2193.

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

July 31, 1991

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19032

RECEIVED
LEVINE-FRICKE

A

LABORATORY REPORT

Samples Received: Twenty-five (25) Soil Samples
Date Received: 7-17-91
Date Released for Analysis: 7-19-91
Purchase Order No: Proj#: 2193/Mobil-Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Twelve (12) soils	CAM (17) Metals by ICPMS	Data Sheets
One (1) soil	QC Summary for ICPMS	Data Sheets

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225

Client: Levine-Fricke Sample: RB-3-8
Job Number: 19032
Date Analyzed: 07-25-91 File: 9032 131

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1	0.3	150	500
Arsenic	11	2	50	500
Barium	190	0.07	1000	10000
Beryllium	0.98	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	38.7	0.5	5600/50	2500/500
Cobalt	18.9	0.02	800	8000
Copper	35.2	0.05	250	2500
Lead	10.4	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.53	0.05	3500	3500
Nickel	28.7	0.1	200	2000
Selenium	ND<3	3	10	100
Silver	ND<0.02	0.02	50	500
Thallium	0.15	0.02	70	700
Vanadium	63	4	240	2400
Zinc	64.4	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB-4-3
Job Number: 19032
Date Analyzed: 07-25-91 File: 9032 141

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.5	0.3	150	500
Arsenic	3	3	50	500
Barium	105	0.07	1000	10000
Beryllium	0.45	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	22.7	0.5	5600/50	2500/500
Cobalt	7.62	0.02	800	8000
Copper	13.6	0.05	250	2500
Lead	5.02	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.35	0.05	3500	3500
Nickel	17.2	0.1	200	2000
Selenium	ND<3	3	10	100
Silver	ND<0.02	0.02	50	500
Thallium	0.12	0.02	70	700
Vanadium	41	4	240	2400
Zinc	44.8	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: RB-4-8

File: 9032 151

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1	0.3	150	500
Arsenic	11	2	50	500
Barium	147	0.07	1000	10000
Beryllium	0.62	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	38.8	0.5	5600/50	2500/500
Cobalt	14.5	0.02	800	8000
Copper	33.7	0.05	250	2500
Lead	10.1	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.26	0.05	3500	3500
Nickel	23.8	0.2	200	2000
Selenium	ND<3	3	10	100
Silver	0.03	0.02	50	500
Thallium	0.18	0.02	70	700
Vanadium	55	4	240	2400
Zinc	57.8	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: RB-6-3

File: 9032 161

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.3	0.3	150	500
Arsenic	3	3	50	500
Barium	103	0.07	1000	10000
Beryllium	0.5	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	20.5	0.5	5600/50	2500/500
Cobalt	7.05	0.02	800	8000
Copper	15.1	0.05	250	2500
Lead	4.47	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.21	0.05	3500	3500
Nickel	15.6	0.1	200	2000
Selenium	ND<3	3	10	100
Silver	0.04	0.02	50	500
Thallium	0.1	0.02	70	700
Vanadium	36	5	240	2400
Zinc	45.5	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: RB-9-3

File: 9032 291

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	5.9	0.4	150	500
Arsenic	16	2	50	500
Barium	332	0.06	1000	10000
Beryllium	0.42	0.08	7.5	75
Cadmium	0.66	0.1	10	100
Chromium (III/VI)	61.8 *	0.5	5600/50	2500/500
Cobalt	12.4	0.02	800	8000
Copper	160	0.05	250	2500
Lead	180 *	0.04	50	1000
Mercury	0.9	0.2	2	20
Molybdenum	2.53	0.05	3500	3500
Nickel	42	0.2	200	2000
Selenium	4	3	10	100
Silver	0.13	0.02	50	500
Thallium	0.12	0.02	70	700
Vanadium	44	4	240	2400
Zinc	2300	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: RB-12-8

File: 9032 181

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.7	0.4	150	500
Arsenic	4	2	50	500
Barium	97.4	0.06	1000	10000
Beryllium	0.45	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	24.4	0.5	5600/50	2500/500
Cobalt	8.11	0.02	800	8000
Copper	18.5	0.05	250	2500
Lead	5.06	0.04	50	1000
Mercury	ND<0.2	0.2	2	20
Molybdenum	0.47	0.05	3500	3500
Nickel	16.8	0.1	200	2000
Selenium	ND<3	3	10	100
Silver	0.06	0.02	50	500
Thallium	0.09	0.02	70	700
Vanadium	39	5	240	2400
Zinc	50.5	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: SB-23-10

File: 9032 171

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.4	0.3	150	500
Arsenic	5	2	50	500
Barium	104	0.07	1000	10000
Beryllium	0.44	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	20.3	0.5	5600/50	2500/500
Cobalt	7.23	0.02	800	8000
Copper	15.6	0.05	250	2500
Lead	6.97	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.85	0.05	3500	3500
Nickel	15	0.1	200	2000
Selenium	ND<3	3	10	100
Silver	0.02	0.02	50	500
Thallium	0.11	0.02	70	700
Vanadium	38	5	240	2400
Zinc	44.6	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: SB-23-25

File: 9032 241

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1.5	0.3	150	500
Arsenic	11	3	50	500
Barium	138	0.07	1000	10000
Beryllium	0.72	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	39.5	0.5	5600/50	2500/500
Cobalt	10.4	0.02	800	8000
Copper	27.6	0.05	250	2500
Lead	5.69	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.32	0.05	3500	3500
Nickel	21.9	0.3	200	2000
Selenium	ND<3	3	10	100
Silver	0.06	0.02	50	500
Thallium	0.14	0.02	70	700
Vanadium	57	5	240	2400
Zinc	66.8	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: SB-24-15

File: 9032 251

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1	0.3	150	500
Arsenic	5	3	50	500
Barium	128	0.07	1000	10000
Beryllium	0.49	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	29	0.5	5600/50	2500/500
Cobalt	8.51	0.02	800	8000
Copper	21.7	0.05	250	2500
Lead	15.6	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	1.67	0.05	3500	3500
Nickel	18.2	0.2	200	2000
Selenium	ND<3	3	10	100
Silver	0.05	0.02	50	500
Thallium	0.2	0.02	70	700
Vanadium	42	5	240	2400
Zinc	84.2	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: SB-24-25

File: 9032 261

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.7	0.3	150	500
Arsenic	7	3	50	500
Barium	160	0.07	1000	10000
Beryllium	0.52	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	32.1	0.5	5600/50	2500/500
Cobalt	11	0.02	800	8000
Copper	26.5	0.05	250	2500
Lead	5.61	0.03	50	1000
Mercury	ND<0.10	0.1	2	20
Molybdenum	0.34	0.05	3500	3500
Nickel	20.5	0.3	200	2000
Selenium	ND<3	3	10	100
Silver	0.05	0.02	50	500
Thallium	0.17	0.02	70	700
Vanadium	48	6	240	2400
Zinc	66.3	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91

Sample: SB-25-5

File: 9032 271

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.6	0.4	150	500
Arsenic	4	3	50	500
Barium	86	0.06	1000	10000
Beryllium	0.4	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	19.9	0.5	5600/50	2500/500
Cobalt	7.56	0.02	800	8000
Copper	15.6	0.05	250	2500
Lead	4.3	0.04	50	1000
Mercury	ND<0.2	0.2	2	20
Molybdenum	0.35	0.05	3500	3500
Nickel	13.8	0.2	200	2000
Selenium	ND<3	3	10	100
Silver	0.03	0.02	50	500
Thallium	0.12	0.02	70	700
Vanadium	38	7	240	2400
Zinc	40.3	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: SB-25-15
Job Number: 19032
Date Analyzed: 07-25-91 File: 9032 281

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	ND<0.4	0.4	150	500
Arsenic	ND<2	2	50	500
Barium	90.2	0.06	1000	10000
Beryllium	0.23	0.08	7.5	75
Cadmium	ND<0.10	0.1	10	100
Chromium (III/VI)	21.3	0.5	5600/50	2500/500
Cobalt	6.76	0.02	800	8000
Copper	16.6	0.05	250	2500
Lead	3.58	0.04	50	1000
Mercury	ND<0.2	0.2	2	20
Molybdenum	0.14	0.05	3500	3500
Nickel	15.1	0.2	200	2000
Selenium	ND<3	3	10	100
Silver	0.04	0.02	50	500
Thallium	0.13	0.02	70	700
Vanadium	30	5	240	2400
Zinc	49.3	0.3	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91
Matrix: Soil

Sample: RB-12-8

C.A.M Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million (mg/Kg)

	Sample 9032 181	Duplicate 9032 191	RPD %	Spike Conc ppm	Spk Rslt 9032 201	% Recovery	Detect. Limit
Beryllium	0.45	0.46		20	22	107.7	0.08
Vanadium	39	37		20	60		6
Chromium	24.4	23.3	4.6	20	44.7		0.5
Cobalt	8.11	7.71	5.1	20	28.8	104.5	0.02
Nickel	16.8	15.5	8	20	36.7	102.8	0.1
Copper	18.5	17.8	3.9	20	37.8	98.3	0.05
Zinc	50.5	47.7	5.7	20	70.5		0.3
Arsenic	4	4		20	22	90	3
Selenium	ND<3	ND<3		20	17	85	3
Molybdenum	0.47	0.4		20	20.5	100.3	0.05
Silver	0.06	0.05		20	18.3	91.2	0.02
Cadmium	ND<0.10	ND<0.10		20	20.3	101.5	0.1
Antimony	0.7	0.5		20	16.3	78.5	0.4
Barium	97.4	91.9	5.8	20	115		0.06
Mercury	ND<0.2	ND<0.2		2	2.1	105	0.2
Thallium	0.09	0.12		20	20.7	103	0.02
Lead	5.06	4.86	4	20	27.2	111.2	0.04

Client: Levine-Fricke
Job Number: 19032
Date Analyzed: 07-25-91
Matrix: Soil

Sample: RB-12-8

C.A.M Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million (mg/Kg)

	Sample		MS		MSD		
	9032 181	Spike Conc ppm	9032 201	% Recovery	9032 211	% Recovery	RPD %
Beryllium	0.45	20	22	107.8	22.3	109.3	1.4
Vanadium	39	20	60		57		5.1
Chromium	24.4	20	44.7		42.8		4.3
Cobalt	8.11	20	28.8	103.5	28.3	101	1.8
Nickel	16.8	20	36.7	99.5	35	91	4.7
Copper	18.5	20	37.8	96.5	37	92.5	2.1
Zinc	50.5	20	70.5		65.4		7.5
Arsenic	4	20	22	90	23	95	4.4
Selenium	ND<3	20	17	85	17	85	0
Molybdenum	0.47	20	20.5	100.2	21.2	103.7	3.4
Silver	0.06	20	18.3	91.2	18.5	92.2	1.1
Cadmium	ND<0.10	20	20.3	101.5	20	100	1.5
Antimony	0.7	20	16.3	78	16.4	78.5	0.6
Barium	97.4	20	115		109		5.4
Mercury	ND<0.2	2	2.1	105	2.2	110	4.7
Thallium	0.09	20	20.7	103.1	20.6	102.6	0.5
Lead	5.06	20	27.2	110.7	26.7	108.2	1.9

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193	Field Logbook No.: –	Date: 7/17/91	Serial No.: № N- 0872
Project Name: MOBIL - JACK FEE	Project Location: SANTA FE SPRINGS		
Sampler (Signature) :			Samplers: SRA

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	CAM				HOLD	RUSH	REMARKS
RB - 3 - 3	7/17/91	1500		1	SOIL							X		
RB - 3 - 8	7/17/91	1510		1	SOIL			X				X		
RB - 4 - 3	7/17/91	1430		1	SOIL			X				X		
RB - 4 - 8	7/17/91	1440		1	SOIL			X				X		
RB - 6 - 3	7/17/91	1600		1	SOIL			X				X		
RB - 6 - 8	7/17/91	1615		1	SOIL							X		
RB - 9 - 3	7/17/91	1630		1	SOIL			X				X		
RB - 9 - 8	7/17/91	1640		1	SOIL							X		
RB - 12 - 3	7/17/91	1530		1	SOIL							X		
RB - 12 - 8	7/17/91	1540		1	SOIL			X				X		
														REVISED ANALYSIS REQUEST
														MADE ON 7/19/91 - SRA
														RESULTS TO: ANTHONY SILVA

RELINQUISHED BY: (Signature) [signature]	DATE 7/17/91	TIME 550	RECEIVED BY: (Signature) [signature] 19032	DATE 7-17-91	TIME 5:50
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Custodian:

LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193

Field Logbook No.: –

Date: 7/17/91

Serial No.: Nº N- 1017

Project Name: MOBIL - JALK FEE

Project Location: SANTA FE SPRINGS

Sampler (Signature): [signature]

Samplers: SRD

SAMPLES						ANALYSES								REMARKS
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	CAM				HOLD	RUSH	ANALYSIS SELECTION 7/19/91 — SRD
SB-23-5	7/17/91	0800		1	Soil							X		
SB-23-10	7/17/91	0810		1	Soil			X						
SB-23-15	7/17/91	0815		1	Soil							X		
SB-23-20	7/17/91	0830		1	Soil							X		
SB-23-25	7/17/91	0900		1	Soil			X						
SB-24-5	7/17/91	1045		1	Soil							X		
SB-24-10	7/17/91	1100		1	Soil							X		
SB-24-15	7/17/91	1115		1	Soil			X						
SB-24-20	7/17/91	1130		1	Soil							X		
SB-24-25	7/17/91	1145		1	Soil			X						
SB-25-5	7/17/91	0940		1	Soil			X						
SB-25-10	7/17/91	0950		1	Soil							X		
SB-25-15	7/17/91	1015		1	Soil			X						
SB-26-10	7/17/91	1255		1	Soil							X		
SB-26-15	7/17/91	1310		1	Soil							X		
														RESULTS TO: ANTHONY SILVA

RELINQUISHED BY: (Signature) [signature]	DATE 7/17/91	TIME 550	RECEIVED BY: (Signature) [signature] 19032	DATE 7-17-91	TIME 5:50
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193

Field Logbook No.: –

Date: 7/17/91

Serial No.: № N- 1017

Project Name: MOBIL - JALK FEE

Project Location: SANTA FE SPRINGS

Sampler (Signature): [signature]

Samplers: SPV

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624						HOLD	RUSH	REMARKS
✓ SB-23-5	7/17/91	0900		1	SOIL										
✓ SB-23-10	7/17/91	0810		1	SOIL										
✓ SB-23-15	7/17/91	0815		1	SOIL										
✓ SB-23-20	7/17/91	0830		1	SOIL										
✓ SB-23-25	7/17/91	0900		1	SOIL										
✓ SB-24-5	7/17/91	1045		1	SOIL										
✓ SB-24-10	7/17/91	1100		1	SOIL										
✓ SB-24-15	7/17/91	1115		1	SOIL										
✓ SB-24-20	7/17/91	1130		1	SOIL										
✓ SB-24-25	7/17/91	1145		1	SOIL										
✓ SB-25-5	7/17/91	0940		1	SOIL										
✓ SB-25-10	7/17/91	0950		1	SOIL										
✓ SB-25-15	7/17/91	1015		1	SOIL										
✓ SB-26-10	7/17/91	1235		1	SOIL										
✓ SB-26-15	7/17/91	1310		1	SOIL										
															RESULTS TO: [illegible]

RELINQUISHED BY (Signature): [signature]	DATE 7/17/91	TIME 550	RECEIVED BY: (Signature) [signature] 19012	DATE 7-17-91	TIME 5:50
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE-FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193

Field Logbook No.: –

Date: 7/17/91

Serial No.: № N- 0872

Project Name: Mobil - Jack Fee

Project Location: Santa Fe Springs

Sampler (Signature) :

Samplers: SRP

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
RB - 3 - 3	7/17/91	1500		1	Soil							X		
RB - 3 - 8	7/17/91	1510		1	Soil							X		
RB - 4 - 3	7/17/91	1430		1	Soil							X		
RB - 4 - 8	7/17/91	1440		1	Soil							X		
RB - 6 - 3	7/17/91	1600		1	Soil							X		
RB - 6 - 8	7/17/91	1615		1	Soil							X		
RB - 9 - 3	7/17/91	1630		1	Soil							X		
RB - 9 - 8	7/17/91	1640		1	Soil							X		
RB - 12 - 3	7/17/91	1530		1	Soil							X		
RB - 12 - 8	7/17/91	1540		1	Soil							X		
														Results to Richard Sieve

RELINQUISHED BY: (Signature)	DATE 7/17/91	TIME 550	RECEIVED BY: (Signature)	DATE 7-17-91	TIME 5:50
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: Picked on ice	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: West Coast Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193

Field Logbook No.: —

Date: 7/18/91

Serial No.: № N- 0881

Project Name: MOBIL - JACK FEE

Project Location: SANTA FE SPRINGS

Sampler (Signature): [signature]

Samplers: SAA

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
RB-1-3	7/18/91	1035		1	SOIL							X		
RB-1-8	7/18/91	1045		1	SOIL							X		
RB-2-3	7/18/91	0820		1	SOIL							X		
RB-2-8	7/18/91	0830		1	SOIL							X		
RB-5-3	7/18/91	0750		1	SOIL							X		
RB-5-8	7/18/91	0800		1	SOIL							X		
RB-7-3	7/18/91	1130		1	SOIL							X		
RB-7-8	7/18/91	1140		1	SOIL							X		
RB-8-3	7/18/91	1210		1	SOIL							X		
RB-8-8	7/18/91	1220		1	SOIL							X		
RB-10-3	7/18/91	1100		1	SOIL							X		
RB-10-8	7/18/91	1115		1	SOIL							X		
RB-11-3	7/18/91	0845		1	SOIL							X		
RB-11-8	7/18/91	1000		1	SOIL							X		
														RESULTS TO: ANTHONY SILVA

RELINQUISHED BY: (Signature) [signature]	DATE 7/18/91	TIME 445	RECEIVED BY: (Signature) [signature] 19041	DATE 7-18-91	TIME 4:45
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Delivered to: LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST [illegible]

2193

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

July 31, 1991

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19041

RECEIVED
AUG - 5 1991
LEVINE-FRICKE

A

LABORATORY REPORT

Samples Received: Twenty-four (24) Soil Samples
Date Received: 7-18-91
Date Released for Analysis: 7-19-91
Purchase Order No: Proj#: 2193/Mobil - Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Ten (10) soils	Total Petroleum Hydrocarbons by EPA 418.1	Table 1
Ten (10) soils	Fuel Hydrocarbons by Modified EPA 8015 (LUFT Manual, April 1989)	Table 2
Seven (7) soils	Volatile Organics by EPA 8260	Data Sheets
Seven (7) soils	Surrogate Percent Recoveries for EPA 8260	Data Sheet

Enclosures: 8015 Chromatograms

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE-FRICKE
Mr. Anthony Silva

Job # 19041
July 31, 1991

LABORATORY REPORT

Samples Analyzed	Analysis	Results
Ten (10) soils	CAM (17) Metals by ICPMS	Data Sheets
Three (3) soils	Aromatic Volatile Organics by EPA 8020	Data Sheets

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE-FRICKE
Mr. Anthony Silva

Job # 19041
July 31, 1991

LABORATORY REPORT

TABLE 1

Parts Per Million (mg/Kg)

Sample No.	Total Petroleum Hydrocarbons by EPA 418.1
SS-4	800
SS-5	420
SS-6	ND
SS-7	2100
SS-8	310
SS-9	30
SS-10	300
SS-11	1400
SS-12	1300
SS-13	140
Detection Limit	10

ND - Not Detected

Date Analyzed: 7-26-91

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE-FRICKE
Mr. Anthony Silva

Job # 19041
July 31, 1991

LABORATORY REPORT

TABLE 2

Parts Per Million (mg/Kg)

Fuel Hydrocarbons by Modified EPA 8015
(LUFT Manual, April 1989)

Sample No.	C_5-C_{10} Gasoline	C_7-C_{12} Mineral Spirits	C_7-C_{15} Kerosene	$C_{10}-C_{20}$ Diesel Fuel	$C_{20}-C_{30}$ Heavy Hydrocarbons
SS-4	ND	ND	ND	ND	800
SS-5	ND	ND	ND	ND	220
SS-6	ND	ND	ND	ND	ND
SS-7	ND	1200	ND	ND	3000
SS-8	ND	ND	ND	ND	600
SS-9	ND	ND	ND	ND	ND
SS-10	ND	ND	ND	ND	120
SS-11	220*	ND	ND	ND	4000
SS-12	ND	ND	ND	ND	31000
SS-13	ND	ND	ND	ND	ND
Detection Limit	10	10	10	10	100

ND - Not Detected

* Single-peak component; Identity unknown by Modified EPA 8015.

Date Analyzed: 7-25-91

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-4

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T8
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	5. B	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-4

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-5

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T11
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	5. B	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	8. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: SS-5
WCAS JOB #: 19041

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-6

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T12
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	5. B	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-6

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-7

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T13
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	91.	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	36.	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	41.	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	12.	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	960.	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-7

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	C9-C10 ALKYLBENZENES	VOA	900.
2	C7-C11 ALIPHATIC AND ALICYCLIC HYDROCARBONS	VOA	10000.
3	UNIDENTIFED COMPOUNDS	VOA	300.

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-8

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/22/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T5
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-2	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	5. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-8

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-9

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/22/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T6
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-2	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	6.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-9

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-13

DATE RECEIVED: 07/18/91
DATE EXTRACTED: 07/22/91
DATE ANALYZED: 07/23/91

RUN NUMBER: 19041T7
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-2	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	ND	30.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	30.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	1300.	5.
108-88-3	TOLUENE	ND	30.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	30.
		ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: SS-13

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: LAB BLANK

DATE RECEIVED: 07/23/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: VBLK860
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-2	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	ND	30.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	5.	5.
100-42-5	STYRENE	ND	30.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	30.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	30.
		ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: LAB BLANK

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: LAB BLANK

DATE RECEIVED: 07/23/91
DATE EXTRACTED: 07/23/91
DATE ANALYZED: 07/23/91

RUN NUMBER: VBLK863
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	6.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	ND	30.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	9.	5.
100-42-5	STYRENE	ND	30.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	30.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	30.
		ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19041

SAMPLE: LAB BLANK

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

VOLATILE SURROGATE PERCENT RECOVERY SUMMARY

INSTRUMENT : TRIO1
DATE ANALYZED: 07/22/91

FILENAME	SAMPLE ID	FLAG	1,2-DICHLORO-ETHANE-d4	TOLUENE-d8	BFB
VBLK860	LAB BLANK	S	99	95	95
19041T5	SS-8	S	101	94	92
19041T6	SS-9	S	97	94	92
19041T7	SS-13	S	98	95	92
DATE ANALYZED: 07/23/91					
VBLK863	LAB BLANK	S	113	92	86
19041T8	SS-4	S	106	93	88
19041T11	SS-5	S	103	93	91
19041T12	SS-6	S	101	95	95
19041T13	SS-7	S	99	111	105

O - OTHER S - SOIL W - WATER

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

B - Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-1-8

File: 9032 421

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	32.6	0.1	150	500
Arsenic	9	2	50	500
Barium	2700 *	0.2	1000	10000
Beryllium	0.54	0.07	7.5	75
Cadmium	11.8 *	0.05	10	100
Chromium (III/VI)	52.9 *	0.5	5600/50	2500/500
Cobalt	12.7	0.02	800	8000
Copper	627 *	0.1	250	2500
Lead	1750 ****	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	1.18	0.03	3500	3500
Nickel	32	1	200	2000
Selenium	10	2	10	100
Silver	0.47	0.02	50	500
Thallium	0.06	0.02	70	700
Vanadium	32	1	240	2400
Zinc	10000 ****	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-2-3

File: 9032 311

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	2.8	0.1	150	500
Arsenic	4	2	50	500
Barium	135	0.2	1000	10000
Beryllium	0.43	0.07	7.5	75
Cadmium	0.94	0.05	10	100
Chromium (III/VI)	23.6	0.5	5600/50	2500/500
Cobalt	7.39	0.02	800	8000
Copper	30.5	0.1	250	2500
Lead	530 *	0.1	50	1000
Mercury	2.82 *	0.09	2	20
Molybdenum	0.35	0.03	3500	3500
Nickel	15.2	0.2	200	2000
Selenium	3	2	10	100
Silver	0.07	0.02	50	500
Thallium	0.13	0.02	70	700
Vanadium	39	4	240	2400
Zinc	216	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-2-8

File: 9032 391

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	2.6	0.1	150	500
Arsenic	4	2	50	500
Barium	824	0.2	1000	10000
Beryllium	0.69	0.07	7.5	75
Cadmium	1.43	0.05	10	100
Chromium (III/VI)	29.9	0.5	5600/50	2500/500
Cobalt	8.78	0.02	800	8000
Copper	142	0.1	250	2500
Lead	150 *	0.1	50	1000
Mercury	0.2	0.09	2	20
Molybdenum	0.41	0.03	3500	3500
Nickel	29.6	0.3	200	2000
Selenium	ND<2	2	10	100
Silver	0.2	0.02	50	500
Thallium	0.16	0.02	70	700
Vanadium	42	5	240	2400
Zinc	956	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-5-3

File: 9032 411

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	5.3	0.1	150	500
Arsenic	19	2	50	500
Barium	610	0.2	1000	10000
Beryllium	0.41	0.07	7.5	75
Cadmium	3.19	0.05	10	100
Chromium (III/VI)	30.9	0.5	5600/50	2500/500
Cobalt	9.36	0.02	800	8000
Copper	112	0.1	250	2500
Lead	450 *	0.1	50	1000
Mercury	3.11 *	0.09	2	20
Molybdenum	1.45	0.03	3500	3500
Nickel	24.2	0.5	200	2000
Selenium	2	2	10	100
Silver	0.2	0.02	50	500
Thallium	0.14	0.02	70	700
Vanadium	43	5	240	2400
Zinc	1220	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-7-3

File: 9032 361

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1.6	0.1	150	500
Arsenic	5	2	50	500
Barium	199	0.2	1000	10000
Beryllium	0.59	0.07	7.5	75
Cadmium	0.09	0.05	10	100
Chromium (III/VI)	24	0.5	5600/50	2500/500
Cobalt	7.79	0.02	800	8000
Copper	21.3	0.1	250	2500
Lead	15.6	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	0.56	0.03	3500	3500
Nickel	17.1	0.1	200	2000
Selenium	ND<2	2	10	100
Silver	0.08	0.02	50	500
Thallium	0.08	0.02	70	700
Vanadium	44	6	240	2400
Zinc	94	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19041
Date Analyzed: 07-25-91

Sample: RB-8-3

File: 9032 371

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1	0.1	150	500
Arsenic	5	1	50	500
Barium	109	0.2	1000	10000
Beryllium	0.59	0.07	7.5	75
Cadmium	0.09	0.05	10	100
Chromium (III/VI)	25.9	0.5	5600/50	2500/500
Cobalt	9.22	0.02	800	8000
Copper	17.6	0.1	250	2500
Lead	6.9	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	0.43	0.03	3500	3500
Nickel	17.9	0.1	200	2000
Selenium	ND<2	2	10	100
Silver	0.04	0.02	50	500
Thallium	0.15	0.02	70	700
Vanadium	49	3	240	2400
Zinc	59	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB-8-8
Job Number: 19041
Date Analyzed: 07-25-91 File: 9032 381

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1.2	0.1	150	500
Arsenic	8	2	50	500
Barium	113	0.2	1000	10000
Beryllium	0.64	0.07	7.5	75
Cadmium	ND<0.05	0.05	10	100
Chromium (III/VI)	33.2	0.5	5600/50	2500/500
Cobalt	13	0.02	800	8000
Copper	28.4	0.1	250	2500
Lead	8.2	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	0.19	0.03	3500	3500
Nickel	20.2	0.1	200	2000
Selenium	ND<2	2	10	100
Silver	ND<0.02	0.02	50	500
Thallium	0.13	0.02	70	700
Vanadium	56	5	240	2400
Zinc	57	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB-10-3
Job Number: 19041
Date Analyzed: 07-25-91 File: 9032 321

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	1.2	0.1	150	500
Arsenic	8	2	50	500
Barium	121	0.2	1000	10000
Beryllium	0.41	0.07	7.5	75
Cadmium	0.19	0.05	10	100
Chromium (III/VI)	23.6	0.5	5600/50	2500/500
Cobalt	8.68	0.02	800	8000
Copper	21.5	0.1	250	2500
Lead	27	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	0.56	0.03	3500	3500
Nickel	16.9	0.1	200	2000
Selenium	2	2	10	100
Silver	0.02	0.02	50	500
Thallium	0.14	0.02	70	700
Vanadium	44	5	240	2400
Zinc	334	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB-10-8
Job Number: 19041
Date Analyzed: 07-25-91 File: 9032 331

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	0.9	0.1	150	500
Arsenic	4	1	50	500
Barium	109	0.2	1000	10000
Beryllium	0.28	0.07	7.5	75
Cadmium	0.17	0.05	10	100
Chromium (III/VI)	26.1	0.5	5600/50	2500/500
Cobalt	7.53	0.02	800	8000
Copper	36.7	0.1	250	2500
Lead	31.5	0.1	50	1000
Mercury	ND<0.09	0.09	2	20
Molybdenum	0.78	0.03	3500	3500
Nickel	34.3	0.5	200	2000
Selenium	ND<2	2	10	100
Silver	ND<0.02	0.02	50	500
Thallium	0.12	0.02	70	700
Vanadium	39	3	240	2400
Zinc	162	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB-11-8
Job Number: 19041
Date Analyzed: 07-25-91 File: 9032 401

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	6.1	0.1	150	500
Arsenic	5	1	50	500
Barium	460	0.2	1000	10000
Beryllium	0.39	0.07	7.5	75
Cadmium	1.55	0.05	10	100
Chromium (III/VI)	32.2	0.5	5600/50	2500/500
Cobalt	7.9	0.02	800	8000
Copper	1500 *	0.1	250	2500
Lead	344 *	0.1	50	1000
Mercury	10.1 *	0.09	2	20
Molybdenum	0.8	0.03	3500	3500
Nickel	16.6	0.4	200	2000
Selenium	3	2	10	100
Silver	0.2	0.02	50	500
Thallium	0.11	0.02	70	700
Vanadium	35	3	240	2400
Zinc	1000	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: LEVINE-FRICKE
Job No: 19041
Date Analyzed: 24-Jul-91
Analysis: EPA 602 (8020)
Inst. # : GC #5

Sample: LAB BLANK
Matrix: Soil
Samp Amt: 1 gm
Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Total Xylenes	ND	1

Surrogate Percent Recovery: 100

ND-Not Detected. The limit of detection is reported above.

B-Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

Client: LEVINE-FRICKE
Job No: 19041
Date Analyzed: 24-Jul-91
Analysis: EPA 602 (8020)
Inst. # : GC #5

Sample: SS-10
Matrix: Soil
Samp Amt: 1 gm
Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Total Xylenes	ND	1

Surrogate Percent Recovery: 104

ND-Not Detected. The limit of detection is reported above.

B-Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

Client: LEVINE-FRICKE
Job No: 19041
Date Analyzed: 24-Jul-91
Analysis: EPA 602 (8020)
Inst. # : GC #5

Sample: SS-11
Matrix: Soil
Samp Amt: 1 gm
Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Total Xylenes	ND	1

Surrogate Percent Recovery: 86

ND-Not Detected. The limit of detection is reported above.

B-Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

Client: LEVINE-FRICKE
Job No: 19041
Date Analyzed: 24-Jul-91
Analysis: EPA 602 (8020)
Inst. # : GC #5

Sample: SS-12
Matrix: Soil
Samp Amt: 1 gm
Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Total Xylenes	ND	1

Surrogate Percent Recovery: 69

ND-Not Detected. The limit of detection is reported above.

B-Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193	Field Logbook No.:	Date:	Serial No.: № N- 0878
Project Name: MOBIL - SOLK FEE	Project Location: SANTA FE SPRINGS		
Sampler (Signature): Scott R. [illegible]			Samplers: [illegible]

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	418.1	8015-MOD	8260	8020	HOLD	RUSH	REMARKS
SS - 4	7/18/91	1420		1	Soil			X	X	X		X		
SS - 5	7/18/91	1430		1	Soil			X	X	X		X		
SS - 6	7/18/91	1440		1	Soil			X	X	X		X		
SS - 7	7/18/91	1450		1	Soil			X	X	X		X		
SS - 8	7/18/91	1500		1	Soil			X	X	X		X		
SS - 9	7/18/91	1510		1	Soil			X	X	X		X		
SS - 10	7/18/91	1330		1	Soil			X	X		X	X		8020 REQUEST 7/24/91 - SPA
SS - 11	7/18/91	0950		1	Soil			X	X		X	X		8020 REQUEST 7/24/91 - SPA
SS - 12	7/18/91	1340		1	Soil			X	X		X	X		8020 REQUEST 7/24/91 - SPA
SS - 13	7/18/91	1350		1	Soil			X	X	X		X		
														RESULTS TO: ANTHONY SILVA
														ANALYSIS REQUEST MADE ON 7/15/91 - SPA

RELINQUISHED BY: (Signature) Scott R. [illegible]	DATE 7/18/91	TIME 4:45	RECEIVED BY: (Signature) [illegible] 19041	DATE 7-18-91	TIME 4:45
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193	Field Logbook No.:	Date: 7/19/91	Serial No.: № N- 0878
Project Name: MOBIL - SOLK FEE	Project Location: SANTA FE SPRINGS		
Sampler (Signature): Scott [illegible]			

SAMPLES						ANALYSES								Samplers: [illegible]
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	418.1	8015-MOD	8260	8020	HOLD	RUSH	REMARKS
SS - 4	7/18/91	1420		1	Soil			X	X	X		X		
SS - 5	7/18/91	1430		1	Soil			X	X	X		X		
SS - 6	7/18/91	1440		1	Soil			X	X	X		X		
SS - 7	7/18/91	1450		1	Soil			X	X	X		X		
SS - 8	7/18/91	1500		1	Soil			X	X	X		X		
SS - 9	7/18/91	1510		1	Soil			X	X	X		X		
SS - 10	7/18/91	1330		1	Soil			X	X		X	X		8020 REQUEST 7/22/91 - SAA
SS - 11	7/18/91	0950		1	Soil			X	X		X	X		8020 REQUEST 7/22/91 - SAA
SS - 12	7/18/91	1340		1	Soil			X	X		X	X		8020 REQUEST 7/22/91 - SAA
SS - 13	7/18/91	1350		1	Soil			X	X	X		X		
														RESULTS TO: DITNEY SILVA
														ANALYSIS REQUEST MADE ON 7/15/91 - SAA

RELINQUISHED BY: (Signature) Scott [illegible]	DATE 7/18/91	TIME 445	RECEIVED BY: (Signature) [illegible] Northington 19041	DATE 7-18-91	TIME 445
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. R6/COC/ARF

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 273	Field Logbook No.:	Date: 7/18/91	Serial No.: Nº N- 0878
Project Name: Mobil - Jack Fee	Project Location: Santa Fe Springs		
Sampler (Signature): Scott [illegible]			Samplers:

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
SS - 4	7/18/91	1420		1	Soil							X		
SS - 5	7/18/91	1430		1	Soil							X		
SS - 6	7/18/91	1440		1	Soil							X		
SS - 7	7/18/91	1450		1	Soil							X		
SS - 8	7/18/91	1300		1	Soil							X		
SS - 9	7/18/91	1310		1	Soil							X		
SS - 10	7/18/91	1330		1	Soil							X		
SS - 11	7/18/91	0950		1	Soil							X		
SS - 12	7/18/91	1340		1	Soil							X		
SS - 13	7/18/91	1350		1	Soil							X		
														Results to [illegible]

RELINQUISHED BY: (Signature) Scott [illegible]	DATE 7/18/91	TIME 745	RECEIVED BY: (Signature) De Northington 19041	DATE 7-18-91	TIME 745
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: Packed on ice	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE/FRICKE
1920 Main St., Ste [illegible]
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: West Coast Analytical

2193

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

August 5, 1991

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19049

RECEIVED LEVINE-FRICKE

A

LABORATORY REPORT

Samples Received: Eight (8) soils
Date Received: 7-19-91
Purchase Order No: Proj#: 2193/Mobil - Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Eight (8) soils	Total Petroleum Hydrocarbons by EPA 418.1	Table 1
Eight (8) soils	Fuel Hydrocarbons by Modified EPA 8015 (LUFT Manual, April 1989)	Table 2
Eight (8) soils	Volatile Organics by EPA 8260	Data Sheets
Eight (8) soils	Surrogate Percent Recoveries for EPA 8260	Data Sheet

Enclosures: 8015 Chromatograms

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213 948-2225

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE FRICKE
Mr. Anthony Silva

Job # 19049
August 5, 1991

LABORATORY REPORT

TABLE 1

Parts Per Million (mg/Kg)

Sample No.	Total Petroleum Hydrocarbons by EPA 418.1
SS-1	2000
SS-2	1100
SS-3	15000
T9A-1a	3600
T9A-1b	29
T9B-1	ND
T9A-2	ND
T9A-3	ND
Detection Limit	10

ND - Not Detected
Date Analyzed: 7-26-91

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE FRICKE
Mr. Anthony Silva

Job # 19049
August 5, 1991

LABORATORY REPORT

TABLE 2

Parts Per Million (mg/Kg)

Fuel Hydrocarbons by Modified EPA 8015
(LUFT Manual, April 1989)

Sample ID	C_5-C_{10} Gasoline	C_7-C_{12} Mineral Spirits	C_7-C_{15} Kerosene	C_{10}-C_{20} Diesel Fuel	C_{20}-C_{30} Heavy Hydrocarbons
SS-1	ND	ND	ND	520	200
SS-2	ND	ND	ND	ND	280
SS-3	ND	ND	ND	9500*	3900
T9A-1a	4300	ND	ND	890	340
T9A-1b	ND	ND	ND	ND	ND
T9B-1	ND	ND	ND	ND	ND
T9A-2	ND	ND	ND	ND	ND
T9A-3	ND	ND	ND	ND	ND
Detection Limit	10	10	10	10	100

ND - Not Detected

*-Identity Uncertain; Possibly Weathered Diesel Fuel.
Date Analyzed: 7-24-91

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: SS-1

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/31/91
DATE ANALYZED: 07/31/91

RUN NUMBER: 19049T17
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	9.	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	8. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	37.	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: SS-1
WCAS JOB #: 19049

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: SS-2

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/24/91
DATE ANALYZED: 07/24/91

RUN NUMBER: 19049T6
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	8. B	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	14. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: SS-2
WCAS JOB #: 19049

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: SS-3

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/26/91
DATE ANALYZED: 07/26/91

RUN NUMBER: 19049T12
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	15.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	8. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: SS-3
WCAS JOB #: 19049

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-2

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/30/91
DATE ANALYZED: 07/30/91

RUN NUMBER: 19049T16
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-2

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-3

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/26/91
DATE ANALYZED: 07/26/91

RUN NUMBER: 19049T13
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	17.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	24. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-3

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	C10-C12 ALIPHATIC AND ALICYCLIC HYDROCARBONS	VOA	400.

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-1a

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/24/91
DATE ANALYZED: 07/24/91

RUN NUMBER: 19049T1
SAMPLE AMOUNT: 10G:10ML,5UL
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5000.
71-43-2	BENZENE	9300.		1000.
75-27-4	BROMODICHLOROMETHANE	ND		1000.
75-25-2	BROMOFORM	ND		1000.
74-83-9	BROMOMETHANE	ND		5000.
78-93-3	2-BUTANONE (MEK)	ND		5000.
75-15-0	CARBON DISULFIDE	5500.	B	1000.
56-23-5	CARBON TETRACHLORIDE	ND		1000.
108-90-7	CHLOROBENZENE	ND		1000.
75-00-3	CHLOROETHANE	ND		5000.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND		10000.
67-66-3	CHLOROFORM	ND		1000.
74-87-3	CHLOROMETHANE	ND		5000.
108-41-8	CHLOROTOLUENE	ND		1000.
124-48-1	DIBROMOCHLOROMETHANE	ND		1000.
95-50-1	1,2-DICHLOROBENZENE	ND		1000.
541-73-1	1,3-DICHLOROBENZENE	ND		1000.
106-46-7	1,4-DICHLOROBENZENE	ND		1000.
75-34-3	1,1-DICHLOROETHANE	ND		1000.
107-06-2	1,2-DICHLOROETHANE	ND		1000.
75-35-4	1,1-DICHLOROETHYLENE	ND		1000.
156-59-4	CIS-1,2-DICHLOROETHYLENE	7900.		1000.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1000.
78-87-5	1,2-DICHLOROPROPANE	ND		1000.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1000.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1000.
100-41-4	ETHYLBENZENE	1500.		1000.
106-93-4	ETHYLENE DIBROMIDE	ND		1000.
76-13-1	FREON-TF	ND		1000.
119-78-6	2-HEXANONE	ND		5000.
75-09-2	METHYLENE CHLORIDE	3600.	B	1000.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5000.
100-42-5	STYRENE	ND		1000.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1000.
127-18-4	TETRACHLOROETHYLENE	2500000.		1000.
109-99-9	TETRAHYDROFURAN	ND		5000.
108-88-3	TOLUENE	3500.		1000.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1000.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1000.
79-01-6	TRICHLOROETHYLENE	10000.		1000.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1000.
108-05-4	VINYL ACETATE	ND		5000.
75-01-4	VINYL CHLORIDE	ND		5000.
95-47-6	TOTAL XYLENES	10000.		1000.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-1a

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	C9-C10 ALKYLBENZENES	VOA	10000.
2	C6-C11 ALIPHATIC AND ALICYCLIC HYDROCARBONS	VOA	200000.

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-1b

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/24/91
DATE ANALYZED: 07/24/91

RUN NUMBER: 19049T8
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	9. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	320.	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9A-1b

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: T9B-1

DATE RECEIVED: 07/19/91
DATE EXTRACTED: 07/26/91
DATE ANALYZED: 07/26/91

RUN NUMBER: 19049T14
SAMPLE AMOUNT: 1.0G
MATRIX: SOIL

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	14.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: T9B-1
WCAS JOB #: 19049

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

DATE RECEIVED: 07/24/91
DATE EXTRACTED: 07/24/91
DATE ANALYZED: 07/24/91

RUN NUMBER: VBLK864
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	29.	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	9.	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

DATE RECEIVED: 07/26/91
DATE EXTRACTED: 07/26/91
DATE ANALYZED: 07/26/91

RUN NUMBER: VBLK867
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	7.	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE SAMPLE: LAB BLANK
WCAS JOB #: 19049

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

DATE RECEIVED: 07/30/91
DATE EXTRACTED: 07/30/91
DATE ANALYZED: 07/30/91

RUN NUMBER: VBLK868
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

DATE RECEIVED: 07/31/91
DATE EXTRACTED: 07/31/91
DATE ANALYZED: 07/31/91

RUN NUMBER: VBLK870
SAMPLE AMOUNT: BASED ON 1.0G
MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8260)

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	47.	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	15.	5.
+08-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19049

SAMPLE: LAB BLANK

UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

VOLATILE SURROGATE PERCENT RECOVERY SUMMARY

INSTRUMENT : TRIO1
DATE ANALYZED: 07/24/91

FILENAME	SAMPLE ID	FLAG	1,2-DICHLORO-ETHANE-d4	TOLUENE-d8	BFB
VBLK864	LAB BLANK	S	101	95	96
19049T1	T9A-1a	S	103	103	106
19049T6	SS-2	S	99	92	96
19049T8	T9A-1b	S	100	91	96
DATE ANALYZED: 07/26/91					
VBLK867	LAB BLANK	S	104	101	102
19049T12	SS-3	S	105	97	102
19049T13	T9A-3	S	100	96	99
19049T14	T9B-1	S	101	102	104
DATE ANALYZED: 07/30/91					
VBLK868	LAB BLANK	W	87	84	87
19049T16	T9A-2	S	89	85	89
DATE ANALYZED: 07/31/91					
VBLK870	LAB BLANK	W	104	91	93
19049T17	SS-1	S	96	91	93

O - OTHER S - SOIL W - WATER

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

B - Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.:

Field Logbook No.:

Date:

Serial No.: Nº N- 0871

Project Name:

Project Location:

Sampler (Signature):

Samplers:

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				
				1				✓	✓	✓				

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature) C. Mattingson	DATE 7-19-91	TIME 2:30
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature) b19049	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARC

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.:	Field Logbook No.:	Date:	Serial No.: Nº N-
Project Name:	Project Location:		
Sampler (Signature) :			Samplers:

SAMPLES						ANALYSES									
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE		EPA 601	EPA 624					HOLD	RUSH	REMARKS

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature) b 19049	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
4019 Westerly Place, Suite 103
Newport Beach, California 92660
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193
Field Logbook No.: –
Date: 7/19/91
Serial No.: № N- 0871
Project Name: MOBIL - JACK FEE
Project Location: SANTA FE SPRINGS
Sampler (Signature): Scott A Armstrong
Samplers: Sam

SAMPLES					ANALYSES									
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	418.1	8015-MOD	8260		HOLD	RUSH	REMARKS
SS-1	7/19/91	0810		1	Soil			X	X	X				
SS-2	7/19/91	1305		1	Soil			X	X	X				
SS-3	7/19/91	1320		1	Soil			X	X	X				
T9A-1a	7/19/91	1120		1	Soil			X	X	X				
T9A-1B	7/19/91	1130		1	Soil			X	X	X				
T9B-1	7/19/91	1145		1	Soil			X	X	X				
T9A-2	7/19/91	1200		1	Soil			X	X	X				
T9A-3	7/19/91	1230		1	Soil			X	X	X				
														RESULTS TO ANTHONY SILVA

RELINQUISHED BY: (Signature) Scott A Armstrong	DATE 7/19/91	TIME 2:25	RECEIVED BY: (Signature) Joe Northington	DATE 7-19-91	TIME 2:30
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature) B19049	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

2193

WCAS
WEST COAST ANALYTICAL SERVICE, INC.
ANALYTICAL CHEMISTS

August 27, 1991

RECEIVED AUG 29 1991 LEVINE-FRICKE

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19271 A

LABORATORY REPORT

Samples Received: Ten (10) Soils from Previous WCAS Jobs 19041 and 19032
Date Received: 8-21-91
Purchase Order No: Proj#: 2193/Mobil-Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Six (6) soils	Selected Soluble Metals in WET Leachate Solution by ICPMS	Table 1
Four (4) soils	CAM (17) Metals by ICPMS	Data Sheets

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE FRICKE
Mr. Anthony Silva

Job # 19271
August 27, 1991

LABORATORY REPORT

TABLE 1

Parts Per Million (mg/L)

Soluble Metals in W.E.T. Leachate
Solution by ICPMS

Sample ID	Copper	Lead	Mercury
RB1-8	1.8	12****	NA
RB2-3	NA	0.54	NA
RB2-8	NA	0.58	NA
RB5-3	NA	11****	ND
RB9-3	NA	0.33	NA
RB11-8	4.0	2.3	ND
Detection Limit	0.005	0.001	0.008
**** Exceeds STLC Limit	25	5	0.2

ND- Not Detected

NA-Not Analyzed

Date Analyzed: 8-23-91

Client: Levine-Fricke Sample: RB1-3
Job Number: 19271
Date Analyzed: 8-23-91 File: 9264
231

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	16	1	150	500
Arsenic	14	2	50	500
Barium	1440 *	0.3	1000	10000
Beryllium	0.57	0.04	7.5	75
Cadmium	5.88	0.04	10	100
Chromium (III/VI)	46.3	0.5	5600/50	2500/500
Cobalt	9.23	0.02	800	8000
Copper	440 *	0.1	250	2500
Lead	1090 ****	0.07	50	1000
Mercury	ND<0.08	0.08	2	20
Molybdenum	1.5	0.1	3500	3500
Nickel	21	2	200	2000
Selenium	1.4	0.6	10	100
Silver	0.38	0.02	50	500
Thallium	0.11	0.02	70	700
Vanadium	45.2	0.8	240	2400
Zinc	5490 ****	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19271
Date Analyzed: 8-23-91

Sample: RB5-8

File: 9264
241

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	9	1	150	500
Arsenic	89 *	2	50	500
Barium	585	0.3	1000	10000
Beryllium	0.51	0.04	7.5	75
Cadmium	3.32	0.04	10	100
Chromium (III/VI)	89.8 *	0.5	5600/50	2500/500
Cobalt	11.1	0.02	800	8000
Copper	71.5	0.1	250	2500
Lead	692 *	0.07	50	1000
Mercury	34.1 ****	0.08	2	20
Molybdenum	1	0.1	3500	3500
Nickel	58.4	0.4	200	2000
Selenium	3.5	0.6	10	100
Silver	0.17	0.02	50	500
Thallium	0.14	0.02	70	700
Vanadium	42	3	240	2400
Zinc	1720	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB9-8
Job Number: 19271
Date Analyzed: 8-23-91 File: 9264
251

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	10	1	150	500
Arsenic	12	2	50	500
Barium	695	0.3	1000	10000
Beryllium	0.52	0.04	7.5	75
Cadmium	4.3	0.04	10	100
Chromium (III/VI)	57.5 *	0.5	5600/50	2500/500
Cobalt	11.4	0.02	800	8000
Copper	130	0.1	250	2500
Lead	1150 ****	0.07	50	1000
Mercury	2.49 *	0.08	2	20
Molybdenum	2.3	0.1	3500	3500
Nickel	33.7	0.5	200	2000
Selenium	7.4	0.6	10	100
Silver	0.26	0.02	50	500
Thallium	0.11	0.02	70	700
Vanadium	46	2	240	2400
Zinc	1880	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke Sample: RB11-3
Job Number: 19271
Date Analyzed: 8-23-91 File: 9264 261

C.A.M. Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry
Total Metals Concentration---Parts Per Million

**** Exceeds TTLC limits * May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	2	1	150	500
Arsenic	4	3	50	500
Barium	99.2	0.3	1000	10000
Beryllium	0.57	0.04	7.5	75
Cadmium	0.09	0.04	10	100
Chromium (III/VI)	22.9	0.5	5600/50	2500/500
Cobalt	7.9	0.02	800	8000
Copper	17.1	0.1	250	2500
Lead	10.3	0.07	50	1000
Mercury	ND<0.08	0.08	2	20
Molybdenum	0.3	0.1	3500	3500
Nickel	15.3	0.2	200	2000
Selenium	ND<0.6	0.6	10	100
Silver	ND<0.02	0.02	50	500
Thallium	0.12	0.02	70	700
Vanadium	41	5	240	2400
Zinc	58	1	2500	5000

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium in sample.
(3) 10X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Levine-Fricke
Job Number: 19271
Date Analyzed: 08-22-91

Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million

	Sample 9239 361	Spike Conc ppm	MS 9239 381	% Recovery	MSD 9239 391	% Recovery	RPD %
Beryllium	ND<0.4	35.5	38.3	107.9	38.8	109.3	1.
Vanadium	33	35.5	73	112.7	74	115.5	1.
Chromium	17.6	35.5	55.3	106.2	55.6	107	0.
Cobalt	4.52	35.5	41.1	103	41	102.8	0.
Nickel	9.7	35.5	46.9	104.8	45.7	101.4	2.
Copper	5.7	35.5	42.8	104.5	41.5	100.8	3.
Zinc	39	35.5	78		80		2.
Arsenic	4	35.5	43	109.9	48	123.9	1
Selenium	ND<2	35.5	34	95.8	39	109.9	13.
Molybdenum	0.5	35.5	36.9	102.5	38.7	107.6	4.
Silver	ND<0.04	35.5	33.8	95.2	33.8	95.2	
Cadmium	0.3	35.5	37.4	104.5	37.1	103.7	0.
Antimony	ND<0.4	35.5	39.7	111.8	40.5	114.1	
Barium	126	35.5	172		193		11.
Mercury	ND<0.3	3.55	3.8	107	3.8	107	
Thallium	0.13	35.5	33.9	95.1	35.4	99.4	4.
Lead	5.1	35.5	41.5	102.5	43.2	107.3	

CHAIN OF CUSTODY RECORD

Client Name: Levine - Fricke
Phone No. 714-955-1290
Fax No. 714-955-0653
Irvine
Proj No. 3193
Technical Contract: Anthony Silva
Proj Name Mobil - Jalk Fee

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 FAX: 213/948-5850

JOB NO. b19271

Sample No.	Sample Description/Remarks	Wet	pb	Hg	Copper		Cam						
FB 3-3	Soil tube prev # 19041	✓	✓										
FB 5-3		✓	✓	✓									
FB 1-8		✓	✓		✓								
FB 3-8		✓	✓										
FB 11-8		✓	✓	✓	✓								
FB 1-3							✓						
FB 11-3							✓						
FB 5-8							✓						
FB 9-3	Soil tube prev # 19032	✓	✓										
FB 9-8	" "						✓						

Date Sampled 7-17, 7-18
Conditions of Samples

RUSH TAT

Total No. of Containers . . . 10

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
Mary Murcakey	Mary Murcakey b19271	8-21 / 9:30 AM

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery

8 soils prev # 19041 & 2 soils prev # 19032

2193

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

September 30, 1991

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19573 A

LABORATORY REPORT

Samples Received: Four (4) Soils from Previous WCAS Job No. 19508
Date Received: 9-23-91
Purchase Order No: Proj#: 2193/Mobil-Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Four (4) soils	Soluble Metals in W.E.T. Leachate Solution by ICPMS	Data Sheets

RECEIVED
OCT - 2 1991
LEVINE-FRICKE

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

Client: Levine-Fricke
Job Number: 19573
Date Analyzed: 09-27-91

Sample: RB-1-3

File: 9542
291

Selected Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Leachate Metals Concentration---Parts Per Million (mg/L)

	Sample mg/L	Detection Limit	CAM STLC Limits
Lead	10.9 ****	0.01	5

(1) **** Exceeds STLC limits

WCAS

Client: Levine-Fricke
Job Number: 19573
Date Analyzed: 09-27-91

Sample: RB-1-8

File: 9542
261

Selected Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Leachate Metals Concentration---Parts Per Million (mg/L)

		Sample mg/L	Detection Limit	CAM STLC Limits
Chromium	(III/VI)	0.3	0.1	560/5
Zinc		474 ****	0.09	250

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium leached from sample.
(3) **** Exceeds STLC limits

Client: Levine-Fricke
Job Number: 19573
Date Analyzed: 09-27-91

Sample: RB-5-8

File: 9542
281

Selected Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Leachate Metals Concentration---Parts Per Million (mg/L)

		Sample mg/L	Detection Limit	CAM STLC Limits
Chromium	(III/VI)	0.4	0.1	560/5
Lead		151 ****	0.01	5

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium leached from sample.
(3) **** Exceeds STLC limits

WCAS

Client: Levine-Fricke
Job Number: 19573
Date Analyzed: 09-27-91

Sample: RB-9-8

File: 9542
271

Selected Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Leachate Metals Concentration---Parts Per Million (mg/L)

		Sample mg/L	Detection Limit	CAM STLC Limits
Chromium	(III/VI)	0.6	0.1	560/5
Lead		44.4 ****	0.01	5

(1) ND-Not Detected. The Limit of Detection is reported above.
(2) Chromium reported above as total chromium leached from sample.
(3) **** Exceeds STLC limits

Client: Levine-Fricke
Job Number: 19573
Date Analyzed: 09-27-91
Matrix: W.E.T. Leachate

Selected Metals
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million (mg/L)

	Sample		MS		MSD		
	9542 291	Spike Conc ppm	9542 301	% Recovery	9542 311	% Recovery	RPD %
Chromium	0.2	10	10.8	106	10.7	105	0.9
Zinc	170	10	178		181		1.7
Lead	10.9	10	19.7		20.4		3.5

CHAIN OF CUSTODY RECORD

Client Name: [illegible] Phone No. 714-[illegible]

Fax No. 714-[illegible]

Proj. No. 2193

Technical Contract: [illegible] Proj. Name Mobil Jack Fee

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 FAX: 213/948-5850

JOB NO. L19573

Sample No.	Sample Description/Remarks	Analyses Requested: Pb	Cr, Zn	Pb, Cr
RB-1-3	Soil Inv # 19508	✓		
RB-1-5	" "		✓	
RB-5-5	" "			✓
RB-9-5	" "			✓

Date Sampled 7-17/18-91 **Conditions of Samples**

Total No. of Containers . . . 4

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
[illegible]	[illegible]	9-23-91 / 2:35

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery

4 soils previous # 19508

3

CHAIN OF CUSTODY RECORD

Client Name: [illegible] Phone No. [illegible]

Fax No. [illegible]

Proj. No. [illegible]

Technical Contract: [illegible] Proj. Name [illegible]

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 FAX: 213/948-5850

JOB NO. 19573

Sample No.	Sample Description/Remarks	Analyses Requested											
		Pb	Cr, Zn	Pb, Cr									
[illegible]	[illegible] # 19508	✓											
[illegible]	" "		✓										
[illegible]	" "			✓									
[illegible]	" "			✓									

Date Sampled [illegible] **Conditions of Samples**

Total No. of Containers . . . 4

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
[illegible]	[illegible]	[illegible]

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery

[illegible] # 19508

2193

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

October 7, 1991

LEVINE-FRICKE
1920 Main Street
Suite 750
Irvine, CA 92714

Attn: Anthony Silva

JOB NO. 19631 A

LABORATORY REPORT

Samples Received: Nine (9) Soils
Date Received: 9-30-91
Purchase Order No: Proj#: 2193/Mobil-Jalk Fee

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Two (2) soils	Fuel Hydrocarbons by Modified EPA 8015 (LUFT Manual, April 1989)	Table 1
Three (3) soils	Soluble Mercury in W.E.T. Leachate Solution by ICPMS	Table 2
Two (2) soils	Volatile Organics by EPA 8260	Data Sheets

RECEIVED
OCT - 8 1991
LEVINE-FRICKE

Michael Shelton
Technical Director

D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE FRICKE
Mr. Anthony Silva

Job # 19631
October 7, 1991

LABORATORY REPORT

TABLE 1

Parts Per Million (mg/Kg)

Fuel Hydrocarbons by Modified EPA 8015
(LUFT Manual, April 1989)

Sample No.	C_5-C_{10} Gasoline	C_7-C_{12} Mineral Spirits	C_7-C_{15} Kerosene	C_{10}-C_{20} Diesel Fuel	C_{20}-C_{30} Heavy Hydrocarbons
SB-27-30	ND	ND	ND	ND	ND
Detection Limit	10	10	10	10	100

Sample No.	C_5-C_{30} Total Hydrocarbons
SB-27-15	29,000
Detection Limit	100

Mixture of components.

ND - Not Detected

Date Analyzed: 10-1-91

WEST COAST ANALYTICAL SERVICE, INC.

LEVINE FRICKE
Mr. Anthony Silva

Job # 19631
October 7, 1991

LABORATORY REPORT

TABLE 2

Parts Per Million (mg/L)

Soluble Metals in W.E.T. Leachate
Solution by ICPMS

Sample ID	Mercury
RB-2a-3	ND
RB-5a-8	ND
RB-9a-8	ND
Detection Limit	0.03
STLC Limit	0.2

ND-Not Detected

Date Analyzed: 10-4-91

Q.A. FORM FOR 8015 (Petroleum Hydrocarbons) - MSD

Client: LEVINE-FRICKE
Job No.: 19631
Date: 10/01/91

Matrix: SOIL
Group: GC
Analysis Code: 8015

Analytes	Sample SB-27-30	Matrix Spike	Percent Recovery	Matrix Spike Dup	Percent Recovery	Spike R.P.D.	Spike Conc.
Gasoline	ND	613	81	618	82	0.8	758
Diesel	ND	549	82	470	70	15.5**	669

Limits

Analyte	% Recovery Warning	% Recovery Control	RPD Warning	RPD Control
Gasoline	71-131	56-146	11	17
Diesel	63-131	46-148	13	20

** - outside warning limits

ALL CONCENTRATIONS IN PPM

Client: Levine-Fricke
Job Number: 19631
Date Analyzed: 10-491
Matrix: Water

Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million

	Sample	Duplicate	RPD %	Spike Conc ppm	Spk Rslt	% Recovery	Detect. Limit
Mercury	ND<0.0003	ND<0.0003		0.01	0.095	95	0.0003

WCAS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19631

SAMPLE: SB-27-15

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 09/30/91
DATE EXTRACTED: 10/01/91
DATE ANALYZED: 10/01/91
INSTRUMENT ID: TRIO1

MATRIX: SOIL
SAMPLE AMOUNT: 10G:10ML,5UL
RUN NUMBER: 19631T1
UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5000.
71-43-2	BENZENE	2000.		1000.
75-27-4	BROMODICHLOROMETHANE	ND		1000.
75-25-2	BROMOFORM	ND		1000.
74-83-9	BROMOMETHANE	ND		5000.
78-93-3	2-BUTANONE (MEK)	ND		5000.
75-15-0	CARBON DISULFIDE	ND		1000.
56-23-5	CARBON TETRACHLORIDE	ND		1000.
108-90-7	CHLOROBENZENE	ND		1000.
75-00-3	CHLOROETHANE	ND		5000.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND		10000.
67-66-3	CHLOROFORM	ND		1000.
74-87-3	CHLOROMETHANE	ND		5000.
108-41-8	CHLOROTOLUENE	ND		1000.
124-48-1	DIBROMOCHLOROMETHANE	ND		1000.
95-50-1	1,2-DICHLOROBENZENE	ND		1000.
541-73-1	1,3-DICHLOROBENZENE	ND		1000.
106-46-7	1,4-DICHLOROBENZENE	ND		1000.
75-34-3	1,1-DICHLOROETHANE	ND		1000.
107-06-2	1,2-DICHLOROETHANE	ND		1000.
75-35-4	1,1-DICHLOROETHYLENE	ND		1000.
156-59-4	CIS-1,2-DICHLOROETHYLENE	53000.		1000.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1000.
78-87-5	1,2-DICHLOROPROPANE	ND		1000.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1000.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1000.
100-41-4	ETHYLBENZENE	ND		1000.
106-93-4	ETHYLENE DIBROMIDE	ND		1000.
76-13-1	FREON-TF	ND		1000.
119-78-6	2-HEXANONE	ND		5000.
75-09-2	METHYLENE CHLORIDE	2000.	B	1000.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5000.
100-42-5	STYRENE	ND		1000.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1000.
127-18-4	TETRACHLOROETHYLENE	ND		1000.
109-99-9	TETRAHYDROFURAN	ND		5000.
108-88-3	TOLUENE	ND		1000.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1000.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1000.
79-01-6	TRICHLOROETHYLENE	ND		1000.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1000.
108-05-4	VINYL ACETATE	ND		5000.
75-01-4	VINYL CHLORIDE	ND		5000.
95-47-6	TOTAL XYLENES	ND		1000.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	106	100	111
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19631

SAMPLE: SB-27-15

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED: 09/30/91
DATE EXTRACTED: 10/01/91
DATE ANALYZED: 10/01/91
INSTRUMENT ID: TRIO1

MATRIX: SOIL
SAMPLE AMOUNT: 10G:10ML,5UL
RUN NUMBER: 19631T1
UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NAPHTHALENE	VOA	5000.
2	METHYLNAPHTHALENES	VOA	8000.
3	DIMETHYLNAPHTHALENES	VOA	6000.
4	C9-C11 ALKYLBENZENES	VOA	300000.
5	C5-C12 ALIPHATIC AND ALICYCLIC HYDROCARBONS	VOA	1000000.

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19631

SAMPLE: SB-27-30

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 09/30/91
DATE EXTRACTED: 10/02/91
DATE ANALYZED: 10/02/91
INSTRUMENT ID: TRIO1

MATRIX: SOIL
SAMPLE AMOUNT: 1.0G
RUN NUMBER: 19631T5
UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	20.	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	30. B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	97	93	92
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: LEVINE-FRICKE
WCAS JOB #: 19631

SAMPLE: SB-27-30

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED: 09/30/91
DATE EXTRACTED: 10/02/91
DATE ANALYZED: 10/02/91
INSTRUMENT ID: TRIO1

MATRIX: SOIL
SAMPLE AMOUNT: 1.0G
RUN NUMBER: 19631T5
UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

WCAS

CLIENT: LEVINE-FRICKE SAMPLE: LAB BLANK
WCAS JOB #: 19631

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/01/91 MATRIX: SOIL
DATE EXTRACTED: 10/01/91 SAMPLE AMOUNT: 10G:10ML,5UL
DATE ANALYZED: 10/01/91 RUN NUMBER: VBLK937
INSTRUMENT ID: TRIO1 UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5000.
71-43-2	BENZENE	ND	1000.
75-27-4	BROMODICHLOROMETHANE	ND	1000.
75-25-2	BROMOFORM	ND	1000.
74-83-9	BROMOMETHANE	ND	5000.
78-93-3	2-BUTANONE (MEK)	ND	5000.
75-15-0	CARBON DISULFIDE	ND	1000.
56-23-5	CARBON TETRACHLORIDE	ND	1000.
108-90-7	CHLOROBENZENE	ND	1000.
75-00-3	CHLOROETHANE	ND	5000.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10000.
67-66-3	CHLOROFORM	ND	1000.
74-87-3	CHLOROMETHANE	ND	5000.
108-41-8	CHLOROTOLUENE	ND	1000.
124-48-1	DIBROMOCHLOROMETHANE	ND	1000.
95-50-1	1,2-DICHLOROBENZENE	ND	1000.
541-73-1	1,3-DICHLOROBENZENE	ND	1000.
106-46-7	1,4-DICHLOROBENZENE	ND	1000.
75-34-3	1,1-DICHLOROETHANE	ND	1000.
107-06-2	1,2-DICHLOROETHANE	ND	1000.
75-35-4	1,1-DICHLOROETHYLENE	ND	1000.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1000.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1000.
78-87-5	1,2-DICHLOROPROPANE	ND	1000.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1000.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1000.
100-41-4	ETHYLBENZENE	ND	1000.
106-93-4	ETHYLENE DIBROMIDE	ND	1000.
76-13-1	FREON-TF	ND	1000.
119-78-6	2-HEXANONE	ND	5000.
75-09-2	METHYLENE CHLORIDE	5000.	1000.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5000.
100-42-5	STYRENE	ND	1000.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1000.
127-18-4	TETRACHLOROETHYLENE	ND	1000.
109-99-9	TETRAHYDROFURAN	ND	5000.
108-88-3	TOLUENE	ND	1000.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1000.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1000.
79-01-6	TRICHLOROETHYLENE	ND	1000.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1000.
108-05-4	VINYL ACETATE	ND	5000.
75-01-4	VINYL CHLORIDE	ND	5000.
95-47-6	TOTAL XYLENES	ND	1000.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	106	100	97
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: LEVINE-FRICKE SAMPLE: LAB BLANK
WCAS JOB #: 19631

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/01/91	MATRIX:	SOIL
DATE EXTRACTED:	10/01/91	SAMPLE AMOUNT:	10G:10ML,5UL
DATE ANALYZED:	10/01/91	RUN NUMBER:	VBLK937
INSTRUMENT ID:	TRIO1	UNITS:	UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: LEVINE-FRICKE SAMPLE: LAB BLANK
WCAS JOB #: 19631

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/02/91 MATRIX: SOIL
DATE EXTRACTED: 10/02/91 SAMPLE AMOUNT: 1.0G
DATE ANALYZED: 10/02/91 RUN NUMBER: VBLK940
INSTRUMENT ID: TRIO1 UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	30.
71-43-2	BENZENE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	5.
75-25-2	BROMOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (MEK)	ND	30.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ND	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
67-66-3	CHLOROFORM	ND	5.
74-87-3	CHLOROMETHANE	ND	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
75-35-4	1,1-DICHLOROETHYLENE	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
76-13-1	FREON-TF	ND	5.
119-78-6	2-HEXANONE	ND	30.
75-09-2	METHYLENE CHLORIDE	20.	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	30.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
79-01-6	TRICHLOROETHYLENE	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	97	91	94
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: LEVINE-FRICKE SAMPLE: LAB BLANK
WCAS JOB =: 19631

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED: 10/02/91 MATRIX: SOIL
DATE EXTRACTED: 10/02/91 SAMPLE AMOUNT: 1.0G
DATE ANALYZED: 10/02/91 RUN NUMBER: VBLK940
INSTRUMENT ID: TRIO1 UNITS: UG/KG (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

WEST COAST ANALYTICAL SERVICE

MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY

CLIENT : LEVINE-FRICKE
DATE ANALYZED: 10/02/91
WCAS JOB # : 19631

SAMPLE: SB-27-31
MATRIX: SOIL
UNITS : UG/KG (PPB)

VOLATILE COMPOUNDS

COMPOUND	CONC SPIKED	CONC SAMPLE	CONC MS	%REC MS	CONC MSD	%REC MSD	RPD
1,1-DICHLOROETHYLENE	250.	5.ND	236.	94	219.	88	7
BENZENE	250.	5.ND	225.	90	215.	86	5
TRICHLOROETHYLENE	250.	5.ND	237.	95	228.	91	4
TOLUENE	250.	5.ND	249.	100	238.	95	5
CHLOROBENZENE	250.	5.ND	243.	97	231.	92	5

** - Outside Control Limits
* - Outside Warning Limits
RPD=(MS-MSD)/((MS+MSD)/2)*100

RPD: 0 Out of 5 RECOVERY: 0 Out of 10 Outside CONTROL limits

RPD: 0 Out of 5 RECOVERY: 0 Out of 10 Outside WARNING limits

SOIL QUALITY CONTROL LIMITS

	RECOVERY		RPD	
	WARNING	CONTROL	WARNING	CONTROL
1,1-DICHLOROETHYLENE	51-155	25-182	14	20
BENZENE	73-125	60-138	10	14
TRICHLOROETHYLENE	59-120	44-135	11	17
TOLUENE	80-116	71-125	12	18
CHLOROBENZENE	82-109	75-115	8	12

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

B - Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2193

Field Logbook No.: -

Date: 9/30/91

Serial No.: № N- 1091

Project Name: MOBIL - JACK FEE

Project Location: SANTA FE SPRINGS

Sampler (Signature): Scott A. Anderson

Samplers: SAA

SAMPLES					ANALYSES									
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	8015-MOD	8260	WET-Hg		HOLD	RUSH	REMARKS
✓ RB-2a-3	9/30/91	0920		1	SOIL					X				WET - MERCURY
✓ RB-5a-8	9/30/91	0940		1	SOIL					X				WET - MERCURY
✓ RB-9a-8	9/30/91	0900		1	SOIL					X				WET - MERCURY
✓ SB-27-5	9/30/91	0955		1	SOIL							X		
✓ SB-27-10	9/30/91	1000		1	SOIL							X		
✓ SB-27-15	9/30/91	1015		1	SOIL			X	X					WAIT FOR AXS VERBAL OK
✓ SB-27-20	9/30/91	1025		1	SOIL							X		
✓ SB-27-25	9/30/91	1040		1	SOIL							X		
✓ SB-27-30	9/30/91	1055		1	SOIL			X	X					WAIT FOR AXS VERBAL OK
														* NORMAL TURNAROUND *
														RESULTS TO ANTHONY SILVA

RELINQUISHED BY: (Signature) Scott A. Anderson	DATE 9/30/91	TIME 1235	RECEIVED BY: (Signature) Bob O'Brien	DATE 9/30/91	TIME 12:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON BLUE ICE	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: WEST COAST ANALYTICAL SERVICES

№ 19631

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2113	Field Logbook No.: –	Date: [illegible]	Serial No.: № N- 1091
Project Name: [illegible]	Project Location: [illegible]		
Sampler (Signature): [illegible]			Samplers: [illegible]

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	[illegible]	[illegible]	[illegible]	[illegible]	HOLD	RUSH	REMARKS
✓ RB-2[illegible]-3	[illegible]	1120		1	[illegible]					X				[illegible]
✓ RB-5[illegible]-5	[illegible]	1240		1	[illegible]					X				[illegible]
✓ RB-[illegible]-5	[illegible]	[illegible]		1	[illegible]					X				[illegible]
✓ SB-27-5	[illegible]	1055		1	[illegible]							X		
✓ SB-27-10	[illegible]	1010		1	[illegible]							X		
✓ SB-27-15	[illegible]	1015		1	[illegible]			X	X					[illegible]
✓ SB-27-20	[illegible]	1025		1	[illegible]							X		
✓ SB-27-25	[illegible]	1040		1	[illegible]							X		
✓ SB-27-30	[illegible]	1050		1	[illegible]			X	X					[illegible]
														[illegible]
														[illegible]

RELINQUISHED BY: (Signature) [illegible]	DATE [illegible]	TIME 1250	RECEIVED BY: (Signature) [illegible]	DATE [illegible]	TIME [illegible]
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: [illegible]	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: [illegible]

419631

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CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2113	Field Logbook No.: -	Date: [illegible]	Serial No.: Nº N- 1091
Project Name: [illegible]	Project Location: [illegible]		
Sampler (Signature): [illegible]			Samplers: [illegible]

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	[illegible]	[illegible]	[illegible]	[illegible]	HOLD	RUSH	REMARKS
✓ RB-2[illegible]-3	[illegible]	[illegible]		1	[illegible]					X				[illegible]
✓ RB-5[illegible]-3	[illegible]	[illegible]		1	[illegible]					X				[illegible]
✓ RB-[illegible]-3	[illegible]	[illegible]		1	[illegible]					X				[illegible]
✓ [illegible]-27-3	[illegible]	[illegible]		1	[illegible]							X		
✓ [illegible]-27-[illegible]	[illegible]	[illegible]		1	[illegible]							X		
✓ [illegible]27-[illegible]	[illegible]	[illegible]		1	[illegible]			X	X					[illegible]
✓ [illegible]	[illegible]	[illegible]		1	[illegible]							X		
✓ [illegible]	[illegible]	[illegible]		1	[illegible]							X		
✓ [illegible]	[illegible]	[illegible]		1	[illegible]			X	X					[illegible]
														[illegible]
														[illegible]

RELINQUISHED BY: (Signature) [illegible]	DATE [illegible]	TIME [illegible]	RECEIVED BY: (Signature) [illegible]	DATE [illegible]	TIME [illegible]
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: [illegible]	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: [illegible]

№ 19631

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

Analytical Report

2193
AMENDED REPORT

10/8/91

LOG NO: A91-07-088

Received: 17 JUL 91
Mailed : 29 JUL 91

Mr. Anthony Silva
Levine-Fricke
1920 Main Street, Suite 750
Irvine, California 92714

Project: 2193/Mobil Jack Fee

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
07-088-1	SB-23-10-DUP	17 JUL 91
07-088-2	SB-23-25-DUP	17 JUL 91
07-088-3	SB-24-15-DUP	17 JUL 91

PARAMETER	07-088-1	07-088-2	07-088-3
Nitric Acid Digestion with HCl, Date	07/22/91	07/22/91	07/22/91
Nitric Acid Digestion, Date	07/22/91	07/22/91	07/22/91
Arsenic, mg/kg	3.2	9.4	2.3
Antimony, mg/kg	<0.4	<0.4	<0.4
Barium, mg/kg	91	160	90
Beryllium, mg/kg	0.18	0.22	0.14
Cadmium, mg/kg	0.2	0.4	<0.2
Chromium, mg/kg	17	26	15
Cobalt, mg/kg	7.9	13	6.3
Copper, mg/kg	15	28	14
Lead, mg/kg	6.6	<0.4	<0.4
Mercury, mg/kg	<0.2	<0.2	<0.2
Molybdenum, mg/kg	<0.1	<0.1	<0.1
Nickel, mg/kg	<0.2	0.2	1.5
Selenium, mg/kg	<0.4	<0.4	<0.4
Silver, mg/kg	<0.2	<0.2	<0.2
Thallium, mg/kg	<4	<4	<4
Vanadium, mg/kg	28	47	18
Zinc, mg/kg	41	60	34

RECEIVED
OCT - 9
LEVINE-FRICKE

1200 Pacifico Avenue
Anaheim, CA 92805

714/978-0113
Fax: 714/978-9284

BCA B C Analytical

Analytical Report

LOG NO: A91-07-088

Received: 17 JUL 91
Mailed : 29 JUL 91

Mr. Anthony Silva
Levine-Fricke
1920 Main Street, Suite 750
Irvine, California 92714

Project: 2193/Mobil Jack Fee

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
07-088-4	RB-12-3-DUP	17 JUL 91

PARAMETER	07-088-4
Sample Held, Not Analyzed	Hold

Amended report:
Thallium has been determined by EPA 7840 (flame atomic absorption). The previously reported results of 150, 230, and 140 mg/kg for A91-07-088-1, -2, and -3 determined by EPA 6010 (ICP) were subject to possible interference from the sample matrix.
--C. Jacks 10/08/91

Charles Jacks

Charles Jacks, Ph.D., Laboratory Director

1200 Pacifico Avenue
Anaheim, CA 92805

714/978-0113
Fax: 714/978-9284

BCA B C Analytical

B C ANALYTICAL

BATCH QC REPORT
Definitions and Terms

Accuracy:	The ability of a procedure to determine the "true" concentration of an analyte.
Precision:	The reproducibility of a procedure demonstrated by the agreement between analyses performed on either duplicates of the same sample or a pair of duplicate spikes.
Batch:	A group of twenty samples or less, of similar matrix type, prepped together or analyzed together if no sample preparation is required, under the same conditions and with the same reagents. The batch must include a method blank, LCS and matrix QC.
Laboratory Control Standard (LCS):	Laboratory reagent water spiked with known compounds and subjected to the same procedures as the samples. The LCS thus indicates the accuracy of the analytical method. It also serves to double-check the calibration because it is prepared from a different source than the standard used to calibrate the instrument.
Matrix QC:	Quality control tests performed on actual client samples. For most inorganic analyses, the laboratory uses a pair of duplicate samples and a spiked sample. For most organic analyses, the laboratory uses a pair of spiked samples (duplicate spikes).
LC Result:	Laboratory result of an LCS analysis.
LT Result:	Expected result, or true value, of the LCS analysis.
R1, R2 Result:	Result of analyzing replicate aliquots of a sample, with R1 indicating the first analysis of the sample and R2 its corresponding duplicate; used to determine precision.
R Bar Result:	The average of replicate analysis results.
S1, S2 Result:	Result of the analysis of replicate spiked aliquots, with S1 indicating one spike of the sample and S2 the second spike; used to determine precision and accuracy.

S Bar Result: The average of spike analysis results.

True value: The theoretical, or expected, result of a spike sample analysis.

Percent Recovery: The percentage of analyte recovered. For LCS, the percent recovery calculation is: LC/LT x 100.

For spike recoveries, the percent recovery calculation is: $\frac{(\text{S Bar} - \text{R Bar})}{\text{Spike Amount}} \times 100$

Relative Percent Difference (RPD): Calculated using one of the following:

$\frac{(R1 - R2) \times 100}{\text{R Bar}}$ $\frac{(S1 - S2) \times 100}{\text{S Bar}}$

Blank Result: The result of analyzing a method blank (reagent water that is subjected to the same procedures as the samples in a batch); used to determine laboratory contamination.

RDL (Reporting Detection Limit): BCA-assigned limit based on--but not the same as--method detection limits (MDLs) determined using EPA guidelines. The RDL is not adjusted for dilution factors and therefore may not be the same as the sample results.

: ORDER PLACED FOR CLIENT: Levine-Fricke 9107088 :
: BC ANALYTICAL : ANHM LAB : 17:31:48 26 JUL 1991 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.ANAL	METHOD.....	EQUIP.	BATCH	ID.N
9107088*1	SB-23-10-DUP	DIG,NAQ.HCL	07.22.91	3050		435	684
		DIG,NAQ,GFA	07.22.91	3050		436	684
		AS,GFA	07.23.91	7060	554-01	436	
		SB	07.23.91	6010	554-02	435	684
		BA	07.25.91	6010	554-02	443	
		BE	07.23.91	6010	554-02	435	684
		CD	07.23.91	6010	554-02	435	684
		CR	07.23.91	6010	554-02	435	684
		CO	07.23.91	6010	554-02	435	684
		CU	07.23.91	6010	554-02	435	684
		PB	07.23.91	6010	554-02	435	684
		HG	07.25.91	7471	554-01	80	684
		MO	07.23.91	6010	554-02	435	684
		NI	07.23.91	6010	554-02	435	684
		SE,GFA	07.23.91	7740	554-01	436	
		AG	07.23.91	6010	554-02	435	684
		TL	07.23.91	6010	554-02	435	684
		V	07.23.91	6010	554-02	435	684
		ZN	07.23.91	6010	554-02	435	684
9107088*2	SB-23-25-DUP	DIG,NAQ.HCL	07.22.91	3050		435	684
		DIG,NAQ,GFA	07.22.91	3050		436	684
		AS,GFA	07.23.91	7060	554-01	436	
		SB	07.23.91	6010	554-02	435	684
		BA	07.25.91	6010	554-02	443	
		BE	07.23.91	6010	554-02	435	684
		CD	07.23.91	6010	554-02	435	684
		CR	07.23.91	6010	554-02	435	684
		CO	07.23.91	6010	554-02	435	684
		CU	07.23.91	6010	554-02	435	684
		PB	07.23.91	6010	554-02	435	684
		HG	07.25.91	7471	554-01	80	684
		MO	07.23.91	6010	554-02	435	684
		NI	07.23.91	6010	554-02	435	684
		SE,GFA	07.23.91	7740	554-01	436	
		AG	07.23.91	6010	554-02	435	684
		TL	07.23.91	6010	554-02	435	684
		V	07.23.91	6010	554-02	435	684
		ZN	07.23.91	6010	554-02	435	684
9107088*3	SB-24-15-DUP	DIG,NAQ.HCL	07.22.91	3050		435	684
		DIG,NAQ,GFA	07.22.91	3050		436	684
		AS,GFA	07.23.91	7060	554-01	436	
		SB	07.23.91	6010	554-02	435	684
		BA	07.25.91	6010	554-02	443	
		BE	07.23.91	6010	554-02	435	684
		CD	07.23.91	6010	554-02	435	684

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.ANAL	METHOD.....	EQUIP.	BATCH	ID.N
		CR	07.23.91	6010	554-02	435	684
		CO	07.23.91	6010	554-02	435	684
		CU	07.23.91	6010	554-02	435	684
		PB	07.23.91	6010	554-02	435	684
		HG	07.25.91	7471	554-01	80	684
		MO	07.23.91	6010	554-02	435	684
		NI	07.23.91	6010	554-02	435	684
		SE,GFA	07.23.91	7740	554-01	436	
		AG	07.23.91	6010	554-02	435	684
		TL	07.23.91	6010	554-02	435	684
		V	07.23.91	6010	554-02	435	684
		ZN	07.23.91	6010	554-02	435	684
9107088*4	RB-12-3-DUP	HOLD	07.22.91				

***

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

BATCH QC REPORT
ORDER: A9107088

DATE REPORTED : 07/26/91

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Arsenic	07.23.91	436	0.052	0.060	mg/L	87
Antimony	07.23.91	435	2.74	3.00	mg/L	91
Antimony	07.24.91	435	2.90	3.00	mg/L	97
Barium	07.25.91	443	2.95	3.00	mg/L	98
Beryllium	07.23.91	435	2.80	3.00	mg/L	93
Cadmium	07.23.91	435	2.98	3.00	mg/L	99
Chromium	07.23.91	435	2.82	3.00	mg/L	94
Cobalt	07.23.91	435	2.77	3.00	mg/L	92
Copper	07.23.91	435	2.79	3.00	mg/L	93
Lead	07.23.91	435	2.71	3.00	mg/L	90
Lead	07.24.91	435	2.93	3.00	mg/L	98
Mercury	07.25.91	80	0.0032	0.004	mg/L	80
Molybdenum	07.23.91	435	2.86	3.00	mg/L	95
Nickel	07.23.91	435	2.63	3.00	mg/L	88
Selenium	07.23.91	436	0.062	0.060	mg/L	103
Silver	07.23.91	435	1.06	2.00	mg/L	53
Thallium	07.23.91	435	2.76	3.00	mg/L	92
Vanadium	07.23.91	435	2.83	3.00	mg/L	94
Zinc	07.23.91	435	2.86	3.00	mg/L	95

BC ANALYTICAL

BATCH QC REPORT
ORDER: A9107088

DATE REPORTED : 07/26/91

MATRIX QC PRECISION (DUPLICATES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	R1 RESULT	R2 RESULT	UNIT	RELATIVE %DIFF
Arsenic	07.23.91	436	3.2	4.2	mg/kg	27
Antimony	07.23.91	435	<0.4	<0.4	mg/kg	NA
Barium	07.25.91	443	110	110	mg/kg	0
Beryllium	07.23.91	435	0.18	0.18	mg/kg	0
Cadmium	07.23.91	435	0.2	<0.2	mg/kg	NA
Chromium	07.23.91	435	17	16	mg/kg	6
Cobalt	07.23.91	435	7.9	7.7	mg/kg	3
Copper	07.23.91	435	15	15	mg/kg	0
Lead	07.23.91	435	6.6	7.1	mg/kg	7
Mercury	07.25.91	80	<0.2	<0.2	mg/kg	NA
Molybdenum	07.23.91	435	<0.1	<0.1	mg/kg	NA
Nickel	07.23.91	435	<0.2	<0.2	mg/kg	NA
Selenium	07.23.91	436	<0.4	<0.4	mg/kg	NA
Silver	07.23.91	435	<0.2	<0.2	mg/kg	NA
Thallium	07.23.91	435	150	150	mg/kg	0
Vanadium	07.23.91	435	28	28	mg/kg	0
Zinc	07.23.91	435	41	40	mg/kg	2

BC ANALYTICAL

ORDER QC REPORT FOR A9107088

DATE REPORTED : 07/26/91

MATRIX QC PRECISION (DUPLICATES)
FOR SAMPLES ON THIS ORDER

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	R1 RESULT	R2 RESULT	UNIT	RELATIVE %DIFF
Arsenic	9107088*1	07.23.91	436	3.2	4.2	mg/kg	27.02
Antimony	9107088*1	07.23.91	435	<0.4	<0.4	mg/kg	NA
Beryllium	9107088*1	07.23.91	435	0.18	0.18	mg/kg	0
Cadmium	9107088*1	07.23.91	435	0.2	<0.2	mg/kg	NA
Chromium	9107088*1	07.23.91	435	17	16	mg/kg	6.06
Cobalt	9107088*1	07.23.91	435	7.9	7.7	mg/kg	2.56
Copper	9107088*1	07.23.91	435	15	15	mg/kg	0
Lead	9107088*1	07.23.91	435	6.6	7.1	mg/kg	7.29
Molybdenum	9107088*1	07.23.91	435	<0.1	<0.1	mg/kg	NA
Nickel	9107088*1	07.23.91	435	<0.2	<0.2	mg/kg	NA
Selenium	9107088*1	07.23.91	436	<0.4	<0.4	mg/kg	NA
Silver	9107088*1	07.23.91	435	<0.2	<0.2	mg/kg	NA
Thallium	9107088*1	07.23.91	435	150	150	mg/kg	0
Vanadium	9107088*1	07.23.91	435	28	28	mg/kg	0
Zinc	9107088*1	07.23.91	435	41	40	mg/kg	2.46

BC ANALYTICAL

BATCH QC REPORT
ORDER: A9107088

DATE REPORTED : 07/26/91

MATRIX QC ACCURACY (SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	UNIT	PERC REC
Arsenic	07.23.91	436	8.6	8.6	3.7	mg/kg	
Antimony	07.23.91	435	25.5	58.2	<0.4	mg/kg	
Barium	07.25.91	443	170	170	110	mg/kg	
Beryllium	07.23.91	435	51.2	58.4	0.18	mg/kg	
Cadmium	07.23.91	435	53.1	58.2	0.2	mg/kg	
Chromium	07.23.91	435	66	74	16.5	mg/kg	
Cobalt	07.23.91	435	56	66	7.8	mg/kg	
Copper	07.23.91	435	65.3	73.2	15	mg/kg	
Lead	07.23.91	435	53.1	65.0	6.85	mg/kg	
Mercury	07.25.91	80	1.23	1.26	<0.2	mg/kg	
Molybdenum	07.23.91	435	49.4	58.2	<0.1	mg/kg	
Nickel	07.23.91	435	45.5	58.2	<0.2	mg/kg	
Selenium	07.23.91	436	4.68	4.88	<0.4	mg/kg	
Silver	07.23.91	435	20.1	38.8	<0.2	mg/kg	
Thallium	07.23.91	435	197	204	150	mg/kg	
Vanadium	07.23.91	435	79	86	28	mg/kg	
Zinc	07.23.91	435	90.5	98.2	40.5	mg/kg	

SOR = Spike Out of Range
(relative to high sample concentration)

BC ANALYTICAL

ORDER QC REPORT FOR A9107088

DATE REPORTED : 07/26/91

MATRIX QC ACCURACY (SPIKES)
FOR SAMPLES ON THIS ORDER

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	UNIT	PERCE REC
Arsenic	9107088*1	07.23.91	436	8.6	8.6	3.7	mg/kg	10
Antimony	9107088*1	07.23.91	435	25.5	58.2	0	mg/kg	4
Beryllium	9107088*1	07.23.91	435	51.2	58.4	0.18	mg/kg	8
Cadmium	9107088*1	07.23.91	435	53.1	58.2	0.2	mg/kg	9
Chromium	9107088*1	07.23.91	435	66	74	16.5	mg/kg	8
Cobalt	9107088*1	07.23.91	435	56	66	7.8	mg/kg	8
Copper	9107088*1	07.23.91	435	65.3	73.2	15	mg/kg	8
Lead	9107088*1	07.23.91	435	53.1	65.0	6.85	mg/kg	8
Molybdenum	9107088*1	07.23.91	435	49.4	58.2	0	mg/kg	8
Nickel	9107088*1	07.23.91	435	45.5	58.2	0	mg/kg	7
Selenium	9107088*1	07.23.91	436	4.68	4.88	0	mg/kg	9
Silver	9107088*1	07.23.91	435	20.1	38.8	0	mg/kg	5
Thallium	9107088*1	07.23.91	435	197	204	150	mg/kg	SO
Vanadium	9107088*1	07.23.91	435	79	86	28	mg/kg	8
Zinc	9107088*1	07.23.91	435	90.5	98.2	40.5	mg/kg	8

SOR = Spike Out of Range
(relative to high sample concentration)

BC ANALYTICAL

BATCH QC REPORT
ORDER: A9107088

DATE REPORTED : 07/26/91

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
Arsenic	07.23.91	436	0.0	0.2	mg/kg
Antimony	07.23.91	435	0.19	0.4	mg/kg
Antimony	07.24.91	435	0.00	10	mg/kg
Barium	07.25.91	443	0.018	0.02	mg/kg
Beryllium	07.23.91	435	0.013	0.001	mg/kg
Cadmium	07.23.91	435	0.00	0.2	mg/kg
Chromium	07.23.91	435	0.14	0.2	mg/kg
Cobalt	07.23.91	435	0.00	0.003	mg/kg
Copper	07.23.91	435	0.19	0.6	mg/kg
Lead	07.23.91	435	0.00	0.4	mg/kg
Lead	07.24.91	435	0.0	4	mg/kg
Mercury	07.25.91	80	0.000	0.2	mg/kg
Molybdenum	07.23.91	435	0.125	0.1	mg/kg
Nickel	07.23.91	435	0.10	0.2	mg/kg
Selenium	07.23.91	436	0.020	0.4	mg/kg
Silver	07.23.91	435	0.019	0.04	mg/kg
Thallium	07.23.91	435	0.00	0.04	mg/kg
Vanadium	07.23.91	435	0.017	0.002	mg/kg
Zinc	07.23.91	435	0.00	0.2	mg/kg

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

A91-07-088

Project No.: 273	Field Logbook No.: --	Date: 7/17/91	Serial No.: Nº N- 0879
Project Name: Mobil Jack Pee	Project Location: Santa Fe Springs		
Sampler (Signature): Scott R Lantz			Samplers: SRL

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624						HOLD	RUSH	REMARKS
SB-23-10-Dup	7/17/91	0830		1	Soil								X		
SB-23-25 Dup	7/17/91	0900		1	Soil								X		
~~SB-24-10 Dup~~	7/17/91	1100		1	Soil								X		SB-24-15-Dup. (ES)
RB-12-3-Dup	7/17/91	1530		1	Soil								X		

run Cam metals:
on SB-23-10-Dup
SB-23-25 Dup
SB-24-15 Dup
(ES) 7/18/91

OK TO RUN ANALYSES - SRL 7/19/91

*RESULTS TO:
ANTHONY SILVA

RELINQUISHED BY: (Signature) Scott R Lantz	DATE 7/17/91	TIME 6:40	RECEIVED BY: (Signature) Michael Bettencourt	DATE 7/17/91	TIME 1843
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: PACKED ON ICE	DATE	TIME	LAB COMMENTS:		

Sampler: LEVINE-FRICKE
1920 Main St., Ste. 150
Irvine, CA 92714

LEVINE-FRICKE
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: BC Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

TABLE L-1

Comparison of EPA Method 418.1 and EPA Method 8015 (Modified)

Analytical Results On Selected Soil Sample Results

LF 2193

(results reported in parts per million - ppm)

Sample Identification	Modified EPA Method 8015						EPA Method 418.1
	C5-C10	C7-C20	C10-C20	C5-C30	C20-C30	Subtotal	
Perimeter Sampling (NW Property Boundary)							
SS-1	---	---	520	---	200	720	2000
SS-2	---	---	---	---	280	280	1100
SS-3	---	---	9500	---	3900	13400	15000
Perimeter Sampling (NE Property Boundary)							
SS-4	---	---	---	---	800	800	800
SS-5	---	---	---	---	220	220	420
SS-6	---	---	---	---	---	ND	ND
SS-7	1200*	---	---	---	3000	3000	2100
SS-8	---	---	---	---	600	600	310
SS-9	---	---	---	---		ND	30
Perimeter Sampling (SE Property Boundary)							
SS-10	---	---	---	---	120	120	300
SS-11	220	---	---	---	4000	4220	1400
SS-12	---	---	---	---	31000	31000	1300
SS-13	---	---	---	---	---	ND	140
Former Above Ground Storage Tank Area							
T3B-10	---	7400	---	---	1800	9200	9900
T5A-1	---	---	---	---	200	200	ND
T9A-1a	4300	---	890	---	340	5530	3600
T9A-1b	---	---	---	---	---	ND	29
SB-3-15	---	---	---	8400	---	8400	6100
SB-27-30	---	---	---	29000	---	29000	NA
SS-12	---	---	---	---	31000	31000	1300
SS-13	---	---	---	---	---	ND	140
Isolated Samples							
T4B-1a	---	1700	---	---	390	2090	4000
T1A-4	---	---	---	---	110	110	180
T5A-1	---	---	---	---	200	200	NA
T7A-1	---	---	---	---	1500	1500	1000

ND Not Detected above laboratory method detection limits

NA Not Analyzed

C5-C10 Gasoline

C7-C20 Undifferentiated Hydrocarbons

C10-C20 Diesel Fuel

C5-C30 Undifferentiated Total Hydrocarbons

C20-C30 Heavy Hydrocarbons

--- Hydrocarbon range not detected in sample above laboratory detection limits

*C7-C12 Mineral Spirits

2193

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

February 14, 1991

Mr. Anthony Silva
LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, CA 92714

Ref: WCAS Job No. 17390, 17429, 17446 & 17559

Dear Mr. Silva:

Please find enclosed the 8015 chromatograms for your project Mobil-Jalk Fee that you've requested.

Sincerely,
WEST COAST ANALYTICAL SERVICE, INC.

Ramona Lee Northington

Ramona Lee Northington
Laboratory Director

RLN/am

Enclosures

RECEIVED
FEB 15
LEVINE-FRICKE

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

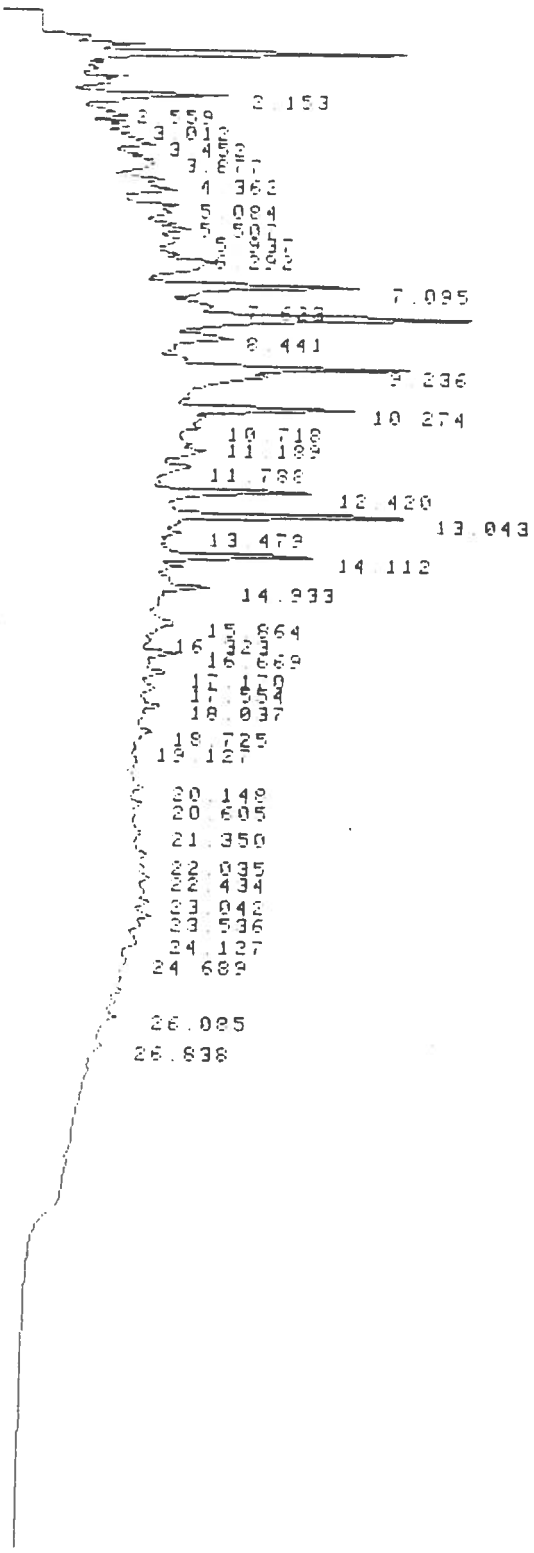
CHART SPEED 0.5 CM/MIN
ATTEN: 8 ZERO: 5%

RECALCULATE ON FILE: FUEL669

CHANNEL : 4A - 1 TITLE: 8015

21:26 28 DEC 90

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%

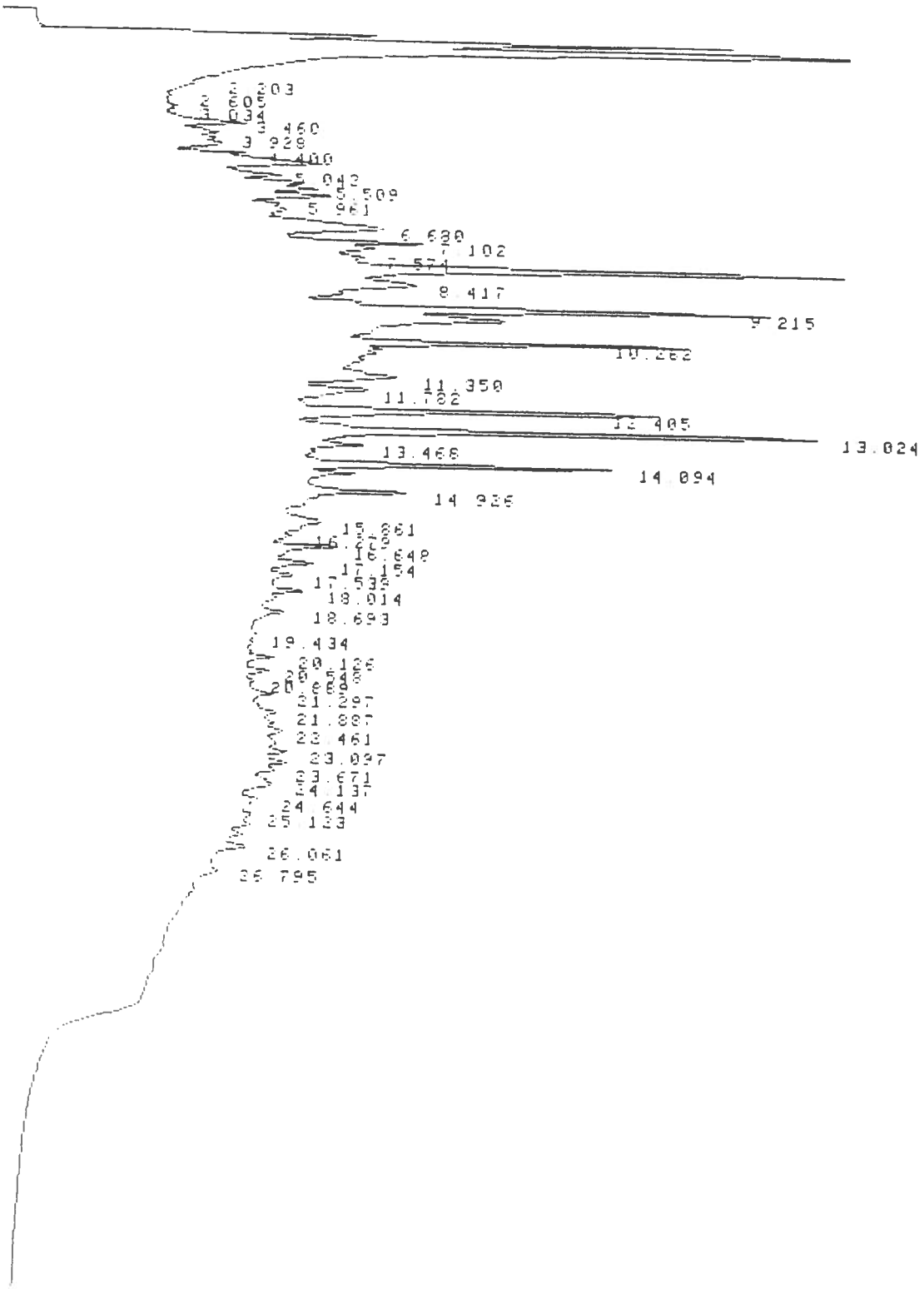


RECALCULATE ON FILE: FUEL671

CHANNEL: 4A - 1 TITLE: 8015

22:56 28 DEC 90

CHART SPEED 0.5 CM/MIN
ATTEN: 8 ZERO: 5%

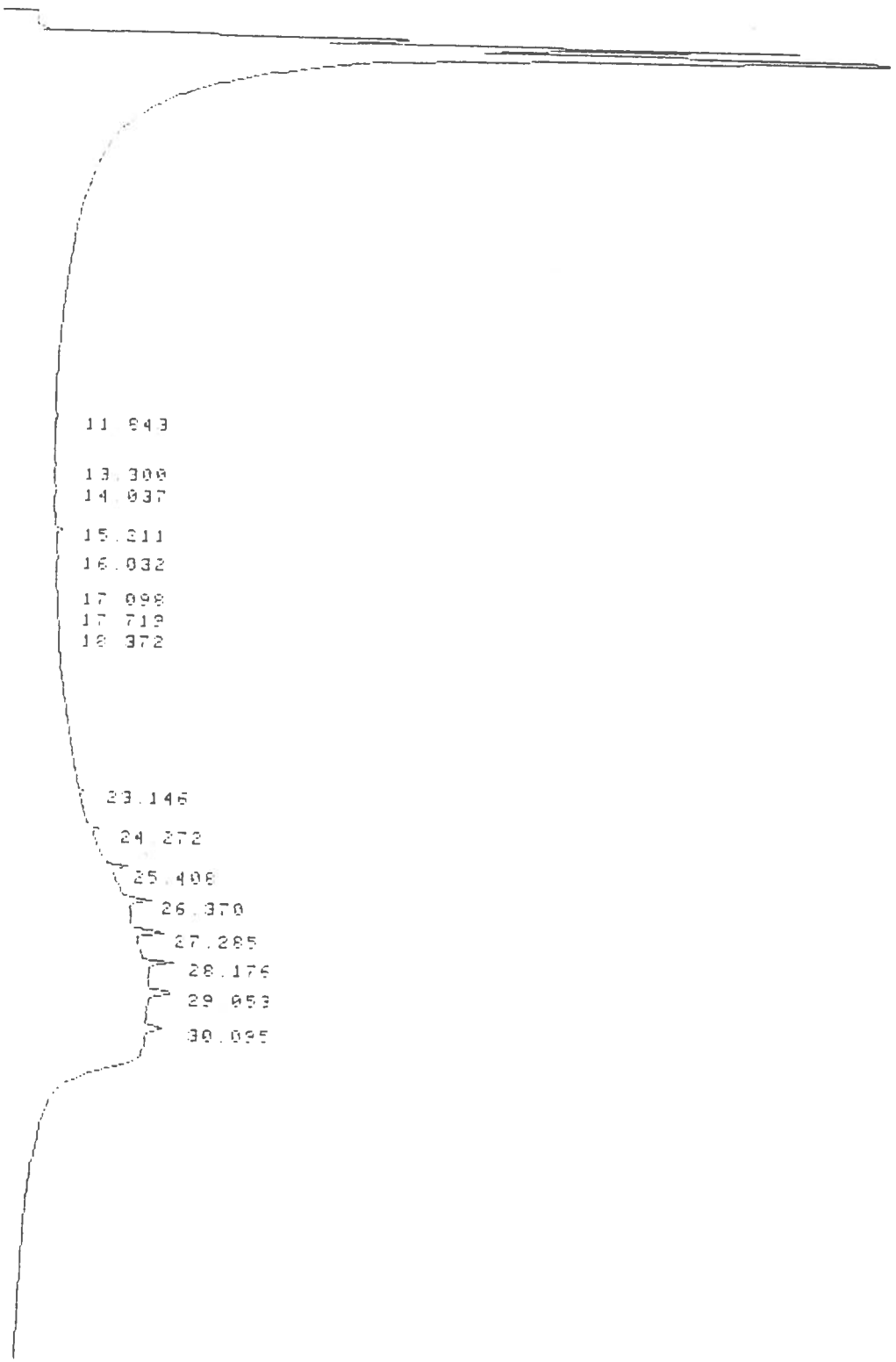


RECALCULATE ON FILE: FUEL670

CHANNEL: 4A - 1 TITLE: 8015

22:11 28 DEC 90

CHART SPEED 0.5 CM/MIN
ATTEN: 8 ZERO: 5%



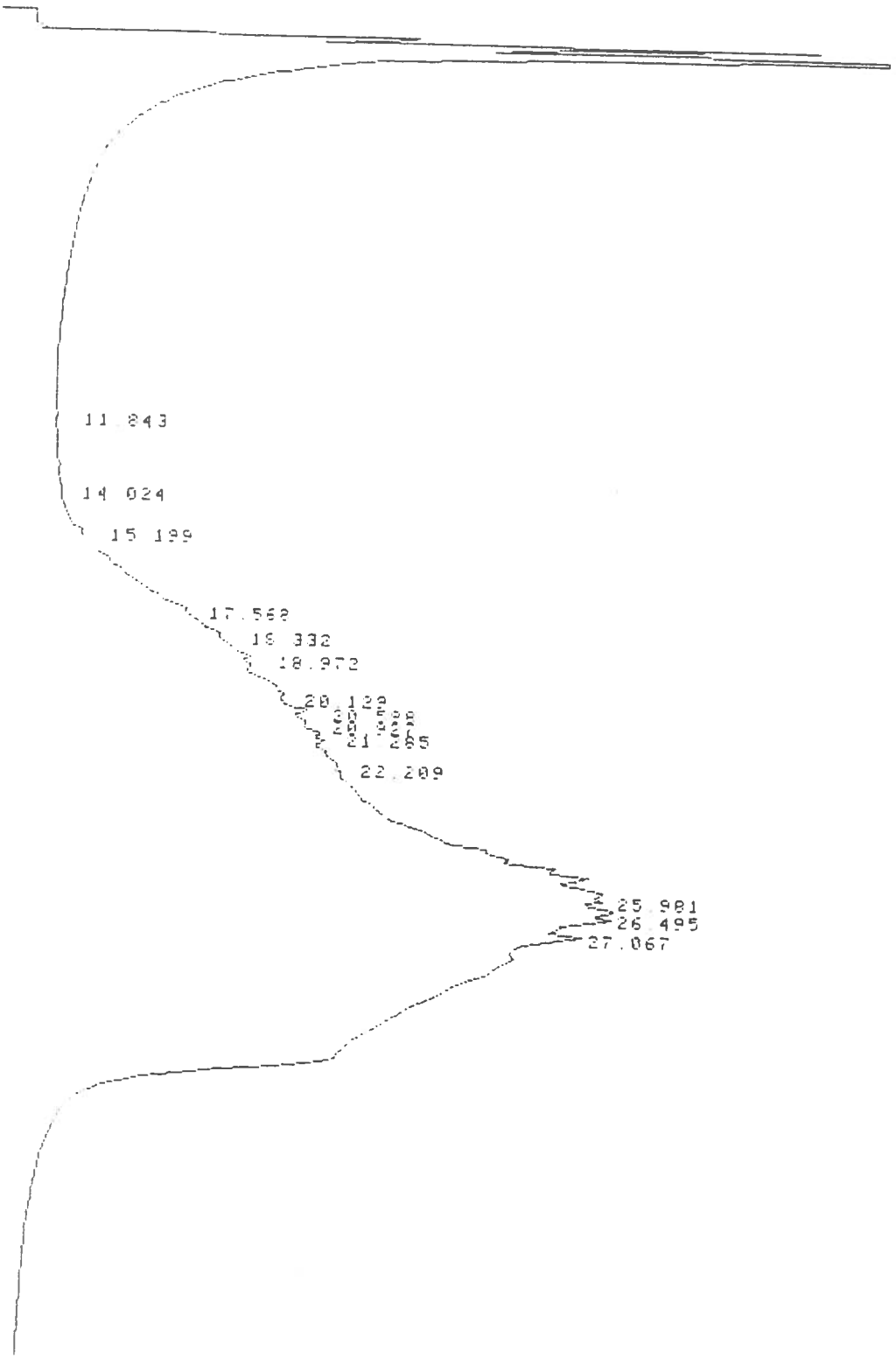
RECALCULATE ON FILE: FUEL617

CHANNEL: 4A - 1 TITLE: 9015

4:29 27 DEC 90

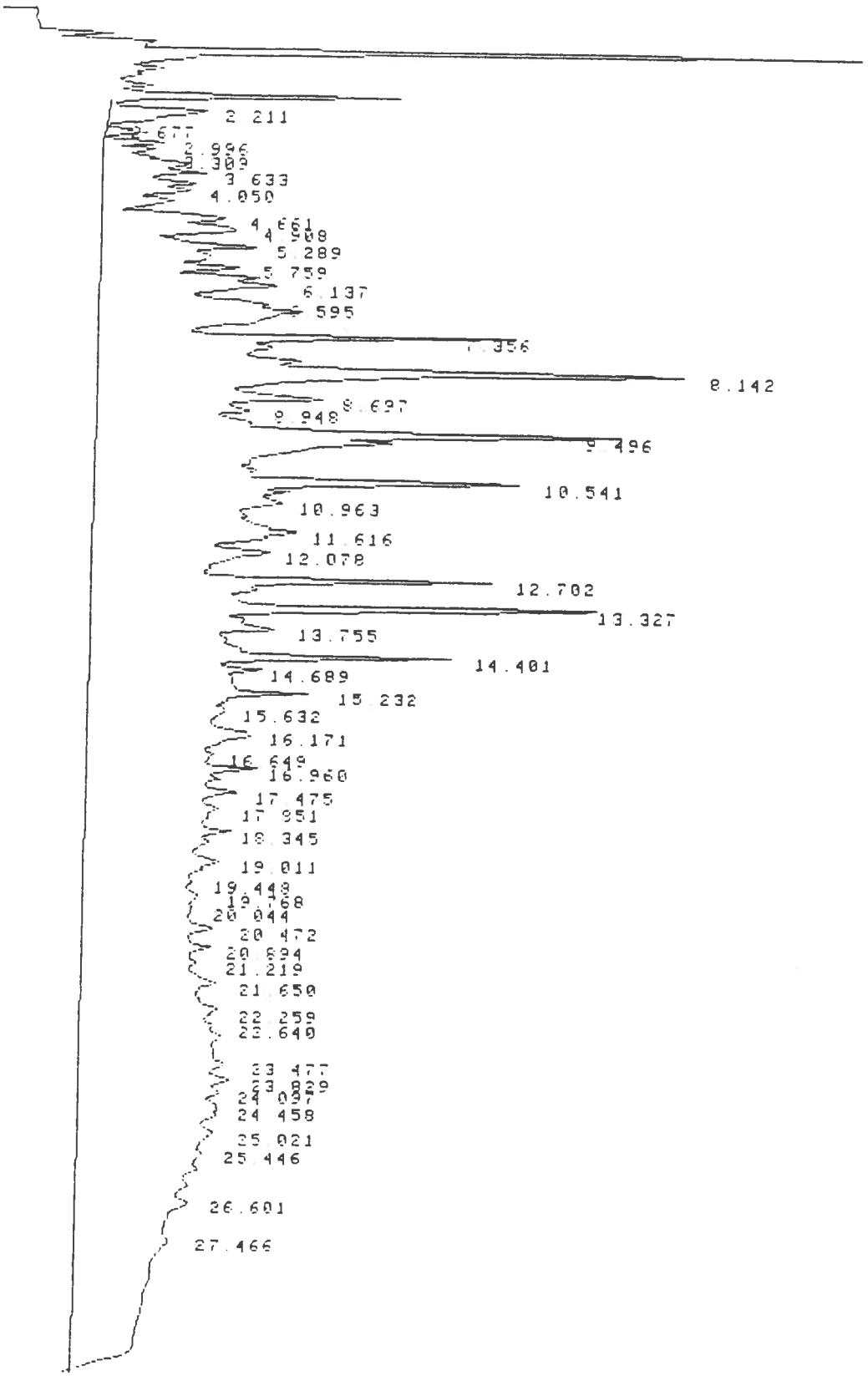
T/H-1 5.0 g

CHART SPEED 0.5 CM/MIN
ATTEN: 8 ZERO: 5%



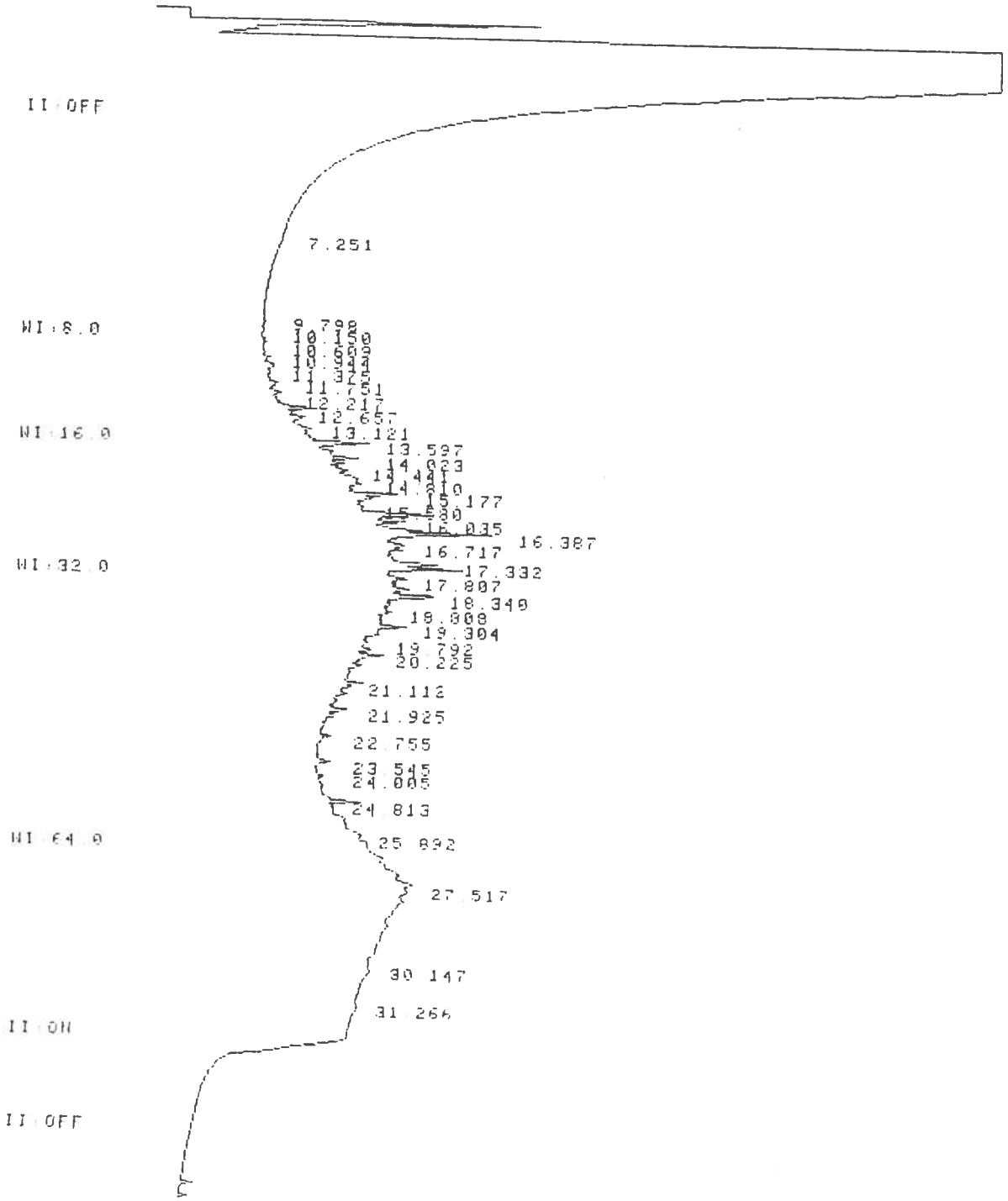
RECALCULATE ON FILE: FUEL610

CHART SPEED 0.7 CM/MIN
ATTEN: 32 ZERO: 5%



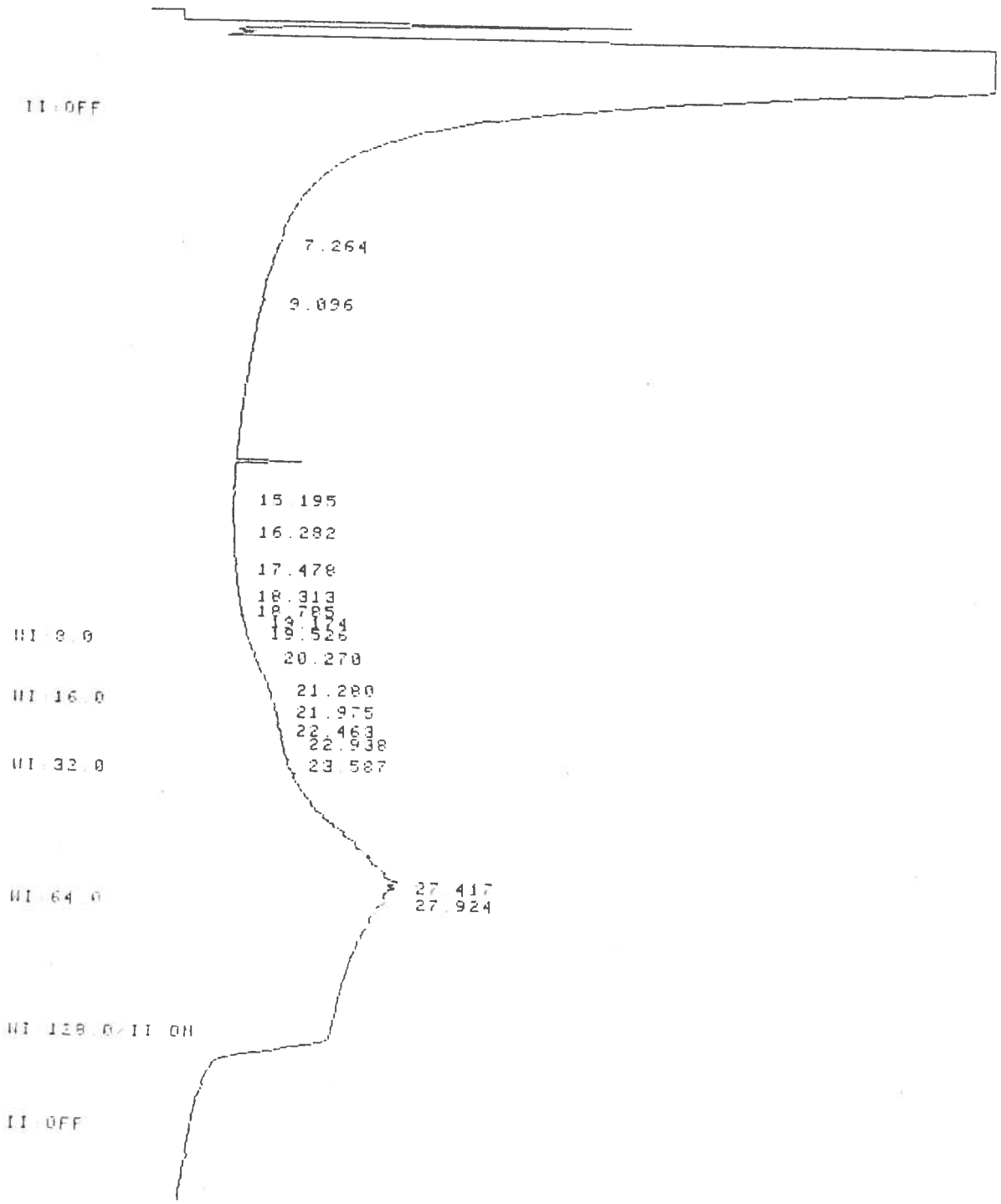
4 #14044 SG-1 4.97g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



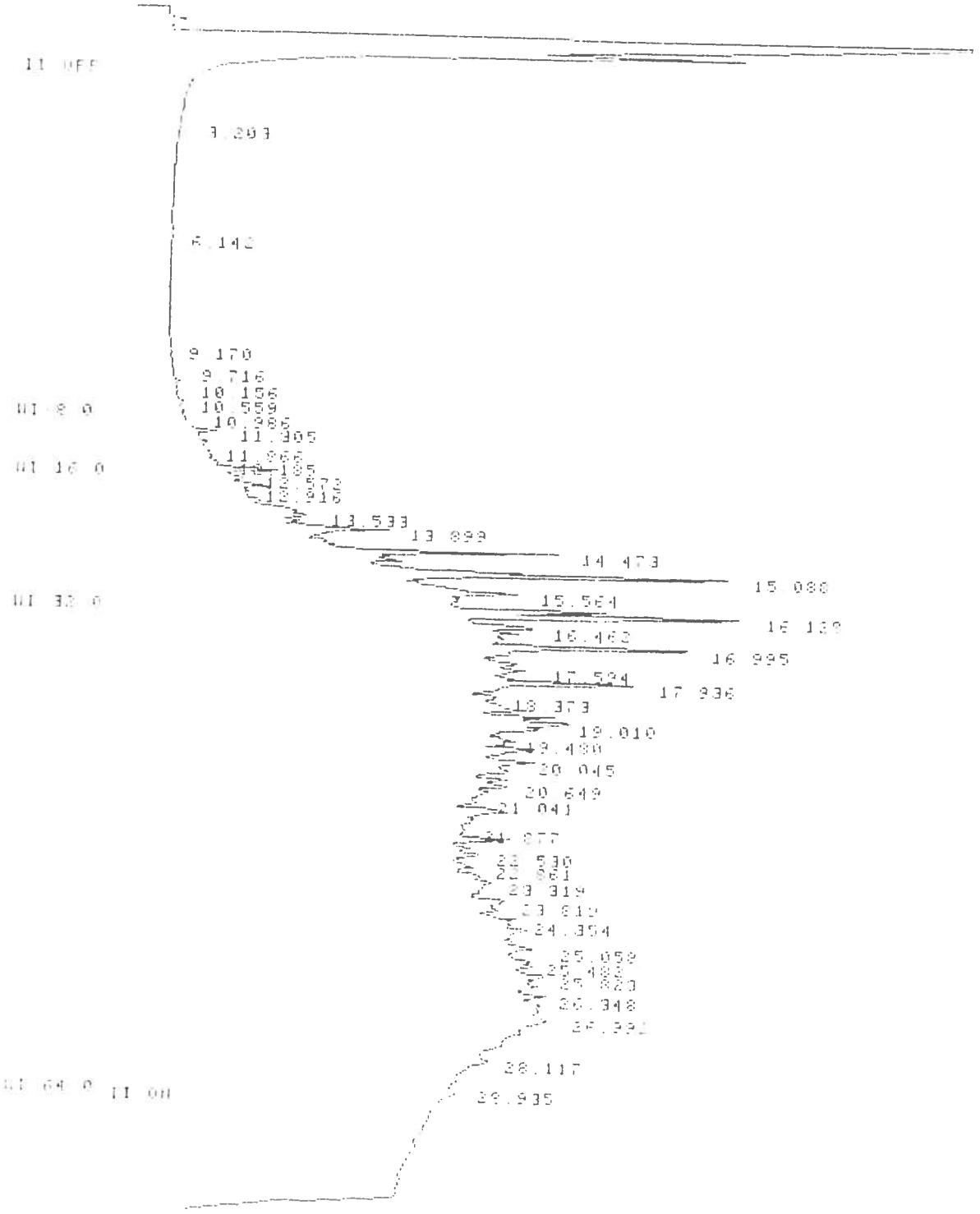
3 #19049 SS-2 4.96g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



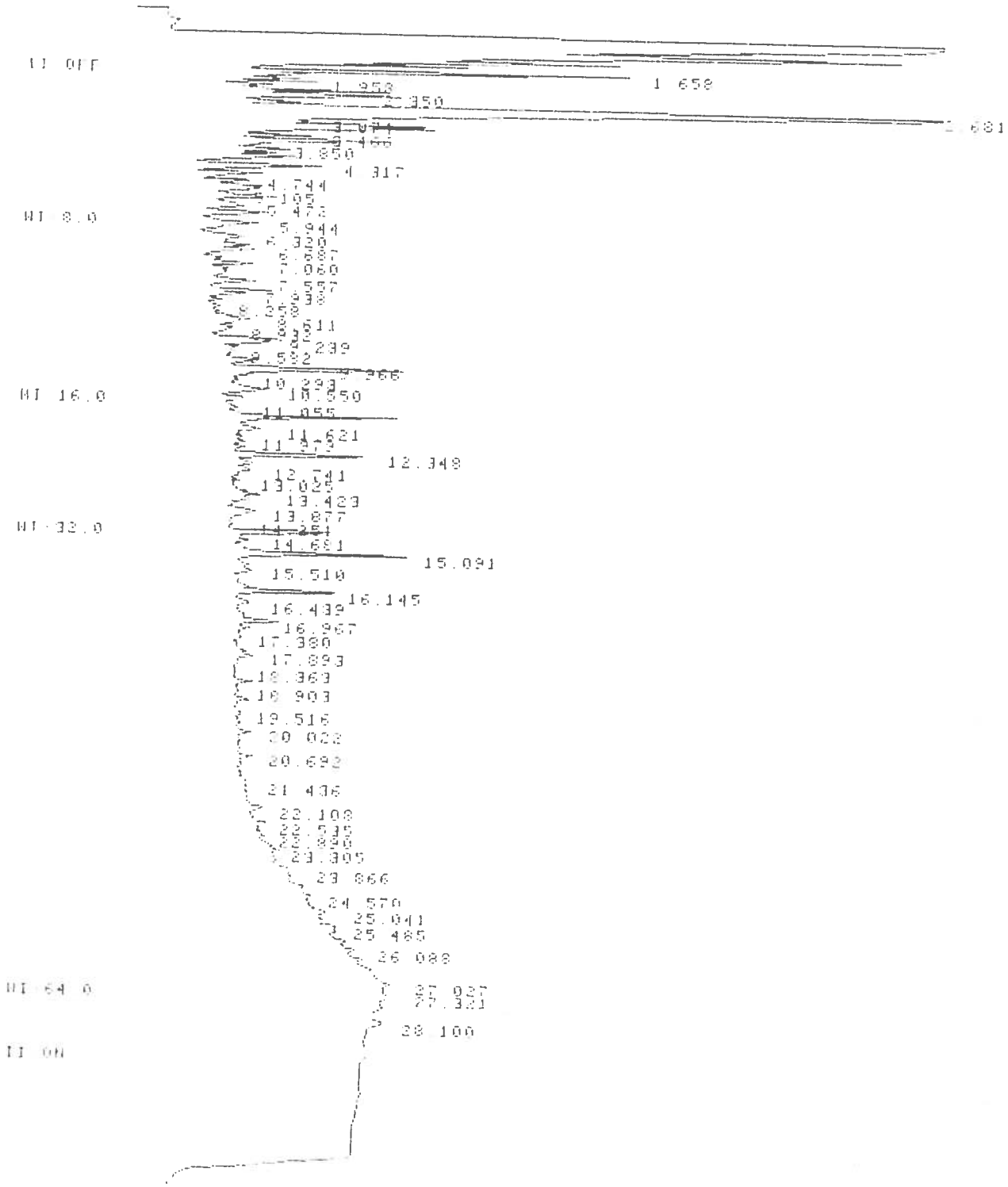
5 #19049 SS-3 5.03g DIC 1:10

CHART SPEED 0.6 CM/MIN
ATTEN: 64 ZERO: 5%



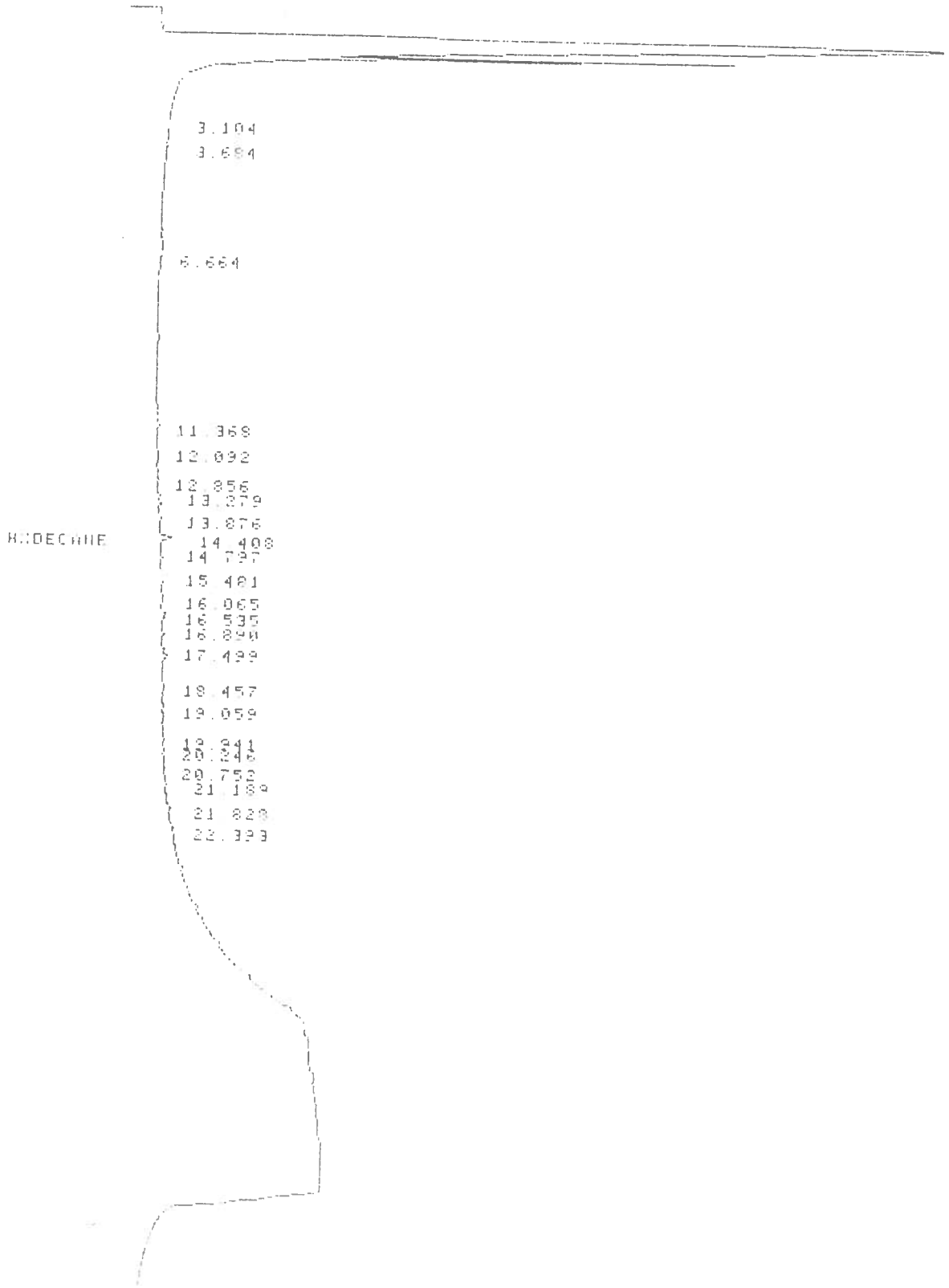
H #190419 T4A - 1a 5.000g DIL 1:4

CHART SPEED 0.6 CM/MIN
ATTEN: 64 ZERO: 5%



12 #14044 T4A-1b 4-99y

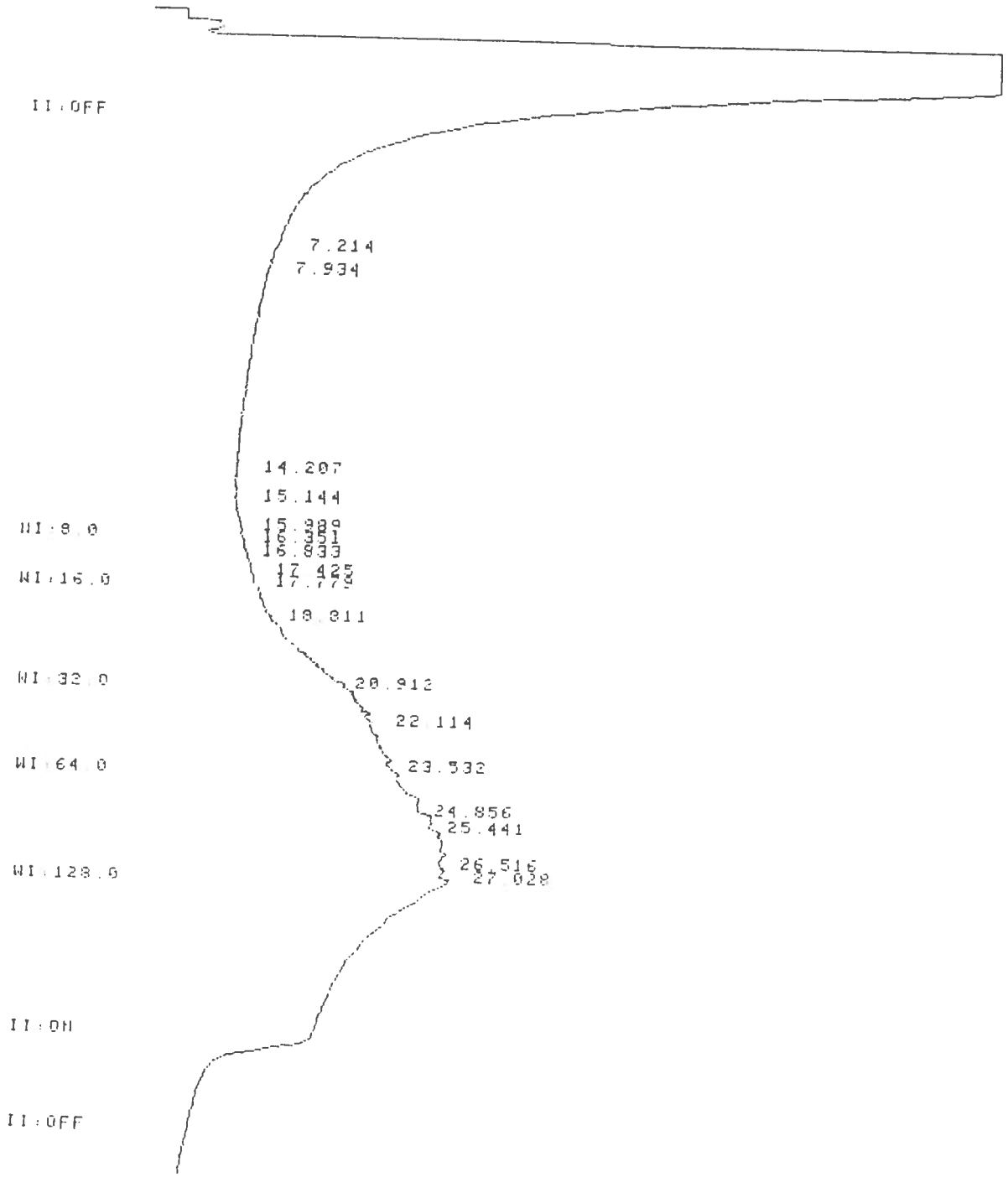
CHART SPEED 0.6 CM/MIN
ATTEN: 64 ZERO: 5%



SAVE FILE: RAW FUEL484

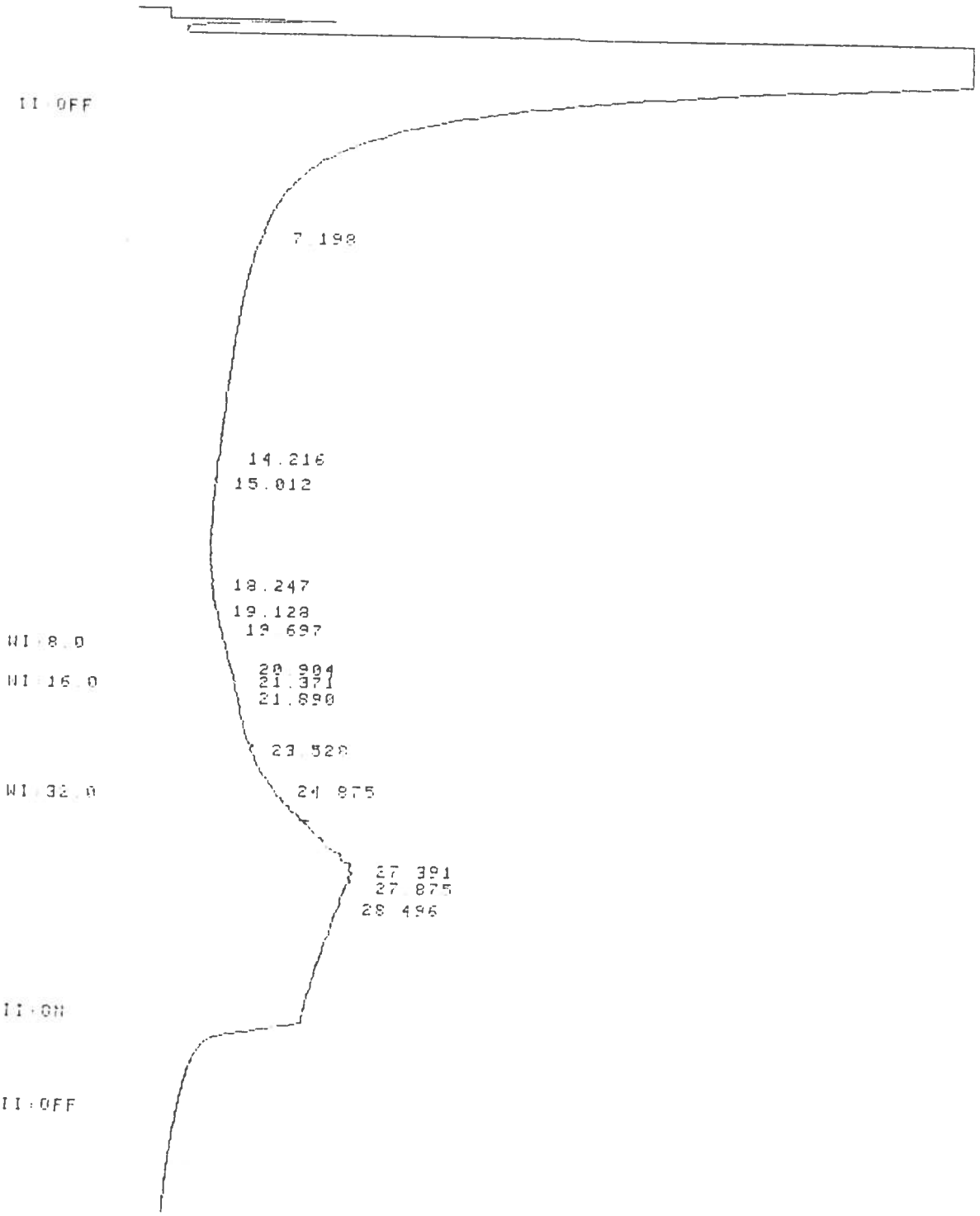
29 #14041 SS-4 5.05g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



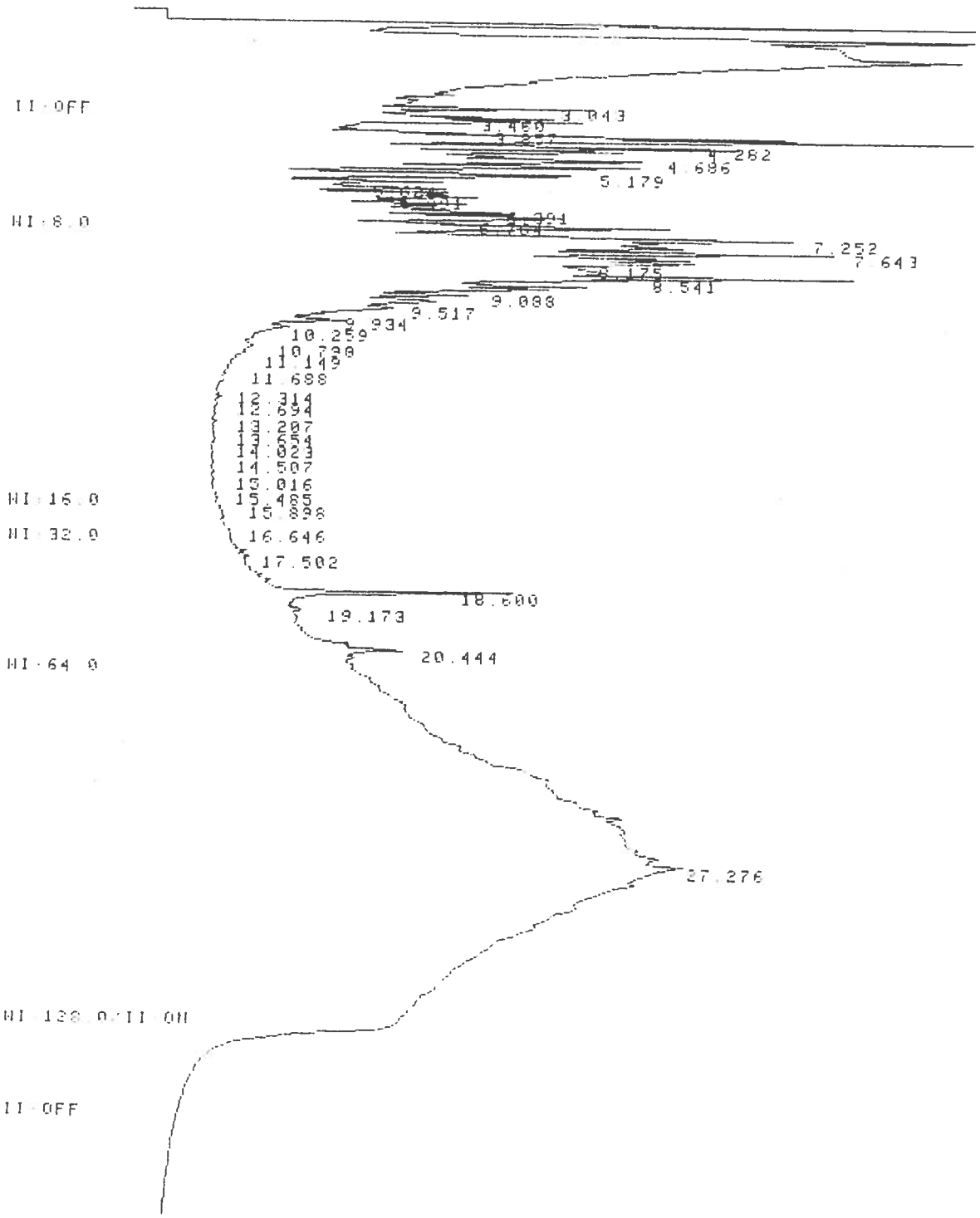
32 #19041 SS-5 5.00g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



36 REPLAY #19041 SS-7 5.04g

CHART SPEED 0.5 CM/MIN
ATTEN: 128 ZERO: 5%



19041 SS-8 5.04g

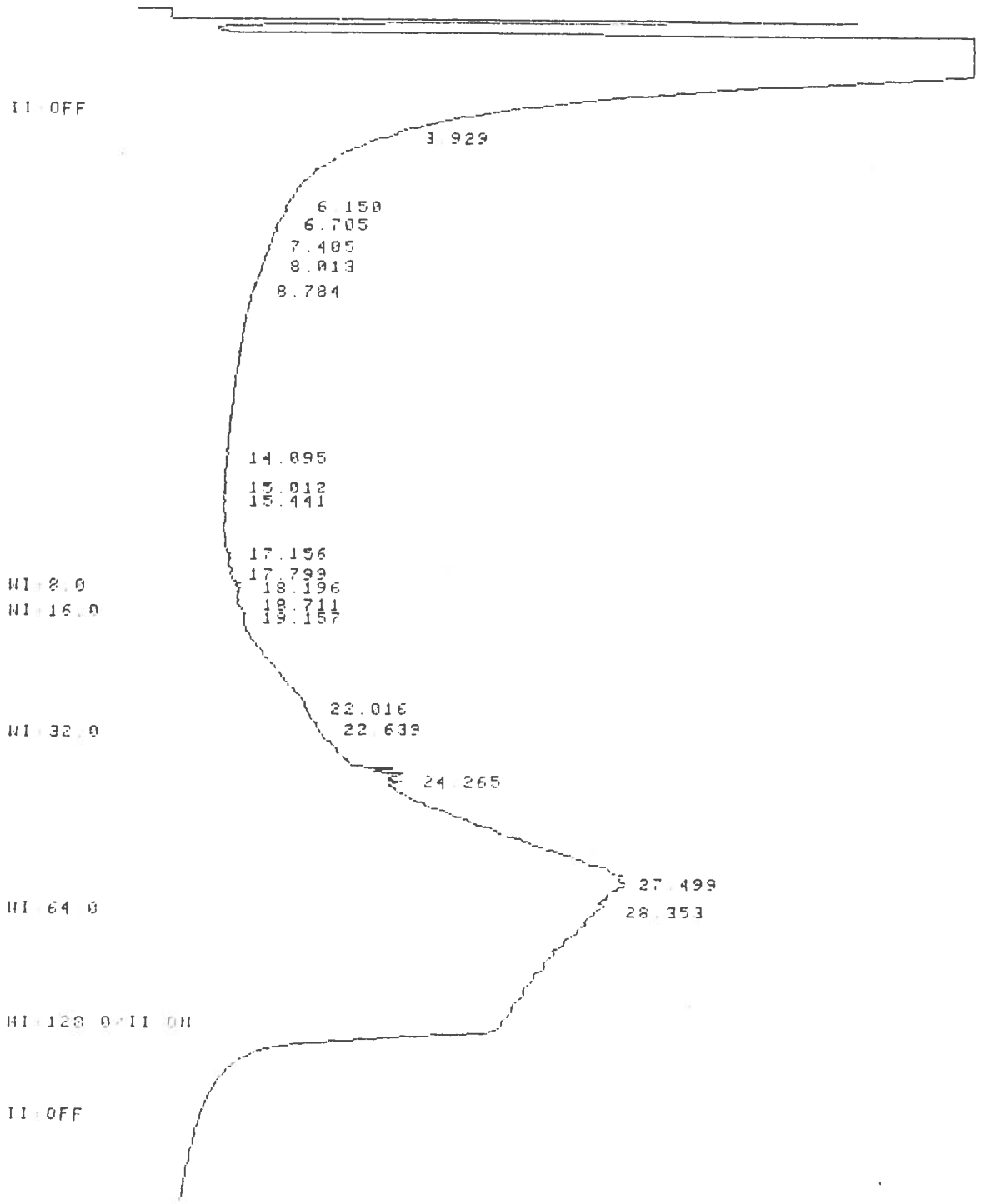
~~#19041 SS-8 5.04g~~

~~CS_2 BLANK~~

~~CS_2 BLANK~~

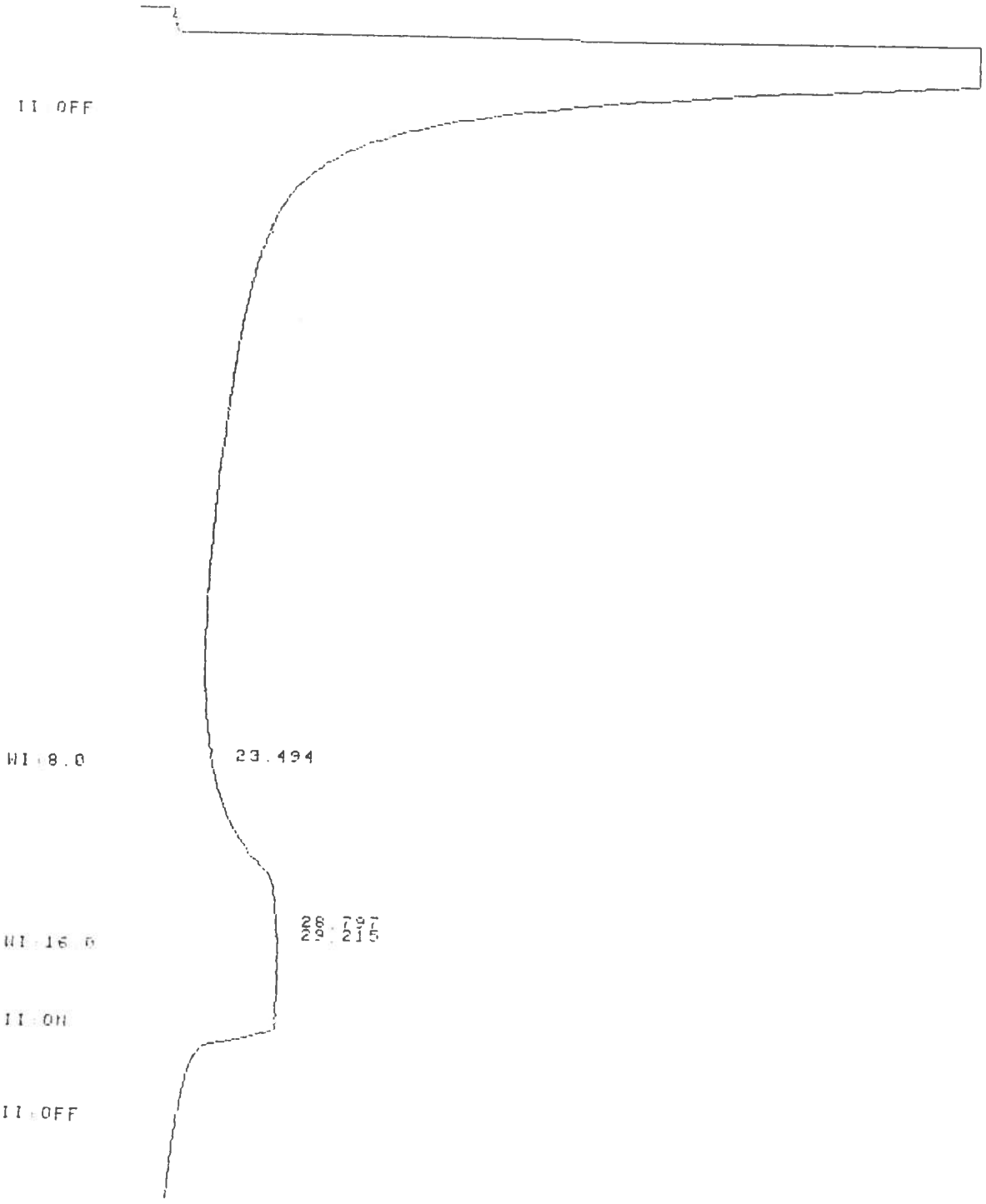
37

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



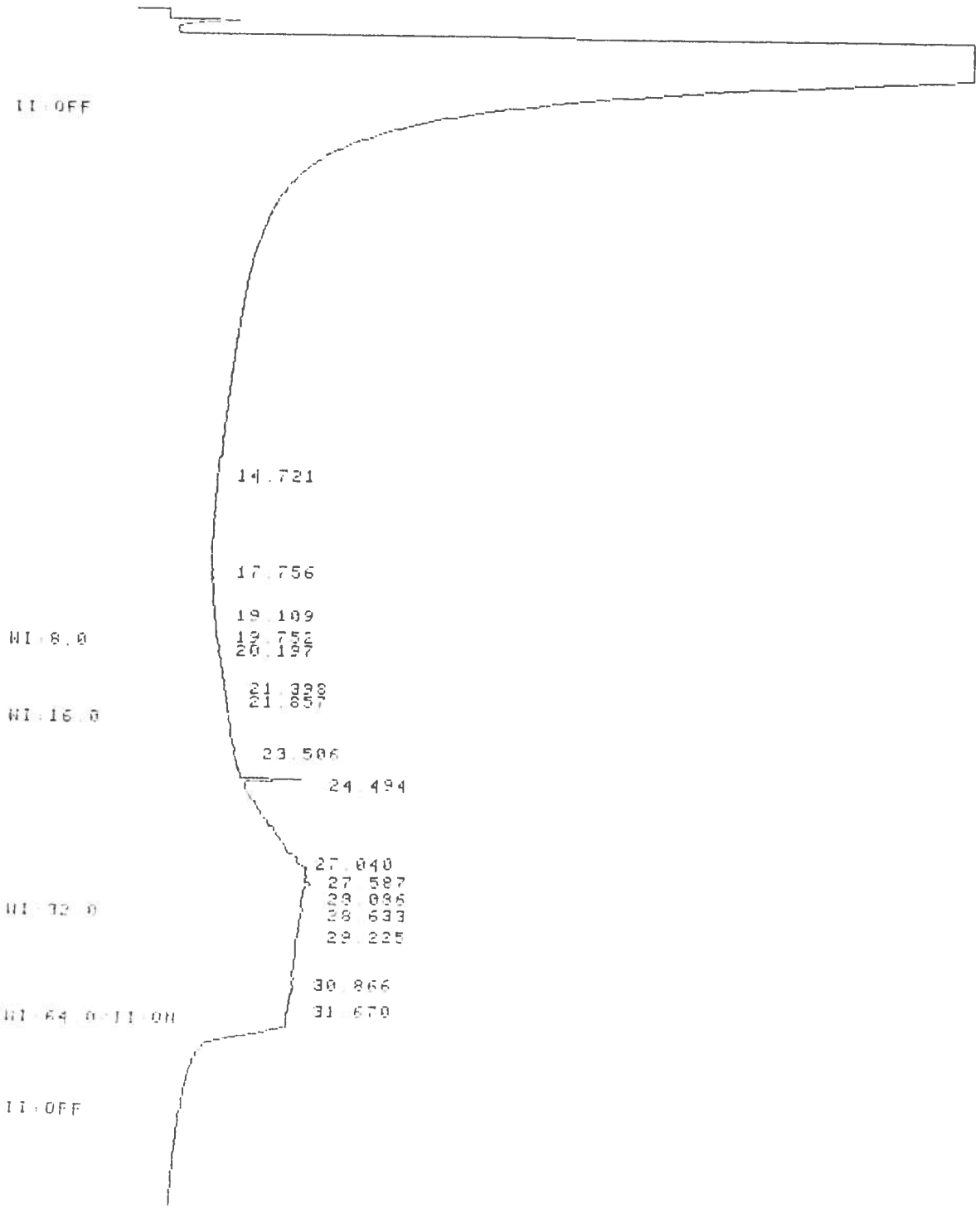
22 #14041 SS-4 5.06g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



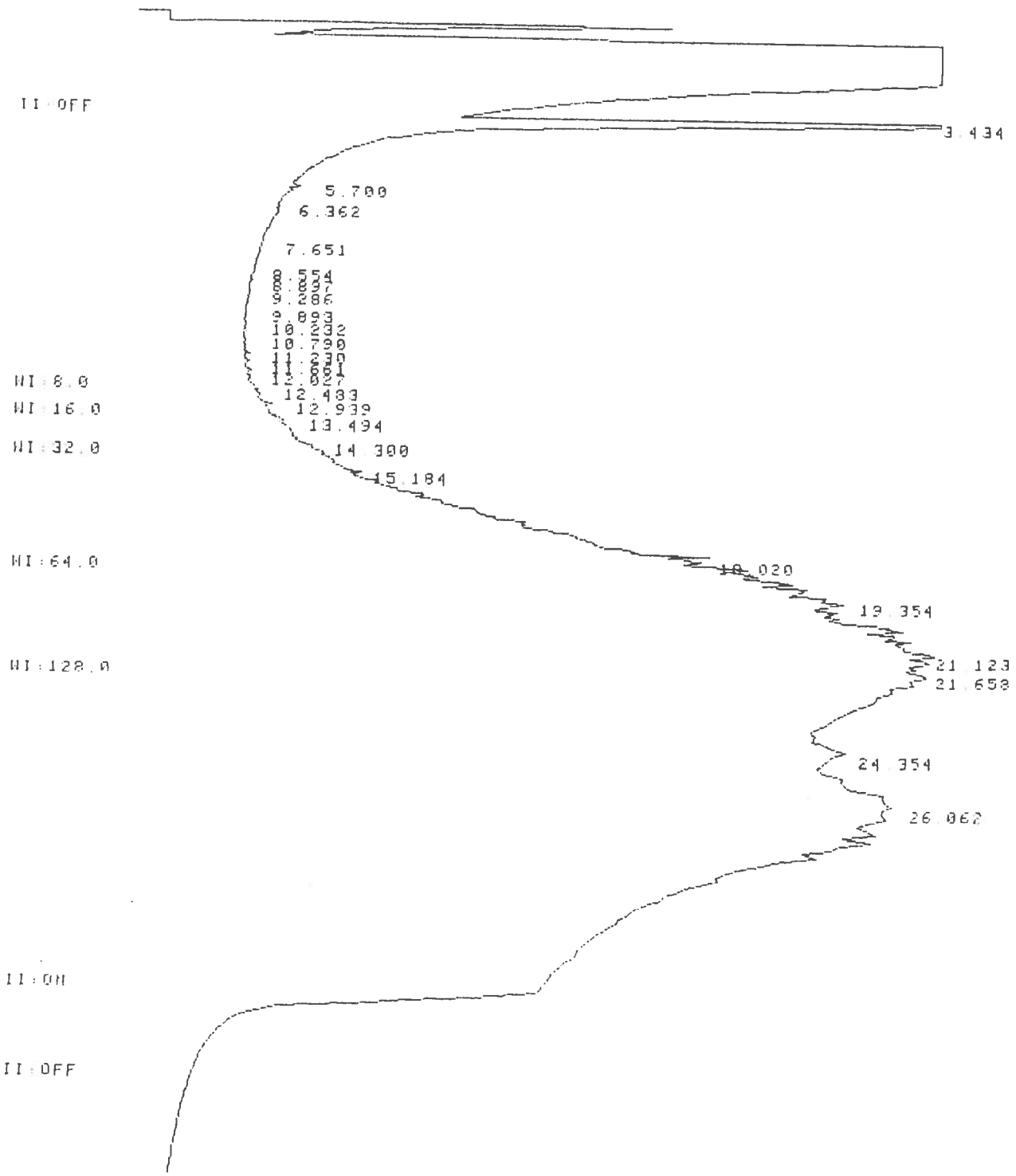
23 #14041 SS-10 5.13g

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



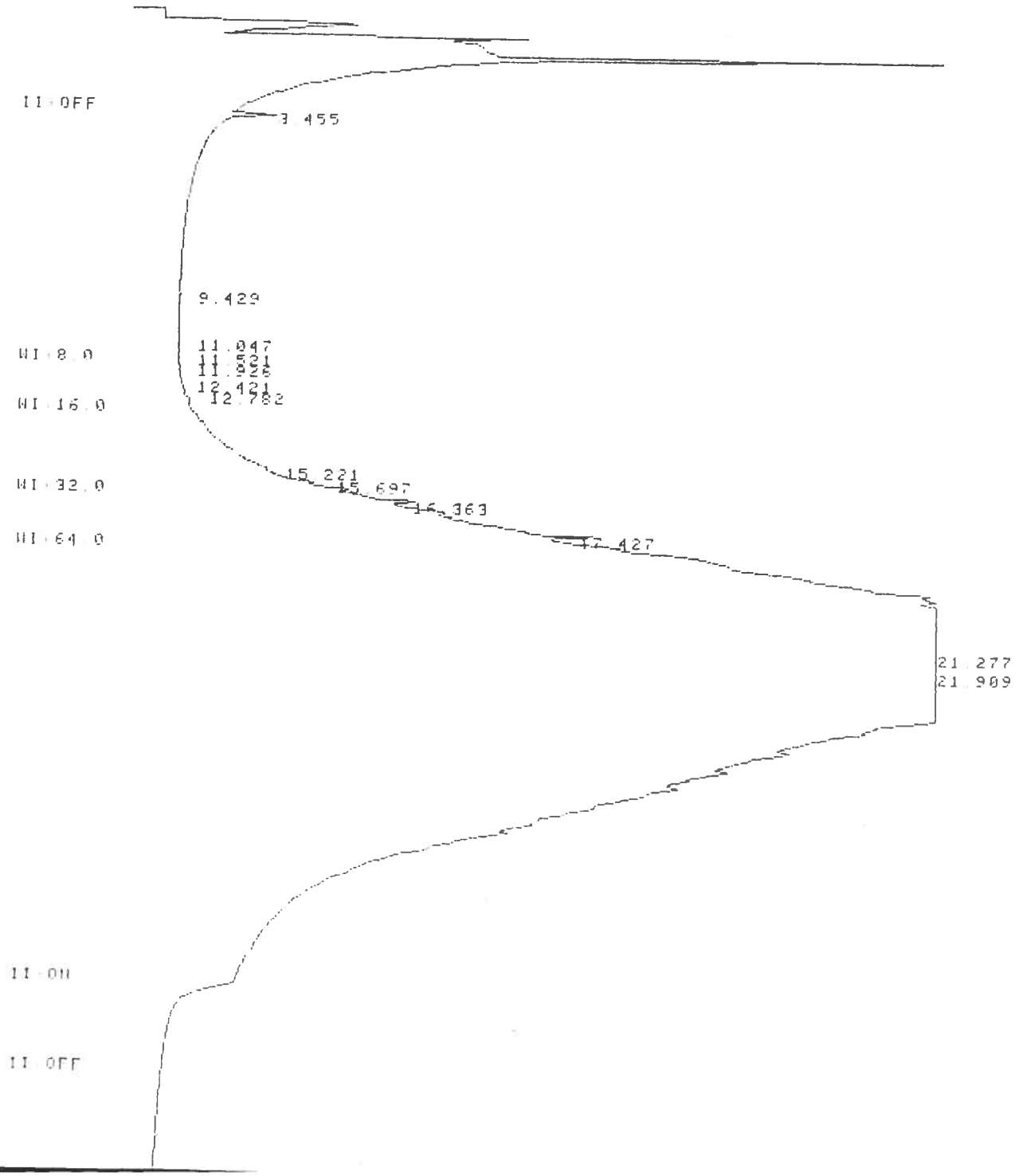
3 9 # 19041 SS-11 ~~SS-8~~ 4.95g ~~5.04g~~

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



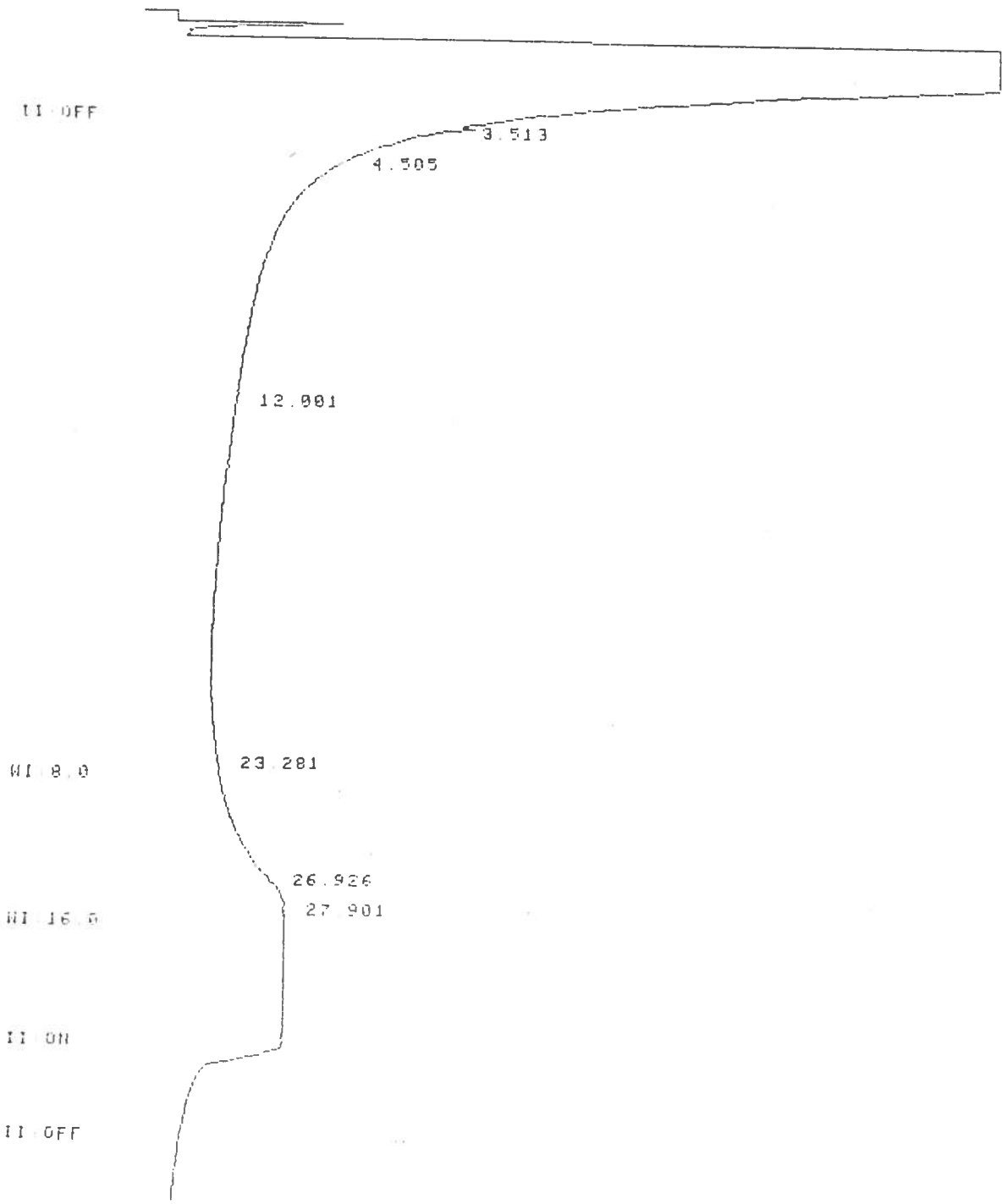
34 #14041 SS-12 3.56g

CHART SPEED 0.5 CM/MIN
ATTEN: 256 ZERO: 5%



21 #19041 SS-13 4.91g

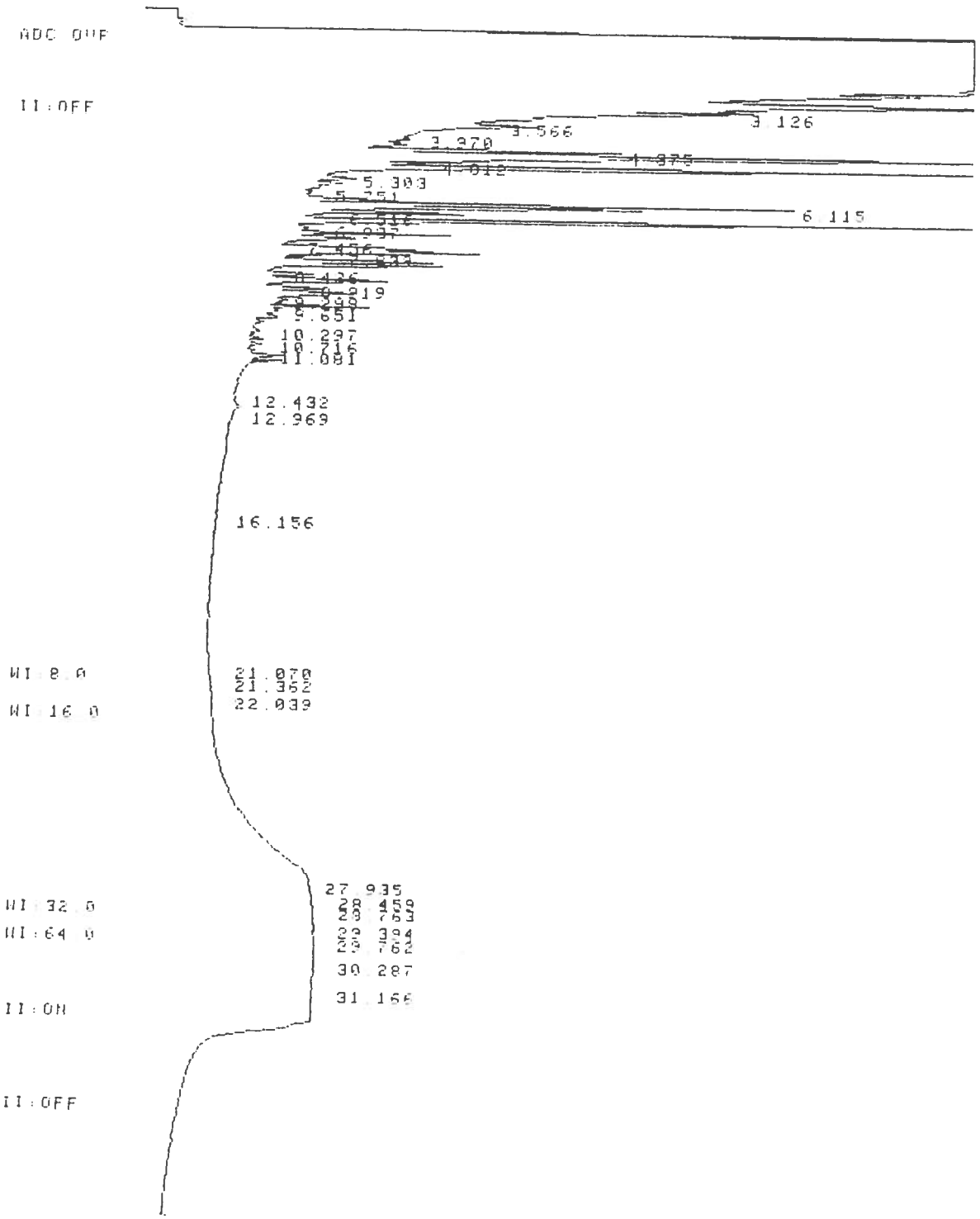
CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



12-

516.0 µg/ml GASOLINE 0723-45-4

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



2 504.4 29/mi DIESEL 0723-45-3

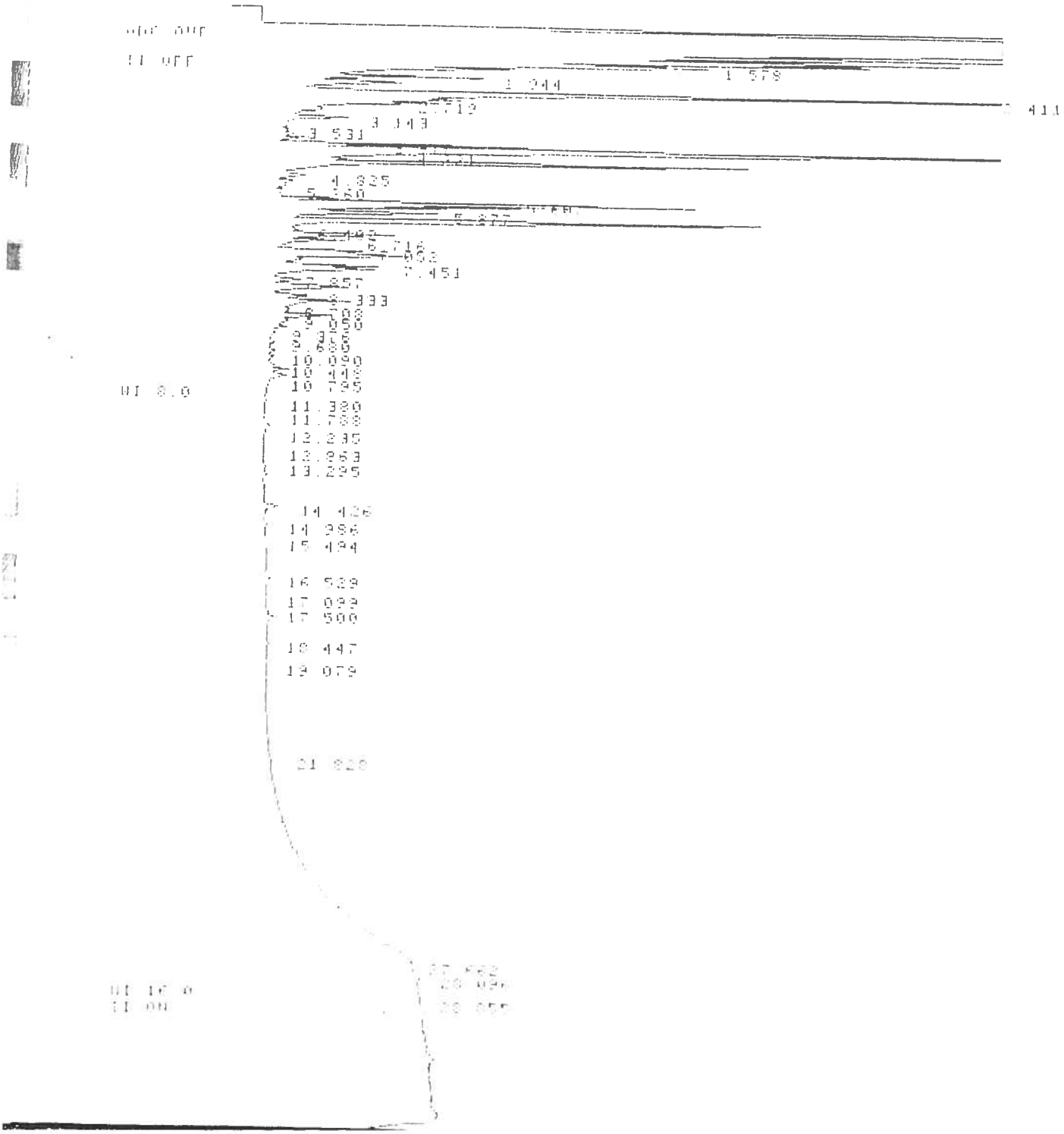
CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%

2 529.4 µg/ml DIESEL 0723-45.3

CHART SPEED 0.7 CM/MIN
ATTEN: 64 ZERO: 5%

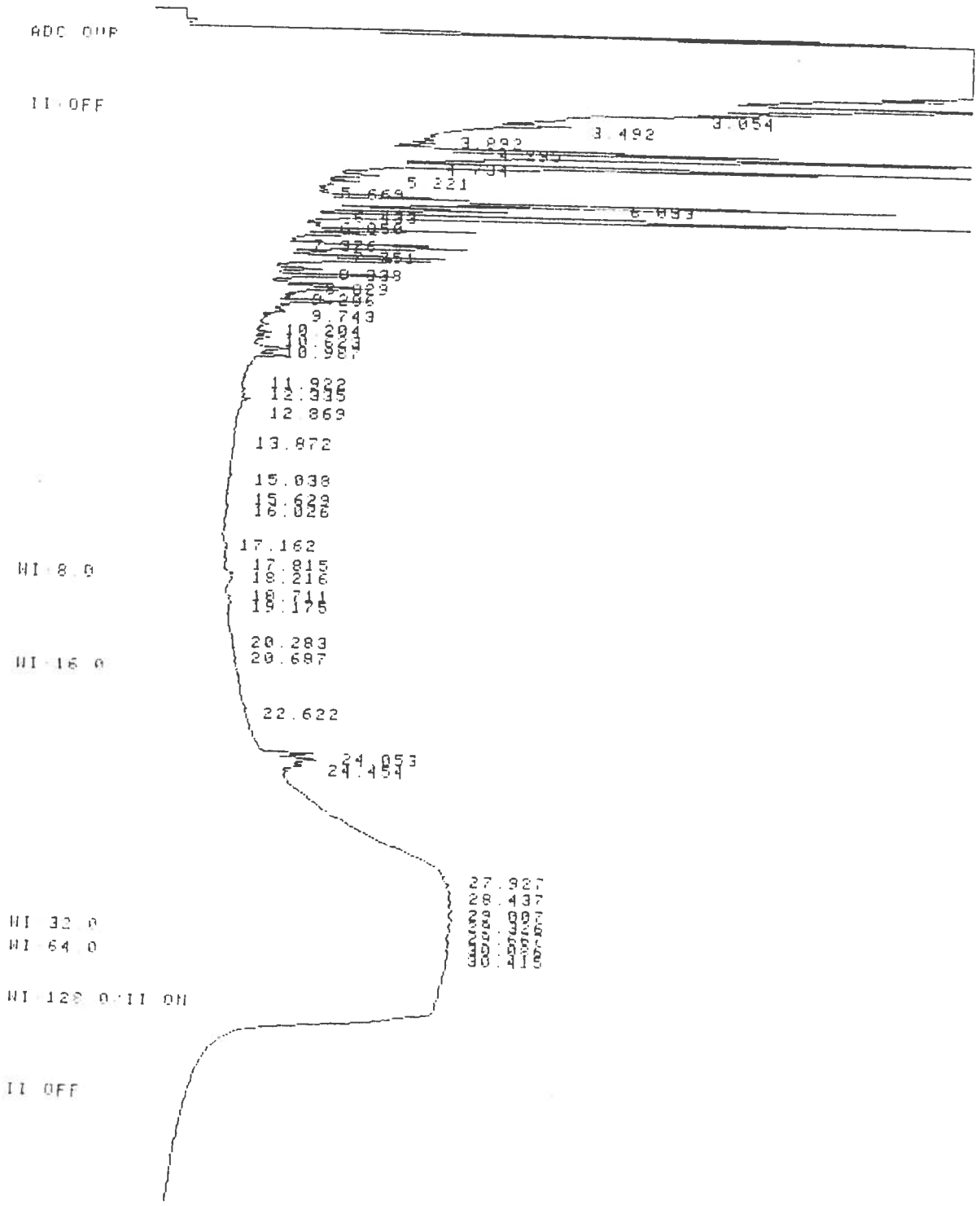
516.0 µg/ml GASOLINE 0723-45-4

CHART SPEED 0.6 CM/MIN
ATTEN: 64 ZERO: 5%



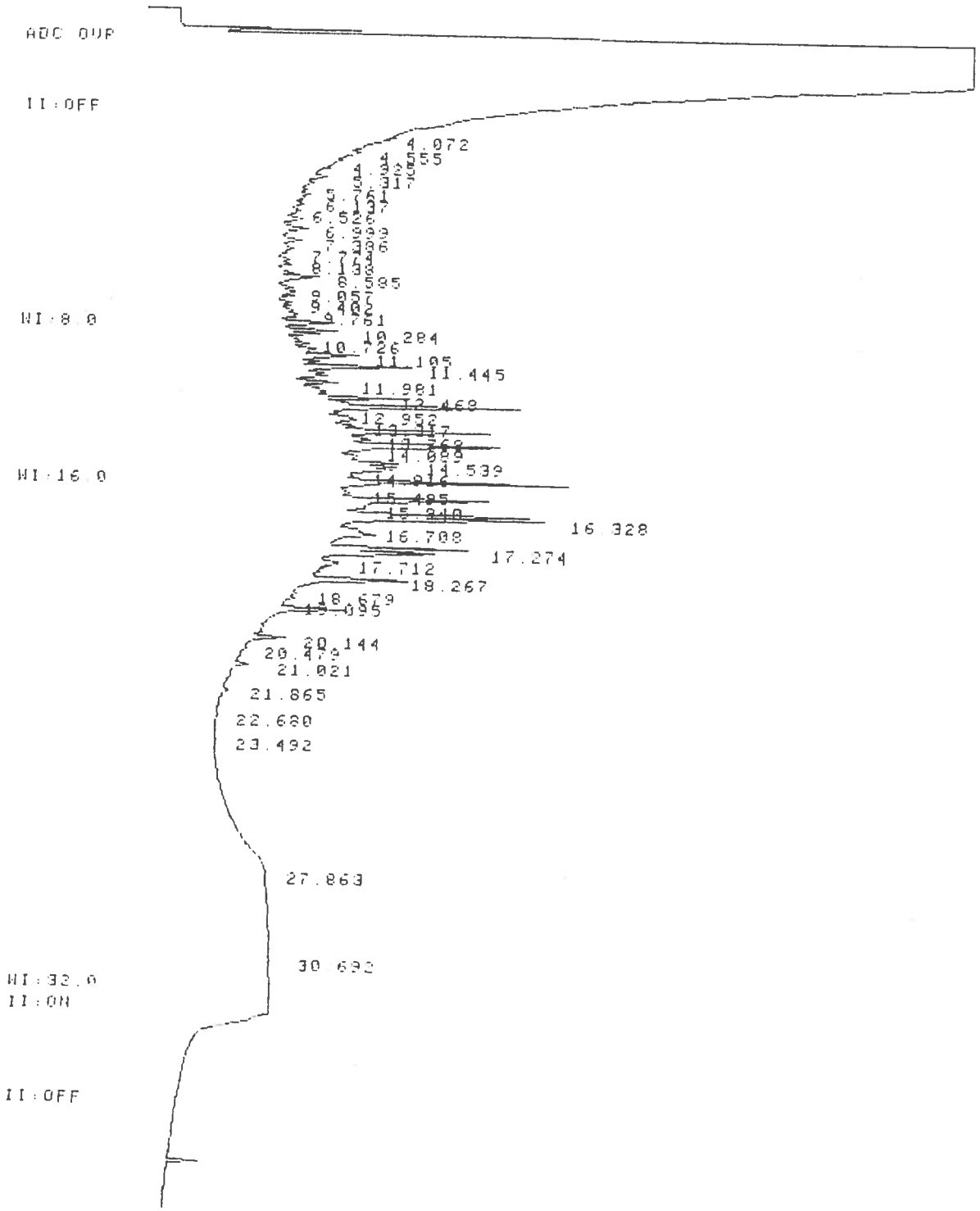
HO 516.0 ng/ml GASOLINE 0723-45-4

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



27 509.4 µg/ml DIESEL 0723-45-3

CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%



38 433.6 ng/ml SPIRITS 0723-45-2

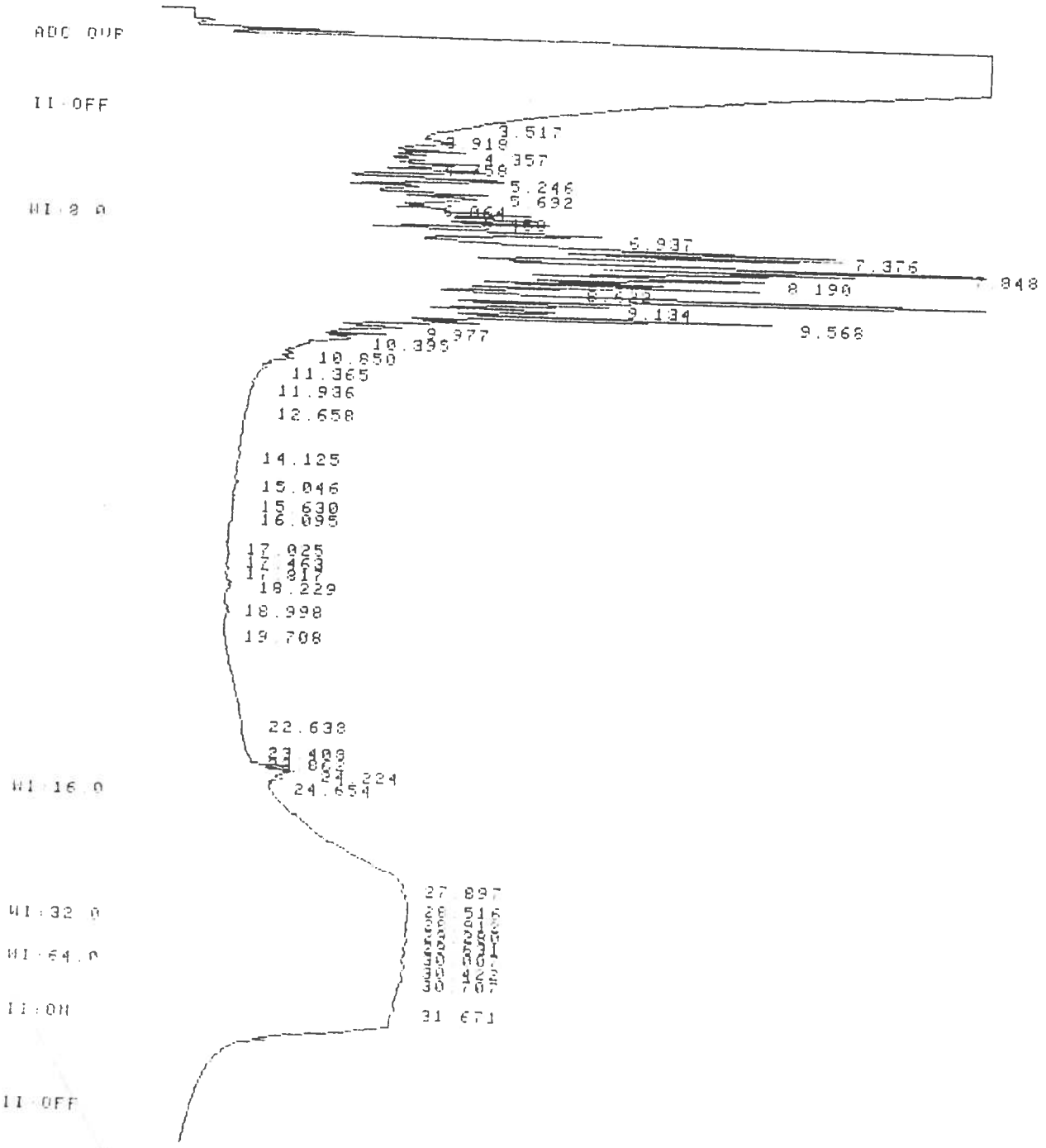



CHART SPEED 0.5 CM/MIN
ATTEN: 64 ZERO: 5%