64-1             | Acetone                        | 6350                                                 |   |
| 75-15-0             | Carbon Disulfide               | 5830                                                 |   |
| 75-35-4             | 1,1-Dichloroethene             | 3630                                                 |   |
| 75-34-3             | 1,1-Dichloroethane             | 7400                                                 |   |
| 540-59-0            | 1,2-Dichloroethene (total)     | 14900                                                |   |
| 67-66-3             | Chloroform                     | 7290                                                 |   |
| 107-06-2            | 1,2-Dichloroethane             | 7370                                                 |   |
| 78-93-3             | 2-Butanone                     | 5370                                                 |   |
| 71-55-6             | 1,1,1-Trichloroethane          | 7900                                                 |   |
| 56-23-5             | Carbon Tetrachloride           | 7130                                                 |   |
| 75-27-4             | Bromodichloromethane           | 6820                                                 |   |
| 78-87-5             | 1,2-Dichloropropane            | 7170                                                 |   |
| 10061-01-5          | cis-1,3-Dichloropropene        | 6940                                                 |   |
| 79-01-6             | Trichloroethene                | 7190                                                 |   |
| 124-48-1            | Dibromochloromethane           | 6570                                                 |   |
| 79-00-5             | 1,1,2-Trichloroethane          | 6750                                                 |   |
| 71-43-2             | Benzene                        | 7430                                                 |   |
| 10061-02-6          | trans-1,3-Dichloropropene      | 7170                                                 |   |
| 75-25-2             | Bromoform                      | 6620                                                 |   |
| 108-10-1            | 4-Methyl-2-Pentanone           | 6930                                                 |   |
| 591-78-4            | 2-Hexanone                     | 6630                                                 |   |
| 127-18-4            | Tetrachloroethene              | 6810                                                 |   |
| 79-34-5             | 1,1,2,2-Tetrachloroethane      | 6360                                                 |   |
| 108-88-3            | Toluene                        | 7160                                                 |   |
| 108-90-7            | Chlorobenzene                  | 6950                                                 |   |
| 100-41-4            | Ethylbenzene                   | 6800                                                 |   |
| 100-42-5            | Styrene                        | 7110                                                 |   |
| 1330-20-7           | Xylene (total)                 | 21300                                                |   |
| <del>106-46-7</del> | <del>1,4-Dichlorobenzene</del> |                                                      |   |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

087  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DG-01 MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3970UR  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7177  
 Level: (low/med) MED Date Received: \_\_\_\_\_  
 % Moisture: not dec. NA Date Analyzed: 03-30-94  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

| CAS NO.             | COMPOUND                        | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q |
|---------------------|---------------------------------|------------------------------------------------------|---|
| 74-87-3             | -----Chloromethane              | <u>8460</u>                                          |   |
| 74-83-9             | -----Bromomethane               | <u>7870</u>                                          |   |
| 75-01-4             | -----Vinyl Chloride             | <u>8160</u>                                          |   |
| 75-00-3             | -----Chloroethane               | <u>7610</u>                                          |   |
| 75-09-2             | -----Methylene Chloride         | <u>7350</u>                                          |   |
| 67-64-1             | -----Acetone                    | <u>7760</u>                                          |   |
| 75-15-0             | -----Carbon Disulfide           | <u>5150</u>                                          |   |
| 75-35-4             | -----1,1-Dichloroethene         | <u>3860</u>                                          |   |
| 75-34-3             | -----1,1-Dichloroethane         | <u>7710</u>                                          |   |
| 540-59-0            | -----1,2-Dichloroethene (total) | <u>15300</u>                                         |   |
| 67-66-3             | -----Chloroform                 | <u>7540</u>                                          |   |
| 107-06-2            | -----1,2-Dichloroethane         | <u>7850</u>                                          |   |
| 78-93-3             | -----2-Butanone                 | <del>7700</del> <u>6690</u>                          |   |
| 71-55-6             | -----1,1,1-Trichloroethane      | <u>7370</u>                                          |   |
| 56-23-5             | -----Carbon Tetrachloride       | <u>7090</u>                                          |   |
| 75-27-4             | -----Bromodichloromethane       | <u>6680</u>                                          |   |
| 78-87-5             | -----1,2-Dichloropropane        | <u>7680</u>                                          |   |
| 10061-01-5          | -----cis-1,3-Dichloropropene    | <u>6330</u>                                          |   |
| 79-01-6             | -----Trichloroethene            | <u>6840</u>                                          |   |
| 124-48-1            | -----Dibromochloromethane       | <u>6610</u>                                          |   |
| 79-00-5             | -----1,1,2-Trichloroethane      | <u>6720</u>                                          |   |
| 71-43-2             | -----Benzene                    | <u>7150</u>                                          |   |
| 10061-02-6          | -----trans-1,3-Dichloropropene  | <u>7200</u>                                          |   |
| 75-25-2             | -----Bromoform                  | <u>6480</u>                                          |   |
| 108-10-1            | -----4-Methyl-2-Pentanone       | <u>7680</u>                                          |   |
| 591-78-4            | -----2-Hexanone                 | <u>7520</u>                                          |   |
| 127-18-4            | -----Tetrachloroethene          | <u>6790</u>                                          |   |
| 79-34-5             | -----1,1,2,2-Tetrachloroethane  | <u>6950</u>                                          |   |
| 108-88-3            | -----Toluene                    | <u>7250</u>                                          |   |
| 108-90-7            | -----Chlorobenzene              | <u>6840</u>                                          |   |
| 100-41-4            | -----Ethylbenzene               | <u>6810</u>                                          |   |
| 100-42-5            | -----Styrene                    | <u>6880</u>                                          |   |
| 1330-20-7           | -----Xylene (total)             | <u>20850</u>                                         |   |
| <del>106-46-7</del> | <del>1,4-Dichlorobenzene</del>  |                                                      |   |



088

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DG-01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3970V  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7175  
 Level: (low/med) MED Date Received: \_\_\_\_\_  
 % Moisture: not dec. NA Date Analyzed: 03-30-94  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10.000 (uL) Soil Aliquot Volume: 100 (uL)

| CAS NO.             | COMPOUND                       | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>ug/Kg</u> | Q            |
|---------------------|--------------------------------|------------------------------------------------------|--------------|
| 74-87-3             | Chloromethane                  | 625                                                  | u            |
| 74-83-9             | Bromomethane                   | 195                                                  | J            |
| 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            |
| 591-78-4            | 2-Hexanone                     | 625                                                  | u            |
| 127-18-4            | Tetrachloroethene              | 625                                                  | u            |
| 79-34-5             | 1,1,2,2-Tetrachloroethane      | 625                                                  | u            |
| 108-88-3            | Toluene                        | 625                                                  | u            |
| 108-90-7            | Chlorobenzene                  | 625                                                  | u            |
| 100-41-4            | Ethylbenzene                   | 625                                                  | u            |
| 100-42-5            | Styrene                        | 625                                                  | u            |
| 1330-20-7           | Xylene (total)                 | 625                                                  | u            |
| <del>106-46-7</del> | <del>1,4-Dichlorobenzene</del> | <del>625</del>                                       | <del>u</del> |

089

EPA SAMPLE NO.

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

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

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

Matrix: (soil/water) SOIL Lab Sample ID: Jm5970V

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7175

Level: (low/med) MED Date Received: \_\_\_\_\_

‡ Moisture: not dec. NA Date Analyzed: 03-30-94

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

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 6 CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME          | RT    | EST. CONC. | Q |
|------------|------------------------|-------|------------|---|
| 1. 75636   | 1,2,4-Trimethylbenzene | 22.67 | 1300       |   |
| 2. NA      | Unknown Hydrocarbon    | 21.99 | 3290       |   |
| 3. NA      | Unknown Hydrocarbon    | 19.06 | 1440       |   |
| 4. NA      | Unknown Hydrocarbon    | 21.41 | 787        |   |
| 5. NA      | Unknown                | 24.09 | 786        |   |
| 6. NA      | Unknown Hydrocarbon    | 23.18 | 595        |   |
| 7.         |                        |       |            |   |
| 8.         |                        |       |            |   |
| 9.         |                        |       |            |   |
| 10.        |                        |       |            |   |
| 11.        |                        |       |            |   |
| 12.        |                        |       |            |   |
| 13.        |                        |       |            |   |
| 14.        |                        |       |            |   |
| 15.        |                        |       |            |   |
| 16.        |                        |       |            |   |
| 17.        |                        |       |            |   |
| 18.        |                        |       |            |   |
| 19.        |                        |       |            |   |
| 20.        |                        |       |            |   |
| 21.        |                        |       |            |   |
| 22.        |                        |       |            |   |
| 23.        |                        |       |            |   |
| 24.        |                        |       |            |   |
| 25.        |                        |       |            |   |
| 26.        |                        |       |            |   |
| 27.        |                        |       |            |   |
| 28.        |                        |       |            |   |
| 29.        |                        |       |            |   |
| 30.        |                        |       |            |   |

2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

090

Lab Name: ASC Contract: NEESA

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

|    | EPA<br>SAMPLE NO. | SMC1<br>(TOL) #    | SMC2<br>(BFB) # | SMC3<br>(DCE) # | OTHER | TOT<br>OUT |
|----|-------------------|--------------------|-----------------|-----------------|-------|------------|
| 01 | VBLK01            | 92.4               | 96.9            | 95.2            | NA    | 0          |
| 02 | USPK01            | 93.9               | 94.7            | 100             | NA    | 0          |
| 03 | CLJ-DG-01         | 97.1               | 96.2            | 98.6            | NA    | 0          |
| 04 | CLJ-DG-01MS       | 95.6               | 98.3            | 106             | NA    | 0          |
| 05 | CLJ-DG-01MSD      | <del>97.95.6</del> | 98.0            | 110             | NA    | 0          |
| 06 |                   | 97.1               |                 |                 |       |            |
| 07 |                   |                    |                 |                 |       |            |
| 08 |                   |                    |                 |                 |       |            |
| 09 |                   |                    |                 |                 |       |            |
| 10 |                   |                    |                 |                 |       |            |
| 11 |                   |                    |                 |                 |       |            |
| 12 |                   |                    |                 |                 |       |            |
| 13 |                   |                    |                 |                 |       |            |
| 14 |                   |                    |                 |                 |       |            |
| 15 |                   |                    |                 |                 |       |            |
| 16 |                   |                    |                 |                 |       |            |
| 17 |                   |                    |                 |                 |       |            |
| 18 |                   |                    |                 |                 |       |            |
| 19 |                   |                    |                 |                 |       |            |
| 20 |                   |                    |                 |                 |       |            |
| 21 |                   |                    |                 |                 |       |            |
| 22 |                   |                    |                 |                 |       |            |
| 23 |                   |                    |                 |                 |       |            |
| 24 |                   |                    |                 |                 |       |            |
| 25 |                   |                    |                 |                 |       |            |
| 26 |                   |                    |                 |                 |       |            |
| 27 |                   |                    |                 |                 |       |            |
| 28 |                   |                    |                 |                 |       |            |
| 29 |                   |                    |                 |                 |       |            |
| 30 |                   |                    |                 |                 |       |            |

QC LIMITS

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

3B  
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

091

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix Spike - EPA Sample No.: CLJ-DE-01MS Level: (low/med) MED

| COMPOUND           | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|--------------------|---------------------|------------------------------|--------------------------|------------|-----------------|
| 1,1-Dichloroethene | 6250                | ND                           | 3630                     | 58.1*      | 59-172          |
| Trichloroethene    | 6250                | NA                           | 7190                     | 115        | 62-137          |
| Benzene            | 6250                | ND                           | 7030                     | 112        | 66-142          |
| Toluene            | 6250                | ND                           | 7160                     | 114        | 59-139          |
| Chlorobenzene      | 6250                | ND                           | 6950                     | 111        | 60-133          |

| COMPOUND           | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | REC.   |
|--------------------|---------------------|---------------------------|-------------|---------|---------------|--------|
| 1,1-Dichloroethene | 6250                | 3860                      | 61.8        | 61.04   | 22            | 59-172 |
| Trichloroethene    | 6250                | 6840                      | 109         | 4.95    | 24            | 62-137 |
| Benzene            | 6250                | 7150                      | 114         | 1.73    | 21            | 66-142 |
| Toluene            | 6250                | 7250                      | 116         | 1.23    | 21            | 59-139 |
| Chlorobenzene      | 6250                | 6840                      | 109         | 1.50    | 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: 81 out of 10 outside limits

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

4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA VBLK01

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

Lab File ID: >C6842 Lab Sample ID: N4V3331V

Date Analyzed: 03-04-94 Time Analyzed: 1515

GC Column: DB-624 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<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VSPK01            | N4V3331VS        | >C6843         | 1603             |
| 02 | CLJ-DG-81         | Jm3970V          | >C7175         | 1412             |
| 03 | CLJ-DG-21MS       | Jm3970US         | >C7176         | 1458             |
| 04 | CLJ-DG-01MSD      | Jm3970UR         | >C7177         | 1538             |
| 05 | CLJ-DG-01         | Jm3970V          | >C6844         | 1638             |
| 06 |                   |                  |                |                  |
| 07 |                   |                  |                |                  |
| 08 |                   |                  |                |                  |
| 09 |                   |                  |                |                  |
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| 27 |                   |                  |                |                  |
| 28 |                   |                  |                |                  |
| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: >C6533 BFB Injection Date: 2/10/94  
 Instrument ID: MSD-C BFB Injection Time: 0731  
 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             | 22.10 23.5           |
| 75  | 30.0 - 66.0% of mass 95            | 44.47 46.3           |
| 95  | Base peak, 100% relative abundance | 100.00               |
| 96  | 5.0 - 9.0% of mass 95              | 6.37 7.2             |
| 173 | Less than 2.0% of mass 174         | 0.00 (0.00) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 69.56 72.6           |
| 175 | 4.0 - 9.0 % of mass 174            | 4.41 (6.34) 1 7.2    |
| 176 | 93.0 - 101.0% of mass 174          | 68.73 (98.81) 1 98.0 |
| 177 | 5.0 - 9.0% of mass 176             | 4.49 (6.53) 2 6.6    |

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 |                | CALIB #1      | >C6535      | 2-10-94       | 0835          |
| 02 |                | CALIB #2      | >C6536      | 2-10-94       | 0911          |
| 03 |                | CALIB #3      | >C6537      | 2-10-94       | 0948          |
| 04 |                | CALIB #4      | >C6538      | 2-10-94       | 1024          |
| 05 |                | CALIB #5      | >C6537      | 2-10-94       | 1100          |
| 06 |                | WATER BLANK   | >C6534      | 2-10-94       | 0749          |
| 07 |                |               |             |               |               |
| 08 |                |               |             |               |               |
| 09 |                |               |             |               |               |
| 10 |                |               |             |               |               |
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| 12 |                |               |             |               |               |
| 13 |                |               |             |               |               |
| 14 |                |               |             |               |               |
| 15 |                |               |             |               |               |
| 16 |                |               |             |               |               |
| 17 |                |               |             |               |               |
| 18 |                |               |             |               |               |
| 19 |                |               |             |               |               |
| 20 |                |               |             |               |               |
| 21 |                |               |             |               |               |
| 22 |                |               |             |               |               |

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: >C6829 BFB Injection Date: 3-4-94  
 Instrument ID: MSD-C BFB Injection Time: 0737  
 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             | 22.98                |
| 75  | 30.0 - 66.0% of mass 95            | 45.31                |
| 95  | Base peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 7.16                 |
| 173 | Less than 2.0% of mass 174         | 0.00 (0.00) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 68.73                |
| 175 | 4.0 - 9.0 % of mass 174            | 5.07 (7.36) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 68.09 (98.92) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.23 (6.22) 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 |                | CHK. STD.     | >C6830      | 3-4-94        | 0756          |
| 02 | VBLK 01        | N4V333IV      | >C6842      | 3-4-94        | 1515          |
| 03 | VSPK 01        | N4V333IVS     | >C6843      | 3-4-94        | 1603          |
| 04 | CLSDG 01       | TM 3970V      | >C6844      | 3-4-94        | 1638          |
| 05 |                |               |             |               |               |
| 06 |                |               |             |               |               |
| 07 |                |               |             |               |               |
| 08 |                |               |             |               |               |
| 09 |                |               |             |               |               |
| 10 |                |               |             |               |               |
| 11 |                |               |             |               |               |
| 12 |                |               |             |               |               |
| 13 |                |               |             |               |               |
| 14 |                |               |             |               |               |
| 15 |                |               |             |               |               |
| 16 |                |               |             |               |               |
| 17 |                |               |             |               |               |
| 18 |                |               |             |               |               |
| 19 |                |               |             |               |               |
| 20 |                |               |             |               |               |
| 21 |                |               |             |               |               |
| 22 |                |               |             |               |               |





6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

096

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01  
 Instrument ID: MSD-C Calibration Date(s): 2-10-94 2/10/94  
 Heated Purge: (Y/N) N Calibration Times: 0835 1100  
 GC Column: DB624 ID: 0.53 (mm)

LAB FILE ID: RRF10 = C6535 RRF20 = C6536  
 RRF50 = C6537 RRF100 = C6538 RRF200 = C6539

| COMPOUND                   | RRF10   | RRF20  | RRF50  | RRF100 | RRF200 | RRF    | % RSD  |
|----------------------------|---------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | 0.941   | 1.05   | 1.01   | 1.02   | 1.07   | 1.02   | 4.85   |
| Bromomethane               | * 1.26  | 1.27   | 1.20   | 1.13   | 1.16   | 1.21   | 4.95 * |
| Vinyl Chloride             | * 1.14  | 1.20   | 1.24   | 1.23   | 1.24   | 1.21   | 3.51 * |
| Chloroethane               | 0.681   | 0.704  | 0.608  | 0.541  | 0.538  | 0.614  | 12.5   |
| Methylene Chloride         | 1.35    | 1.41   | 1.31   | 1.28   | 1.27   | 1.32   | 4.17   |
| Acetone                    | 0.403   | 0.384  | 0.349  | 0.285  | 0.291  | 0.343  | 15.9   |
| Carbon Disulfide           | 3.52    | 3.82   | 3.61   | 3.54   | 3.58   | 3.61   | 3.34   |
| 1,1-Dichloroethene         | * 1.10  | 1.26   | 1.26   | 1.21   | 1.22   | 1.21   | 5.38 * |
| 1,1-Dichloroethane         | * 2.48  | 2.77   | 2.67   | 2.65   | 2.65   | 2.64   | 4.02 * |
| 1,2-Dichloroethene (total) | 1.23    | 1.34   | 1.31   | 1.30   | 1.31   | 1.31   | 4.32   |
| Chloroform                 | * 2.69  | 2.99   | 2.41   | 2.85   | 2.87   | 2.86   | 3.78 * |
| 1,2-Dichloroethane         | * 1.81  | 2.12   | 2.03   | 2.09   | 2.09   | 2.03   | 6.17 * |
| 2-Butanone                 |         | 0.0174 | 0.0214 | 0.0209 | 0.0203 | 0.0200 | 8.88   |
| 1,1,1-Trichloroethane      | * 0.594 | 0.645  | 0.597  | 0.561  | 0.560  | 0.591  | 5.88 * |
| Carbon Tetrachloride       | * 0.570 | 0.634  | 0.600  | 0.568  | 0.578  | 0.591  | 5.04 * |
| Bromodichloromethane       | * 0.732 | 0.816  | 0.836  | 0.827  | 0.810  | 0.804  | 5.18 * |
| 1,2-Dichloropropane        | 0.403   | 0.442  | 0.444  | 0.438  | 0.427  | 0.431  | 3.91   |
| cis-1,3-Dichloropropene    | * 0.458 | 0.549  | 0.547  | 0.564  | 0.554  | 0.534  | 8.07 * |
| Trichloroethene            | * 0.466 | 0.492  | 0.477  | 0.471  | 0.462  | 0.474  | 2.55 * |
| Dibromochloromethane       | * 0.567 | 0.645  | 0.612  | 0.613  | 0.651  | 0.641  | 6.80 * |
| 1,1,2-Trichloroethane      | * 0.301 | 0.334  | 0.331  | 0.328  | 0.301  | 0.319  | 5.22 * |
| Benzene                    | * 0.937 | 0.981  | 0.980  | 0.940  | 0.923  | 0.952  | 2.80 * |
| trans-1,3-Dichloropropene  | * 0.291 | 0.349  | 0.358  | 0.369  | 0.352  | 0.344  | 8.85 * |
| Bromoform                  | * 0.440 | 0.509  | 0.538  | 0.538  | 0.516  | 0.508  | 7.94 * |
| 4-Methyl-2-Pentanone       | 0.112   | 0.125  | 0.139  | 0.133  | 0.130  | 0.128  | 8.15   |
| 2-Hexanone                 | 0.396   | 0.324  | 0.328  | 0.313  | 0.377  | 0.372  | 7.57   |
| Tetrachloroethene          | * 0.537 | 0.573  | 0.582  | 0.575  | 0.563  | 0.566  | 3.08 * |
| 1,1,2,2-Tetrachloroethane  | * 0.771 | 0.840  | 0.857  | 0.833  | 0.794  | 0.819  | 4.31 * |
| Toluene                    | * 0.647 | 0.718  | 0.734  | 0.750  | 0.748  | 0.720  | 5.92 * |
| Chlorobenzene              | * 1.05  | 1.11   | 1.11   | 1.10   | 1.08   | 1.09   | 2.16 * |
| Ethylbenzene               | * 0.399 | 0.448  | 0.450  | 0.442  | 0.437  | 0.435  | 4.80 * |
| Styrene                    | * 0.753 | 0.875  | 0.906  | 0.919  | 0.912  | 0.873  | 7.93 * |
| Xylene (total) m+p         | * 0.551 | 0.598  | 0.607  | 0.581  | 0.574  | 0.582  | 3.75 * |
| Toluene-d8                 | 0.986   | 1.02   | 1.13   | 1.10   | 1.10   | 1.07   | 5.67   |
| Bromofluorobenzene         | * 1.02  | 1.00   | 1.09   | 1.03   | 1.03   | 1.04   | 3.34 * |
| 1,2-Dichloroethane-d4      | 1.64    | 1.80   | 1.86   | 1.85   | 1.83   | 1.79   | 5.10   |
| O-Xylene                   | 0.548   | 0.606  | 0.644  | 0.614  | 0.611  | 0.605  | 5.78   |

Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

1,2-Dichloroethane 1.26 1.47 1.39 1.40 1.41 1.38 5.57

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

097

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Instrument ID: MSD-C Calibration Date(s): ~~3-18-94~~ 3-09-94  
 Heated Purge: (Y/N) N Calibration Times: 1551  
 GC Column: DB-624 ID: 053 (mm)

LAB FILE ID: \_\_\_\_\_ RRF10 = >C6922 RRF20 = >C6921  
 RRF50 = >C6922 RRF100 = >C6923 RRF200 = >C6924

| COMPOUND                   | RRF10    | RRF20   | RRF50   | RRF100  | RRF200  | RRF     | RSD   |
|----------------------------|----------|---------|---------|---------|---------|---------|-------|
| Chloromethane              | .87438   | .75828  | .81895  | .78686  | .68082  | .77786  | 8.13  |
| Bromomethane               | *1.23453 | 1.32558 | 1.21197 | 1.12988 | 1.15969 | 1.22033 | 6.60  |
| Vinyl Chloride             | *1.13178 | 1.19371 | 1.12484 | 1.19037 | 1.23206 | 1.20877 | 3.38  |
| Chloroethane               | .74298   | .74524  | .67557  | .57739  | .59151  | .66658  | 12.0  |
| Methylene Chloride         | 1.44998  | 1.28710 | 1.31039 | 1.26031 | 1.27506 | 1.31656 | 5.83  |
| Acetone                    | .25635   | .29533  | .39342  | .28891  | .40161  | .25008  | 17.6  |
| Carbon Disulfide           | 3.60995  | 3.52286 | 3.62801 | 3.57113 | 3.60617 | 3.58762 | 1.16  |
| 1,1-Dichloroethene         | *1.25740 | 1.20674 | 1.27283 | 1.23417 | 1.23350 | 1.24093 | 2.04  |
| 1,1-Dichloroethane         | *2.88127 | 2.66223 | 2.70171 | 2.61428 | 2.67977 | 2.70785 | 3.77  |
| 1,2-Dichloroethene (total) | 1.38319  | 1.32174 | 1.34829 | 1.27796 | 1.28376 | 1.32299 | 3.34  |
| Chloroform                 | *3.14479 | 3.02114 | 3.04499 | 2.90320 | 2.94268 | 3.01136 | 3.13  |
| 1,2-Dichloroethane         | *2.25196 | 2.12287 | 2.17083 | 2.06770 | 2.12648 | 2.14777 | 3.20  |
| 2-Butanone                 | .68816   | .61142  | .61833  | .61866  | .62973  | .61726  | 48.1  |
| 1,1,1-Trichloroethane      | *.56643  | .52267  | .54141  | .54601  | .56072  | .54745  | 3.15  |
| Carbon Tetrachloride       | *.51839  | .48740  | .51739  | .51442  | .52999  | .51342  | 2.90  |
| Bromodichloromethane       | *.64796  | .62167  | .66328  | .67923  | .72635  | .66770  | 5.85  |
| 1,2-Dichloropropane        | .44754   | .41344  | .42743  | .43042  | .44290  | .43275  | 3.08  |
| cis-1,3-Dichloropropene    | *.53035  | .51493  | .54122  | .55426  | .58241  | .54457  | 4.70  |
| Trichloroethene            | *.44134  | .40896  | .41188  | .41590  | .42364  | .42036  | 3.08  |
| Dibromochloromethane       | *.48445  | .49435  | .55330  | .57618  | .60729  | .54311  | 9.72  |
| 1,1,2-Trichloroethane      | *.31978  | .30119  | .30679  | .30710  | .31431  | .30983  | 2.34  |
| Benzene                    | *.96682  | .89710  | .91483  | .90865  | .93077  | .92403  | 2.873 |
| trans-1,3-Dichloropropene  | *.35319  | .33434  | .37007  | .37769  | .39700  | .36686  | 6.58  |
| Bromoform                  | *.33859  | .26438  | .41228  | .43914  | .46993  | .40486  | 13.2  |
| 4-Methyl-2-Pentanone       | .60927   | .61048  | .61795  | .61021  | .61390  | .60636  | 6.01  |
| 2-Hexanone                 | -        | .37664  | .44705  | .55495  | .41153  | .40004  | 9.74  |
| Tetrachloroethene          | *.60889  | .54142  | .56174  | .53375  | .52384  | .55383  | 6.11  |
| 1,1,2,2-Tetrachloroethane  | *.52067  | .50726  | .52540  | .51785  | .53571  | .52138  | 2.00  |
| Toluene                    | -        | .81260  | .81269  | .79008  | .79946  | .80371  | 1.370 |
| Chlorobenzene              | *1.15442 | 1.03467 | 1.03457 | 1.01148 | .99788  | 1.04650 | 5.96  |
| Ethylbenzene               | *.51625  | .48319  | .49517  | .47242  | .47195  | .48780  | 3.80  |
| Styrene                    | *.92687  | .88662  | .94074  | .93718  | .95800  | .92988  | 2.87  |
| Xylene (total) m+p         | *.69476  | .61407  | .61476  | .58523  | .58703  | .61917  | 7.20  |
| Toluene-d8                 | 1.12420  | 1.12776 | 1.17365 | 1.14749 | 1.15003 | 1.14463 | 1.74  |
| Bromofluorobenzene         | *.97384  | .98265  | 1.01429 | .99637  | .98211  | .98985  | 1.604 |
| 1,2-Dichloroethane-d4      | 1.69066  | 1.85315 | 1.93102 | 1.84121 | 1.78315 | 1.81984 | 4.91  |

\* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

*o-Xylene* .60927 .56942 .58180 .56982 .55786 .57622 3.71  
*1-2-Cis-Dichloroethene* 1.65744 1.45361 1.47631 1.3744 1.38202 1.46876 7.79  
 FORM VI VOA 3/90

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: RSC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Instrument ID: MSE Calibration Date: 3-4-94 Time: 0756  
 Lab File ID: 706830 Init. Calib. Date(s): 2-11-94 8  
 Heated Purge: (Y/N) N Init. Calib. Times: 0740  
 GC Column: DB-624 ID: 0.53 (mm)

| COMPOUND                   | RRF     | RRF50   | MIN RRF | ±D    | MAX ±D |
|----------------------------|---------|---------|---------|-------|--------|
| Chloromethane              | 1.01815 | .97847  |         | 3.90  |        |
| Bromomethane               | 1.20609 | 1.14077 | 0.100   | 5.42  | 25.0   |
| Vinyl Chloride             | 1.21107 | 1.21489 | 0.100   | .32   | 25.0   |
| Chloroethane               | .61454  | .58000  |         | 5.63  |        |
| Methylene Chloride         | 1.32361 | 1.49354 |         | 12.84 |        |
| Acetone                    | .34378  | .24873  |         | 27.65 |        |
| Carbon Disulfide           | 3.61389 | 3.69496 |         | 2.24  |        |
| 1,1-Dichloroethene         | 1.21109 | 1.31683 | 0.100   | 8.73  | 25.0   |
| 1,1-Dichloroethane         | 2.64203 | 2.90292 | 0.200   | 9.87  | 25.0   |
| 1,2-Dichloroethene (total) | 1.91050 | 1.44266 |         | 10.09 |        |
| Chloroform                 | 2.86122 | 3.07015 | 0.200   | 8.00  | 25.0   |
| 1,2-Dichloroethane         | 2.83025 | 2.26321 | 0.100   | 11.47 | 25.0   |
| 2-Butanone                 | 0.02001 | 0.01595 |         | 20.27 |        |
| 1,1,1-Trichloroethane      | .57137  | .69366  | 0.100   | 17.30 | 25.0   |
| Carbon Tetrachloride       | .54089  | .66488  | 0.100   | 12.52 | 25.0   |
| Bromodichloromethane       | .86395  | .85428  | 0.200   | 6.86  | 25.0   |
| 1,2-Dichloropropane        | .43064  | .46505  |         | 7.99  |        |
| cis-1,3-Dichloropropene    | .53423  | .59477  | 0.200   | 11.33 | 25.0   |
| Trichloroethene            | .47353  | .50736  | 0.300   | 7.14  | 25.0   |
| Dibromochloromethane       | .61146  | .68674  | 0.100   | 7.06  | 25.0   |
| 1,1,2-Trichloroethane      | .31894  | .33616  | 0.100   | 5.40  | 25.0   |
| Benzene                    | .95207  | 1.04309 | 0.500   | 9.56  | 25.0   |
| trans-1,3-Dichloropropene  | .34401  | .38216  | 0.100   | 11.09 | 25.0   |
| Bromoform                  | .50829  | .55763  | 0.100   | 9.54  | 25.0   |
| 4-Methyl-2-Pentanone       | .12775  | .15451  |         | 20.94 |        |
| 2-Hexanone                 | .37150  | .44293  |         | 19.23 |        |
| Tetrachloroethene          | .56613  | .60395  | 0.200   | 6.68  | 25.0   |
| 1,1,2,2-Tetrachloroethane  | .81895  | .90082  | 0.500   | 10.00 | 25.0   |
| Toluene                    | .71975  | .80267  | 0.400   | 11.52 | 25.0   |
| Chlorobenzene              | 1.08953 | 1.17154 | 0.500   | 7.53  | 25.0   |
| Ethylbenzene               | .43539  | .49076  | 0.100   | 12.72 | 25.0   |
| Styrene                    | .87327  | .99253  | 0.300   | 13.66 | 25.0   |
| Xylene (total) m+p         | .58211  | .63415  | 0.300   | 8.94  | 25.0   |
| Toluene-d8                 | 1.06623 | 1.24187 |         | 16.47 |        |
| Bromofluorobenzene         | 1.03532 | 1.24550 | 0.200   | 20.30 | 25.0   |
| 1,2-Dichloroethane-d4      | 1.79458 | 2.08420 |         | 16.14 |        |

All other compounds must meet a minimum RRF of 0.010.

1,2-cis-dichloroethene  
o-Xylene

1.38445 1.55222  
FORM VII VOA  
.60460 .64397

12.12  
6.52

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Instrument ID: MSD-C Calibration Date: 3-30-94 Time: 0752  
 Lab File ID: >C7108 Init. Calib. Date(s): 3-9-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 15:51  
 GC Column: DB-624 ID: 0.53 (mm)

| COMPOUND                   | RRF     | RRF50   | MIN RRF | %D    | MAX %D |
|----------------------------|---------|---------|---------|-------|--------|
| Chloromethane              | 0.62278 | 0.74934 |         | 20.32 |        |
| Bromomethane               | 1.03267 | 1.02474 | 0.100   | 0.77  | 25.0   |
| Vinyl Chloride             | 1.06490 | 1.04129 | 0.100   | 2.22  | 25.0   |
| Chloroethane               | 0.53161 | 0.52804 |         | 0.67  |        |
| Methylene Chloride         | 1.31321 | 1.10017 |         | 16.22 |        |
| Acetone                    | 0.71227 | 0.47738 |         | 41.4  |        |
| Carbon Disulfide           | 3.20737 | 2.58617 |         | 19.37 |        |
| 1,1-Dichloroethene         | 1.14807 | 0.96896 | 0.100   | 15.60 | 25.0   |
| 1,1-Dichloroethane         | 2.51342 | 2.14578 | 0.200   | 14.63 | 25.0   |
| 1,2-Dichloroethene (total) | 1.22729 | 1.02622 |         | 16.38 |        |
| Chloroform                 | 2.87080 | 2.55897 | 0.200   | 10.86 | 25.0   |
| 1,2-Dichloroethane         | 2.21355 | 1.91483 | 0.100   | 13.49 | 25.0   |
| 2-Butanone                 | 0.05381 | 0.03873 |         | 37.29 |        |
| 1,1,1-Trichloroethane      | 0.57394 | 0.47344 | 0.100   | 14.03 | 25.0   |
| Carbon Tetrachloride       | 0.49874 | 0.47675 | 0.100   | 4.41  | 25.0   |
| Bromodichloromethane       | 0.68166 | 0.59895 | 0.200   | 12.57 | 25.0   |
| 1,2-Dichloropropane        | 0.43658 | 0.38577 |         | 11.64 |        |
| cis-1,3-Dichloropropene    | 0.56582 | 0.53829 | 0.200   | 4.87  | 25.0   |
| Trichloroethene            | 0.41549 | 0.41334 | 0.300   | 0.52  | 25.0   |
| Dibromochloromethane       | 0.60869 | 0.57868 | 0.100   | 4.93  | 25.0   |
| 1,1,2-Trichloroethane      | 0.35755 | 0.33016 | 0.100   | 5.98  | 25.0   |
| Benzene                    | 0.91696 | 0.82169 | 0.500   | 10.34 | 25.0   |
| trans-1,3-Dichloropropene  | 0.40454 | 0.32822 | 0.100   | 5.34  | 25.0   |
| Bromoform                  | 0.55580 | 0.52038 | 0.100   | 6.37  | 25.0   |
| 4-Methyl-2-Pentanone       | 0.25490 | 0.21726 |         | 14.77 |        |
| 2-Hexanone                 | 0.95081 | 0.71610 |         | 24.60 |        |
| Tetrachloroethene          | 0.54171 | 0.50594 | 0.200   | 6.60  | 25.0   |
| 1,1,2,2-Tetrachloroethane  | 1.04642 | 0.89974 | 0.500   | 14.02 | 25.0   |
| Toluene                    | 0.82470 | 0.72026 | 0.400   | 12.66 | 25.0   |
| Chlorobenzene              | 1.02446 | 0.93861 | 0.500   | 8.38  | 25.0   |
| Ethylbenzene               | 0.47312 | 0.43692 | 0.100   | 7.65  | 25.0   |
| Styrene                    | 0.91444 | 0.85440 | 0.300   | 6.57  | 25.0   |
| Xylene (total) M+P         | 0.58999 | 0.54622 | 0.300   | 7.42  | 25.0   |
| Toluene-d3                 | 1.12115 | 1.21860 |         | 8.69  |        |
| Bromofluorobenzene         | 0.99200 | 1.04219 | 0.200   | 5.06  | 25.0   |
| 1,2-Dichloroethane-d4      | 1.90019 | 1.76264 |         | 0.18  |        |

All other compounds must meet a minimum RRF of 0.010.  
 1,2-Dichloroethene, cis 1.32913, 1.11847 15.25  
 xylene, o- 0.56577, 0.52303 7.55  
 FORM VII VOA

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

100

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): >66830 Date Analyzed: 3-4-94  
 Instrument ID: MSD-C Time Analyzed: 0750  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

|                   | IS1 (BCM)<br>AREA # | RT # | IS2 (DFB)<br>AREA # | RT #  | IS3 (CBZ)<br>AREA # | RT #  |
|-------------------|---------------------|------|---------------------|-------|---------------------|-------|
| 12 HOUR STD       | 20345               | 8.41 | 74003               | 10.52 | 57816               | 16.92 |
| UPPER LIMIT       | 40690               | 8.41 | 148006              | 11.02 | 115632              | 17.42 |
| LOWER LIMIT       | 10172               | 7.91 | 37002               | 10.02 | 28908               | 16.42 |
| EPA SAMPLE<br>NO. |                     |      |                     |       |                     |       |
| 01 VRLK 01        | 22522               | 8.36 | 82584               | 10.47 | 65651               | 16.88 |
| 02 VSPK 01        | 23274               | 8.41 | 85940               | 10.50 | 66618               | 16.90 |
| 03 CLJ-DG-01      | 17769               | 8.41 | 71301               | 10.49 | 57989               | 16.91 |
| 04                |                     |      |                     |       |                     |       |
| 05                |                     |      |                     |       |                     |       |
| 06                |                     |      |                     |       |                     |       |
| 07                |                     |      |                     |       |                     |       |
| 08                |                     |      |                     |       |                     |       |
| 09                |                     |      |                     |       |                     |       |
| 10                |                     |      |                     |       |                     |       |
| 11                |                     |      |                     |       |                     |       |
| 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.

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ABC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): >C7168 Date Analyzed: 3-30-94  
 Instrument ID: MSD-C Time Analyzed: 0752  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

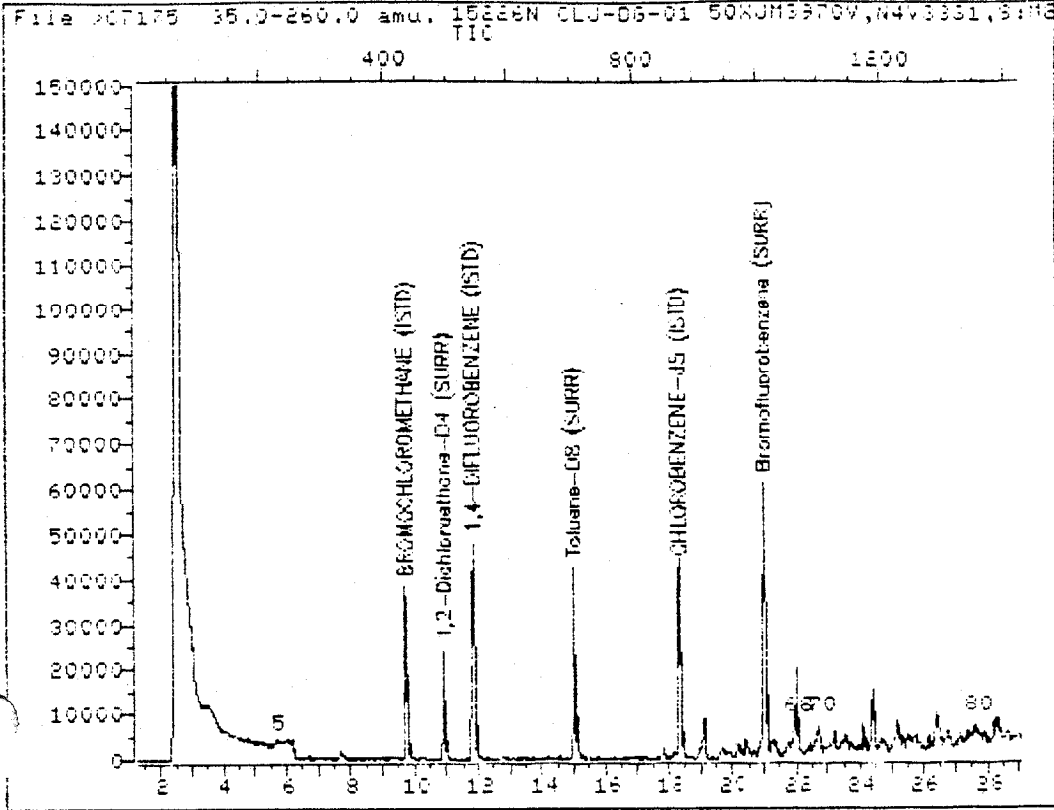
|                | IS1 (BCM)<br>AREA ‡ | RT ‡                   | IS2 (DFB)<br>AREA ‡ | RT ‡   | IS3 (CBZ)<br>AREA ‡ | RT ‡  |       |
|----------------|---------------------|------------------------|---------------------|--------|---------------------|-------|-------|
| 12 HOUR STD    | 35698               | 9.70                   | 138972              | 11.83  | 104651              | 18.33 |       |
| UPPER LIMIT    | 71396               | 10.26                  | 277944              | 12.33  | 209302              | 18.33 |       |
| LOWER LIMIT    | 17849               | 9.20                   | 69486               | 11.33  | 523255              | 17.83 |       |
| EPA SAMPLE NO. |                     |                        |                     |        |                     |       |       |
| 01             | CLJ-DG-01           | 25174                  | 9.70                | 101775 | 11.83               | 67312 | 18.30 |
| 02             | CLJ-DG-01MS         | <del>25174</del> 28235 | 9.73                | 116092 | 11.84               | 88848 | 18.33 |
| 03             | CLJ-DG-01MSD        | 24535                  | 9.72                | 104013 | 11.85               | 77332 | 18.33 |
| 04             |                     |                        |                     |        |                     |       |       |
| 05             |                     |                        |                     |        |                     |       |       |
| 06             |                     |                        |                     |        |                     |       |       |
| 07             |                     |                        |                     |        |                     |       |       |
| 08             |                     |                        |                     |        |                     |       |       |
| 09             |                     |                        |                     |        |                     |       |       |
| 10             |                     |                        |                     |        |                     |       |       |
| 11             |                     |                        |                     |        |                     |       |       |
| 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.

TOTAL ION CHROMATOGRAM



Data File: >07175::D5                      Quant Output File: ^07175::QT  
 Name: 15226N CLJ-06-01 50X  
 Misc: JM3970V,N4V3331,S:M2,2.00,5.00:50, 100ul 5ml

Id File: IC330A::D4  
 Title: MSD-C DB624 0.53mmX75m      VOLATILE GC/MS  
 Last Calibration: 940330 09:55

Operator ID: STEVE  
 Quant Time: 940330 14:52  
 Injected at: 940330 14:12

QUANT REPORT

Page 1

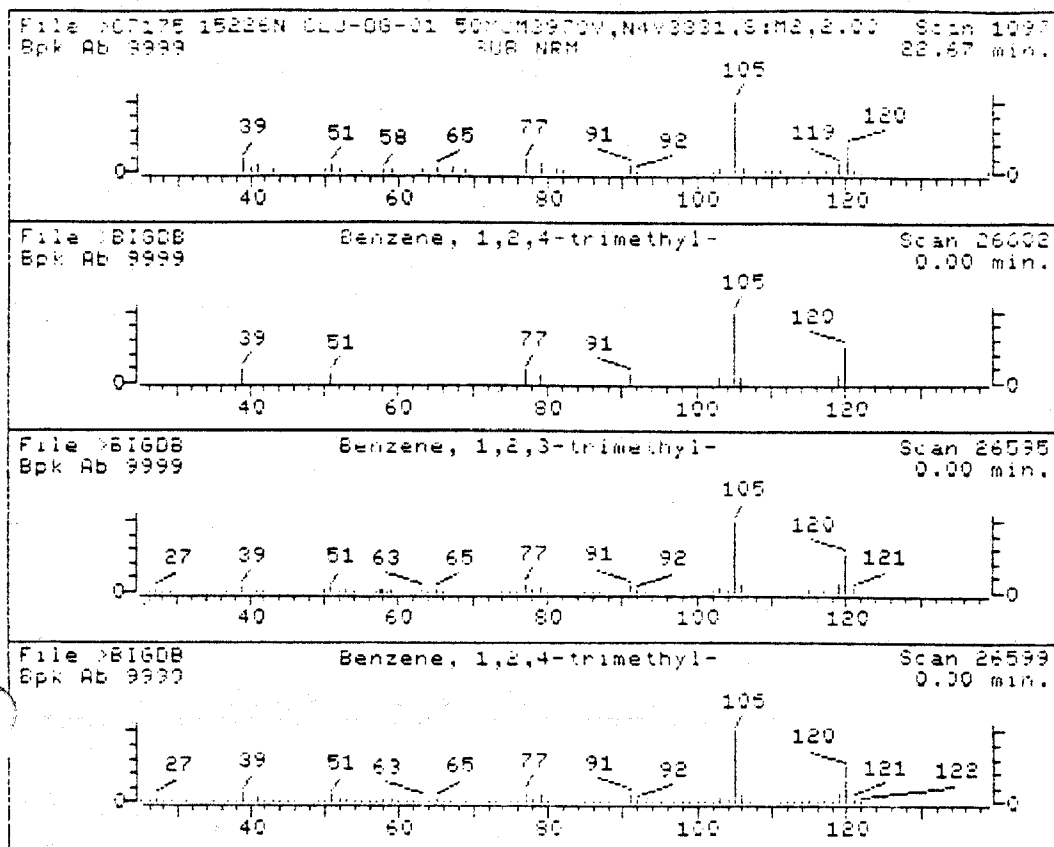
Operator ID: STEVE                      Quant Rev: 7                      Quant Time: 940330 14:52  
Output File: ^C7175::QT                      Injected at: 940330 14:12  
Data File: ^C7175::D5                      Dilution Factor: 1.00000  
Name: 15226N CL3-DG-01 50X  
Misc: JM3979U,N493331,5:M2,2.00,5.00:50, 100ul/5ml

ID File: IC330A::04  
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS  
Last Calibration: 940330 09:55

| Compound                         | R.T.  | Q ion | Area   | Conc  | Units | q  |
|----------------------------------|-------|-------|--------|-------|-------|----|
| 1) *BROMOCHLOROMETHANE (ISTD)    | 9.70  | 128.0 | 25174  | 50.00 | ug/l  | 91 |
| 5) Methyl bromide                | 5.60  | 94.0  | 807    | 1.56  | ug/l  | 85 |
| 26) 1,2-Dichloroethane-D4 (SURR) | 10.89 | 65.0  | 47245  | 49.29 | ug/l  | 84 |
| 29) *1,4-DIFLUOROBENZENE (ISTD)  | 11.83 | 114.0 | 101775 | 50.00 | ug/l  | 88 |
| 48) *CHLOROBENZENE-d5 (ISTD)     | 18.30 | 117.0 | 67312  | 50.00 | ug/l  | 92 |
| 49) Toluene-D8 (SURR)            | 14.09 | 98.0  | 79674  | 48.57 | ug/l  | 86 |
| 01 Bromofluorobenzene (SURR)     | 20.98 | 95.0  | 67478  | 48.09 | ug/l  | 89 |
| 01 1,3,5-Trimethylbenzene        | 21.91 | 105.0 | 4097   | 2.32  | ug/l  | 79 |
| 01 1,2,4-Trimethylbenzene        | 22.67 | 105.0 | 7466   | 4.39  | ug/l  | 72 |
| 80) Naphthalene                  | 27.58 | 128.0 | 7257   | 3.66  | ug/l  | 82 |

\* Compound is ISTD



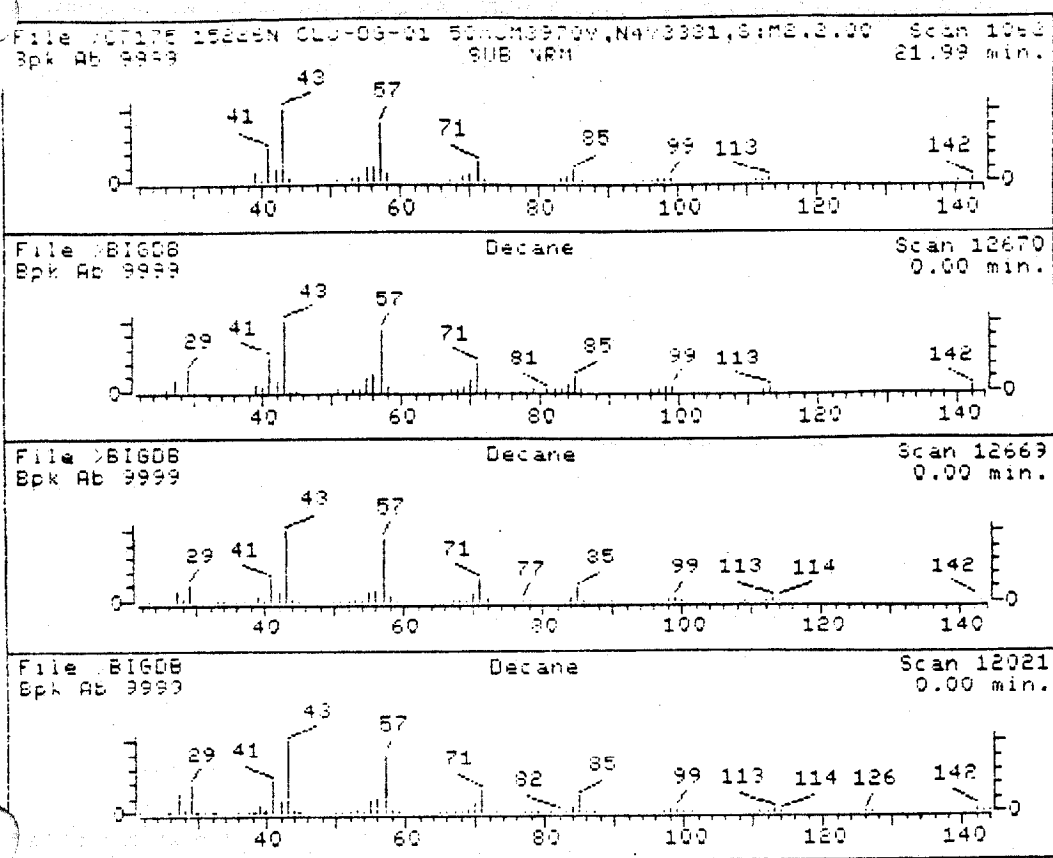


Data File: >C7175::05  
 Name: 15226N CLJ-06-01 50X  
 Misc Data: JM3970U,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml  
 RT (min): 22.67  
 Scan: 1097  
 Area: 51693 Rank: 10  
 Semi-quantitative Conc (uncorrected): 10.44 ug/l  
 Semi-quantitative Conc (corrected): 261.03 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

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

Sample file: >C7175 Spectrum #: 1097  
 Arch 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. | 96*   | 95636  | 26602 | "BIGDB | 66 | 3  | 0    | 0    | 74 | 15  | 64  | 97   |
| 2. | 89*   | 526738 | 26595 | "BIGDB | 81 | 7  | 1    | 2    | 81 | 9   | 62  | 80   |
| 3. | 84*   | 95636  | 26599 | "BIGDB | 76 | 16 | 2    | 2    | 87 | 9   | 55  | 60   |

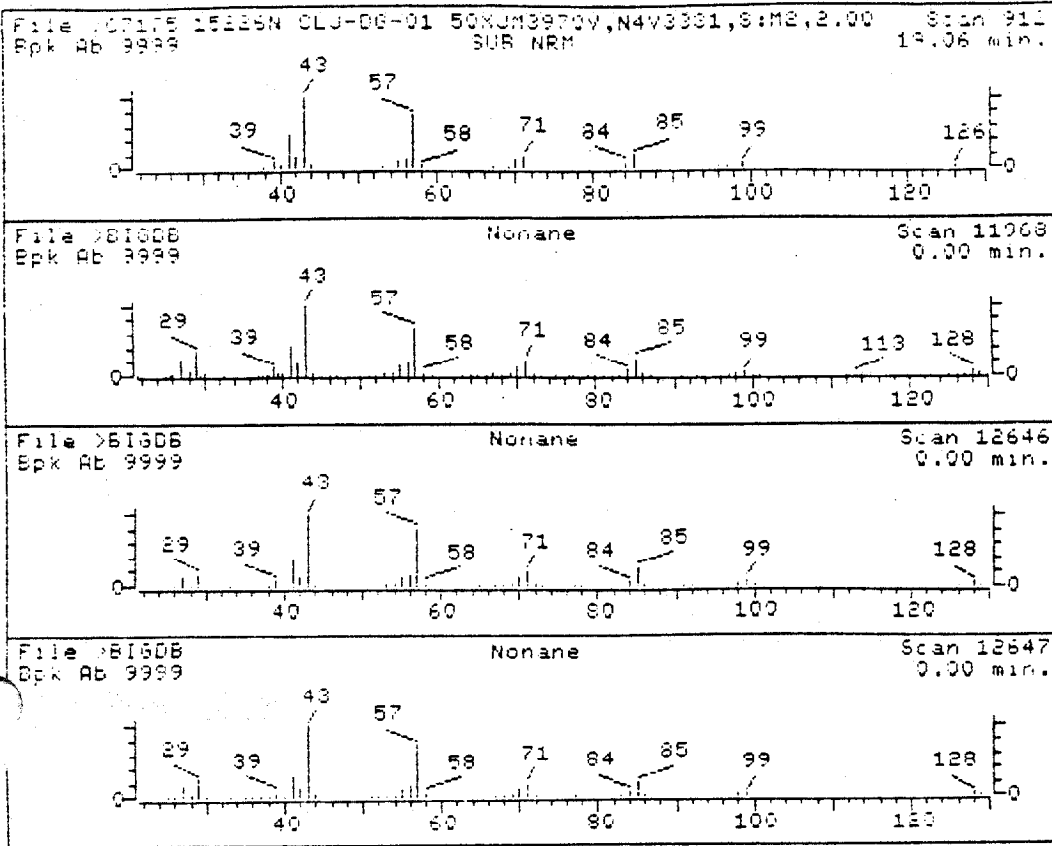


Data File: >D7175::D5  
 Name: 15226N CLJ-DG-01 50X  
 Misc Data: JM3970U,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml  
 RT (min): 21.99  
 Scan: 1062  
 Area: 130403 Rank: 5  
 Semi-quantitative Conc (uncorrected): 26.34 ug/l  
 Semi-quantitative Conc (corrected): 658.48 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

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

Sample file: >D7175 Spectrum #: 1062  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 59

| Prob. | CAS #  | CON # | ROOT   | K  | OK | #FLG | TILT | %  | CON | C_I | R_IU |
|-------|--------|-------|--------|----|----|------|------|----|-----|-----|------|
| 94*   | 124185 | 12670 | "BIG08 | 78 | 21 | 0    | 0    | 65 | 8   | 68  | 93   |
| 93*   | 124185 | 12669 | "BIG08 | 74 | 19 | 0    | 0    | 89 | 6   | 68  | 92   |
| 81    | 124185 | 12021 | "BIG08 | 83 | 14 | 1    | 0    | 77 | 10  | 53  | 45   |

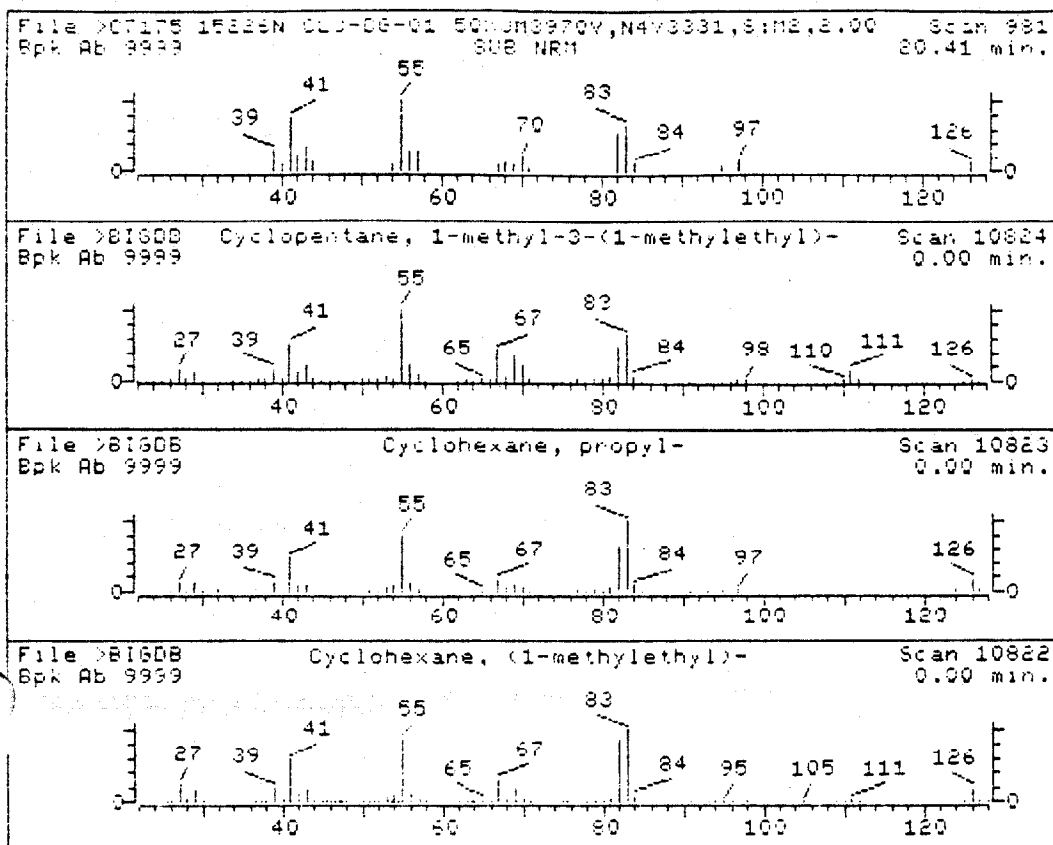


Data File: >C7175::05  
 Name: 15226N CLJ-DG-01 50X  
 Misc Data: JM3970U,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml  
 RT (min): 19.06  
 Scan: 912  
 Area: 56621 Rank: 8  
 Semi-quantitative Conc (uncorrected): 11.44 ug/l  
 Semi-quantitative Conc (corrected): 285.91 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

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

Sample file: >C7175 Spectrum #: 912  
 Arch speed: 2 Tilting option: S No. of ion ranges searched: 53

|    | Prob. | CAS #  | CON # | ROOT   | K  | DK | #FLG | TILT | %  | CON | C_I | R_IV |
|----|-------|--------|-------|--------|----|----|------|------|----|-----|-----|------|
| 1. | 83    | 111842 | 11968 | "BIGDB | 61 | 35 | 2    | 0    | 76 | 3   | 57  | 21   |
| 2. | 78    | 111842 | 12646 | "BIGDB | 54 | 41 | 2    | 0    | 78 | 3   | 55  | 17   |
| 3. | 78    | 111842 | 12647 | "BIGDB | 52 | 40 | 2    | 0    | 85 | 4   | 55  | 17   |



Data File: >D7175::D5

Name: 15226N CLJ-06-01 50X

Misc Data: JM3970V,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml

RT (min): 20.41

Scan: 981

Area: 31180 Rank: 11

Semi-quantitative Conc (uncorrected): 6.30 ug/l

Semi-quantitative Conc (corrected): 157.45 ug/kg

Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

|                                              |           |
|----------------------------------------------|-----------|
| 1. Cyclopentane, 1-methyl-3-(1-methylethyl)- | 126 C9H18 |
| 2. Cyclohexane, propyl-                      | 126 C9H18 |
| 3. Cyclohexane, (1-methylethyl)-             | 126 C9H18 |

Sample file: >D7175

Spectrum #: 981

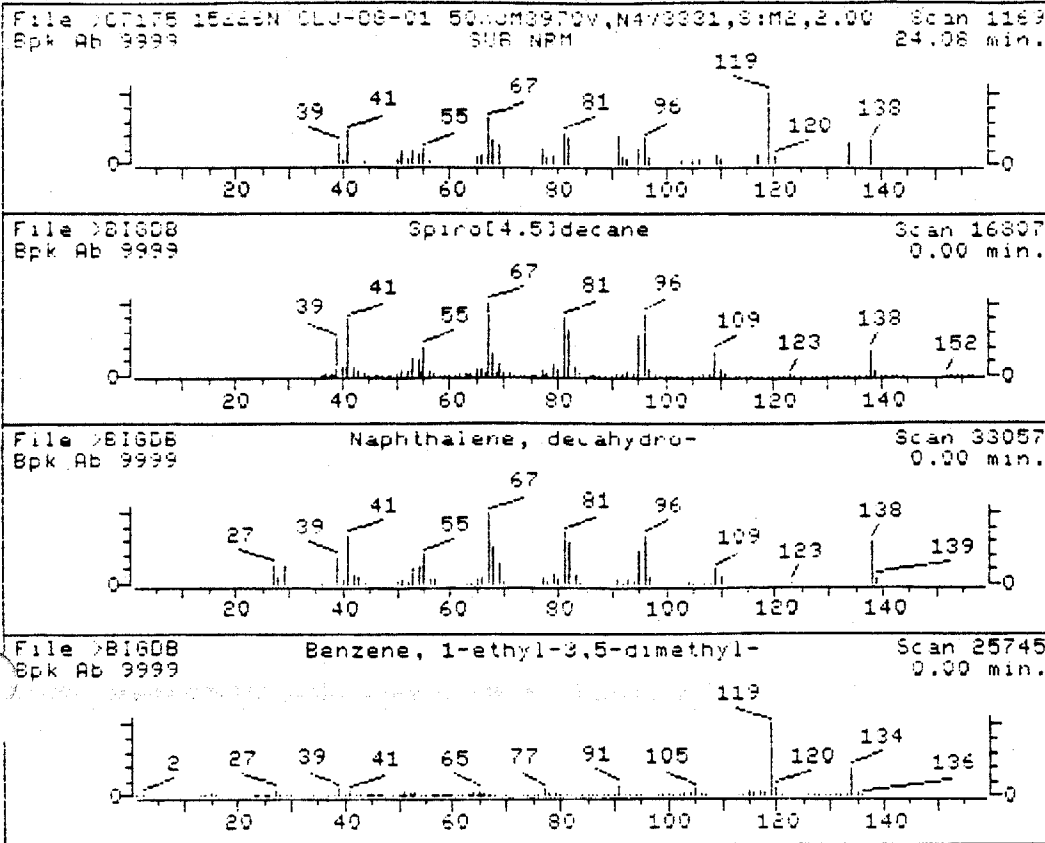
981

Arch 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.    | 36*   | 53771893 | 10824 | "BIGDB | 39 | 63   | 3    | 0 | 100 | 29  | 14   | 13 |

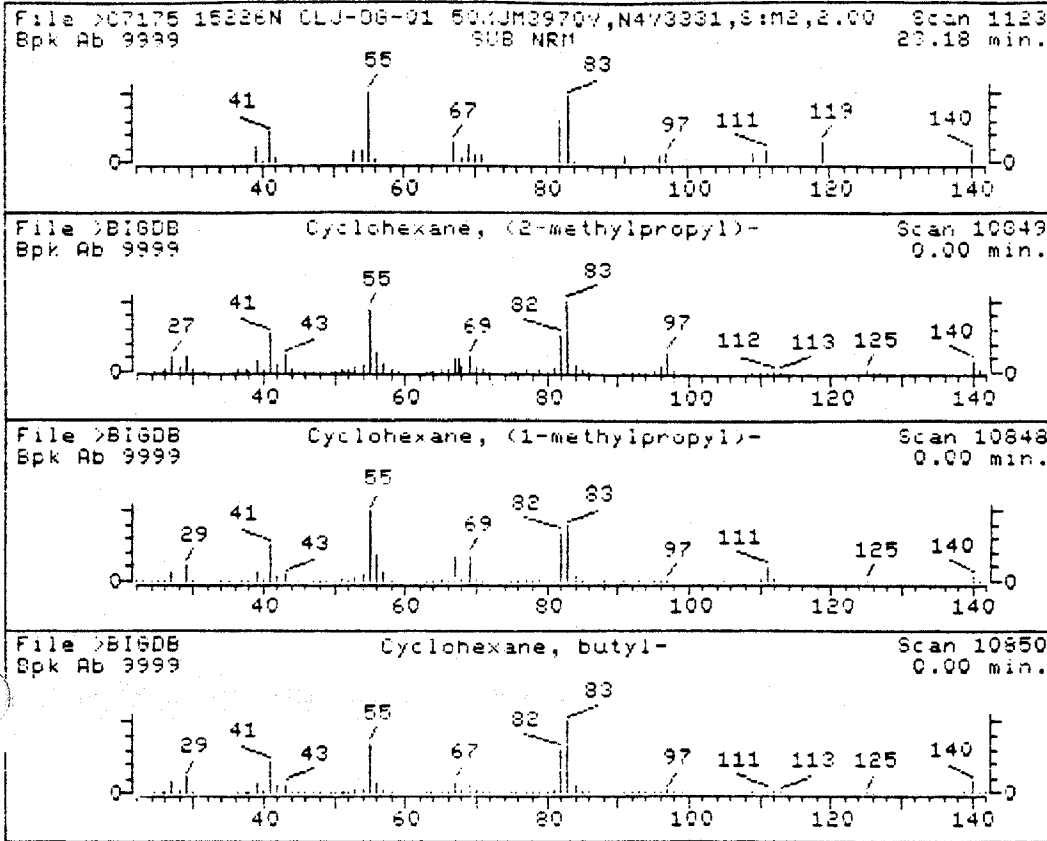


Data File: >C7175::D5  
 Name: 15226N CLJ-DG-01 50X  
 Misc Data: JM3970V,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml  
 RT (min): 24.08  
 Scan: 1169  
 Area: 31117 Rank: 12  
 Semi-quantitative Conc (uncorrected): 6.29 ug/l  
 Semi-quantitative Conc (corrected): 157.13 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

- |                                   |            |
|-----------------------------------|------------|
| 1. Spiro[4.5]decane               | 138 C10H18 |
| 2. Naphthalene, decahydro-        | 138 C10H18 |
| 3. Benzene, 1-ethyl-3,5-dimethyl- | 134 C10H14 |

Sample file: >C7175 Spectrum #: 1169  
 Arch 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. | 57*   | 176636 | 16907 | "BIGDB | 69 | 40 | 2    | 2    | 33 | 35  | 22  | 42   |
| 2. | 56*   | 91178  | 33057 | "BIGDB | 86 | 39 | 2    | 0    | 50 | 50  | 14  | 66   |



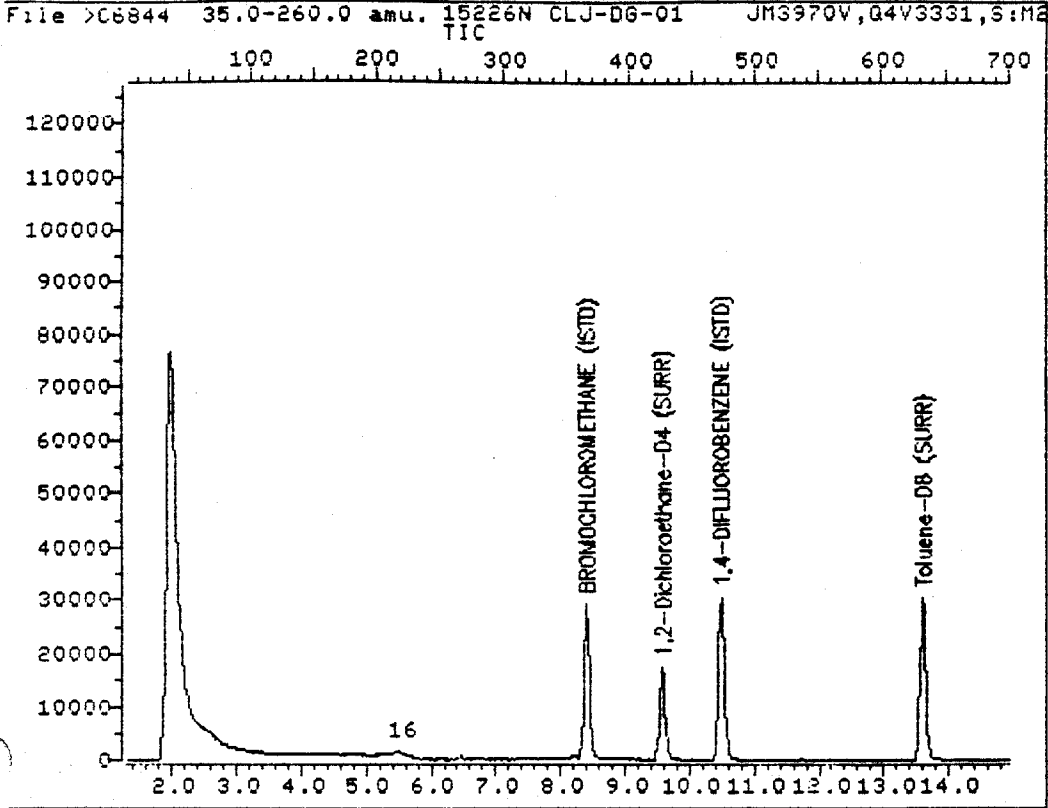
Data File: >C7175::D5  
 Name: 15226N CLJ-06-01 50X  
 Misc Data: JM3970U,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml  
 RT (min): 23.18  
 Scan: 1123  
 Area: 23561 Rank: 14  
 Semi-quantitative Conc (uncorrected): 4.76 ug/l  
 Semi-quantitative Conc (corrected): 118.97 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

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

Sample file: >C7175 Spectrum #: 1123  
 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.    | 36*   | 1678984 | 10849 | "BIGDB | 38 | 67   | 3    | 0 | 94  | 27  | 14 13 |

DUAL ION CHROMATOGRAM



Data File: >C6844::D5

Quant Output File: ^C6844::QT

Name: 15226N CLJ-DG-01

Misc: JM3970V,Q4V3331,S:M2,2.00,5:500000,

Id File: IC304A::D4

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

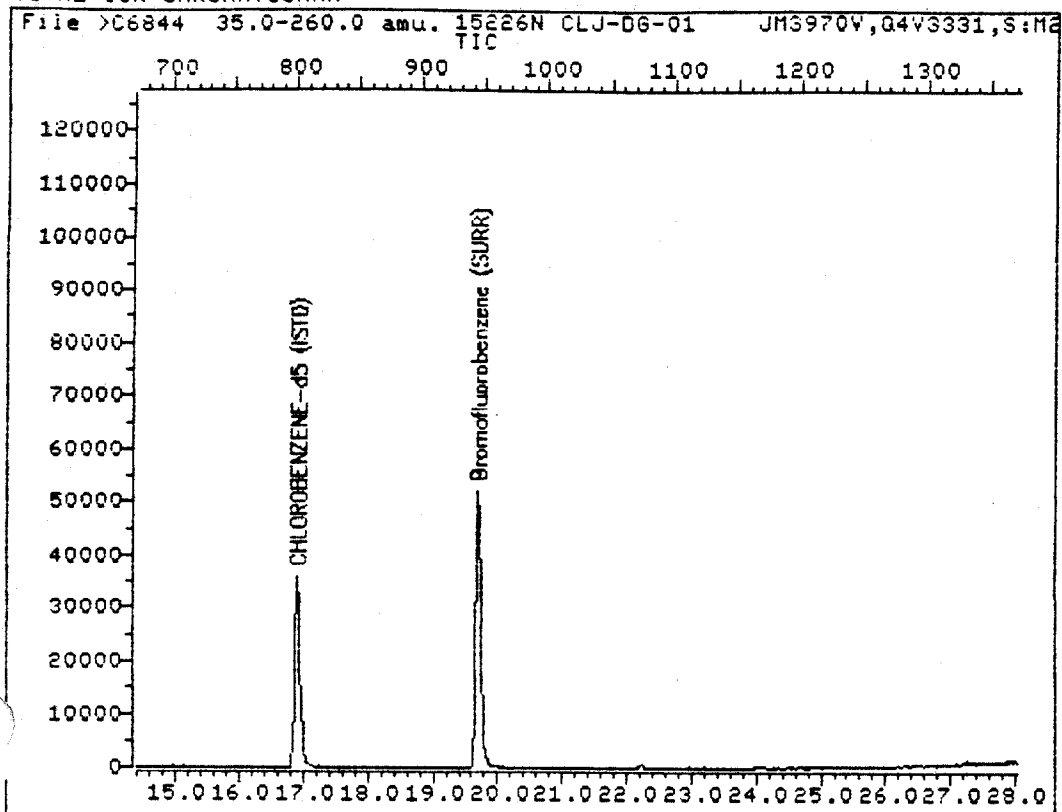
Last Calibration: 940304 08:54

Operator ID: USERTSC

Quant Time: 940304 17:07

Injected at: 940304 16:38

## TOTAL ION CHROMATOGRAM



Data File: &gt;C6844::D5

Quant Output File: ^C6844::QT

Name: 15226N CLJ-DG-01

Misc: JM3970V,Q4U3331,S:M2,2.00,5:500000,

Id File: IC304A::D4

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

Last Calibration: 940304 08:54

Operator ID: USERTSC

Quant Time: 940304 17:07

Injected at: 940304 16:38

Page 2 of 2



## QUANT REPORT

Page 1

Operator ID: USERTSC                      Quant Rev: 7                      Quant Time: 940304 17:07  
 Output File: ^C6844::QT                      Injected at: 940304 16:38  
 Data File: >C6844::D5                      Dilution Factor: 1.00000  
 Name: 15226N CLJ-DG-01  
 Misc: JM3970U,Q4V3331,S:M2,2.00,5:500000,

ID File: IC304A::D4  
 Title: MSD-C DB624 0.53mmX75m                      VOLATILE GC/MS  
 Last Calibration: 940304 08:54

| Compound                         | R.T.  | Q ion | Area  | Conc  | Units | q  |
|----------------------------------|-------|-------|-------|-------|-------|----|
| 1) *BROMOCHLOROMETHANE (ISTD)    | 8.41  | 128.0 | 19769 | 50.00 | ug/l  | 89 |
| 16) Methylene chloride           | 5.48  | 84.0  | 1221  | 2.07  | ug/l  | 72 |
| 26) 1,2-Dichloroethane-D4 (SURR) | 9.58  | 65.0  | 37614 | 45.65 | ug/l  | 81 |
| 29) *1,4-DIFLUOROBENZENE (ISTD)  | 10.49 | 114.0 | 71301 | 50.00 | ug/l  | 88 |
| 48) *CHLOROBENZENE-d5 (ISTD)     | 16.91 | 117.0 | 57989 | 50.00 | ug/l  | 89 |
| 49) Toluene-D8 (SURR)            | 13.60 | 98.0  | 63057 | 43.78 | ug/l  | 90 |
| 60) Bromofluorobenzene (SURR)    | 19.70 | 95.0  | 66016 | 45.70 | ug/l  | 92 |

\* Compound is ISTD

SECTION ~~5a~~ 6a.

DISPOSAL DECONTAMINATION

WATER SAMPLE (DWW)

Camp Lejeune 15226

QA/QC SUMMARY REPORT

| <u>SAMPLE<br/>NUMBER</u> | <u>SAMPLE<br/>DATE</u> | <u>SAMPLE LOCATION</u>    | <u>COC<br/>NUMBER</u> | <u>LAB<br/>ID</u> | <u>LAB<br/>SAMPLE ID</u> | <u>DQO<br/>LEVEL</u> | <u>PACKAGE<br/>ID</u> | <u>AIRBILL<br/>NUMBER</u> |
|--------------------------|------------------------|---------------------------|-----------------------|-------------------|--------------------------|----------------------|-----------------------|---------------------------|
| CLJ-DWW-01               | 2/24/94                | 12K POOL SAMPLE: BATCH #1 | 127967                | ASC               | JM3866                   | IV                   | 615242                | 5927355626                |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Conventional Data (CV10)

|                              |      |       |
|------------------------------|------|-------|
| Cyanide, Total               | mg/L | <.010 |
| Oil and Grease               | mg/L | 16.0  |
| Solids, total suspended      | mg/L | 56.0  |
| Total Dissolved Solids (TDS) | mg/L | 107   |
| pH (Electrode)               | std  | 6.46  |

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

|                    |      |        |
|--------------------|------|--------|
| Aldrin             | mg/L | <.0001 |
| Alpha-BHC          | mg/L | <.0001 |
| Beta-BHC           | mg/L | <.0001 |
| Chlordane          | mg/L | <.0006 |
| 4,4'-DDD           | mg/L | .0005  |
| 4,4'-DDE           | mg/L | .0001  |
| 4,4'-DDT           | mg/L | .001   |
| Delta-BHC          | mg/L | <.0001 |
| Dieldrin           | mg/L | <.0001 |
| Endosulfan sulfate | mg/L | <.0001 |
| Endosulfan I       | mg/L | <.0001 |
| Endosulfan II      | mg/L | <.0001 |
| Endrin             | mg/L | <.0001 |
| Endrin aldehyde    | mg/L | <.0001 |
| Endrin ketone      | mg/L | <.0001 |
| Gamma-BHC          | mg/L | <.0001 |
| Heptachlor         | mg/L | <.0001 |
| Heptachlor epoxide | mg/L | <.0001 |
| Methoxychlor       | mg/L | <.0001 |
| Toxaphene          | mg/L | <.002  |
| Aroclor 1016       | mg/L | <.001  |
| Aroclor 1221       | mg/L | <.001  |
| Aroclor 1232       | mg/L | <.001  |
| Aroclor 1242       | mg/L | <.001  |
| Aroclor 1248       | mg/L | <.001  |
| Aroclor 1254       | mg/L | <.001  |
| Aroclor 1260       | mg/L | <.001  |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters Units

## RCRA Total Metals Analysis, (ME50)

|          |      |       |
|----------|------|-------|
| Arsenic  | mg/L | <.100 |
| Barium   | mg/L | .045  |
| Cadmium  | mg/L | .006  |
| Chromium | mg/L | <.010 |
| Lead     | mg/L | .091  |
| Mercury  | mg/L | <.001 |
| Selenium | mg/L | <.100 |
| Silver   | mg/L | <.010 |

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

|                              |      |       |
|------------------------------|------|-------|
| Acenaphthene                 | mg/L | <.013 |
| Acenaphthylene               | mg/L | <.013 |
| Anthracene                   | mg/L | <.013 |
| Benzidine                    | mg/L | <.013 |
| Benzo(a)anthracene           | mg/L | <.013 |
| Benzo(b)fluoranthene         | mg/L | <.013 |
| Benzo(k)fluoranthene         | mg/L | <.013 |
| Benzo(ghi)perylene           | mg/L | <.013 |
| Benzo(a)pyrene               | mg/L | <.013 |
| bis(2-Chloroethyl) ether     | mg/L | <.013 |
| bis(2-Chloroethoxy)methane   | mg/L | <.013 |
| bis(2-Chloroisopropyl) ether | mg/L | <.013 |
| bis(2-Ethylhexyl)phthalate   | mg/L | <.013 |
| 4-Bromophenyl phenyl ether   | mg/L | <.013 |
| Butyl benzyl phthalate       | mg/L | <.013 |
| Carbazole                    | mg/L | <.013 |
| 4-Chloroaniline              | mg/L | <.013 |
| p-Chloro-m-cresol            | mg/L | <.013 |
| 2-Chloronaphthalene          | mg/L | <.013 |
| 2-Chlorophenol               | mg/L | <.013 |
| 4-Chlorophenyl phenyl ether  | mg/L | <.013 |
| Chrysene                     | mg/L | <.013 |
| Dibenzo(a,h)anthracene       | mg/L | <.013 |
| Dibenzofuran                 | mg/L | <.013 |
| Di-n-butyl phthalate         | mg/L | <.013 |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

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

|                           |      |       |
|---------------------------|------|-------|
| 1,2-Dichlorobenzene       | mg/L | <.013 |
| 1,3-Dichlorobenzene       | mg/L | <.013 |
| 1,4-Dichlorobenzene       | mg/L | <.013 |
| 3,3'-Dichlorobenzidine    | mg/L | <.013 |
| 2,4-Dichlorophenol        | mg/L | <.013 |
| Diethyl phthalate         | mg/L | <.013 |
| Dimethyl phthalate        | mg/L | <.013 |
| 2,4-Dimethylphenol        | mg/L | <.013 |
| 4,6-Dinitro-o-cresol      | mg/L | <.031 |
| 2,4-Dinitrophenol         | mg/L | <.062 |
| 2,4-Dinitrotoluene        | mg/L | <.013 |
| 2,6-Dinitrotoluene        | mg/L | <.013 |
| Di-n-octyl phthalate      | mg/L | <.013 |
| Fluoranthene              | mg/L | <.013 |
| Fluorene                  | mg/L | <.013 |
| Hexachlorobenzene         | mg/L | <.013 |
| Hexachlorobutadiene       | mg/L | <.013 |
| Hexachlorocyclopentadiene | mg/L | <.013 |
| Hexachloroethane          | mg/L | <.013 |
| Isophorone                | mg/L | <.013 |
| 2-Methylnaphthalene       | mg/L | <.013 |
| 2-Methylphenol            | mg/L | <.013 |
| 4-Methylphenol            | mg/L | <.013 |
| N-Nitrosodimethylamine    | mg/L | <.013 |
| N-Nitrosodi-n-propylamine | mg/L | <.013 |
| N-Nitrosodiphenylamine    | mg/L | <.013 |
| Naphthalene               | mg/L | <.013 |
| 2-Nitroaniline            | mg/L | <.013 |
| 3-Nitroaniline            | mg/L | <.013 |
| 4-Nitroaniline            | mg/L | <.013 |
| Nitrobenzene              | mg/L | <.013 |
| 2-Nitrophenol             | mg/L | <.013 |
| 4-Nitrophenol             | mg/L | <.062 |
| Pentachlorophenol         | mg/L | <.013 |
| Phenanthrene              | mg/L | <.013 |

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

**Sample Point ID: CLJ-DWW-01**  
 ASC Sample Number: JM3866  
 Sample Date: 940224  
 Facility Code: 015226N

Parameters                      Units

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

|                                |      |       |
|--------------------------------|------|-------|
| Phenol                         | mg/L | <.013 |
| Pyrene                         | mg/L | <.013 |
| Pyridine                       | mg/L | <.013 |
| 1,2,4-Trichlorobenzene         | mg/L | <.013 |
| 2,4,5-Trichlorophenol          | mg/L | <.013 |
| 2,4,6-Trichlorophenol          | mg/L | <.013 |
| 1,2,4,5-Tetrachlorobenzene     | mg/L | <.013 |
| 2,3,4,6-Tetrachlorophenol      | mg/L | <.013 |
| 2,6-Dichlorophenol             | mg/L | <.013 |
| 2-Ethoxyethanol                | mg/L | <.013 |
| 2-Nitropropane                 | mg/L | <.013 |
| 3-Chloropropionitrile          | mg/L | <.013 |
| 4,4'-Methylenebis(2-chloroanil | mg/L | <.013 |
| Benzoic acid                   | mg/L | <.031 |
| Benzyl alcohol                 | mg/L | <.013 |
| Cyclohexanone                  | mg/L | <.013 |
| Hexachloropropene              | mg/L | <.013 |
| Indeno(1,2,3-c,d)pyrene        | mg/L | <.013 |
| Pentachlorobenzene             | mg/L | <.013 |
| Pentachloroethane              | mg/L | <.013 |
| Pentachloronitrobenzene        | mg/L | <.013 |
| Pronamide                      | mg/L | <.013 |
| bis(2-Chloroethoxy)ethane      | mg/L | <.013 |

**Total Volatile Analysis, MS, (MV00)**

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

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters Units

## Total Volatile Analysis, MS, (MV00)

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



# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MV00)

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



Analytical Services Corp.

## ANALYTICAL REPORT

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

**Attn:** Kent Geis

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

**Sample(s):** CLJ-DWW-01

**Sample Type(s):** Liquid

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

**Date Sample Received:** February 25, 1994

**Date Order Received:** February 25, 1994

**Joblink(s):** 615242

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

Reviewed and  
Approved by:

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

Date:

3/3/94

## PROJECT NARRATIVE

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

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

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

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

# DATA SUMMARY REPORT

DATE: 03/01/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Conventional Data (CV10)

|                              |      |       |
|------------------------------|------|-------|
| Cyanide, Total               | mg/L | <.010 |
| Oil and Grease               | mg/L | 16.0  |
| Solids, total suspended      | mg/L | 56.0  |
| Total Dissolved Solids (TDS) | mg/L | 107   |
| pH (Electrode)               | std  | 6.46  |

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

|                    |      |        |
|--------------------|------|--------|
| Aldrin             | mg/L | <.0001 |
| Alpha-BHC          | mg/L | <.0001 |
| Beta-BHC           | mg/L | <.0001 |
| Chlordane          | mg/L | <.0006 |
| 4,4'-DDD           | mg/L | .0005  |
| 4,4'-DDE           | mg/L | .0001  |
| 4,4'-DDT           | mg/L | .001   |
| Delta-BHC          | mg/L | <.0001 |
| Dieldrin           | mg/L | <.0001 |
| Endosulfan sulfate | mg/L | <.0001 |
| Endosulfan I       | mg/L | <.0001 |
| Endosulfan II      | mg/L | <.0001 |
| Endrin             | mg/L | <.0001 |
| Endrin aldehyde    | mg/L | <.0001 |
| Endrin ketone      | mg/L | <.0001 |
| Gamma-BHC          | mg/L | <.0001 |
| Heptachlor         | mg/L | <.0001 |
| Heptachlor epoxide | mg/L | <.0001 |
| Methoxychlor       | mg/L | <.0001 |
| Toxaphene          | mg/L | <.002  |
| Aroclor 1016       | mg/L | <.001  |
| Aroclor 1221       | mg/L | <.001  |
| Aroclor 1232       | mg/L | <.001  |
| Aroclor 1242       | mg/L | <.001  |
| Aroclor 1248       | mg/L | <.001  |
| Aroclor 1254       | mg/L | <.001  |
| Aroclor 1260       | mg/L | <.001  |

# DATA SUMMARY REPORT

DATE: 03/01/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
 ASC Sample Number: JM3866  
 Sample Date: 940224  
 Facility Code: 015226N

Parameters                      Units

**RCRA Total Metals Analysis, (ME50)**

|          |      |       |
|----------|------|-------|
| Arsenic  | mg/L | <.100 |
| Barium   | mg/L | .045  |
| Cadmium  | mg/L | .006  |
| Chromium | mg/L | <.010 |
| Lead     | mg/L | .091  |
| Mercury  | mg/L | <.001 |
| Selenium | mg/L | <.100 |
| Silver   | mg/L | <.010 |

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

|                             |      |       |
|-----------------------------|------|-------|
| Acenaphthene                | mg/L | <.013 |
| Acenaphthylene              | mg/L | <.013 |
| Anthracene                  | mg/L | <.013 |
| Benzidine                   | mg/L | <.013 |
| Benzoic acid                | mg/L | <.031 |
| Benzyl alcohol              | mg/L | <.013 |
| Benzo(a)anthracene          | mg/L | <.013 |
| Benzo(b)fluoranthene        | mg/L | <.013 |
| Benzo(k)fluoranthene        | mg/L | <.013 |
| Benzo(ghi)perylene          | mg/L | <.013 |
| Benzo(a)pyrene              | mg/L | <.013 |
| bis(2-Chloroethoxy)ethane   | mg/L | <.013 |
| bis(2-Chloroethyl) ether    | mg/L | <.013 |
| bis(2-Chloroethoxy)methane  | mg/L | <.013 |
| bis(2-Chloroisopropyl)ether | mg/L | <.013 |
| bis(2-Ethylhexyl)phthalate  | mg/L | <.013 |
| 4-Bromophenyl phenyl ether  | mg/L | <.013 |
| Butyl benzyl phthalate      | mg/L | <.013 |
| Carbazole                   | mg/L | <.013 |
| 4-Chloroaniline             | mg/L | <.013 |
| p-Chloro-m-cresol           | mg/L | <.013 |
| 2-Chloronaphthalene         | mg/L | <.013 |
| 2-Chlorophenol              | mg/L | <.013 |
| 4-Chlorophenyl phenyl ether | mg/L | <.013 |
| 3-Chloropropionitrile       | mg/L | <.013 |

# DATA SUMMARY REPORT

DATE: 03/01/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters Units

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

|                                |      |       |
|--------------------------------|------|-------|
| Chrysene                       | mg/L | <.013 |
| Cyclohexanone                  | mg/L | <.013 |
| Dibenzo(a,h)anthracene         | mg/L | <.013 |
| Dibenzofuran                   | mg/L | <.013 |
| Di-n-butyl phthalate           | mg/L | <.013 |
| 1,2-Dichlorobenzene            | mg/L | <.013 |
| 1,3-Dichlorobenzene            | mg/L | <.013 |
| 1,4-Dichlorobenzene            | mg/L | <.013 |
| 3,3'-Dichlorobenzidine         | mg/L | <.013 |
| 2,4-Dichlorophenol             | mg/L | <.013 |
| 2,6-Dichlorophenol             | mg/L | <.013 |
| Diethyl phthalate              | mg/L | <.013 |
| Dimethyl phthalate             | mg/L | <.013 |
| 2,4-Dimethylphenol             | mg/L | <.013 |
| 4,6-Dinitro-o-cresol           | mg/L | <.031 |
| 2,4-Dinitrophenol              | mg/L | <.062 |
| 2,4-Dinitrotoluene             | mg/L | <.013 |
| 2,6-Dinitrotoluene             | mg/L | <.013 |
| Di-n-octyl phthalate           | mg/L | <.013 |
| 2-Ethoxyethanol                | mg/L | <.013 |
| Fluoranthene                   | mg/L | <.013 |
| Fluorene                       | mg/L | <.013 |
| Hexachlorobenzene              | mg/L | <.013 |
| Hexachlorobutadiene            | mg/L | <.013 |
| Hexachlorocyclopentadiene      | mg/L | <.013 |
| Hexachloroethane               | mg/L | <.013 |
| Hexachloropropene              | mg/L | <.013 |
| Indeno(1,2,3-c,d)pyrene        | mg/L | <.013 |
| Isophorone                     | mg/L | <.013 |
| 4,4'-Methylenebis(2-chloroani- | mg/L | <.013 |
| line)                          |      |       |
| 2-Methylnaphthalene            | mg/L | <.013 |
| 2-Methylphenol                 | mg/L | <.013 |
| 4-Methylphenol                 | mg/L | <.013 |
| 2-Nitropropane                 | mg/L | <.013 |
| N-Nitrosodimethylamine         | mg/L | <.013 |

# DATA SUMMARY REPORT

DATE: 03/01/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

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

|                            |      |       |
|----------------------------|------|-------|
| N-Nitrosodi-n-propylamine  | mg/L | <.013 |
| N-Nitrosodiphenylamine     | mg/L | <.013 |
| Naphthalene                | mg/L | <.013 |
| 2-Nitroaniline             | mg/L | <.013 |
| 3-Nitroaniline             | mg/L | <.013 |
| 4-Nitroaniline             | mg/L | <.013 |
| Nitrobenzene               | mg/L | <.013 |
| 2-Nitrophenol              | mg/L | <.013 |
| 4-Nitrophenol              | mg/L | <.062 |
| Pentachlorobenzene         | mg/L | <.013 |
| Pentachloronitrobenzene    | mg/L | <.013 |
| Pentachlorophenol          | mg/L | <.013 |
| Pentachloroethane          | mg/L | <.013 |
| Phenanthrene               | mg/L | <.013 |
| Phenol                     | mg/L | <.013 |
| Pronamide                  | mg/L | <.013 |
| Pyrene                     | mg/L | <.013 |
| Pyridine                   | mg/L | <.013 |
| 1,2,4,5-Tetrachlorobenzene | mg/L | <.013 |
| 2,3,4,6-Tetrachlorophenol  | mg/L | <.013 |
| 1,2,4-Trichlorobenzene     | mg/L | <.013 |
| 2,4,5-Trichlorophenol      | mg/L | <.013 |
| 2,4,6-Trichlorophenol      | mg/L | <.013 |

## Total Volatile Analysis, MS, (MV00)

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





# DATA SUMMARY REPORT

DATE: 03/01/94

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01  
ASC Sample Number: JM3866  
Sample Date: 940224  
Facility Code: 015226N

Parameters                      Units

## Total Volatile Analysis, MS, (MVOO)

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

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

### CONVENTIONAL DATA (CV10)

|                                      |          |              |                |
|--------------------------------------|----------|--------------|----------------|
| Company Name                         | Facility | Sample Point | ASC Sample No. |
| OHM REMEDIATION SERVICES CORPORATION | 015226N  | CLJ-DWW-01   | JM3866         |

| Compounds                    | Sample Results | Detection Limits | Blank Results | Batch Number |         |
|------------------------------|----------------|------------------|---------------|--------------|---------|
| Cyanide, Total               | mg/L           | ND               | .010          | ND           | Q1I3310 |
| Oil and Grease               | mg/L           | 16.0             | 5.00          | ND           | Q1I3308 |
| Solids, total suspended      | mg/L           | 56.0             | 10.0          | -            |         |
| Total Dissolved Solids (TDS) | mg/L           | 107              | 10.0          | -            |         |
| pH (Electrode)               | std            | 6.46             | -             | -            |         |

# RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWW-01

JM3866

| Compounds | Sample Results<br>mg/L | Detection Limits<br>mg/L | Blank Results<br>mg/L | Batch Number |
|-----------|------------------------|--------------------------|-----------------------|--------------|
| Arsenic   | ND                     | .100                     | ND                    | Q1M3862      |
| Barium    | .045                   | .020                     | ND                    | Q1M3862      |
| Cadmium   | .006                   | .005                     | ND                    | Q1M3862      |
| Chromium  | ND                     | .010                     | ND                    | Q1M3862      |
| Lead      | .091                   | .075                     | ND                    | Q1M3862      |
| Mercury   | ND                     | .001                     | ND                    | Q1G3861      |
| Selenium  | ND                     | .100                     | ND                    | Q1M3862      |
| Silver    | ND                     | .010                     | ND                    | Q1M3862      |

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

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWW-01

JM3866

| Compounds          | Sample Results<br>mg/L | Detection Limits<br>mg/L | Blank Results<br>mg/L | Batch Number |
|--------------------|------------------------|--------------------------|-----------------------|--------------|
| Aldrin             | ND                     | .0001                    | ND                    | Q1P40183     |
| Alpha-BHC          | ND                     | .0001                    | ND                    | Q1P40183     |
| Beta-BHC           | ND                     | .0001                    | ND                    | Q1P40183     |
| Chlordane          | ND                     | .0006                    | ND                    | Q1P40183     |
| 4,4'-DDD           | .0005                  | .0001                    | ND                    | Q1P40183     |
| 4,4'-DDE           | .0001                  | .0001                    | ND                    | Q1P40183     |
| 4,4'-DDT           | .001                   | .0001                    | ND                    | Q1P40183     |
| Delta-BHC          | ND                     | .0001                    | ND                    | Q1P40183     |
| Dieldrin           | ND                     | .0001                    | ND                    | Q1P40183     |
| Endosulfan sulfate | ND                     | .0001                    | ND                    | Q1P40183     |
| Endosulfan I       | ND                     | .0001                    | ND                    | Q1P40183     |
| Endosulfan II      | ND                     | .0001                    | ND                    | Q1P40183     |
| Endrin             | ND                     | .0001                    | ND                    | Q1P40183     |
| Endrin aldehyde    | ND                     | .0001                    | ND                    | Q1P40183     |
| Endrin ketone      | ND                     | .0001                    | ND                    | Q1P40183     |
| Gamma-BHC          | ND                     | .0001                    | ND                    | Q1P40183     |
| Heptachlor         | ND                     | .0001                    | ND                    | Q1P40183     |
| Heptachlor epoxide | ND                     | .0001                    | ND                    | Q1P40183     |
| Methoxychlor       | ND                     | .0001                    | ND                    | Q1P40183     |
| Toxaphene          | ND                     | .002                     | ND                    | Q1P40183     |
| Aroclor 1016       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1221       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1232       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1242       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1248       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1254       | ND                     | .001                     | ND                    | Q1P40183     |
| Aroclor 1260       | ND                     | .001                     | ND                    | Q1P40183     |

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

|                                      |          |              |                |
|--------------------------------------|----------|--------------|----------------|
| Company Name                         | Facility | Sample Point | ASC Sample No. |
| OHM REMEDIATION SERVICES CORPORATION | 015226N  | CLJ-DWW-01   | JM3866         |

| Compounds                    | Sample Results<br>mg/L | Detection Limits<br>mg/L | Blank Results<br>mg/L | Batch Number |
|------------------------------|------------------------|--------------------------|-----------------------|--------------|
| Acenaphthene                 | ND                     | .013                     | ND                    | Q1C40194     |
| Acenaphthylene               | ND                     | .013                     | ND                    | Q1C40194     |
| Anthracene                   | ND                     | .013                     | ND                    | Q1C40194     |
| Benzidine                    | ND                     | .013                     | ND                    | Q1C40194     |
| Benzoic acid                 | ND                     | .031                     | ND                    | Q1C40194     |
| Benzyl alcohol               | ND                     | .013                     | ND                    | Q1C40194     |
| Benzo(a)anthracene           | ND                     | .013                     | ND                    | Q1C40194     |
| Benzo(b)fluoranthene         | ND                     | .013                     | ND                    | Q1C40194     |
| Benzo(k)fluoranthene         | ND                     | .013                     | ND                    | Q1C40194     |
| Benzo(ghi)perylene           | ND                     | .013                     | ND                    | Q1C40194     |
| Benzo(a)pyrene               | ND                     | .013                     | ND                    | Q1C40194     |
| bis(2-Chloroethoxy)ethane    | ND                     | .013                     | ND                    | Q1C40194     |
| bis(2-Chloroethyl) ether     | ND                     | .013                     | ND                    | Q1C40194     |
| bis(2-Chloroethoxy)methane   | ND                     | .013                     | ND                    | Q1C40194     |
| bis(2-Chloroisopropyl) ether | ND                     | .013                     | ND                    | Q1C40194     |
| bis(2-Ethylhexyl)phthalate   | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Bromophenyl phenyl ether   | ND                     | .013                     | ND                    | Q1C40194     |
| Butyl benzyl phthalate       | ND                     | .013                     | ND                    | Q1C40194     |
| Carbazole                    | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Chloroaniline              | ND                     | .013                     | ND                    | Q1C40194     |
| p-Chloro-m-cresol            | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Chloronaphthalene          | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Chlorophenol               | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Chlorophenyl phenyl ether  | ND                     | .013                     | ND                    | Q1C40194     |
| 3-Chloropropionitrile        | ND                     | .013                     | ND                    | Q1C40194     |
| Chrysene                     | ND                     | .013                     | ND                    | Q1C40194     |
| Cyclohexanone                | ND                     | .013                     | ND                    | Q1C40194     |
| Dibenzo(a,h)anthracene       | ND                     | .013                     | ND                    | Q1C40194     |
| Dibenzofuran                 | ND                     | .013                     | ND                    | Q1C40194     |
| Di-n-butyl phthalate         | ND                     | .013                     | ND                    | Q1C40194     |
| 1,2-Dichlorobenzene          | ND                     | .013                     | ND                    | Q1C40194     |
| 1,3-Dichlorobenzene          | ND                     | .013                     | ND                    | Q1C40194     |
| 1,4-Dichlorobenzene          | ND                     | .013                     | ND                    | Q1C40194     |
| 3,3'-Dichlorobenzidine       | ND                     | .013                     | ND                    | Q1C40194     |
| 2,4-Dichlorophenol           | ND                     | .013                     | ND                    | Q1C40194     |
| 2,6-Dichlorophenol           | ND                     | .013                     | ND                    | Q1C40194     |
| Diethyl phthalate            | ND                     | .013                     | ND                    | Q1C40194     |
| Dimethyl phthalate           | ND                     | .013                     | ND                    | Q1C40194     |
| 2,4-Dimethylphenol           | ND                     | .013                     | ND                    | Q1C40194     |
| 4,6-Dinitro-o-cresol         | ND                     | .031                     | ND                    | Q1C40194     |
| 2,4-Dinitrophenol            | ND                     | .062                     | ND                    | Q1C40194     |
| 2,4-Dinitrotoluene           | ND                     | .013                     | ND                    | Q1C40194     |
| 2,6-Dinitrotoluene           | ND                     | .013                     | ND                    | Q1C40194     |
| Di-n-octyl phthalate         | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Ethoxyethanol              | ND                     | .013                     | ND                    | Q1C40194     |
| Fluoranthene                 | ND                     | .013                     | ND                    | Q1C40194     |
| Fluorene                     | ND                     | .013                     | ND                    | Q1C40194     |
| Hexachlorobenzene            | ND                     | .013                     | ND                    | Q1C40194     |
| Hexachlorobutadiene          | ND                     | .013                     | ND                    | Q1C40194     |
| Hexachlorocyclopentadiene    | ND                     | .013                     | ND                    | Q1C40194     |

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

|                                      |          |              |                |
|--------------------------------------|----------|--------------|----------------|
| Company Name                         | Facility | Sample Point | ASC Sample No. |
| OHM REMEDIATION SERVICES CORPORATION | 015226N  | CLJ-DWW-01   | JM3866         |

| Compounds                      | Sample Results<br>mg/L | Detection Limits<br>mg/L | Blank Results<br>mg/L | Batch Number |
|--------------------------------|------------------------|--------------------------|-----------------------|--------------|
| Hexachloroethane               | ND                     | .013                     | ND                    | Q1C40194     |
| Hexachloropropene              | ND                     | .013                     | ND                    | Q1C40194     |
| Indeno(1,2,3-c,d)pyrene        | ND                     | .013                     | ND                    | Q1C40194     |
| Isophorone                     | ND                     | .013                     | ND                    | Q1C40194     |
| 4,4'-Methylenebis(2-chloroani- | ND                     | .013                     | ND                    | Q1C40194     |
| line)                          |                        |                          |                       |              |
| 2-Methylnaphthalene            | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Methylphenol                 | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Methylphenol                 | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Nitropropane                 | ND                     | .013                     | ND                    | Q1C40194     |
| N-Nitrosodimethylamine         | ND                     | .013                     | ND                    | Q1C40194     |
| N-Nitrosodi-n-propylamine      | ND                     | .013                     | ND                    | Q1C40194     |
| N-Nitrosodiphenylamine         | ND                     | .013                     | ND                    | Q1C40194     |
| Naphthalene                    | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Nitroaniline                 | ND                     | .013                     | ND                    | Q1C40194     |
| 3-Nitroaniline                 | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Nitroaniline                 | ND                     | .013                     | ND                    | Q1C40194     |
| Nitrobenzene                   | ND                     | .013                     | ND                    | Q1C40194     |
| 2-Nitrophenol                  | ND                     | .013                     | ND                    | Q1C40194     |
| 4-Nitrophenol                  | ND                     | .062                     | ND                    | Q1C40194     |
| Pentachlorobenzene             | ND                     | .013                     | ND                    | Q1C40194     |
| Pentachloronitrobenzene        | ND                     | .013                     | ND                    | Q1C40194     |
| Pentachlorophenol              | ND                     | .013                     | ND                    | Q1C40194     |
| Pentachloroethane              | ND                     | .013                     | ND                    | Q1C40194     |
| Phenanthrene                   | ND                     | .013                     | ND                    | Q1C40194     |
| Phenol                         | ND                     | .013                     | ND                    | Q1C40194     |
| Pronamide                      | ND                     | .013                     | ND                    | Q1C40194     |
| Pyrene                         | ND                     | .013                     | ND                    | Q1C40194     |
| Pyridine                       | ND                     | .013                     | ND                    | Q1C40194     |
| 1,2,4,5-Tetrachlorobenzene     | ND                     | .013                     | ND                    | Q1C40194     |
| 2,3,4,6-Tetrachlorophenol      | ND                     | .013                     | ND                    | Q1C40194     |
| 1,2,4-Trichlorobenzene         | ND                     | .013                     | ND                    | Q1C40194     |
| 2,4,5-Trichlorophenol          | ND                     | .013                     | ND                    | Q1C40194     |
| 2,4,6-Trichlorophenol          | ND                     | .013                     | ND                    | Q1C40194     |

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



## TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

015226N

CLJ-DWW-01

JM3866

| Compounds                      | Sample Results<br>mg/L | Detection Limits<br>mg/L | Blank Results<br>mg/L | Batch Number |
|--------------------------------|------------------------|--------------------------|-----------------------|--------------|
| Acetone                        | ND                     | .005                     | ND                    | Q1V3321      |
| Acrolein                       | ND                     | .025                     | ND                    | Q1V3321      |
| Acrylonitrile                  | ND                     | .013                     | ND                    | Q1V3321      |
| Benzene                        | ND                     | .005                     | ND                    | Q1V3321      |
| Bromoform                      | ND                     | .005                     | ND                    | Q1V3321      |
| Carbon disulfide               | ND                     | .005                     | ND                    | Q1V3321      |
| Carbon tetrachloride           | ND                     | .005                     | ND                    | Q1V3321      |
| Chlorobenzene                  | ND                     | .005                     | ND                    | Q1V3321      |
| Chlorodibromomethane           | ND                     | .005                     | ND                    | Q1V3321      |
| Chloroethane                   | ND                     | .005                     | ND                    | Q1V3321      |
| Chloroform                     | ND                     | .005                     | ND                    | Q1V3321      |
| 2-Chloroethylvinyl ether       | ND                     | .005                     | ND                    | Q1V3321      |
| 3-Chloropropene                | ND                     | .005                     | ND                    | Q1V3321      |
| 1,2-Dibromo-3-chloropropane    | ND                     | .005                     | ND                    | Q1V3321      |
| Dichlorobromomethane           | ND                     | .005                     | ND                    | Q1V3321      |
| Dichlorodifluoromethane        | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1-Dichloroethane             | ND                     | .005                     | ND                    | Q1V3321      |
| 1,2-Dichloroethane             | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1-Dichloroethylene           | ND                     | .005                     | ND                    | Q1V3321      |
| 1,2-Dichloropropane            | ND                     | .005                     | ND                    | Q1V3321      |
| cis-1,3-Dichloropropylene      | ND                     | .005                     | ND                    | Q1V3321      |
| trans-1,3-Dichloropropylene    | ND                     | .005                     | ND                    | Q1V3321      |
| Dibromomethane                 | ND                     | .005                     | ND                    | Q1V3321      |
| Ethylbenzene                   | ND                     | .005                     | ND                    | Q1V3321      |
| Ethylene dibromide             | ND                     | .005                     | ND                    | Q1V3321      |
| Ethyl acetate                  | ND                     | .050                     | ND                    | Q1V3321      |
| Ethyl ether                    | ND                     | .005                     | ND                    | Q1V3321      |
| 2-Hexanone                     | ND                     | .005                     | ND                    | Q1V3321      |
| Iodomethane                    | ND                     | .005                     | ND                    | Q1V3321      |
| Methyl bromide                 | ND                     | .005                     | ND                    | Q1V3321      |
| Methyl chloride                | ND                     | .005                     | ND                    | Q1V3321      |
| Methylene chloride             | ND                     | .005                     | ND                    | Q1V3321      |
| Methyl ethyl ketone            | ND                     | .010                     | ND                    | Q1V3321      |
| Methyl-iso-butyl ketone        | ND                     | .010                     | ND                    | Q1V3321      |
| Styrene                        | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1,1,2-Tetrachloroethane      | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1,2,2-Tetrachloroethane      | ND                     | .005                     | ND                    | Q1V3321      |
| Tetrachloroethylene            | ND                     | .005                     | ND                    | Q1V3321      |
| Tetrahydrofuran                | ND                     | .005                     | ND                    | Q1V3321      |
| Toluene                        | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1,1-Trichloroethane          | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1,2-Trichloroethane          | ND                     | .005                     | ND                    | Q1V3321      |
| Trichloroethylene              | ND                     | .005                     | ND                    | Q1V3321      |
| 1,2-Trans-dichloroethylene     | ND                     | .005                     | ND                    | Q1V3321      |
| Trichlorofluoromethane         | ND                     | .005                     | ND                    | Q1V3321      |
| 1,2,3-Trichloropropane         | ND                     | .005                     | ND                    | Q1V3321      |
| 1,1,2-Trichlorotrifluoroethane | ND                     | .010                     | ND                    | Q1V3321      |
| Vinyl acetate                  | ND                     | .025                     | ND                    | Q1V3321      |
| Vinyl chloride                 | ND                     | .005                     | ND                    | Q1V3321      |
| Xylenes                        | ND                     | .005                     | ND                    | Q1V3321      |

**APPENDIX C**

**QUALITY ASSURANCE DATA**

## SUMMARY OF ANALYTICAL METHODOLOGY

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

## METHODOLOGY REFERENCES

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

## ASC Certifications

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

**Validated by:**

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

**Approvals:**

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

## REPORT KEY

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

**QUALITY ASSURANCE DATA**

**CONVENTIONAL DATA (CV10)**

| Compounds      | Blank Results | Blank Spike Recov | Unspiked Sample Results | Matrix Spike Recov | Relative Percent Diff | Batch Number |
|----------------|---------------|-------------------|-------------------------|--------------------|-----------------------|--------------|
| Cyanide, Total | ND            | 108               | ND                      | 107                | 6                     | Q1I3310      |
| Oil and Grease | ND            | 94                | -                       | -                  | -                     | Q1I3308      |

QUALITY ASSURANCE DATA

RCRA TOTAL METALS ANALYSIS, (ME50)

| Compounds | Blank Results<br>mg/L | Blank Spike<br>Recov | Unspiked<br>Sample<br>Results<br>mg/L | Matrix<br>Spike<br>Recov | Relative<br>Percent<br>Diff | Batch<br>Number |
|-----------|-----------------------|----------------------|---------------------------------------|--------------------------|-----------------------------|-----------------|
| Arsenic   | ND                    | 89                   | ND                                    | 94                       | 3                           | Q1M3862         |
| Barium    | ND                    | 96                   | .045                                  | 99                       | 3                           | Q1M3862         |
| Cadmium   | ND                    | 92                   | .006                                  | 92                       | 3                           | Q1M3862         |
| Chromium  | ND                    | 94                   | ND                                    | 95                       | 3                           | Q1M3862         |
| Lead      | ND                    | 90                   | .091                                  | 92                       | 6                           | Q1M3862         |
| Mercury   | ND                    | 93                   | ND                                    | 93                       | 5                           | Q1G3861         |
| Selenium  | ND                    | 89                   | ND                                    | 91                       | 3                           | Q1M3862         |
| Silver    | ND                    | 98                   | ND                                    | 95                       | 3                           | Q1M3862         |



QUALITY ASSURANCE DATA

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

| Compounds          | Blank Results<br>mg/L | Blank Spike<br>Recov | Unspiked<br>Sample<br>Results<br>mg/L | Matrix<br>Spike<br>Recov | Relative<br>Percent<br>Diff | Batch<br>Number |
|--------------------|-----------------------|----------------------|---------------------------------------|--------------------------|-----------------------------|-----------------|
| Aldrin             | ND                    | 69                   | -                                     | -                        | -                           | Q1P40183        |
| Alpha-BHC          | ND                    | 72                   | -                                     | -                        | -                           | Q1P40183        |
| Beta-BHC           | ND                    | 91                   | -                                     | -                        | -                           | Q1P40183        |
| Chlordane          | ND                    | 97                   | -                                     | -                        | -                           | Q1P40183        |
| 4,4'-DDD           | ND                    | 79                   | -                                     | -                        | -                           | Q1P40183        |
| 4,4'-DDE           | ND                    | 84                   | -                                     | -                        | -                           | Q1P40183        |
| 4,4'-DDT           | ND                    | 96                   | -                                     | -                        | -                           | Q1P40183        |
| Delta-BHC          | ND                    | 79                   | -                                     | -                        | -                           | Q1P40183        |
| Dieldrin           | ND                    | 84                   | -                                     | -                        | -                           | Q1P40183        |
| Endosulfan sulfate | ND                    | 74                   | -                                     | -                        | -                           | Q1P40183        |
| Endosulfan I       | ND                    | 89                   | -                                     | -                        | -                           | Q1P40183        |
| Endosulfan II      | ND                    | 89                   | -                                     | -                        | -                           | Q1P40183        |
| Endrin             | ND                    | 82                   | -                                     | -                        | -                           | Q1P40183        |
| Endrin aldehyde    | ND                    | 90                   | -                                     | -                        | -                           | Q1P40183        |
| Endrin ketone      | ND                    | 74                   | -                                     | -                        | -                           | Q1P40183        |
| Gamma-BHC          | ND                    | 70                   | -                                     | -                        | -                           | Q1P40183        |
| Heptachlor         | ND                    | 81                   | -                                     | -                        | -                           | Q1P40183        |
| Heptachlor epoxide | ND                    | 89                   | -                                     | -                        | -                           | Q1P40183        |
| Methoxychlor       | ND                    | 81                   | -                                     | -                        | -                           | Q1P40183        |

- There was insufficient sample available to complete our standard matrix spike and matrix spike duplicate analyses.

QUALITY ASSURANCE DATA

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

| Compounds                               | Blank Results<br>mg/L | Blank Spike<br>Recov | Unspiked<br>Sample<br>Results<br>mg/L | Matrix<br>Spike<br>Recov | Relative<br>Percent<br>Diff | Batch<br>Number |
|-----------------------------------------|-----------------------|----------------------|---------------------------------------|--------------------------|-----------------------------|-----------------|
| Acenaphthene                            | ND                    | 72                   | -                                     | -                        | -                           | Q1C40194        |
| Acenaphthylene                          | ND                    | 76                   | -                                     | -                        | -                           | Q1C40194        |
| Anthracene                              | ND                    | 76                   | -                                     | -                        | -                           | Q1C40194        |
| Benzoic acid                            | ND                    | 16                   | -                                     | -                        | -                           | Q1C40194        |
| Benzo(a)pyrene                          | ND                    | 72                   | -                                     | -                        | -                           | Q1C40194        |
| bis(2-Ethylhexyl)phthalate              | ND                    | 81                   | -                                     | -                        | -                           | Q1C40194        |
| 4-Bromophenyl phenyl ether              | ND                    | 80                   | -                                     | -                        | -                           | Q1C40194        |
| Butyl benzyl phthalate                  | ND                    | 66                   | -                                     | -                        | -                           | Q1C40194        |
| Carbazole                               | ND                    | 71                   | -                                     | -                        | -                           | Q1C40194        |
| 4-Chloroaniline                         | ND                    | 44                   | -                                     | -                        | -                           | Q1C40194        |
| p-Chloro-m-cresol                       | ND                    | 79                   | -                                     | -                        | -                           | Q1C40194        |
| 2-Chlorophenol                          | ND                    | 78                   | -                                     | -                        | -                           | Q1C40194        |
| 3-Chloropropionitrile                   | ND                    | -                    | -                                     | -                        | -                           | Q1C40194        |
| Chrysene                                | ND                    | 75                   | -                                     | -                        | -                           | Q1C40194        |
| Cyclohexanone                           | ND                    | 23                   | -                                     | -                        | -                           | Q1C40194        |
| Di-n-butyl phthalate                    | ND                    | 81                   | -                                     | -                        | -                           | Q1C40194        |
| 1,2-Dichlorobenzene                     | ND                    | 50                   | -                                     | -                        | -                           | Q1C40194        |
| 1,4-Dichlorobenzene                     | ND                    | 48                   | -                                     | -                        | -                           | Q1C40194        |
| 3,3'-Dichlorobenzidine                  | ND                    | 63                   | -                                     | -                        | -                           | Q1C40194        |
| 2,4-Dichlorophenol                      | ND                    | 66                   | -                                     | -                        | -                           | Q1C40194        |
| 2,4-Dinitrophenol                       | ND                    | 5                    | -                                     | -                        | -                           | Q1C40194        |
| 2,4-Dinitrotoluene                      | ND                    | 65                   | -                                     | -                        | -                           | Q1C40194        |
| 2-Ethoxyethanol                         | ND                    | -                    | -                                     | -                        | -                           | Q1C40194        |
| Hexachloroethane                        | ND                    | 31                   | -                                     | -                        | -                           | Q1C40194        |
| Isophorone                              | ND                    | 90                   | -                                     | -                        | -                           | Q1C40194        |
| 4,4'-Methylenebis(2-chloroani-<br>line) | ND                    | 62                   | -                                     | -                        | -                           | Q1C40194        |
| 2-Methylnaphthalene                     | ND                    | 66                   | -                                     | -                        | -                           | Q1C40194        |
| 2-Methylphenol                          | ND                    | 60                   | -                                     | -                        | -                           | Q1C40194        |
| N-Nitrosodi-n-propylamine               | ND                    | 109                  | -                                     | -                        | -                           | Q1C40194        |
| 4-Nitroaniline                          | ND                    | 72                   | -                                     | -                        | -                           | Q1C40194        |
| 4-Nitrophenol                           | ND                    | 34                   | -                                     | -                        | -                           | Q1C40194        |
| Pentachloronitrobenzene                 | ND                    | 77                   | -                                     | -                        | -                           | Q1C40194        |
| Pentachlorophenol                       | ND                    | 80                   | -                                     | -                        | -                           | Q1C40194        |
| Phenol                                  | ND                    | 44                   | -                                     | -                        | -                           | Q1C40194        |
| Pyrene                                  | ND                    | 75                   | -                                     | -                        | -                           | Q1C40194        |
| 2,3,4,6-Tetrachlorophenol               | ND                    | 64                   | -                                     | -                        | -                           | Q1C40194        |
| 1,2,4-Trichlorobenzene                  | ND                    | 49                   | -                                     | -                        | -                           | Q1C40194        |
| 2,4,5-Trichlorophenol                   | ND                    | 65                   | -                                     | -                        | -                           | Q1C40194        |
| 2,4,6-Trichlorophenol                   | ND                    | 71                   | -                                     | -                        | -                           | Q1C40194        |

3-Methyl- and 4-Methylphenol coelute and are reported as the total  
 - There was insufficient sample available to complete our standard  
 matrix spike and matrix spike duplicate analyses.

QUALITY ASSURANCE DATA

TOTAL VOLATILE ANALYSIS, MS, (MV00)

| Compounds                      | Blank Results<br>mg/L | Blank Spike<br>Recov | Unspiked<br>Sample<br>Results<br>mg/L | Matrix<br>Spike<br>Recov | Relative<br>Percent<br>Diff | Batch<br>Number |
|--------------------------------|-----------------------|----------------------|---------------------------------------|--------------------------|-----------------------------|-----------------|
| Acetone                        | ND                    | 89                   | ND                                    | 102                      | 23                          | Q1V3321         |
| Acrolein                       | ND                    | 82                   | ND                                    | 75                       | 4                           | Q1V3321         |
| Acrylonitrile                  | ND                    | 74                   | ND                                    | 87                       | 3                           | Q1V3321         |
| Benzene                        | ND                    | 81                   | ND                                    | 93                       | 10                          | Q1V3321         |
| Bromoform                      | ND                    | 81                   | ND                                    | 92                       | 9                           | Q1V3321         |
| Carbon disulfide               | ND                    | 82                   | ND                                    | 89                       | 3                           | Q1V3321         |
| Carbon tetrachloride           | ND                    | 84                   | ND                                    | 100                      | 20                          | Q1V3321         |
| Chlorobenzene                  | ND                    | 82                   | ND                                    | 87                       | 1                           | Q1V3321         |
| Chlorodibromomethane           | ND                    | 80                   | ND                                    | 89                       | 8                           | Q1V3321         |
| Chloroethane                   | ND                    | 90                   | ND                                    | 94                       | 8                           | Q1V3321         |
| Chloroform                     | ND                    | 84                   | ND                                    | 86                       | 3                           | Q1V3321         |
| 2-Chloroethylvinyl ether       | ND                    | 83                   | ND                                    | 89                       | 2                           | Q1V3321         |
| 3-Chloropropene                | ND                    | 80                   | ND                                    | 86                       | 2                           | Q1V3321         |
| 1,2-Dibromo-3-chloropropane    | ND                    | 83                   | ND                                    | 96                       | 6                           | Q1V3321         |
| Dichlorobromomethane           | ND                    | 79                   | ND                                    | 88                       | 8                           | Q1V3321         |
| Dichlorodifluoromethane        | ND                    | 83                   | ND                                    | 92                       | 6                           | Q1V3321         |
| 1,1-Dichloroethane             | ND                    | 84                   | ND                                    | 87                       | 2                           | Q1V3321         |
| 1,2-Dichloroethane             | ND                    | 79                   | ND                                    | 79                       | 12                          | Q1V3321         |
| 1,1-Dichloroethylene           | ND                    | 82                   | ND                                    | 89                       | 1                           | Q1V3321         |
| 1,2-Dichloropropane            | ND                    | 84                   | ND                                    | 91                       | 5                           | Q1V3321         |
| cis-1,3-Dichloropropylene      | ND                    | 74                   | ND                                    | 78                       | 1                           | Q1V3321         |
| trans-1,3-Dichloropropylene    | ND                    | 88                   | ND                                    | 92                       | 2                           | Q1V3321         |
| Dibromomethane                 | ND                    | 80                   | ND                                    | 81                       | 10                          | Q1V3321         |
| Ethylbenzene                   | ND                    | 83                   | ND                                    | 88                       | 1                           | Q1V3321         |
| Ethylene dibromide             | ND                    | 84                   | ND                                    | 92                       | 7                           | Q1V3321         |
| Ethyl acetate                  | ND                    | 73                   | ND                                    | 69                       | 16                          | Q1V3321         |
| Ethyl ether                    | ND                    | 81                   | ND                                    | 79                       | 7                           | Q1V3321         |
| 2-Hexanone                     | ND                    | 94                   | ND                                    | 90                       | 4                           | Q1V3321         |
| Iodomethane                    | ND                    | 82                   | ND                                    | 86                       | 1                           | Q1V3321         |
| Methyl bromide                 | ND                    | 93                   | ND                                    | 97                       | 8                           | Q1V3321         |
| Methyl chloride                | ND                    | 94                   | ND                                    | 104                      | 13                          | Q1V3321         |
| Methylene chloride             | ND                    | 83                   | ND                                    | 86                       | 2                           | Q1V3321         |
| Methyl ethyl ketone            | ND                    | 83                   | ND                                    | 99                       | 11                          | Q1V3321         |
| Methyl-iso-butyl ketone        | ND                    | 94                   | ND                                    | 104                      | 13                          | Q1V3321         |
| Styrene                        | ND                    | 85                   | ND                                    | 88                       | 3                           | Q1V3321         |
| 1,1,1,2-Tetrachloroethane      | ND                    | 82                   | ND                                    | 90                       | 2                           | Q1V3321         |
| 1,1,2,2-Tetrachloroethane      | ND                    | 85                   | ND                                    | 96                       | 5                           | Q1V3321         |
| Tetrachloroethylene            | ND                    | 81                   | ND                                    | 84                       | 1                           | Q1V3321         |
| Tetrahydrofuran                | ND                    | 74                   | ND                                    | 85                       | 14                          | Q1V3321         |
| Toluene                        | ND                    | 81                   | ND                                    | 84                       | 3                           | Q1V3321         |
| 1,1,1-Trichloroethane          | ND                    | 94                   | ND                                    | 108                      | 26                          | Q1V3321         |
| 1,1,2-Trichloroethane          | ND                    | 83                   | ND                                    | 89                       | 5                           | Q1V3321         |
| Trichloroethylene              | ND                    | 82                   | ND                                    | 88                       | 4                           | Q1V3321         |
| 1,2-Trans-dichloroethylene     | ND                    | 82                   | ND                                    | 88                       | 3                           | Q1V3321         |
| Trichlorofluoromethane         | ND                    | 85                   | ND                                    | 91                       | 4                           | Q1V3321         |
| 1,2,3-Trichloropropane         | ND                    | 82                   | ND                                    | 91                       | 4                           | Q1V3321         |
| 1,1,2-Trichlorotrifluoroethane | ND                    | 84                   | ND                                    | 89                       | 4                           | Q1V3321         |
| Vinyl acetate                  | ND                    | 81                   | ND                                    | 58                       | -                           | Q1V3321         |
| Vinyl chloride                 | ND                    | 82                   | ND                                    | 91                       | 7                           | Q1V3321         |
| Xylenes                        | ND                    | 84                   | ND                                    | 88                       | 2                           | Q1V3321         |

**QUALITY ASSURANCE DATA  
SURROGATE SUMMARY REPORT**

| SURROGATE ID                                                     | A159     | B732     | A121     | A884     | A158     | B142     | # OUT |
|------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|-------|
| <b>QC BATCH: Q1C40194 Aqueous (Semi-Volatile organics by MS)</b> |          |          |          |          |          |          |       |
| <b>SAMPLE ID</b>                                                 |          |          |          |          |          |          |       |
| BLANK                                                            | 50       | 36       | 77       | 71       | 73       | 87       | 0     |
| BLANK SPIKE                                                      | 56       | 42       | 86       | 82       | 70       | 82       | 0     |
| CLJ-DWW-01                                                       | 50       | 41       | 82       | 66       | 66       | 86       | 0     |
| <b>QC LIMITS</b>                                                 | (21-110) | (10-110) | (10-123) | (35-114) | (43-116) | (33-141) |       |

| SURROGATE ID                                                  | B816     | A500     | # OUT |
|---------------------------------------------------------------|----------|----------|-------|
| <b>QC BATCH: Q1P40183 Aqueous (Pesticide compounds by GC)</b> |          |          |       |
| <b>SAMPLE ID</b>                                              |          |          |       |
| BLANK                                                         | 58       | 45       | 0     |
| BLANK SPIKE                                                   | 64       | 53       | 0     |
| CLJ-DWW-01                                                    | 52       | 45       | 0     |
| <b>QC LIMITS</b>                                              | (37-116) | (14-147) |       |

| SURROGATE ID                                               | A047     | B185     | B668     | # OUT |
|------------------------------------------------------------|----------|----------|----------|-------|
| <b>QC BATCH: Q1V3321 Aqueous (Volatile organics by MS)</b> |          |          |          |       |
| <b>SAMPLE ID</b>                                           |          |          |          |       |
| BLANK                                                      | 86       | 99       | 99       | 0     |
| BLANK SPIKE                                                | 85       | 91       | 93       | 0     |
| CLJ-DWW-01                                                 | 87       | 93       | 90       | 0     |
| CLJ-DWW-01 MD                                              | 95       | 97       | 94       | 0     |
| CLJ-DWW-01 MS                                              | 83       | 91       | 94       | 0     |
| <b>QC LIMITS</b>                                           | (76-114) | (88-110) | (86-115) |       |

**SURROGATE ID**

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

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

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

**APPENDIX D**

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