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11 November 1997

Mr. William Wick, Esq.
Crosby, Heafey, Roach & May
1999 Harrison Street
Oakland, California 94612-3400

Subject: Groundwater Sampling Results for July 1997
4200 Alameda Avenue, Oakland, California
(EKI 930040.04)

Dear Mr. Wick:

Erler & Kalinowski, Inc. ("EKI") is pleased to submit this summary of analytical results of groundwater samples collected in July 1997 at the property located at 4200 Alameda Avenue in Oakland, California ("the site"). These analytical results represent the second semiannual monitoring event for 1997.

GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

EKI sampled the five existing monitoring wells at the site on 24 July 1997. Prior to collecting water samples, EKI measured depths to groundwater, the depths to floating product, if any, and the total depths of wells to determine the casing volume of each well to be purged. Any floating product present was first purged with a peristaltic pump. A compilation of hydrocarbon thickness and groundwater elevation measurements performed at the site is presented in Table 1.

A hand bailer was then used to purge groundwater from each well. The peristaltic pump tubing and bailer were cleaned in a 55-gallon drum with Alconox[®] soap and distilled water before use at each well. The wells were purged until three casing volumes were removed or the until the well dewatered. Groundwater purge records are included as Attachment A.

EKI used a new disposable polyethylene bailer to collect groundwater samples from each monitoring well. Water samples were collected in 40 mL glass vials and preserved with hydrochloric acid ("HCl") for analysis of volatile organic compounds ("VOCs"), purgeable petroleum hydrocarbons, and benzene, toluene, ethyl benzene, and total

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xylenes ("BTEX"). Water samples were collected in 1 liter amber glass bottles for analysis of total extractable petroleum hydrocarbons. Collected water samples were placed in a cooled container and transported to Sequoia Analytical Laboratory under chain-of-custody procedures.

SUMMARY OF GROUNDWATER SAMPLING RESULTS FOR JANUARY 1997

Immiscible hydrocarbons were noted in three of the five monitoring wells constructed at the site. Wells MW-1, MW-4 and MW-5 contained measurable amounts of floating hydrocarbons. An electronic interface probe was used to measure the thickness of floating hydrocarbons in these wells. On 24 July 1997, floating hydrocarbons measured 0.01 feet thick in well MW-1, 0.94 feet thick in well MW-4, and 2.95 feet thick in well MW-5.

Groundwater samples collected from the five monitoring wells were analyzed for the following compounds:

- Total purgeable petroleum hydrocarbons with BTEX by modified EPA Method 8015 and EPA Method 8020
- Extractable hydrocarbons by modified EPA Method 8015
- Halogenated volatile organic compounds by EPA Method 8010

Groundwater sample analytical results are summarized in Tables 2 through 4 and shown on Figures 1 and 2. Copies of laboratory analytical reports are included as Attachment B. Review of these tables and figures indicates that chemical concentrations in groundwater at the site remain essentially unchanged from the results of previous sampling events.

Total Petroleum Hydrocarbons in Groundwater

Total petroleum hydrocarbons ("TPH") in groundwater samples were quantitated against both gasoline and diesel standards. Sequoia Analytical found that the chromatogram patterns of extractable hydrocarbons did not resemble that of a diesel fuel in groundwater samples collected from most of the wells. The laboratory analytical reports (Attachment B) describe most fuel fingerprints of the petroleum hydrocarbons as weathered crude oil

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or unidentified petroleum hydrocarbons with carbon chain lengths in the range of C₆ to C₄₀.

Reported concentrations are set forth in Table 2 and shown on Figure 1. However, these results should not be interpreted as the levels of TPH solely dissolved in groundwater. Immiscible hydrocarbons were observed in groundwater samples collected from the monitoring wells. Measured TPH concentrations likely include quantitation of TPH in both immiscible and soluble phases.

BTEX and Halogenated VOCs in Groundwater

BTEX and certain halogenated VOCs were detected in groundwater samples collected from the site. The detected concentrations for July 1997 are set forth in Tables 3 and 4 and shown on Figure 2. The actual dissolved concentrations of these chemicals in groundwater are unknown, however. Because BTEX and halogenated VOCs can be expected to partition between groundwater and immiscible hydrocarbons, measured concentrations of these chemicals may be largely associated with immiscible hydrocarbons in groundwater at the site.

QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

To provide a check on monitoring well sampling techniques, EKI collected duplicate samples from MW-5. Differences in concentrations of VOCs and total petroleum hydrocarbons between duplicate samples indicate that acceptable precision was achieved.

One trip blank was included in the cooler containing groundwater samples transported to the laboratory. No VOCs or purgeable petroleum hydrocarbons were detected in the trip blank sample.

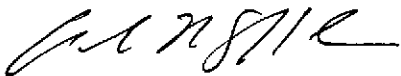
Review of matrix spike, matrix spike duplicate, and laboratory control spike analytical results included with the laboratory reports (Attachment B) indicate that acceptable accuracy and precision were achieved.

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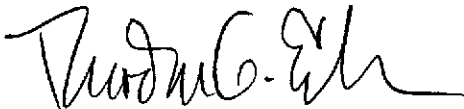
Please call if you have questions or wish to discuss this report in greater detail.

Very truly yours,

ERLER & KALINOWSKI, INC.



Andrew N. Safford, P.E.
Project Manager



Theodore G. Erler, P.E.
President

attachment

TABLE 1
SUMMARY OF WATER LEVEL MEASUREMENTS
 4200 Alameda Avenue, Oakland, California

Well ID	Reference Elevation (ft, msl); (a)	Sample Date	Depth to Hydrocarbon (ft)	Depth to Groundwater (ft)	Thickness of Hydrocarbon (ft)	Groundwater Surface Elevation (ft, msl); (b)	
MW-1	15	7/26/95	-	10.07	-	4.93	
		8/28/95	-	10.75	-	4.25	
		9/12/95	11.03	11.05	0.02	3.97	
	14.86 (c)	1/2/96	-	10.38	-	4.62	
		1/3/96	-	10.23	-	4.77	
		5/8/96	-	8.77	-	6.09	
		6/3/96	-	8.99	-	5.87	
		6/24/96	-	9.36	-	5.50	
		7/8/96	-	9.76	-	5.10	
		8/7/96	10.41	10.42	0.01	4.45	
		9/4/96	10.66	10.70	0.04	4.20	
		9/18/96	10.88	10.94	0.06	3.97	
		10/1/96	11.02	11.11	0.09	3.83	
		14.58 (d)	11/7/96	11.75	11.91	0.16	2.82
			12/6/96	11.86	11.93	0.07	2.72
			1/8/97	12.01	12.17	0.16	2.56
			1/24/97	-	10.95	-	3.63
	1/27/97		-	9.57	-	5.01	
	2/4/97		-	9.08	-	5.50	
	3/7/97		-	9.70	-	4.88	
	4/8/97		10.80	10.83	0.03	3.78	
	5/8/97		11.10	11.12	0.02	3.48	
	6/6/97		12.51	9.78	2.73	4.03	
	7/24/97	10.32	10.31	0.01	4.28		
	9/3/97	10.52	10.46	0.06	4.12		

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Well ID	Reference Elevation (ft, msl); (a)	Sample Date	Depth to Hydrocarbon (ft)	Depth to Groundwater (ft)	Thickness of Hydrocarbon (ft)	Groundwater Surface Elevation (ft, msl); (b)
MW-2	14.10	7/26/95	-	6.39	-	7.71
		8/28/95	-	8.10	-	6.00
		9/12/95	-	8.63	-	5.47
		1/2/96	-	7.89	-	6.21
		1/3/96	-	7.39	-	6.71
	14.12 (c)	5/8/96	-	6.43	-	7.69
		6/3/96	-	7.04	-	7.08
		6/24/96	-	7.78	-	6.34
		7/8/96	-	7.97	-	6.15
		8/7/96	8.08	8.09	0.01	6.04
		9/4/96	8.64	8.66	0.02	5.48
		9/18/96	8.76	8.78	0.02	5.36
		10/1/96	-	8.64	-	5.48
		11/7/96	8.84	8.87	0.03	5.28
		12/6/96	8.23	8.26	0.03	5.89
		1/8/97	-	7.24	-	6.88
		1/24/97	-	7.12	-	7.00
		1/27/97	-	7.31	-	6.81
		2/4/97	-	7.03	-	7.09
		3/7/97	-	7.01	-	7.11
4/8/97	8.35	8.38	0.03	5.77		
5/8/97	7.86	7.87	0.01	6.26		
6/6/97	-	7.76	-	6.36		
7/24/97	7.99	7.98	0.01	6.14		
9/3/97	-	7.94	-	6.18		

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MW-3	12.59	7/26/95	-	8.65	-	3.94
		8/28/95	-	9.27	-	3.32
		9/12/95	-	9.55	-	3.04
		1/2/96	-	4.06	-	8.53
		1/3/96	-	3.83	-	8.76
		5/8/96	-	5.92	-	6.67
		6/3/96	-	7.05	-	5.54
		6/24/96	-	8.62	-	3.97
		7/8/96	8.85	8.86	0.01	3.74
		8/7/96	9.28	9.29	0.01	3.31
		9/4/96	-	9.60	-	2.99
		9/18/96	-	9.78	-	2.81
		10/1/96	-	9.78	-	2.81
		11/7/96	-	7.96	-	4.63
		12/6/96	-	7.20	-	5.39
		1/8/97	-	4.34	-	8.25
		1/24/97	-	3.81	-	8.78
		1/27/97	-	3.92	-	8.67
		2/4/97	-	4.84	-	7.75
		3/7/97	-	6.34	-	6.25
4/8/97	-	7.81	-	4.78		
5/8/97	-	7.94	-	4.65		
6/6/97	-	7.90	-	4.69		
7/24/97	-	9.41	-	3.18		
9/3/97	-	7.43	-	5.16		

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MW-4	13.47	7/26/95	-	9.95	-	3.52
		8/28/95	10.54	10.75	0.21	2.91
		9/12/95	10.72	11.13	0.41	2.71
		1/2/96	10.57	11.29	0.72	2.83
		1/3/96	11.23	11.23	0.00	2.24
	13.18 (c)	5/8/96	8.94	9.62	0.02	4.17
		6/3/96	9.14	9.83	0.02	3.97
		6/24/96	9.22	9.68	0.46	3.91
		7/8/96	9.41	9.92	0.51	3.72
		8/7/96	9.91	10.54	0.63	3.21
		9/4/96	10.27	11.06	0.79	2.83
		9/18/96	10.47	11.42	0.95	2.62
		10/1/96	10.60	11.57	0.97	2.48
		11/7/96	10.90	12.35	1.45	2.14
		12/6/96	10.57	11.72	1.15	2.50
		1/8/97	8.61	9.46	0.85	4.49
		1/24/97	8.41	9.16	0.75	4.70
		1/27/97	8.01	8.04	0.03	5.17
		2/4/97	8.12	8.35	0.23	5.04
		3/7/97	9.04	9.43	0.39	4.10
4/8/97	9.59	10.02	0.43	3.55		
5/8/97	9.86	10.27	0.41	3.28		
6/6/97	10.65	10.13	0.52	3.00		
7/24/97	11.55	10.61	0.94	2.48		
9/3/97	11.69	10.68	1.01	2.40		

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MW-5	13.41	7/25/95	8.83	8.88	0.05	4.58
		8/28/95	9.30	11.32	2.02	3.91
		9/12/95	9.48	11.99	2.51	3.68
		1/2/96	8.63	10.93	2.30	4.55
		1/3/96	11.17	11.17	0.00	2.24
	14.41 (c)	5/8/96	8.10	13.34	0.02	5.79
		6/3/96	8.81	13.89	0.02	5.09
		6/24/96	8.84	11.21	2.37	5.33
		7/8/96	9.33	11.96	0.02	4.82
		8/7/96	9.90	13.10	3.20	4.19
		9/4/96	10.35	13.55	3.20	3.74
		9/18/96	10.58	13.74	3.16	3.51
	14.08 (d)	10/1/96	10.67	16.00	5.33	3.21
		11/7/96	10.70	13.59	2.89	3.09
		12/6/96	10.39	12.66	2.27	3.46
		1/8/97	8.96	10.84	1.88	4.93
		1/24/97	8.71	10.92	2.21	5.15
		1/27/97	8.76	9.23	0.47	5.27
		2/4/97	8.46	9.00	0.54	5.57
		3/7/97	9.01	10.47	1.46	4.93
4/8/97	9.57	11.61	2.04	4.31		
5/8/97	9.65	12.05	2.40	4.19		
6/6/97	12.51	9.78	2.73	4.03		
7/24/97	13.25	10.30	2.95	3.49		
9/3/97	13.12	10.39	2.73	3.42		

Notes:

- (a) Elevations are expressed in feet above mean sea level ("msl").
- (b) Groundwater elevations have been adjusted for effect of floating hydrocarbons, if any, measured in wells. A specific gravity of 0.9 was assumed when compensating for the depression of the groundwater surface due to floating hydrocarbons.
- (c) Reference elevations are based on survey measurements conducted by MacLeod and Associates, Inc. on 20 June 1996 following grading and paving of the site upon completing demolition and excavation activities.
- (d) Monitoring well MW-1 casing was trimmed 0.275 feet and monitoring well MW-5 casing was trimmed 0.328 feet on 1 October 1996 to allow additional clearance for locking seals below surface completion of these wells.

TABLE 2
TOTAL PETROLEUM HYDROCARBON (TPH) ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
4200 Alameda Avenue, Oakland, California

Well ID	Sample Date	TPH (as gasoline) Concentration (a)		TPH (as diesel) Concentration (a)	
		(ug/L)	Description of Chromatogram Pattern	(ug/L)	Description of Chromatogram Pattern
MW-1	7/26/95	11,000	Pattern characteristic of gasoline	29,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₃₀ range
	6/24/96	7,800	Pattern characteristic of gasoline	39,000	Pattern characteristic of diesel in the C ₉ -C ₁₄ range
	1/24/97	7,900	Pattern characteristic of gasoline	30,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range
	7/24/97	8,200	Pattern characteristic of gasoline	24,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range
MW-2	7/26/95	3,600	Pattern characteristic of gasoline	22,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₃₉ range
	6/24/96	2,700	Pattern characteristic of gasoline	12,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₃₆ range
	1/24/97	4,300	Pattern characteristic of gasoline	7,200	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range
	7/24/97	2,000	Pattern characteristic of gasoline	5,400	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range
	7/24/97 dup	2,000	Pattern characteristic of gasoline	6,200	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range
MW-3	7/25/95	200	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₈	5,600	Unidentified pattern of hydrocarbons in C ₉ -C ₃₈ range
	7/25/95 dup	180	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₁₀	7,000	Unidentified pattern of hydrocarbons in C ₉ -C ₃₈ range
	6/24/96	57	Pattern characteristic of gasoline	4,900	Unidentified pattern of hydrocarbons in C ₉ -C ₃₈ range
	1/24/97	170	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₈	2,100	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range

TABLE 2
TOTAL PETROLEUM HYDROCARBON (TPH) ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
 4200 Alameda Avenue, Oakland, California

Well ID	Sample Date	TPH (as gasoline) Concentration (a)		TPH (as diesel) Concentration (a)	
		(ug/L)	Description of Chromatogram Pattern	(ug/L)	Description of Chromatogram Pattern
MW-3	7/24/97	1,500	Pattern characteristic of gasoline and unidentified hydrocarbons in C ₈ -C ₁₂ range	1,500	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range
MW-4	7/25/95	1,400	Pattern characteristic of gasoline	24,000	Pattern characteristic of crude oil
	6/24/96	5,500	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₁₁	850,000	Unidentified pattern of hydrocarbons in C ₉ -C ₄₀ range
	1/24/97	3,500	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₈	33,000	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range
	7/24/97	3,400	Pattern characteristic of gasoline	6,400,000	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range
MW-5	7/26/95	4,800	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₁₀	7,500	Unidentified pattern of hydrocarbons in C ₉ -C ₃₄ range
	6/24/96	2,000	Pattern characteristic of gasoline	520,000	Unidentified pattern of hydrocarbons in C ₉ -C ₄₀ range
	6/24/96 dup	2,200	Pattern characteristic of gasoline	360,000	Unidentified pattern of hydrocarbons in C ₉ -C ₄₀ range
	1/24/97	2,700	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₈	89,000	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range
	1/24/97 dup	4,200	Pattern characteristic of gasoline and unidentified hydrocarbons greater than C ₈	25,000	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range
	7/24/97	3,000	Pattern characteristic of gasoline	3,000,000	Pattern characteristic of weathered diesel or unidentified hydrocarbons in C ₉ -C ₂₄ range

Notes:

(a) Immiscible hydrocarbons present in groundwater samples. Measured constituents likely include quantitation of constituents in both immiscible and soluble phases.

TABLE 3
BENZENE, TOLUENE, ETHYL BENZENE, TOTAL XYLENES (BTEX)
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
 4200 Alameda Avenue, Oakland, California

Well ID	Sample Date	BTEX Concentration (ug/L); (b)			
		Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1	7/26/95	630	1,300	140	870
	6/24/96	530	1,000	130	860
	1/24/97	470	540	130	830
	7/24/97	480	310	120	720
MW-2	7/26/95	36	37	130	660
	6/24/96	19	<10 (a)	170	340
	1/24/97	31	11	120	250
	7/24/97	25	5.9	56	150
	7/24/97 dup	62	2.3	<0.5	<0.5
MW-3	7/25/95	6.2	<0.5	<0.5	<0.5
	7/25/95 dup	6.2	<0.5	<0.5	<0.5
	6/24/96	6.3	<0.5	<0.5	<0.5
	1/24/97	5.2	0.59	<0.5	1.0
MW-4	7/25/95	64	12	28	49
	6/24/96	140	13	87	150
	1/24/97	170	25	60	100
	7/24/97	86	<10	72	94
MW-5	7/26/95	78	160	56	190
	6/24/96	97	160	48	150
	6/24/96 dup	95	150	50	160
	1/24/97	100	190	62	190
	1/24/97 dup	99	190	63	200
	7/24/97	100	210	69	210

Notes:

(a) Less than symbol (" $<$ ") denotes that compound was not present above the detection limit shown.

(b) Immiscible hydrocarbons present in groundwater samples. Measured constituents likely include quantitation of constituents in both immiscible and soluble phases.

TABLE 4
HALOGENATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California

Well ID	Sample Date	Halogenated Volatile Organic Compound Concentration (ug/L); (b)											
		Chlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	1,1,1-trichloroethane	1,1-dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl Chloride
MW-1	7/26/95	<50	<50	<50	<50	<50	130	<100	<50	<50	2,300	91	3,100
	6/24/96	<50	<50	<50	<50	<50	88	<100	<50	<50	2,800	110	3,100
	1/24/97	41	43	<20	66	<20	68	31	<20	<20	750	68	1,100
	7/24/97	31	42	10	72	<10	34	21	<10	<10	480	50	650
MW-2	7/26/95	7.3	48	1.5	8	<1.3	4.8	5.8	<1.3	<1.3	<1.3	<1.3	<2.5
	6/24/96	7.4	88	4.0	18	<2.5	15	6.2	<2.5	3.8	20	<2.5	4.1
	1/24/97	<1.2	79	4.5	19	<1.2	7.9	11	<1.2	<1.2	2.0	<1.2	<2.5
	7/24/97	5.5	88	4.2	18	<2.5	4.0	7.4	<2.5	<2.5	<2.5	<2.5	<2.5
	7/24/97 dup	6.1	73	3.9	16	<1.0	4.3	7.4	<1.0	<1.0	1.4	<1.0	<1.0
MW-3	7/25/95	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	7/25/95 dup	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
	1/24/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	7/24/97	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
MW-4	7/25/95	<50	<50	<50	<50	<50	<50	<50	<50	<50	2,000	50	3,500
	6/24/96	<100	<100	<100	<100	<100	<100	<100	<100	<100	3,100	<100	4,200
	1/24/97	28	29	<25	<25	<25	42	43	<25	<25	1,500	49	2,000
	7/24/97	93	370	<50	160	<50	<50	<100	<50	<50	1,200	<50	1,900

TABLE 4
HALOGENATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California

Well ID	Sample Date	Halogenated Volatile Organic Compound Concentration (ug/L); (b)											
		Chlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	1,1,1-trichloroethane	1,1-dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl Chloride
MW-5	7/26/95	<100	<100	<100	<100	<100	160	<200	<100	<100	3,700	130	5,200
	6/24/96	<100	<100	<100	<100	<100	150	<100	<100	<100	2,800	160	4,200
	6/24/96 dup	<100	<100	<100	<100	<100	140	<100	<100	<100	2,800	170	4,100
	1/24/97	<100	<100	<100	<100	<100	190	<100	<100	<100	670	220	4,300
	1/24/1997 dup	<100	<100	<100	<100	<100	230	<100	<100	<100	840	260	4,900
	7/24/97	<50	<50	<50	<50	<50	210	<100	<50	<50	620	200	3,800

Notes:

(a) Less than symbol (" $<$ ") denotes that compound was not present above the detection limit shown.

(b) Immiscible hydrocarbons present in groundwater samples. Measured constituents likely include quantitation of constituents in both immiscible and soluble phases.

American National
Can Company (ANCC)
Site

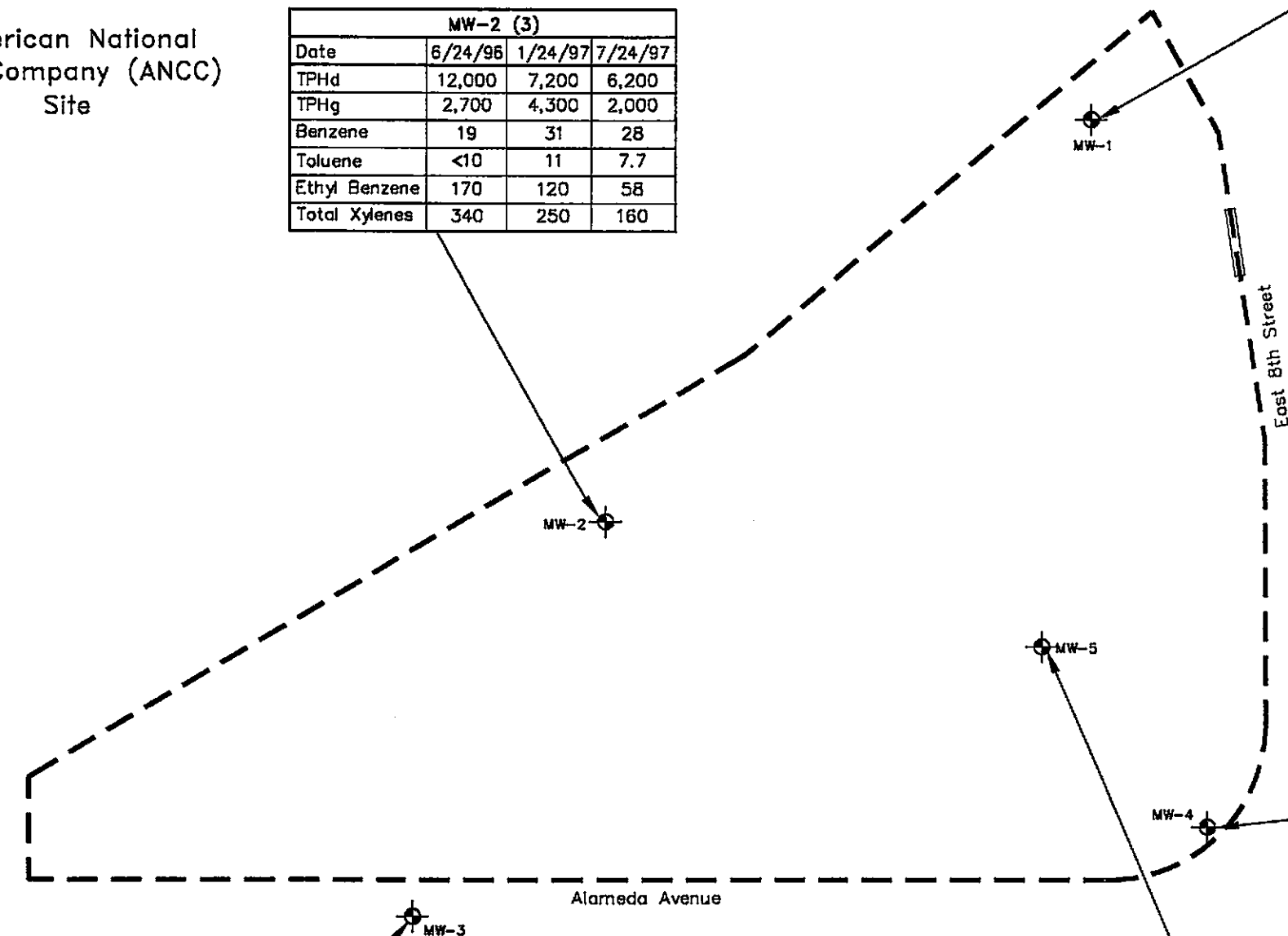
MW-2 (3)			
Date	6/24/96	1/24/97	7/24/97
TPHd	12,000	7,200	6,200
TPHg	2,700	4,300	2,000
Benzene	19	31	28
Toluene	<10	11	7.7
Ethyl Benzene	170	120	58
Total Xylenes	340	250	160

MW-1 (3)			
Date	6/24/96	1/24/97	7/24/97
TPHd	39,000	30,000	24,000
TPHg	7,800	7,900	8,200
Benzene	530	470	480
Toluene	1,000	540	310
Ethyl Benzene	130	130	120
Total Xylenes	860	830	720

MW-4 (3)			
Date	6/24/96	1/24/97	7/24/97
TPHd	850,000	33,000	6,400,000
TPHg	5,500	3,500	3,400
Benzene	140	170	86
Toluene	13	25	<10
Ethyl Benzene	87	60	72
Total Xylenes	150	100	94

MW-3 (3)			
Date	6/24/96	1/24/97	7/24/97
TPHd	4,900	2,100	1,500
TPHg	57	170	62
Benzene	6.3	5.2	2.3
Toluene	<0.5	0.59	<0.5
Ethyl Benzene	<0.5	<0.5	<0.5
Total Xylenes	<0.5	1.0	<0.5

MW-5 (3)			
Date	6/24/96	1/24/97	7/24/97
TPHd	520,000	89,000	3,000,000
TPHg	2,000	4,200	3,000
Benzene	97	100	100
Toluene	160	190	210
Ethyl Benzene	48	63	69
Total Xylenes	150	200	210



(Approximate Scale in Feet)

LEGEND

--- Site Boundary

⊕ Monitoring Well

Abbreviations

TPHd Total Petroleum Hydrocarbons as Diesel Fuel

TPHmo Total Petroleum Hydrocarbons as Motor Oil

TPHg Total Petroleum Hydrocarbons as Gasoline

Notes:

1. All locations are approximate.
2. Concentrations in ug/L (ppb).
3. Immiscible hydrocarbons present in groundwater samples. Measured concentrations likely include quantitation of constituents in both the immiscible and soluble phases.

**Erler &
Kalinowski, Inc.**

Petroleum Hydrocarbons and BTEX
in Groundwater

4200 Alameda Avenue
Oakland, CA

November 1997
EKI 930040.04

Figure 1

American National
Can Company (ANCC)
Site

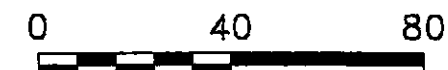
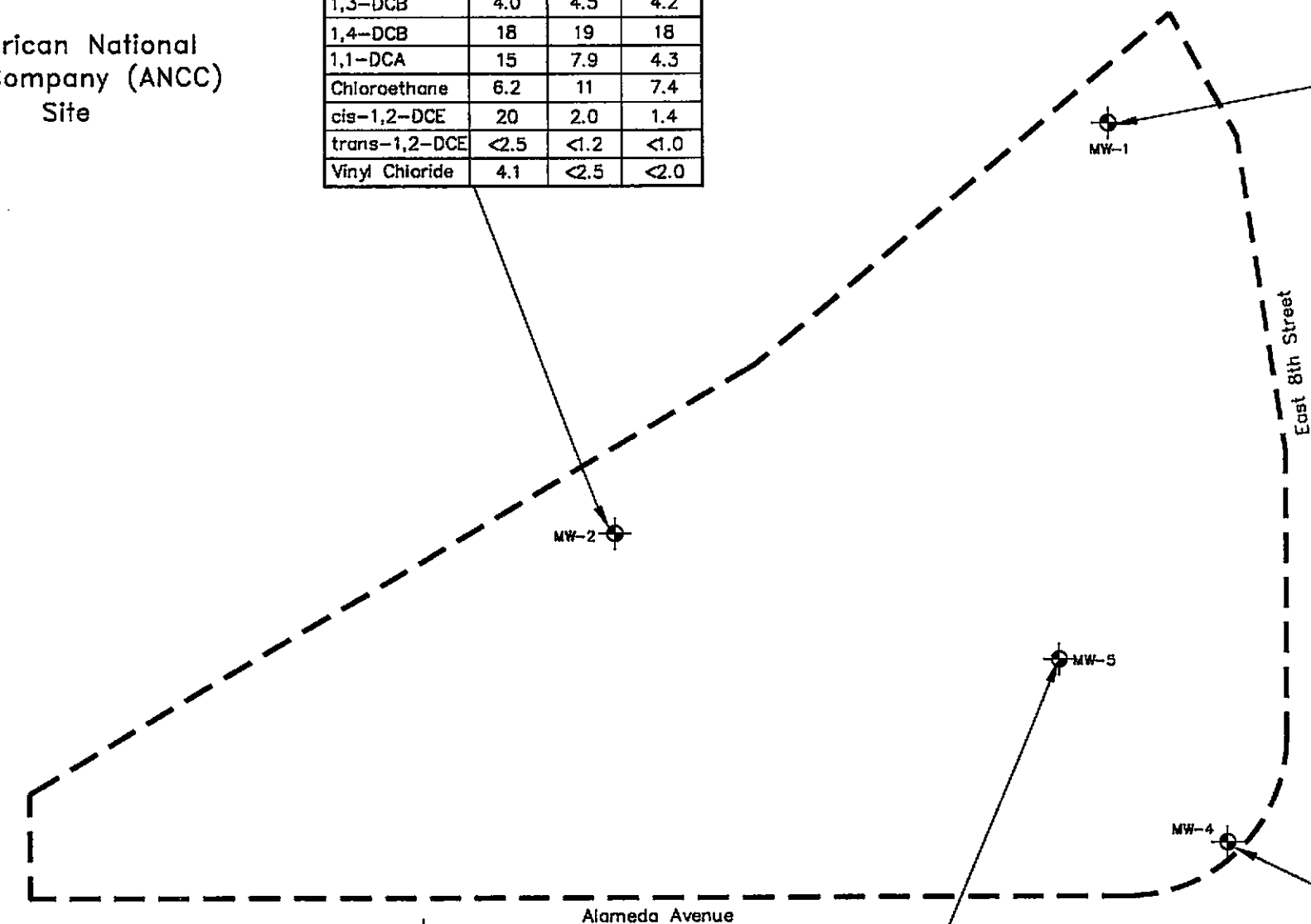
MW-2 (3)			
Date	6/24/96	1/24/97	7/24/97
Chlorobenzene	7.4	<1.2	6.1
1,2-DCB	88	79	88
1,3-DCB	4.0	4.5	4.2
1,4-DCB	18	19	18
1,1-DCA	15	7.9	4.3
Chloroethane	6.2	11	7.4
cis-1,2-DCE	20	2.0	1.4
trans-1,2-DCE	<2.5	<1.2	<1.0
Vinyl Chloride	4.1	<2.5	<2.0

MW-1 (3)			
Date	6/24/96	1/24/97	7/24/97
Chlorobenzene	<50	41	31
1,2-DCB	<50	43	42
1,3-DCB	<50	<20	10
1,4-DCB	<50	66	72
1,1-DCA	88	7.9	34
Chloroethane	<50	11	21
cis-1,2-DCE	2,800	750	480
trans-1,2-DCE	110	68	50
Vinyl Chloride	3,100	1,100	650

MW-3 (3)			
Date	6/24/96	1/24/97	7/24/97
Chlorobenzene	<0.5	<0.5	<0.5
1,2-DCB	<0.5	<0.5	1.7
1,3-DCB	<0.5	<0.5	<0.5
1,4-DCB	<0.5	<0.5	<0.5
1,1-DCA	<0.5	<0.5	<0.5
Chloroethane	1.0	<0.5	<1.0
cis-1,2-DCE	<0.5	<0.5	<0.5
trans-1,2-DCE	<0.5	<0.5	<0.5
Vinyl Chloride	<0.5	<1.0	<1.0

MW-5 (3)			
Date	6/24/96	1/24/97	7/24/97
Chlorobenzene	<100	<100	<50
1,2-DCB	<100	<100	<50
1,3-DCB	<100	<100	<50
1,4-DCB	<100	<100	<50
1,1-DCA	150	230	210
Chloroethane	<100	<100	<100
cis-1,2-DCE	2,800	840	620
trans-1,2-DCE	160	260	200
Vinyl Chloride	4,200	4,900	3,800

MW-4 (3)			
Date	6/24/96	1/24/97	7/24/97
Chlorobenzene	<100	28	93
1,2-DCB	<100	29	370
1,3-DCB	<100	<25	<50
1,4-DCB	<100	<25	160
1,1-DCA	<100	42	<50
Chloroethane	<100	43	<100
cis-1,2-DCE	3,100	1,500	1,200
trans-1,2-DCE	<100	49	<50
Vinyl Chloride	4,200	2,000	1,900



(Approximate Scale in Feet)

LEGEND

- Site Boundary
- ⊕ Monitoring Well

Abbreviations

- 1,2-DCB 1,2-dichlorobenzene
- 1,3-DCB 1,3-dichlorobenzene
- 1,4-DCB 1,4-dichlorobenzene
- 1,1-DCA 1,1-dichloroethane
- cis-1,2-DCE cis-1,2-dichloroethene
- trans-1,2-DCE trans-1,2-dichloroethene

Notes:

1. All locations are approximate.
2. Concentrations in ug/L (ppb).
3. Immiscible hydrocarbons present in groundwater samples. Measured concentrations likely include quantitation of constituents in both the immiscible and soluble phases.

**Erler &
Kalinowski, Inc.**

Halogenated Volatile Organic
Compounds in Groundwater

4200 Alameda Avenue
Oakland, CA
November 1997
EKI 930040.04
Figure 2

Daily Inspection Report No. _____

Sheet: 1 of _____
Date: 7/24/97
Project: EKOTEK
EKI Job No.: 930040.04

Contractor: _____

EKI Staff On-site: ROGER D. LION

Weather: CLEAR

Temperature: _____ F Max _____ F Min

Work Hours: 8:35 to 13:30 Memos Issued: _____

Photos: _____

Special Conditions, Delays, Changes: _____

Accidents, Damage: _____

Sampling, Testing: WATER/PRODUCT LEVELS PURGE & SAMPLE 5 WELLS.

Visitors to Site: _____

Work Report (Work done, Personnel/Equipment working): 8:35 ARRIVE ON SITE REVIEW HEALTH &

SAFETY PLAN, OPEN WELLS.

9:14 START MEASURING WATER/PRODUCT LEVELS

9:40 STARTED PURGING MW-3 - PURGED DRY W/ 3 1/2 INCH BAIER. WENT ON TO MW-2, THEN MW-1, MW-4 & MW-5. MW-1, MW-2 & MW-3 HAVE TRACES OF SHEEN ON BAILED WATER. MW-4 & MW-5 HAVE A LAYER OF FREE PRODUCT.

12:01 COLLECTED SAMPLES FROM MW-3 WITH A DISPOSABLE BAIER & PLACED SAMPLES IN COOLER WITH ICE. WENT ON TO COLLECT SAMPLES FROM MW-2 (DUPLICATES) MW-1, MW-4 & MW-5. EQUIPMENT RINSEWATERS WERE COLLECTED FROM A BAIER (ERB).

PURGE WATER, DECON WATER & PPE & BAIERS WERE DRUMMED & LEFT SITE.

14:10 I LOCKED THE GATE & LEFT THE SITE.

Distribution: Project Inspection File (orig)
Project Manager

By: Roger D. Lion

GROUNDWATER LEVEL SURVEY

Erler &
Kalinowski, Inc.

Job Name: EKOTEX

Date: 7/24/97

EKI Job No.: 930040.04

Personnel: R-D-Llon

Well Number:	15.00	14.10	12.59	13.47	13.41	TDC				
Condition of well:	MW-1	MW-2	MW-3	MW-4	MW-5					
Type of Cover	FLUSH									
Covered?	yes	yes	yes	yes	yes					
Locked?	yes	yes	yes	yes	yes					
Sealed?	yes	yes	yes	yes	yes					
Standing water?	NO	NO	NO	NO	NO					
Dia. of casing, INCHES	4	4	4	4	4					
Measuring point	MARK, TOP OF PVC CASING									
Elevation of well										
Time opened	9:03	8:56	8:59	9:00	9:02					
Time of measurement	9:23	9:17	9:14	9:26	9:33					
Depth probe used	MMC									
Depth to water	10.32	7.99	9.41	11.55	13.25					
Depth TO PRODUCT OF WELL	10.31	7.98		10.61	10.30					
Conductivity vs. Depth, mMhos/cm	0.01	0.01	0.00	0.94	2.95					← PRODUCT THICKNESS
Temperature vs. Depth Deg. C.	3	2	1	4	5					

COMMENTS:

Gw Elev. 4.69' 6.11' 3.18 1.92 0.16'

GROUNDWATER PURGE SAMPLE FORM

Erier &
Kalinowski, Inc.

PROJECT NAME: EXOTERK DATE: 7/24/97
 PROJECT NUMBER: 930040.04 WELL NUMBER: MW-1 PERSONNEL: R-D-Lwin

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
<u>16.30</u>	<u>10.31</u>	<u>= 5.99</u>	<u>* 0.64</u>	<u>= 3.83</u>

Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: 0

PURGE METHOD: 3 1/2 BAILER

PURGE DEPTH: TO BOTTOM

START TIME: 10:36 END TIME: 10:43

TOTAL GALLONS PURGED: 10

INSTRUMENT CALIBRATION

Field Standard
Instrument measure measure

Conductivity
pH
pH
Turbidity
Temperature
Depth Probe

SAMPLES:	<u>Field I.D.</u>	<u>Time Collected</u>	<u>Containers & Preservation</u>
	<u>MW-1</u>	<u>12:40</u>	<u>4 VIALS + HCL</u> <u>1 - 1L. AMBER</u>

COMMENTS:

Time	<u>10:43</u>						
Volume Purged (gallons)	<u>10</u>						
Temperature (degrees F or C)	<u>-</u>						
pH	<u>-</u>						
Specific Conductivity (millimhos)	<u>-</u>						
Turbidity/Color (NTU)	<u>CLEAR</u>						
Odor	<u>-</u>						
Depth to Water during purge (feet)	<u>16.00</u>						
Number of Casing Volumes removed	<u>2.61</u>						
Purge Rate (gallons/minute)	<u>-</u>						

GROUNDWATER PURGE SAMPLE FORM

Erier & Kalinowski, Inc.

PROJECT NAME: EKOYER DATE: 7/23/97
 PROJECT NUMBER: 930040.04 WELL NUMBER: MW-2 PERSONNEL: RDL

WELL VOLUME CALCULATION:

Depth of Well (ft.) Depth to Water (ft.) Water Column (ft.) Multiplier (below) Casing Vol. (gallons)
16.36 - 7.98 = 8.38 * 0.64 = 5.36
 Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: 0
 PURGE METHOD: 3 1/2 BAILER
 PURGE DEPTH: VARIABLE
 START TIME: 10:15 END TIME: 10:25
 TOTAL GALLONS PURGED: 11

INSTRUMENT CALIBRATION
 Field Standard
Instrument measure measure
 Conductivity
 pH
 pH
 Turbidity
 Temperature
 Depth Probe

SAMPLES: Field I.D. Time Collected Containers & Preservation
 MW-2A 12:20 3 VOLS + HEL, 1-1L. AMBER
 COMMENTS: MW-2B 12:23 " "
 SCREEN PRESENT

Time	<u>10:25</u>						
Volume Purged (gallons)	<u>11</u>						
Temperature (degrees F or C)	<u>—</u>						
pH	<u>—</u>						
Specific Conductivity (millimhos)	<u>—</u>						
Turbidity/Color (NTU)	<u>CLEAR</u>						
Odor	<u>—</u>						
Depth to Water during purge (feet)	<u>16.0</u>						
Number of Casing Volumes removed	<u>2.05</u>						
Purge Rate (gallons/minute)	<u>—</u>						

PROJECT NAME: Ekotel DATE: 7/24/97
 PROJECT NUMBER: 930040.04 WELL NUMBER: MW-3 PERSONNEL: Edwin

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
12.70	9.41	3.29	* 0.64	= 2.106

Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: 0

PURGE METHOD: 3 1/2 inch BAILER

PURGE DEPTH: bottom

START TIME: 9:40 END TIME: 9:48

TOTAL GALLONS PURGED: 1.5

INSTRUMENT CALIBRATION	
Instrument	Field Standard measure
Conductivity	
pH	
pH	
Turbidity	
Temperature	
Depth Probe	

SAMPLES:	<u>Field I.D.</u>	<u>Time Collected</u>	<u>Containers & Preservation</u>
	<u>V.021</u>	<u>12:01</u>	<u>2-1L. AMBERS</u>
	<u>MW-3</u>		<u>4- VOLS + HCL</u>

COMMENTS:

Time	9:48						
Volume Purged (gallons)	1.5						
Temperature (degrees F or C)	-						
pH	-						
Specific Conductivity (millimhos)	-						
Turbidity/Color (NTU)	-						
Odor	-						
Depth to Water during purge (feet)	12.5ft						
Number of Casing Volumes removed	0.71						
Purge Rate (gallons/minute)	-						

GROUNDWATER PURGE SAMPLE FORM

PROJECT NAME: EXOTEK DATE: 7/24/97
 PROJECT NUMBER: 930040.04 WELL NUMBER: MW-4 PERSONNEL: RDLien

WELL VOLUME CALCULATION:

Depth of Well (ft.) 14.76 - Depth to Water (ft.) 10.61 = Water Column (ft.) 4.15 * Multiplier (below) 0.64 = Casing Vol. (gallons) 2.66
 Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____

PURGE METHOD: 3 1/2 INCH PVC BARRIER

PURGE DEPTH: TO BOTTOM

START TIME: 10:50 END TIME: 11:05

TOTAL GALLONS PURGED: 8

INSTRUMENT CALIBRATION
 Field Standard
Instrument measure measure
 Conductivity
 pH
 pH
 Turbidity
 Temperature
 Depth Probe

SAMPLES: Field I.D. Time Collected Containers & Preservation

MW-4 12:51 1-1L GLASS
4 - VOLS + HCL

COMMENTS: FREE PRODUCT PRESENT

Time	<u>11:05</u>						
Volume Purged (gallons)	<u>8</u>						
Temperature (degrees F or C)	<u>—</u>						
pH	<u>—</u>						
Specific Conductivity (millimhos)	<u>—</u>						
Turbidity/Color (NTU)	<u>Cloudy > 200</u>						
Odor	<u>FREE PRODUCT YES</u>						
Depth to Water during purge (feet)	<u>14.5</u>						
Number of Casing Volumes removed	<u>3.01</u>						
Purge Rate (gallons/minute)	<u>—</u>						

GROUNDWATER PURGE SAMPLE FORM

PROJECT NAME: EKO TEK DATE: 7/24/97
 PROJECT NUMBER: 930040.04 WELL NUMBER: MW-5 PERSONNEL: R. Sullivan

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
15.99	10.30	= 5.69	* 0.64	= 3.64

Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____

PURGE METHOD: 3 1/2 inch BAITER

PURGE DEPTH: TO BOTTOM

START TIME: 11:16 END TIME: 11:43

TOTAL GALLONS PURGED: 8.5

INSTRUMENT CALIBRATION
 Field Standard
Instrument measure measure
 Conductivity
 pH
 pH
 Turbidity
 Temperature
 Depth Probe

SAMPLES:	<u>Field I.D.</u>	<u>Time Collected</u>	<u>Containers & Preservation</u>
	<u>MW-5</u>	<u>13:31</u>	<u>4-VOAS+HCL, 1-1L. AMBER</u>

COMMENTS: FREE PRODUCT PRESENT THROUGHOUT

ERB 13:24 4-VOAS+HCL, 1-1L. AMBER

Time	11:43						
Volume Purged (gallons)	8.5						
Temperature (degrees F or C)	—						
pH	—						
Specific Conductivity (millimhos)	—						
Turbidity/Color (NTU)	FREE PRODUCT						
Odor	YES!						
Depth to Water during purge (feet)	15.0						
Number of Casing Volumes removed	2.3						
Purge Rate (gallons/minute)	—						



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>ERICK KALINOSKI, INC.</u>			Project Name: <u>770040.04</u>		
Address: <u>1730 S. AMFALTT BLVD. #320</u>			Billing Address (if different):		
City: <u>SAN MATEO</u>	State: <u>CA</u>	Zip Code:			
Telephone: <u>415-579-1172</u>		FAX #:	P.O. #: <u>120040.04</u>		
Report To: <u>AMY S. FORD</u>		Sampler: <u>ROCK LIND</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments						
1. MW-5	7/24/11 13:51	WATER	1	VDF		✓	✓	✓														FULL REPORT!
2. MW-1	12:40		1	VDF		✓	✓	✓														FULL REPORT!
3. MW-4	12:57		1	VDF		✓	✓	✓														FULL REPORT!
4. MW-2A	12:20		1	VDF		✓	✓	✓														
5. MW-3	12:01		1	VDF		✓	✓	✓														
6. ERB	13:24		1	VDF		✓	✓	✓														
7. MW-2B	12:35		1	VDF		✓	✓	✓														
8.																						
9.																						
10.																						

Relinquished By: <u>[Signature]</u>	Date: <u>7/24/11</u>	Time: <u>17:15</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>7/24/11</u>	Time: <u>17:15</u>

Pink - Client
Yellow - Sequoia
White - Sequoia



COPY

Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-01	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
---	--	---


QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	100	N.D.
Carbon Tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	210
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	620
trans-1,2-Dichloroethene	50	200
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl chloride	100	3800
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
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(510) 988-9600
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FAX (916) 921-0100

Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-01	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50000	3000000
Chromatogram Pattern: Unidentified HC		C9-C24
Weathered Diesel		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Erler & Kalinowski, Inc. Client Proj. ID: 930040.04 Sampled: 07/24/97
1730 South Amphlett, Ste 320 Sample Descript: MW-5 Received: 07/24/97
San Mateo, CA 94402 Matrix: LIQUID Extracted: 07/30/97
Attention: Andy Safford Analysis Method: EPA 8015 Mod Analyzed: 08/01/97
Lab Number: 9707E14-01 Reported: 08/07/97

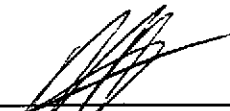
QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4B

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons	50000	5800000
Chromatogram Pattern:		
Unidentified HC	C9-C24	C9-C40
Weathered		Diesel
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Eter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-01	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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QC Batch Number: GC080497BTEX21A
 Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3000
Benzene	10	100
Toluene	10	210
Ethyl Benzene	10	69
Xylenes (Total)	10	210
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-02	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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QC Batch Number: GC080197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon Tetrachloride	10	N.D.
Chlorobenzene	10	31
Chloroethane	20	21
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,2-Dichlorobenzene	10	42
1,3-Dichlorobenzene	10	10
1,4-Dichlorobenzene	10	72
1,1-Dichloroethane	10	34
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	480
trans-1,2-Dichloroethene	10	50
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	650
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Ertel & Kalinowski, Inc.	Client Proj. ID: 930040.04	Sampled: 07/24/97
1730 South Amphlett, Ste 320	Sample Descript: MW-1	Received: 07/24/97
San Mateo, CA 94402	Matrix: LIQUID	Extracted: 07/30/97
Attention: Andy Safford	Analysis Method: EPA 8015 Mod	Analyzed: 08/05/97
	Lab Number: 9707E14-02	Reported: 08/07/97

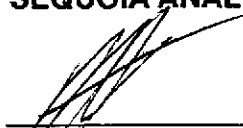
QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	24000
Chromatogram Pattern:		
Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	155 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Sequoia Analytical

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 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-02	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/05/97 Reported: 08/07/97
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QC Batch Number: GC0730970HBPEXA
 Instrument ID: GCHP5B

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons	500	26000
Chromatogram Pattern: Unidentified HC		C9-C40
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	155 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-02	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	8200
Benzene	25	480
Toluene	25	310
Ethyl Benzene	25	120
Xylenes (Total)	25	720
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-03	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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QC Batch Number: GC080197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	100	N.D.
Carbon Tetrachloride	50	N.D.
Chlorobenzene	50	93
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	370
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	160
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	1200
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl chloride	100	1900
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erter & Kalinowski, Inc. Client Proj. ID: 930040.04 Sampled: 07/24/97
1730 South Amphlett, Ste 320 Sample Descript: MW-4 Received: 07/24/97
San Mateo, CA 94402 Matrix: LIQUID Extracted: 07/30/97
Attention: Andy Safford Analysis Method: EPA 8015 Mod Analyzed: 08/05/97
Lab Number: 9707E14-03 Reported: 08/07/97

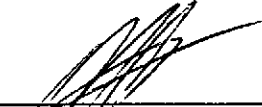
QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	188000	6400000
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Erler & Kallinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-03	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/05/97 Reported: 08/07/97
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QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons	188000	19000000
Chromatogram Pattern: Weathered	C9-C40	Crude Oil
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-03	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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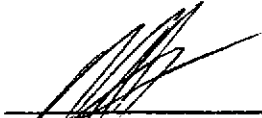
QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3400
Benzene	10	86
Toluene	10	N.D.
Ethyl Benzene	10	72
Xylenes (Total)	10	94
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2A Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-04	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	5.0	N.D.
Carbon Tetrachloride	2.5	N.D.
Chlorobenzene	2.5	5.5
Chloroethane	5.0	7.4
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	88
1,3-Dichlorobenzene	2.5	4.2
1,4-Dichlorobenzene	2.5	18
1,1-Dichloroethane	2.5	4.0
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2A Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-04	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	100	5400 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 300 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2A Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-04	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
Attention: Andy Safford		


QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern: Unidentified HC	100	6500 C9-C40
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 300 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2A Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-04	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2000
Benzene	5.0	25
Toluene	5.0	5.9
Ethyl Benzene	5.0	56
Xylenes (Total)	5.0	150
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-05	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC073197801009A
 Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	1.7
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-05	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 07/31/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	1500 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 167 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-05	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 07/31/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP5B

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons	50	2300
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	167 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-05	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	62
Benzene	0.50	2.3
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Gas & Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	127

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erier & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: ERB Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-06	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	103

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





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Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: ERB Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-06	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP19B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





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Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: ERB Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-06	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
--	---	--

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP19B

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: ERB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-06	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
Attention: Andy Safford		


QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2B Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-07	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.0	N.D.
Carbon Tetrachloride	1.0	N.D.
Chlorobenzene	1.0	6.1
Chloroethane	2.0	7.4
2-Chloroethylvinyl ether	2.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	73
1,3-Dichlorobenzene	1.0	3.9
1,4-Dichlorobenzene	1.0	16
1,1-Dichloroethane	1.0	4.3
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
cis-1,2-Dichloroethene	1.0	1.4
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	2.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	105

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
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Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: MW-2B Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-07	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/05/97 Reported: 08/07/97
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QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	200	6200 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 280 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: MW-2B Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-07	Sampled: 07/24/97 Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/05/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons	200	16000
Chromatogram Pattern: Weathered	C9-C40	Crude Oil
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	280 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erier & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: MW-2B Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-07	Sampled: 07/24/97 Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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QC Batch Number: GC080497BTEX21A
 Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2000
Benzene	5.0	28
Toluene	5.0	7.7
Ethyl Benzene	5.0	58
Xylenes (Total)	5.0	160
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-08	Sampled: Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
Attention: Andy Safford		


QC Batch Number: GC080197BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50.	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-08	Sampled: Received: 07/24/97 Analyzed: 07/31/97 Reported: 08/07/97
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QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	79

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





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Erlar & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-08	Sampled: Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
Attention: Andy Safford		


QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9707E14-08	Sampled: Received: 07/24/97 Extracted: 07/30/97 Analyzed: 08/04/97 Reported: 08/07/97
Attention: Andy Safford		

QC Batch Number: GC0730970HBPEXA
Instrument ID: GCHP48

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-09	Sampled: Received: 07/24/97 Analyzed: 08/01/97 Reported: 08/07/97
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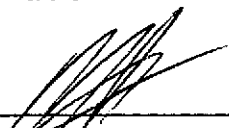
QC Batch Number: GC073197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	81

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





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Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707E14-09	Sampled: Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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QC Batch Number: GC080497BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.04 Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9707E14-10	Sampled: Received: 07/24/97 Analyzed: 08/04/97 Reported: 08/07/97
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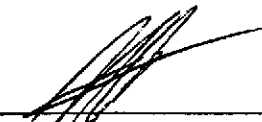
QC Batch Number: GC080197801009A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	81

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
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Erler & Kalinowski, Inc.	Client Proj. ID: 930040.04	Received: 07/24/97
1730 South Amphlett, Ste 320	Lab Proj. ID: 9707E14	Reported: 08/07/97
San Mateo, CA 94402		
Attention: Andy Safford		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 5 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

8010: Chloroethane for #2 is reported from GCHP08 on 8/5/97. The QC batch number is GC080597801008A.

Q - Surrogate diluted out.
#Q - Surrogate coelution was confirmed.

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

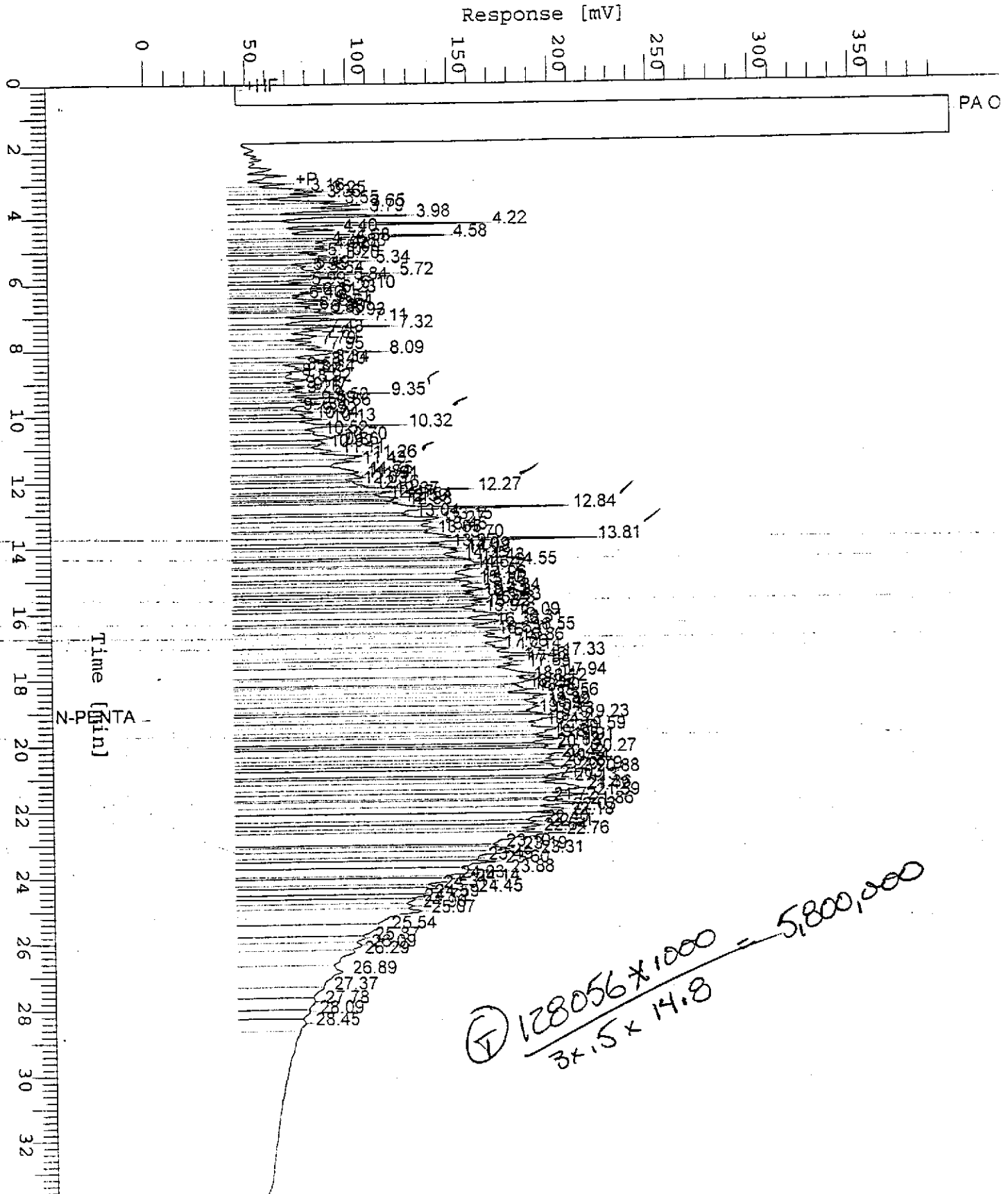


Chromatogram

Sample Name : DW9707E14-1 (500:10*100) RS1
 FileName : S:\GHP_04\0803\731B031.raw
 Method : TPH04A
 Start Time : 0.00 min
 Scale Factor : 0.0

End Time : 33.65 min
 Plot Offset: 0 mV

Sample #: MW-5
 Date : 8/4/97 07:45
 Time of Injection: 8/1/97 14:48
 Low Point : 0.00 mV
 Plot Scale: 400.0 mV
 High Point : 400.00 mV

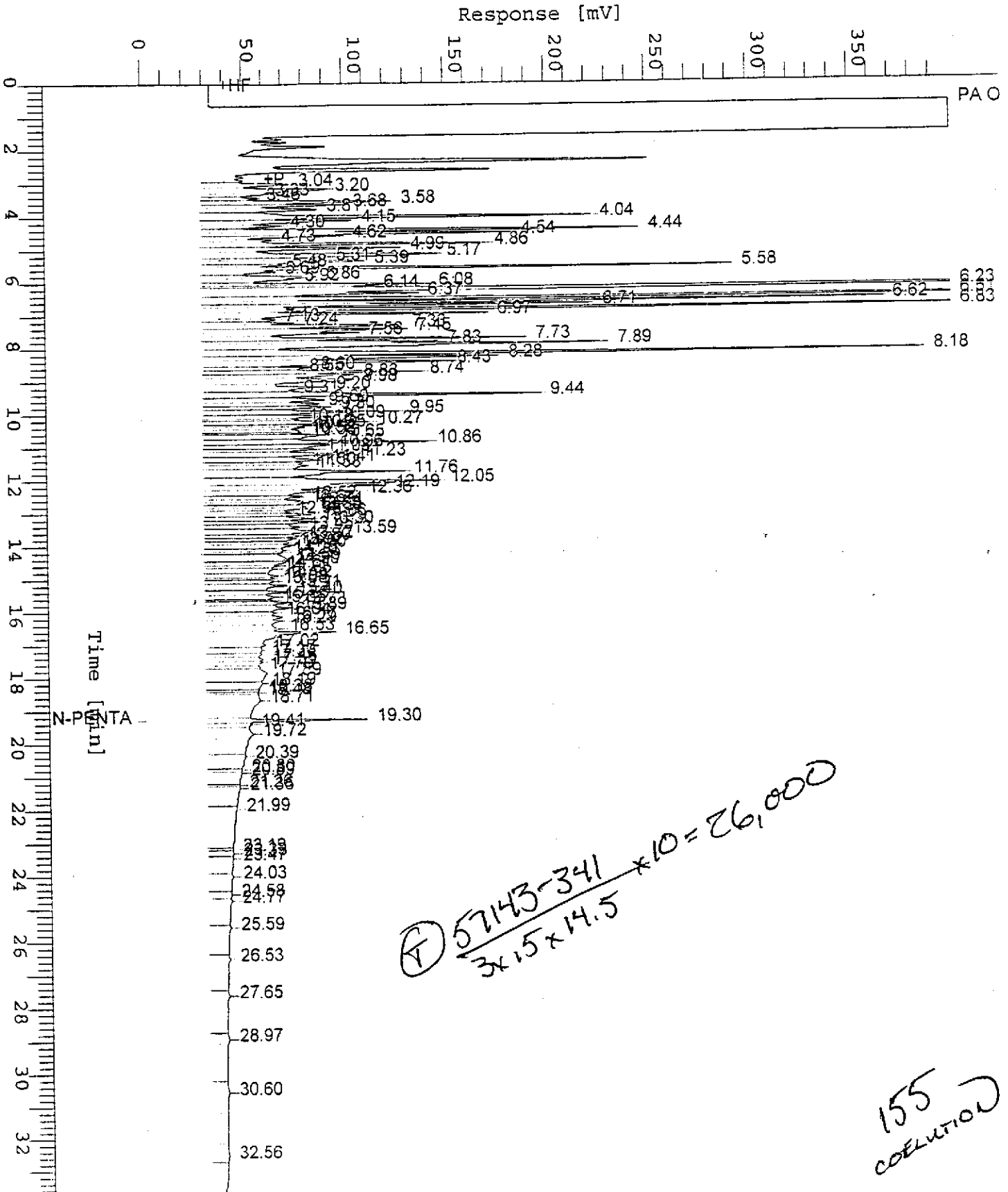


Chromatogram

Sample Name : DW9707E14-2 (500:1*10)
FileName : S:\GHP_05\0810\805B005.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor : 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: MW-1
Date : 8/5/97 11:41
Time of Injection: 8/5/97 11:07
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
High Point : 400.00 mV



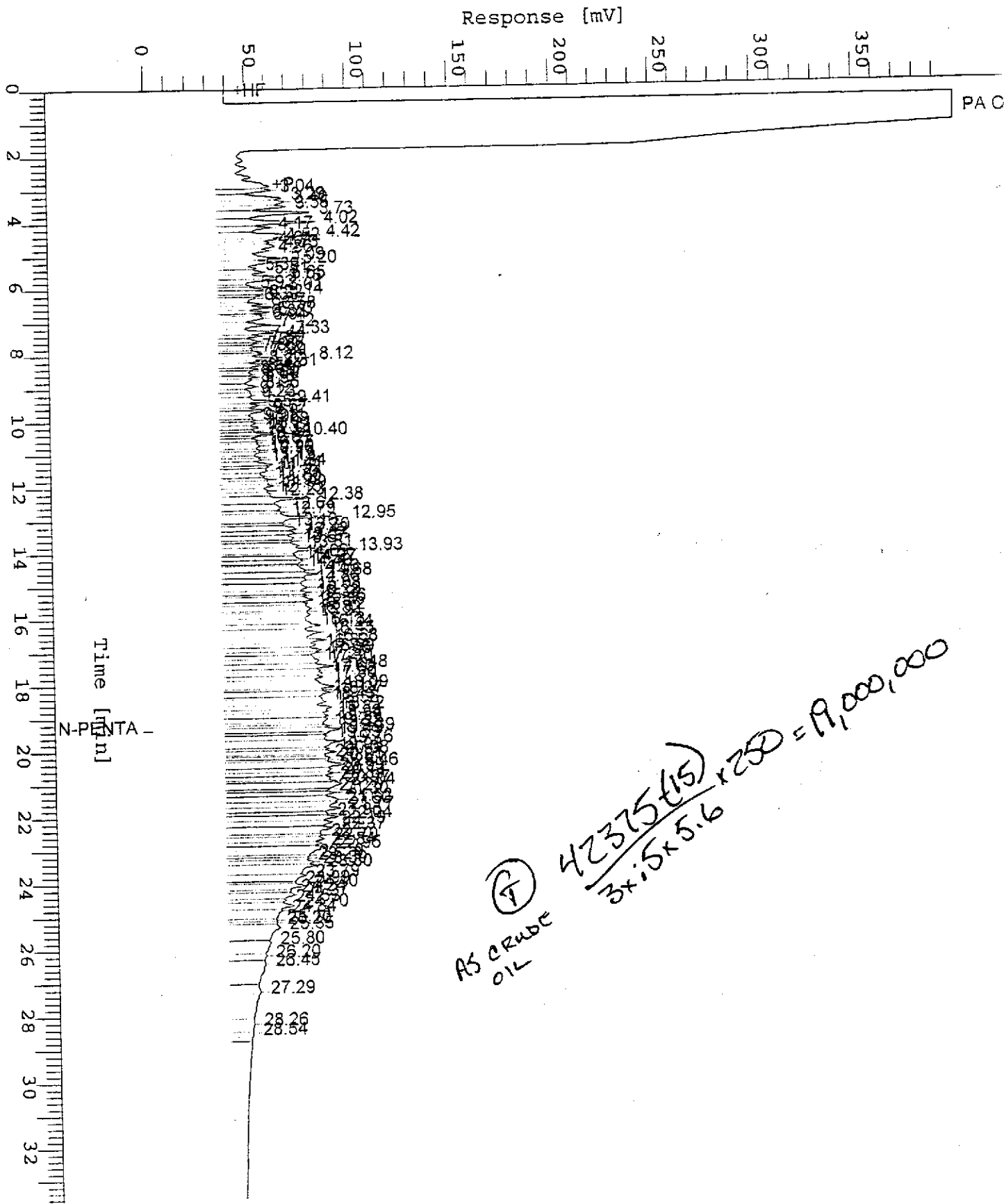
(T) $\frac{57143-341}{3 \times 15 \times 14.5} \times 10 = 26,800$

155
COELUTION

Chromatogram

Sample Name : DW9707E14-3 (500:15*250) RS1
 FileName : S:\GHP_04\0810\804A026.raw
 Method : TPH04A
 Start Time : 0.00 min
 Scale Factor: 0.0

Sample #: MW-4
 Date : 8/5/97 10:58
 Time of Injection: 8/5/97 10:24
 Low Point : 0.00 mV
 High Point : 400.00 mV
 End Time : 33.65 min
 Plot Offset: 0 mV
 Plot Scale: 400.0 mV



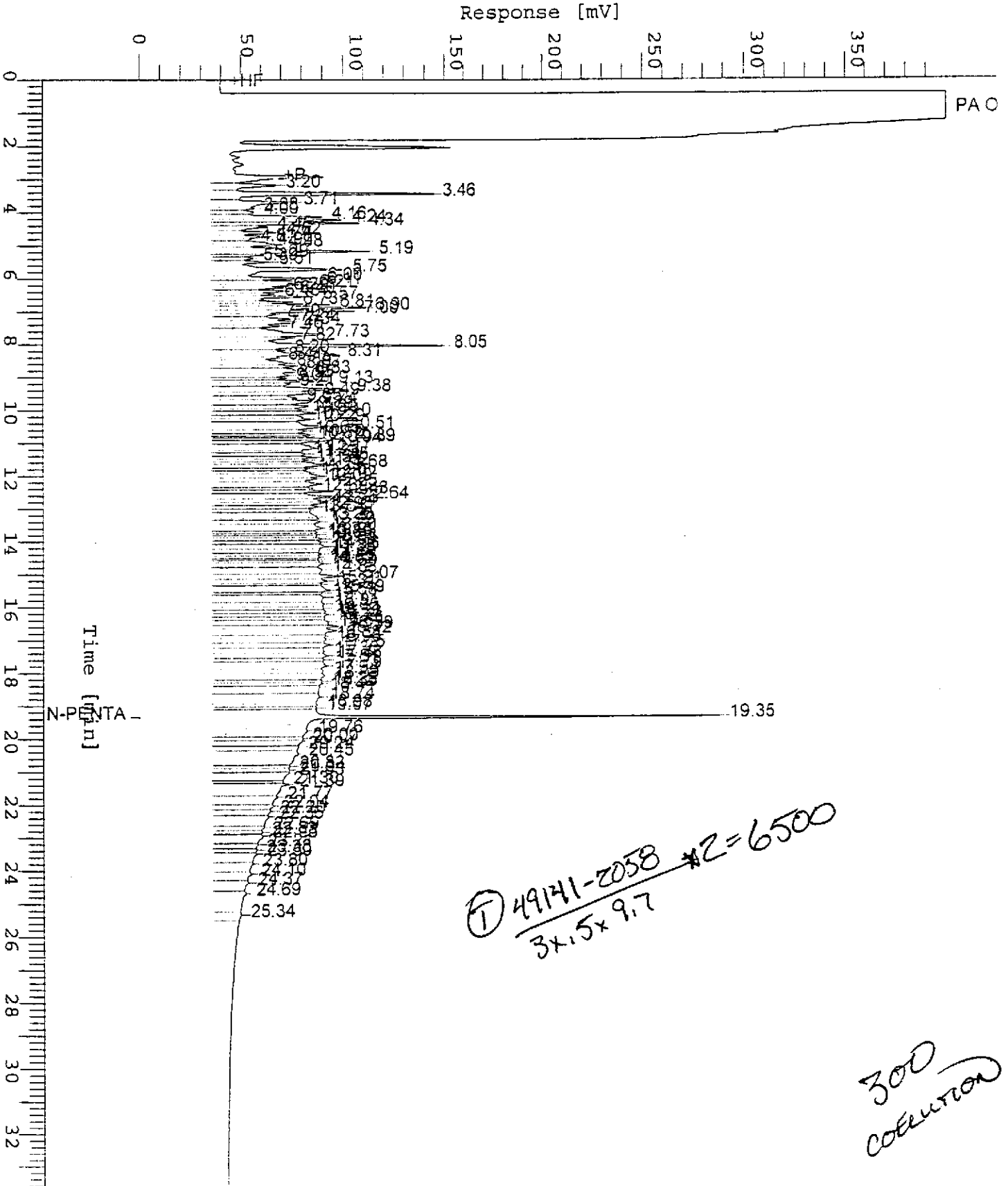
Chromatogram

Sample Name : DW9707E14-4 (500:1*2) RS1
FileName : S:\GHP_04\0810\804A019.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: MW-2A
Date : 8/4/97 23:42
Time of Injection: 8/4/97 23:07
Low Point : 0.00 mV
Plot Scale: 400.0 mV

Page 1 of 1
High Point : 400.00 mV

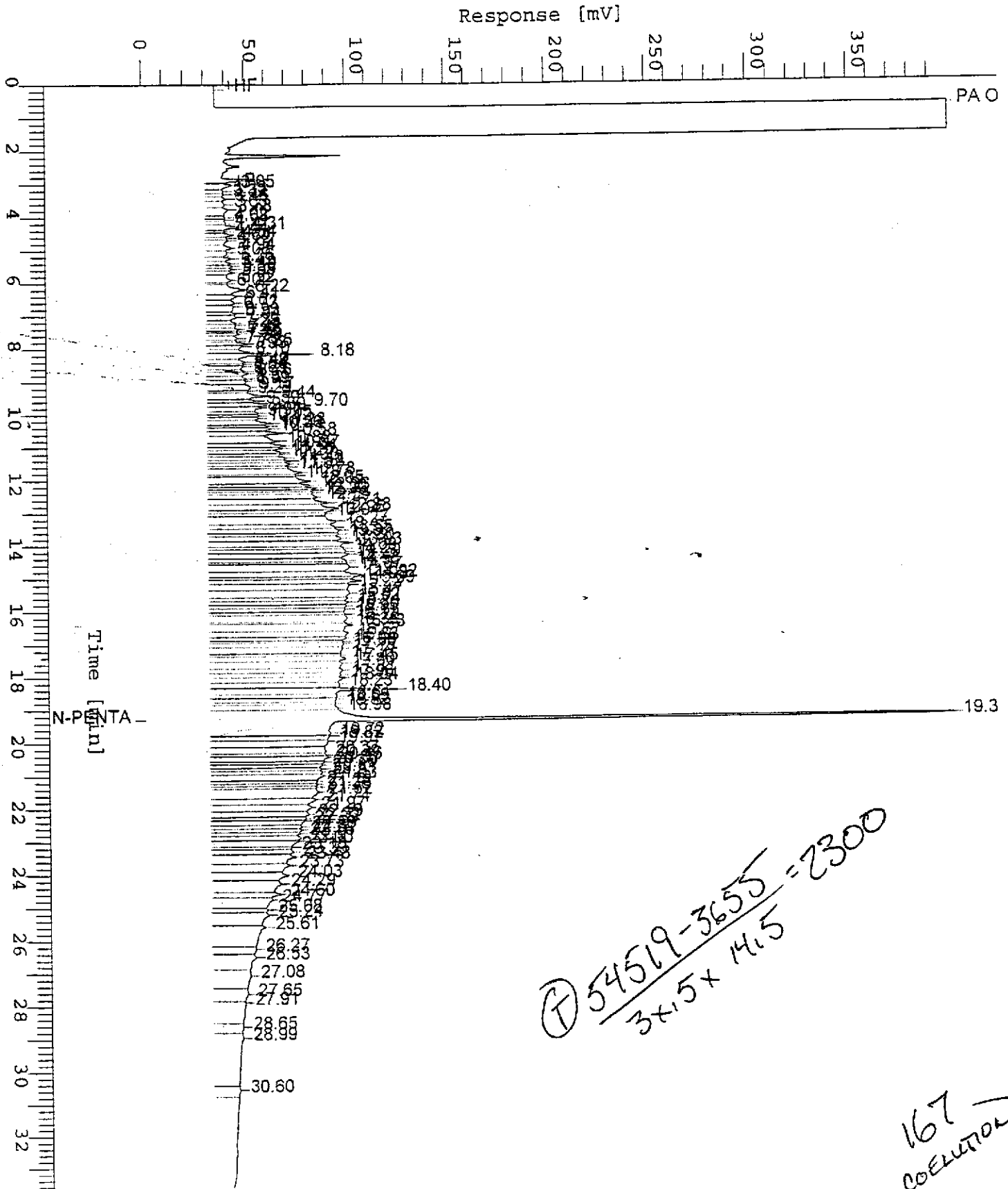


Chromatogram

Sample Name : DW9707E14-5 (500:1)
FileName : S:\GHP_05\0803\730B021.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor : 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: MW-3
Date : 7/31/97 10:36
Time of Injection: 7/31/97 10:02
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
High Point : 400.00 mV

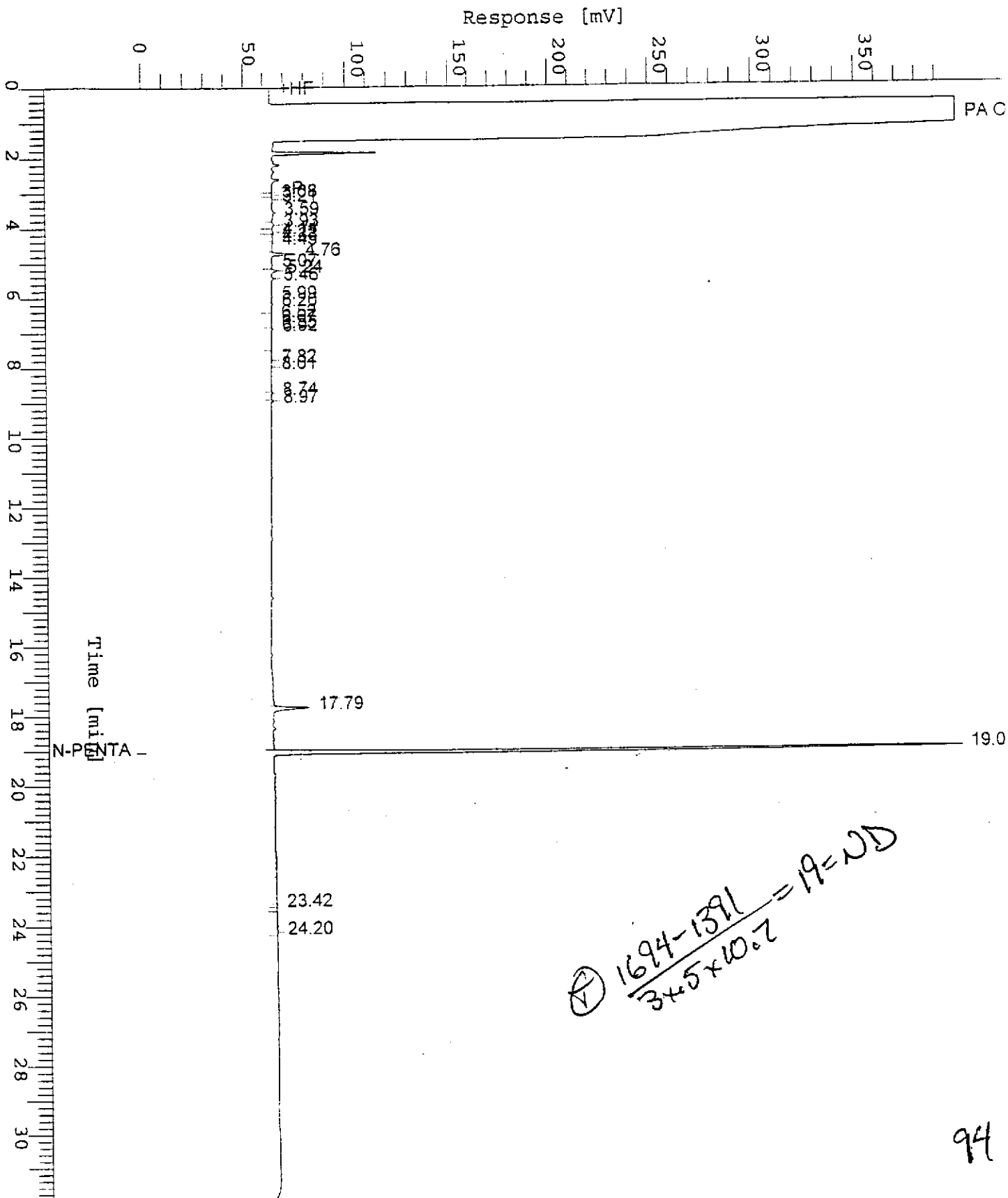


Chromatogram

Sample Name : DW9707E14-6 (500:1) RS1
 FileName : S:\GHP_19\0810\8048006.raw
 Method : TPH19A
 Start Time : 0.00 min
 Scale Factor: 0.0

End Time : 31.99 min
 Plot Offset: 0 mV

Sample #: ERB
 Date : 8/4/97 14:54
 Time of Injection: 8/4/97 14:22
 Low Point : 0.00 mV
 Plot Scale: 400.0 mV
 High Point : 400.00 mV



Chromatogram

Sample Name : DW9707E14-7 (500:1*4) RS2
FileName : S:\GHP_04\0810\804A027.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: MW-2B

Date : 8/5/97 11:40

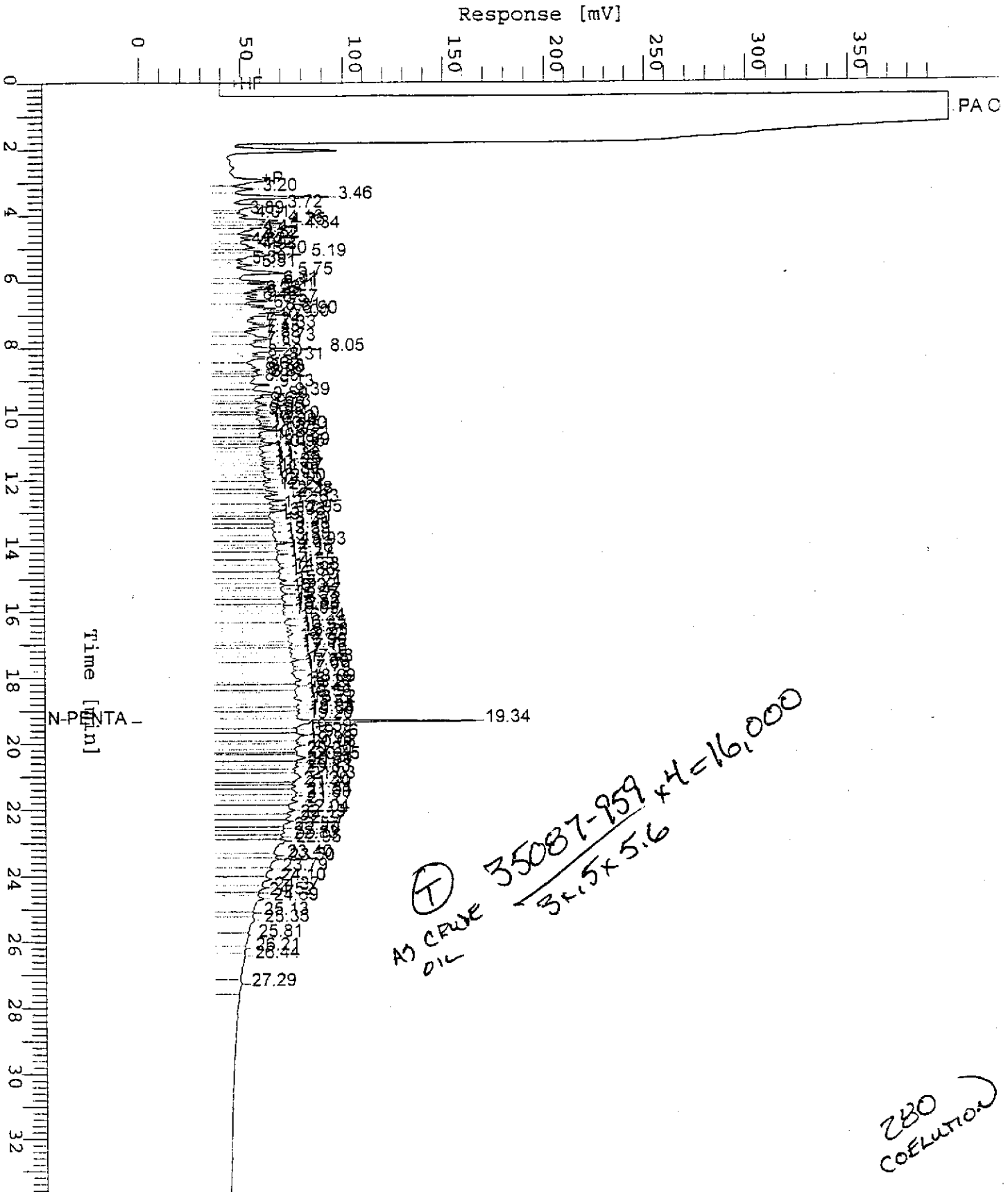
Time of Injection: 8/5/97 11:06

Low Point : 0.00 mV

Plot Scale: 400.0 mV

Page 1 of 1

High Point : 400.00 mV





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Erler & Kalinowski, Inc.
1730 So. Amphlett Blvd., Suite 320
San Mateo, CA 94402
Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: MW-5
Work Order #: 9707E14 -01, 07, 09

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080497BTEX21A	GC080497BTEX21A	GC080497BTEX21A	GC080497BTEX21A	GC080497BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9707C22-07-MSD	9707C22-07-MSD	9707C22-07-MSD	9707C22-07-MSD	9707C22-07-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	08/04/97	08/04/97	08/04/97	08/04/97	8/4/97
Analyzed Date:	08/04/97	08/04/97	08/04/97	08/04/97	8/4/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.0	8.0	8.1	24	46
MS % Recovery:	80	80	81	80	77
Dup. Result:	8.6	8.7	8.7	26	48
MSD % Recov.:	86	87	87	87	80
RPD:	7.2	8.4	7.1	8.0	4.3
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS080497-LCS	LCS080497-LCS	LCS080497-LCS	LCS080497-LCS	LCS080497-LCS
Prepared Date:	08/04/97	08/04/97	08/04/97	08/04/97	8/4/97
Analyzed Date:	08/04/97	08/04/97	08/04/97	08/04/97	8/4/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.6	9.6	9.6	29	52
LCS % Recov.:	96	96	96	97	87

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

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SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9707E14.ERL <1>





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Erler & Kalinowski, Inc. Client Project ID: 930040.04
 1730 So. Amphlett Blvd., Suite 320 Matrix: LIQUID
 San Mateo, CA 94402 Sample Descript.: MW-1
 Attention: Andy Safford Work Order #: 9707E14-02-06, 08 Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080197BTEX03A	GC080197BTEX03A	GC080197BTEX03A	GC080197BTEX03A	GC080197BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9707C22-05-MSD	9707C22-05-MSD	9707C22-05-MSD	9707C22-05-MSD	9707C22-05-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	08/01/97	08/01/97	08/01/97	08/01/97	08/01/97
Analyzed Date:	08/01/97	08/01/97	08/01/97	08/01/97	08/01/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.6	8.8	8.6	25	69
MS % Recovery:	86	88	86	83	115
Dup. Result:	8.8	9.0	8.9	25	71
MSD % Recov.:	88	90	89	83	118
RPD:	2.3	2.2	3.4	0.0	2.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS080197-LCS	LCS080197-LCS	LCS080197-LCS	LCS080197-LCS	LCS080197-LCS
Prepared Date:	08/01/97	08/01/97	08/01/97	08/01/97	08/01/97
Analyzed Date:	08/01/97	08/01/97	08/01/97	08/01/97	08/01/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.9	8.9	9.0	25	71
LCS % Recov.:	89	89	90	83	118

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

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SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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1730 So. Amphlett Blvd., Suite 320
San Mateo, CA 94402
Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: MW-3
Work Order #: 9707E14-01, 04, 05, 07, 09

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC073197801009A	GC073197801009A	GC073197801009A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9707E14-05-MSD	9707E14-05-MSD	9707E14-05-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	07/31/97	07/31/97	07/31/97
Analyzed Date:	07/31/97	07/31/97	07/31/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	23	22	23
MS % Recovery:	92	88	92
Dup. Result:	22	22	22
MSD % Recov.:	88	88	88
RPD:	4.4	0.0	4.4
RPD Limit:	0-25	0-25	0-25

LCS #:	LCS080197-LCS	LCS080197-LCS	LCS080197-LCS
Prepared Date:	08/01/97	08/01/97	08/01/97
Analyzed Date:	08/01/97	08/01/97	08/01/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	21	21	23
LCS % Recov.:	84	84	92

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

Please Note:

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SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

9707E14.ERL <3>





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San Mateo, CA 94402
Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: MW-3
Work Order #: 9707E14-06, 08

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC073197801009A	GC073197801009A	GC073197801009A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9707E14-05-MSD	9707E14-05-MSD	9707E14-05-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	07/31/97	07/31/97	07/31/97
Analyzed Date:	07/31/97	07/31/97	07/31/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	23	22	23
MS % Recovery:	92	88	92
Dup. Result:	22	22	22
MSD % Recov.:	88	88	88
RPD:	4.4	0.0	4.4
RPD Limit:	0-25	0-25	0-25

LCS #:	LCS073197-LCS	LCS073197-LCS	LCS073197-LCS
Prepared Date:	07/31/97	07/31/97	07/31/97
Analyzed Date:	07/31/97	07/31/97	07/31/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	21	21	22
LCS % Recov.:	84	84	88

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:

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Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: XSD
Work Order #: 9707E14-02, 03, 10

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC080197801009A	GC080197801009A	GC080197801009A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9707F19-01-XSD	9707F19-01-XSD	9707F19-01-XSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	08/01/97	08/01/97	08/01/97
Analyzed Date:	08/02/97	08/02/97	08/02/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	125 µg/L	125 µg/L	125 µg/L
Result:	100	100	100
MS % Recovery:	80	80	80
Dup. Result:	110	120	130
MSD % Recov.:	88	96	104
RPD:	9.5	18	26
RPD Limit:	0-25	0-25	0-25

LCS #:	LCS080497-LCS	LCS080497-LCS	LCS080497-LCS
Prepared Date:	08/04/97	08/04/97	08/04/97
Analyzed Date:	08/04/97	08/04/97	08/04/97
Instrument I.D.#:	GCHP9	GCHP9	GCHP9
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	20	20	23
LCS % Recov.:	80	80	92

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: XSD
Work Order #: 9707E14-02

Reported: Aug 8, 1997

*** For Chloroethane Run
QUALITY CONTROL DATA REPORT**

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC080597801008A	GC080597801008A	GC080597801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9707F68-02-XSD	9707F68-02-XSD	9707F68-02-XSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	08/04/97	08/04/97	08/04/97
Analyzed Date:	08/05/97	08/05/97	08/05/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	27	25	25
MS % Recovery:	108	100	100
Dup. Result:	28	26	26
MSD % Recov.:	112	104	104
RPD:	3.6	3.9	3.9
RPD Limit:	0-25	0-25	0-25

LCS #:	LCS080597-LCS	LCS080597-LCS	LCS080597-LCS
Prepared Date:	08/05/97	08/05/97	08/05/97
Analyzed Date:	08/05/97	08/05/97	08/05/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	26	25
LCS % Recov.:	108	104	100

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:

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9707E14.ERL <6>





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1730 So. Amphlett Blvd., Suite 320
San Mateo, CA 94402
Attention: Andy Safford

Client Project ID: 930040.04
Matrix: LIQUID
Sample Descript.: MW-3
Work Order #: 9707E14-01-08

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0730970HBPEXA
Analy. Method: EPA 8015M
Prep. Method: EPA 3510

Analyst: B. Sullivan
MS/MSD #: 9707E14-05
Sample Conc.: 1500
Prepared Date: 07/30/97
Analyzed Date: 07/31/97
Instrument I.D.#: GCHP5
Conc. Spiked: 1000 µg/L

Result: 1800
MS % Recovery: 30

Dup. Result: 2400
MSD % Recov.: 90

RPD: 29
RPD Limit: 0-50

LCS #: LCS073097-LCS

Prepared Date: 07/30/97
Analyzed Date: 07/31/97
Instrument I.D.#: GCHP5
Conc. Spiked: 1000 µg/L

LCS Result: 770
LCS % Recov.: 77

MS/MSD 50-150
LCS 60-140
Control Limits

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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9707E14.ERL <7>





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- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>ERLER & KALINOWSKI, INC.</u>			Project Name: <u>970040.04</u>		
Address: <u>1730 S. AMPHLETT BVD. #320</u>			Billing Address (if different):		
City: <u>SAN MATEO</u>	State: <u>CA</u>	Zip Code:			
Telephone: <u>415-578-1172</u>		FAX #:	P.O. #: <u>930040.04</u>		
Report To: <u>ANDY SAFFORD</u>		Sampler: <u>ROGER LION</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input checked="" type="checkbox"/> 10 Working Days <input type="checkbox"/> 3 Working Days <input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water	Analyses Requested <u>9707E14</u>
Time: <input type="checkbox"/> 7 Working Days <input type="checkbox"/> 2 Working Days	<input type="checkbox"/> Waste Water	
<input type="checkbox"/> 5 Working Days <input type="checkbox"/> 24 Hours	<input type="checkbox"/> Other	

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	EX-8010 EX-8015 TEPH TPH-5 M BRK FIELD ANAL.										Comments					
1. MW-5	7/24/97 13:31	WATER	4/1	VOL/GAS	1	✓	✓	✓													FREE PRODUCT!
2. MW-1	12:40		4/1	VOL	2	✓	✓	✓													FREE PRODUCT!
3. MW-4	12:57		4/1	VOL	3	✓	✓	✓													FREE PRODUCT!
4. MW-2A	12:20		4/1	VOL	4	✓	✓	✓													SHEEN
5. MW-3	12:01		4/1	VOL	5	✓	✓	✓													SHEEN MS/MSD
6. ERB	13:24		4/1	VOL	6	✓	✓	✓													SHEEN
7. MW-2B	✓ 12:23		4/1	VOL	7	✓	✓	✓													SHEEN
8.																					
9.																					
10.																					

Relinquished By: <u>[Signature]</u>	Date: <u>7/24/97</u>	Time: <u>17:15</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>7/24/97</u>	Time: <u>1715</u>

Pink - Client
Yellow - Sequoia
White - Sequoia