Erler & Kalinowski, Inc.
Consulting Engineers and Scientists
1730 So. Amphlett Blvd., Suite 320
San Mateo, California 94402
(415) 578-1172
Fax (415) 578-9131

LETTER OF TRANSMITTAL

TO: Susan Hugo

Alameda County Dept. of Environmental Health

Division of Hazardous Materials

1131 Harbor Bay Parkway

Alameda, CA 94502

DATE: 13 June 1995

CONTRACT NO: 940018.00

SUBJECT: Sybase, Inc.

We are sending you:

- [x] Plans Workplan Addendum
- [ ] Prints
- [ ] Specifications
- [ ] Reports
- [ ] Samples
- [ ] Shop Drawings
- [ ] Copy of Letter
- [ ] Other
- [ ] Change Order

Dated: 13 June 1995

Description: Addendum to: Workplan for Additional Soil and Groundwater Investigations at 64th and 65th Street Properties

These are transmitted as checked below:

- [ ] As Requested
- [ ] For Review & Comments
- [x] For Approval
- [ ] Returned After Loan to us
- [ ] For Information & Coordination
- [ ] For Action Noted

Remarks:

Copy to Ravi Arulanantham and
Sum Arigala, RWQCB

Tom Sullivan, AMB

John Bruno, Sybase, Inc.
Bill Wick, Crosby, Heafey, Roach & May

ERLER & KALINOWSKI, INC.

by: Michelle Kriegman-King

If enclosures are not as noted,
please advise us at once.

Erler &
Kalinowski, Inc.

ADDENDUM TO:
Workplan for Additional Soil and Groundwater Investigations at 64th and 65th Street Properties Emeryville, California

Sybase, Inc., Emeryville, California
(EKI 940018.00)

13 June 1995

ADDENDUM TO:
Workplan for Additional
Soil and Groundwater Investigations
at 64th and 65th Street Properties
Emeryville, California

Sybase, Inc., Emeryville, California
(EKI 940018.00)

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APPENDICES

1.0 INTRODUCTION

This addendum is intended to supplement the investigations proposed by Erler & Kalinowksi, Inc. ("EKI") in the *Workplan for Additional Soil and Groundwater Investigations at 64th and 65th Street Properties, Emeryville, California*, dated 2 May 1995 ("the Workplan"). The work proposed herein is being performed on behalf of AMB Properties and its client, Sybase, Inc. This addendum was written in response to comments by Regional Water Quality Control Board, San Francisco Bay Region ("RWQCB") and Alameda County Department of Environmental Health ("ACDEH") staff on the Workplan at a meeting with RWQCB staff, ACDEH staff, EKI, and Sybase, Inc. on 16 May 1995.

The properties proposed for redevelopment by Sybase, Inc. are located at 1410 and 1450 64th Street and 1465 65th Street ("the Site") in Emeryville, California (Figures 1 and 2). As depicted on Figure 2, the Site is divided into 3 sections, the Ryerson Steel Facility, the Ryerson Paved Lot property, and the Lowenberg property.

Results of groundwater sampling performed by EKI in March and May 1995 indicate that elevated concentrations of petroleum hydrocarbons (i.e., up to 130,000 ug/L) are present near the downgradient property boundary (Figure 3). RWQCB staff have expressed concern regarding potential impacts to groundwater on off-site properties due to migration of the petroleum hydrocarbons. The objective of this addendum is:

- to evaluate off-site, downgradient impacts due to potential migration of petroleum hydrocarbons from the Site.

Tasks proposed to satisfy these objectives will include the following:

- collect one downgradient, on-site grab groundwater sample and analyze sample for total petroleum hydrocarbons ("TPH");
- collect three downgradient, off-site grab groundwater samples and analyze samples for TPH;
- collect four shallow soil samples in each of the groundwater sampling locations and analyze the samples for TPH;

- perform four slug tests in existing groundwater monitoring wells to obtain information on hydraulic parameters; and

- perform fate and transport modeling to simulate expected steady-state TPH concentrations downgradient of the former refinery.

These tasks are discussed in more detail in Section 3.0. Related background regarding the source and characterization of the petroleum hydrocarbons is included in Section 2.0 below.

2.0 BACKGROUND

2.1 SITE USE HISTORY IN VICINITY OF ELEVATED PETROLEUM HYDROCARBON CONCENTRATIONS

Based on a review of a Sanborn Fire Insurance map for the Site from the year 1911, the Ryerson Paved Lot property and the west portion of the Lowenberg property were occupied by an oil refinery (Figure 2). Features of the oil refinery listed on the Sanborn map include "oil tanks, oil stills, coal oil department, oil reservoir, oil boiler, asphalt boiler, and refinery". Historic aerial photographs from 1949 and Sanborn Fire Insurance maps from 1950 indicate that the refinery was no longer present on the Site. The Site has remained undeveloped since 1949. Thus, any releases of petroleum hydrocarbons to soil and groundwater in the vicinity of the Ryerson paved lot property are likely to have occurred prior to 1949.

2.2 RESULTS OF SAMPLING AND ANALYSIS FOR PETROLEUM HYDROCARBONS

Soil samples in the vicinity of the former refinery were analyzed for total recoverable petroleum hydrocarbon ("TRPH") concentrations using EPA Method 418.1, which includes silica gel cleanup. TRPH concentrations detected in discrete and composite soil samples ranged from 16 mg/kg to 3,400 mg/kg. The highest concentrations of hydrocarbons were detected in soil samples collected in the area of the former refinery. Field notes compiled at the time of drilling indicate that black material observed in some soil samples looked like soft asphalt, suggesting that the hydrocarbons are of high molecular weight and not very mobile.

Groundwater samples were analyzed for petroleum hydrocarbons using EPA Method 8015 modified. Petroleum hydrocarbons were

detected in groundwater samples collected from all wells on the Site (Figure 3). Detected concentrations ranged from 71 ug/L to 11,000 ug/L for total purgeable petroleum hydrocarbons ("TPPH") and 97 ug/L to 130,000 ug/L for total extractable petroleum hydrocarbons ("TEPH"). Extractable petroleum hydrocarbons concentrations greater than 5,000 ug/L are suggestive of a non-aqueous phase (Zurcher and Thuer, 1978), although significant thickness of free product has not measurable.

In the vicinity of the former refinery, the hydrocarbon patterns were reported as a range of carbon chain lengths (i.e., C9 to C24) because the laboratory indicated that gas chromatogram of the sample did not resemble typical hydrocarbon standards. In many of the samples analyzed, TEPH was quantified to C24, although the laboratory indicated that the hydrocarbon pattern on the chromatogram extended beyond C36. Hydrocarbons in the range of C9 to C36 represent mid- to high-boiling point petroleum distillates.

Further evaluation of the chromatograms from analyses performed on samples collected from downgradient wells MW-5 and MW-6 (Figure 3) indicates that the hydrocarbons in these samples may resemble Fuel Oil #6 (i.e., Bunker C oil) or crude oil (see Appendix A for sample and standard chromatograms). Because the hydrocarbons were most likely released to the environment more than 50 years ago, the petroleum hydrocarbons have probably undergone significant weathering. Furthermore, hydrocarbon concentrations downgradient of the source area have most likely reached a steady state level.

3.0 ADDENDUM TO WORKPLAN TASKS

The primary objective of this addendum is to evaluate the downgradient, off-site extent of petroleum hydrocarbons, if any. In response to a request by RWQCB and ACDEH staff, three downgradient, off-site groundwater sampling locations are proposed (Figure 4). These three locations are on the west side of the Southern Pacific Railroad ("SPRR") tracks and the Site is on the east side of the SPRR tracks. It should be noted that underground pipelines containing petroleum products are known to have existed parallel to and underneath the SPRR tracks in the vicinity of the Site. Thus, interpretation of downgradient groundwater sampling results may be confounded by possible petroleum hydrocarbon releases from these pipelines to soil and groundwater.

3.1 TASK 1A - ACQUIRE PERMITS, PERFORM UNDERGROUND UTILITY SURVEY, AND PREPARE SITE HEALTH & SAFETY PLAN

This task will be the same as Task 1 proposed in the Workplan, except encroachment permits will be obtained from the City of Emeryville, where applicable (i.e., for sampling along Bay Street).

3.2 TASK 2A - SOIL AND GRAB GROUNDWATER SAMPLING

In addition to the soil and grab groundwater sampling proposed in Task 2 of the Workplan, a total of four additional borings (P-7 through P-10) will be constructed to collect soil and grab groundwater samples. The proposed locations of borings P-7 through P-10 are included on Figure 4. The purpose of borings P-7 through P-10 is (1) to obtain information on the downgradient extent of petroleum hydrocarbons in groundwater, (2) to evaluate if there are potential local downgradient petroleum hydrocarbon sources immediately above the groundwater sampling locations, and (3) to obtain soil parameters for fate and transport modeling.

Borings P-7 through P-10 will each be completed to a depth of 15 feet below ground surface. Two soil samples will be collected from each boring: (1) above the groundwater table, or immediately below the interface of fill material and native soil, whichever is more shallow (to evaluate if there are local petroleum hydrocarbon sources), and (2) beneath the groundwater table (to obtain soil parameters for modeling). Grab groundwater samples will be collected from borings P-7 through P-10 to evaluate the downgradient extent of petroleum hydrocarbons in groundwater.

3.3 TASK 3A - LABORATORY ANALYSIS

The proposed additional soil and groundwater sample analyses are summarized below. The four shallow soil samples from borings P-7 through P-10 will be analyzed for the following:

- Total Extractable Petroleum Hydrocarbons ("TEPH") using EPA Method 8015 modified.

The four deeper soil samples from borings P-7 through P-10 will be analyzed for the following:

- Total Organic Carbon using EPA Method 415.1.

The four groundwater samples from borings P-7 through P-10 will be analyzed for the following:

- TEPH using EPA Method 8015 modified; and

- Arsenic using EPA Method 6010.

The groundwater samples retained for arsenic analysis will be filtered in the laboratory.

3.4 TASK 4A - HYDRAULIC TESTING

Hydraulic testing will consist of performing slug tests to obtain an estimate of the hydraulic conductivity in the shallow aquifer zone. Slug tests will be performed in existing groundwater monitoring wells. Wells to be tested include MW-4, MW-5, MW-6 and RMW-3.

The slug test will be performed by inserting a slug of known volume into the monitoring well and recording the change in the water level as it drops to its static level. When the slug is removed, the water level will be monitored again as it rises to its static level. During the slug test, water levels will be monitored with a pressure transducer and an associated data logger. The change in water level as a function of time will be plotted to estimate the hydraulic conductivity.

3.5 TASK 5A - FATE AND TRANSPORT MODELING

The fate and transport of petroleum hydrocarbons in groundwater will be modeled using the Analytical Transient One, Two, Three Dimensional Simulation of Waste Transport in an Aquifer System (AT123D) model (U.S. EPA, 1985). The modeling will include the use of site-specific physical parameters obtained from the geotechnical investigation (Treadwell & Rollo, Inc., May 1995) and from aquifer testing; and site-specific chemical parameters.

The site-specific physical parameters include porosity, bulk density, hydraulic conductivity, and hydraulic gradient. The site-specific chemical parameters include the total organic carbon content and an estimation of the average carbon chain length of the TPH. Characterization of the TPH with respect to its average carbon chain length will allow estimation of chemical parameters for surrogate compounds. Chemical fate and transport parameters include, but are not limited to, the organic carbon distribution coefficient, solubility in water, and the biodegradation rate. Chemical parameters for surrogate compounds will be obtained from scientific literature.

3.6 TASK 6A - EVALUATE SITE DATA AND PREPARE REPORT

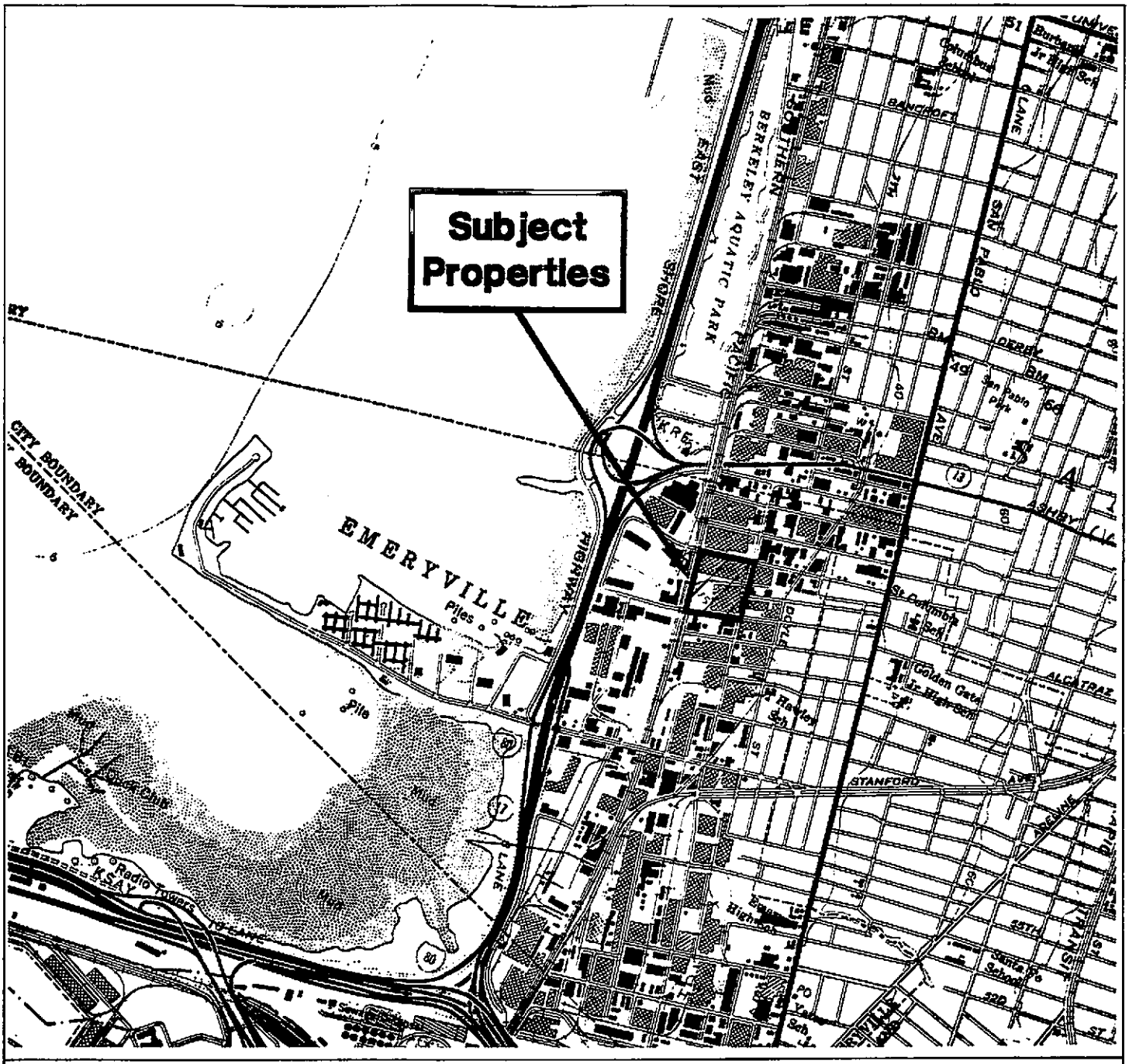
The report described in the Workplan will be augmented to include the results of Tasks 1A through 5A, described above.

4.0 REFERENCES

Treadwell & Rollo, Inc., 4 May 1995, *Draft Report, Geotechnical Investigation,* Sybase Hollis Street Campus, Emeryville, California.

U.S. Environmental Protection Agency, 1985, *AT123D: Analytical Transient One, Two, Three Dimensional Simulation of Waste Transport in Aquifer System.*

Zurcher, F. and M. Thuer, 1978, Rapid Weathering Processes of Fuel Oil in Natural Waters: Analyses and Interpretations, *Environmental Science & Technology,* 12: 838-843.



Basemap Source: 1980 U.S.G.S Quad Map, Oakland West, California.

N

0 2000 4000

(Approximate Scale in Feet)

Notes:

1. All locations are approximate.

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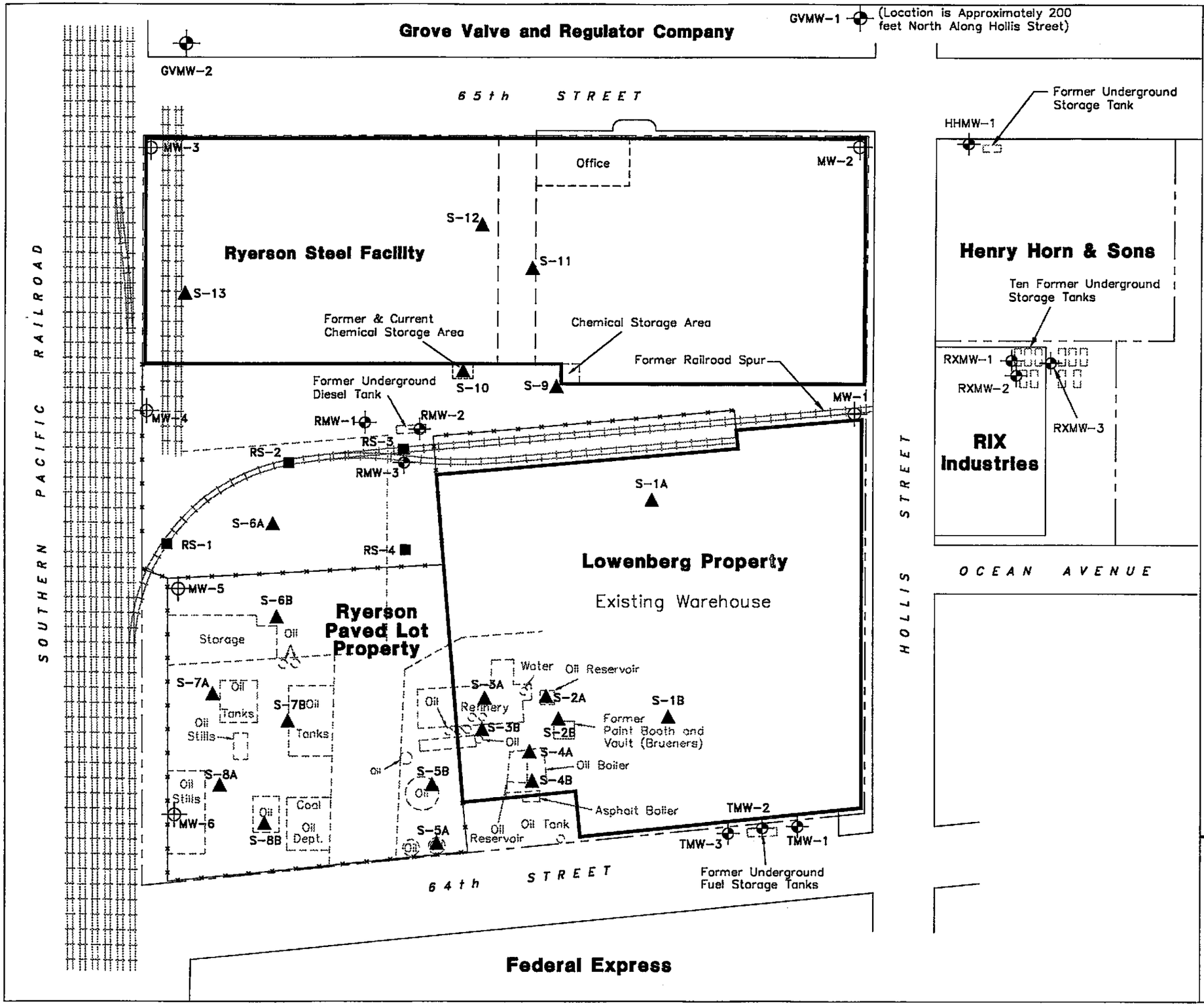
Site Location

64th & 65th Street Properties
Emeryville, CA
June 1995
EKI 940018.00

Figure 1



Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.

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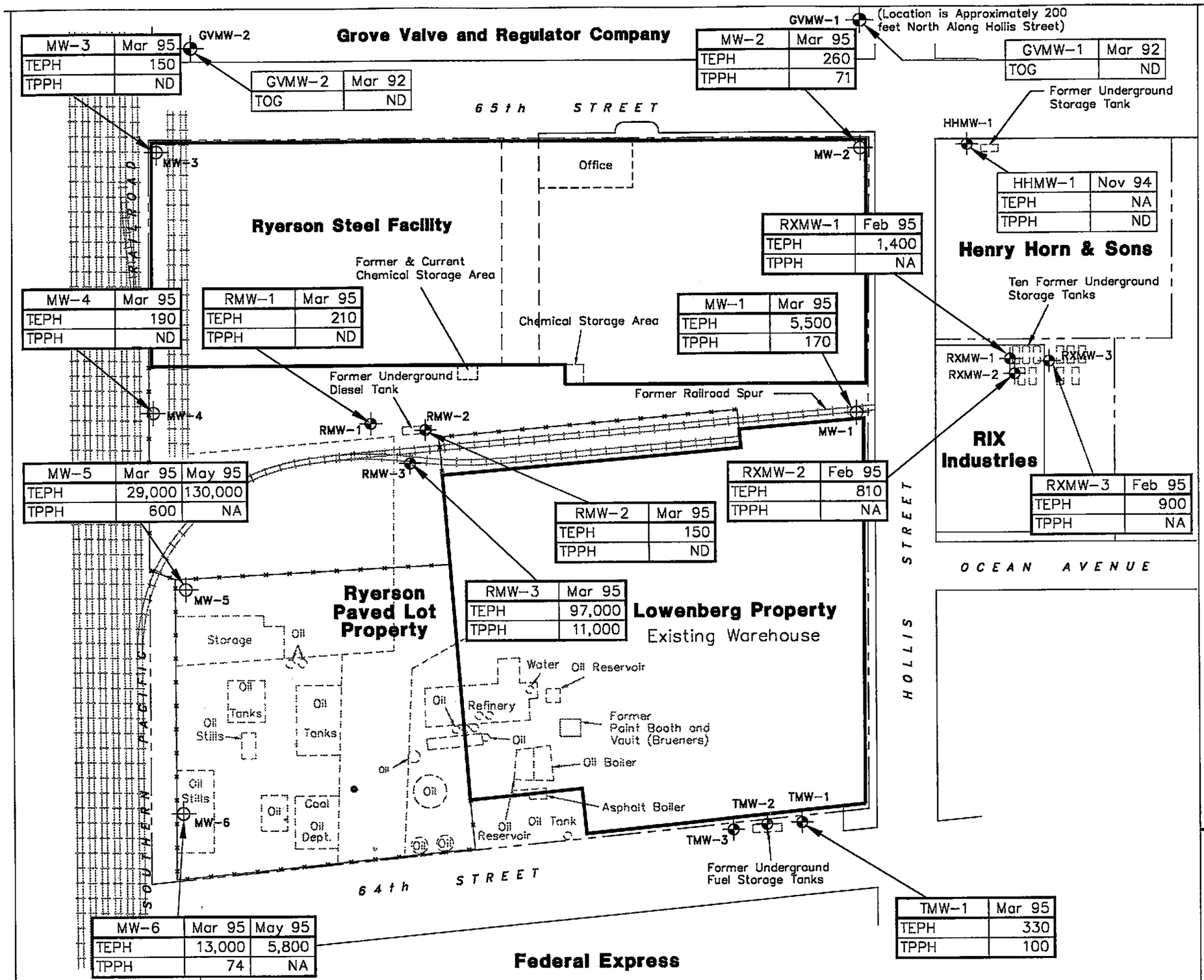
Site Plan

64th & 65th Street Properties
Emeryville, CA
June 1995
EKI 940018.00
Figure 2



N

0 100 200

(Approximate Scale in Feet)

LEGEND

- Railroad Tracks
- Approximate Property Boundary
- Historical Site Features (1911 Sanborn Map)
- Monitoring Well Installed by EKI
- Monitoring Well Installed by Others
- TEPH — Total Extractable Petroleum Hydrocarbons (ug/L)
- TPPH — Total Purgeable Petroleum Hydrocarbons (ug/L)
- TOG — Total Oil and Grease (ug/L)
- ND — Not Detected
- NA — Not Analyzed

Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.
3. Boxes indicated in bold represent data from samples collected in February/ March 1995.
4. TEPH and TPPH quantified using EPA Method 8015m.

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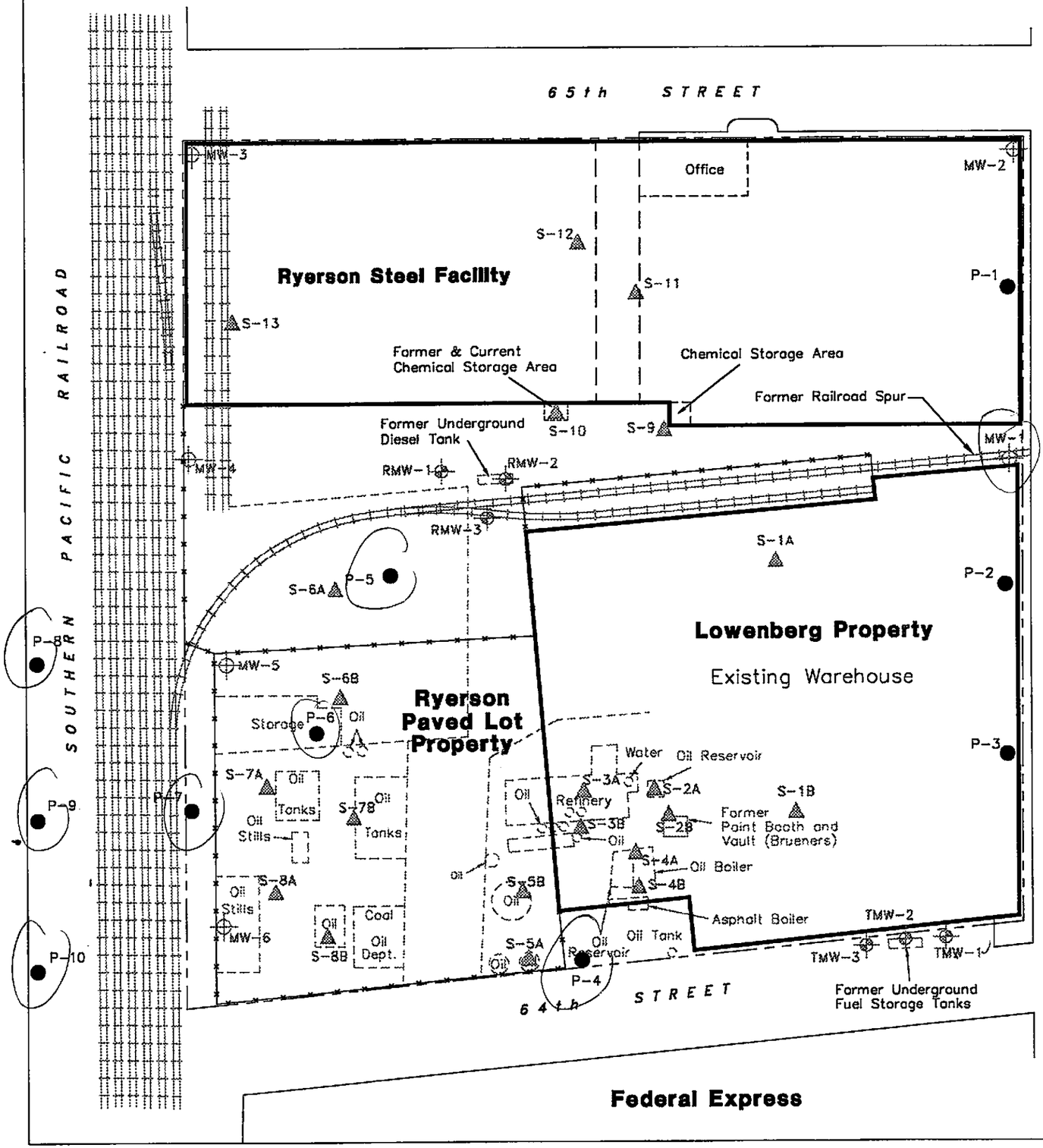
Concentrations of Petroleum Hydrocarbons in Groundwater

64th & 65th Street Properties
Emeryville, CA
June 1995
EKI 940018.00

Figure 3



N

0 100 200

(Approximate Scale in Feet)

LEGEND

- Railroad Tracks
- Approximate Property Boundary
- Historical Site Features (1911 Sanborn Map)
- Monitoring Well Installed by EKI
- Shallow Soil Boring by EKI
- Monitoring Well Installed by Others
- P-2 Proposed Soil and/or Grab Groundwater Sampling Locations

Notes:

1. All locations are approximate.

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Proposed Soil and/or Grab Groundwater Sampling Locations

64th & 65th Street Properties
Emeryville, CA
June 1995
EKI 940018.00
Figure 4

APPENDIX A

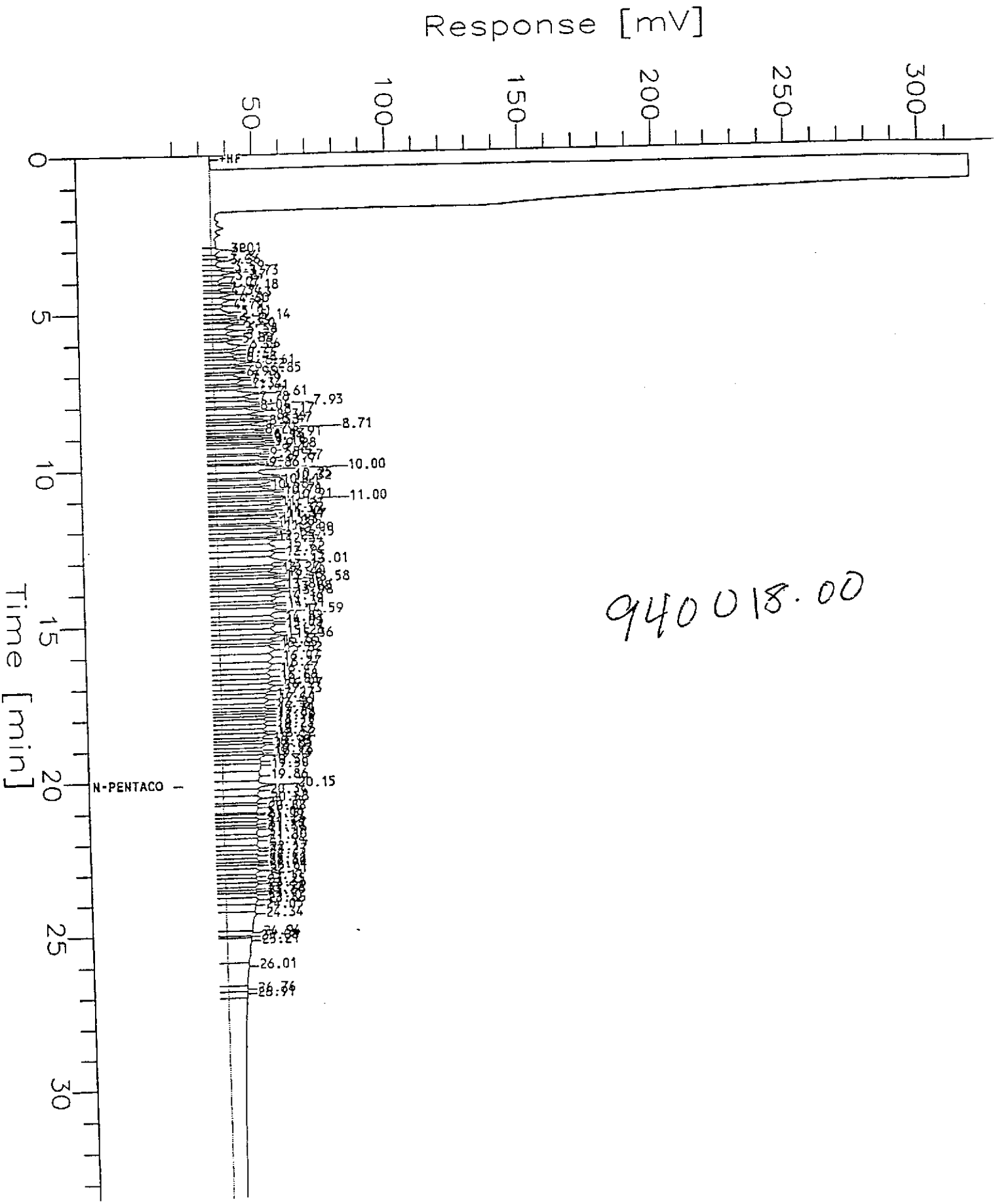
Groundwater Sample and Petroleum Hydrocarbon Standard Chromatograms

Groundwater Sample Chromatograms
from Wells MW-5 and MW-6
(March and May 1995)

Chromatogram

Sample Name : D9503J63-4 (500:1*50)RE-SHOT
FileName : s:\ghp_05\0409\405A044.raw
Method : ETPHOSA.ins
Start Time : 0.00 min
Scale Factor: -1.0
End Time : 33.67 min
Plot Offset: 19 mV

Sample #: MW-5
Date : 4/6/95 22:48
Time of Injection: 4/6/95 22:14
Low Point : 18.98 mV
Plot Scale: 300.0 mV
High Point : 318.98 mV



940018.00

Software Version: 3.3 <4B11>
Sample Name : D9503J63-4 (500:1*50)RE-SHOTTime : 4/6/95 22:48
Sample Number: MW-5 Study : EKI
Operator : NH

Instrument : GCHP_05 Channel : A A/D mV Range : 1024
AutoSampler : HP7673A
Rack/Vial : 1/44

Interface Serial # : Data Acquisition Time: 4/6/95 22:14
Delay Time : 0.00 min.
End Time : 33.67 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0409\405A044.RAW
Result File : S:\GHP_05\0409\405A044.RST
Instrument File: S:\GHP_05\MET_SEQ\ETPH05A.ins
Process File : S:\GHP_05\MET_SEQ\ETPH05A
Sample File : S:\GHP_05\MET_SEQ\ETPH05A
Sequence File : S:\GHP_05\MET_SEQ\H050405.seq

Inj. Volume : 3 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
	8.250	n-C9 to n-C17 Jet	8829601.58	15.20		0.1472	5.8864
	11.250	n-C9 to n-C24 TPH-D	15429041.32	26.56		14.2594	570.3750
	16.750	n-C9 to n-C40 Total	20504990.25	35.30		0.3417	13.6700
	19.875	n-C16 to n-C36 M/Oil	13324087.80	22.94		0.2221	8.8827
			58087720.95	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A044.TX0

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
1	3.009		34826.99	0.17	*B	0.0006	0.0232
2	3.239		13529.55	0.07	*V	0.0002	0.0090
3	3.357		24783.16	0.12	*V	0.0004	0.0165
4	3.585		27195.31	0.13	*V	0.0005	0.0181
5	3.731		59926.68	0.29	*V	0.0010	0.0400
6	3.872		39285.78	0.19	*V	0.0007	0.0262
7	4.074		20254.86	0.10	*V	0.0003	0.0135
8	4.180		56346.96	0.27	*V	0.0009	0.0376
9	4.340		15185.69	0.07	*V	0.0003	0.0101
10	4.431		47720.53	0.23	*V	0.0008	0.0318
11	4.599		55145.61	0.27	*V	0.0009	0.0368
12	4.792		31581.79	0.15	*V	0.0005	0.0211
13	5.006		55251.97	0.27	*V	0.0009	0.0368

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
14	5.141		68358.49	0.33	*V	0.0011	0.0456
15	5.244		37004.48	0.18	*V	0.0006	0.0247
16	5.328		20241.08	0.10	*V	0.0003	0.0135
17	5.397		64040.50	0.31	*V	0.0011	0.0427
18	5.576		65780.81	0.32	*V	0.0011	0.0439
19	5.766		54639.43	0.27	*V	0.0009	0.0364
20	5.879		39577.96	0.19	*V	0.0007	0.0264
21	6.064		109194.56	0.53	*V	0.0018	0.0728
22	6.216		47980.83	0.23	*V	0.0008	0.0320
23	6.352		60449.94	0.29	*V	0.0010	0.0403
24	6.477		50811.03	0.25	*V	0.0008	0.0339
25	6.606		98424.56	0.48	*V	0.0016	0.0656
26	6.718		57298.23	0.28	*V	0.0010	0.0382
27	6.854		104102.82	0.51	*V	0.0017	0.0694
28	6.950		37751.69	0.18	*V	0.0006	0.0252
29	7.105		76592.13	0.37	*V	0.0013	0.0511
30	7.188		81670.09	0.40	*V	0.0014	0.0544
31	7.340		46571.97	0.23	*V	0.0008	0.0310
32	7.413		68036.99	0.33	*V	0.0011	0.0454
33	7.606		189636.00	0.92	*V	0.0032	0.1264
34	7.777		88135.36	0.43	*V	0.0015	0.0588
35	7.926		194525.86	0.95	*V	0.0032	0.1297
36	8.039		50635.54	0.25	*V	0.0008	0.0338
37	8.166		189570.58	0.92	*V	0.0032	0.1264
38	8.343		122796.42	0.60	*V	0.0020	0.0819
39	8.466		100436.51	0.49	*V	0.0017	0.0670
40	8.528		83590.22	0.41	*V	0.0014	0.0557
41	8.705		231890.49	1.13	*V	0.0039	0.1546
42	8.793		82343.34	0.40	*V	0.0014	0.0549
43	8.908		113974.36	0.56	*V	0.0019	0.0760
44	8.971		57504.71	0.28	*V	0.0010	0.0383
45	9.038		71400.78	0.35	*V	0.0012	0.0476
46	9.121		102926.59	0.50	*V	0.0017	0.0686
47	9.192		73997.48	0.36	*V	0.0012	0.0493
48	9.280		130117.69	0.63	*V	0.0022	0.0867
49	9.436		191084.90	0.93	*V	0.0032	0.1274
50	9.547		65826.21	0.32	*V	0.0011	0.0439
51	9.666		159828.58	0.78	*V	0.0027	0.1066
52	9.765		122206.71	0.60	*V	0.0020	0.0815
53	9.864		64115.87	0.31	*V	0.0011	0.0427
54	10.001		323681.95	1.58	*V	0.0054	0.2158
55	10.254		216515.41	1.06	*V	0.0036	0.1443
56	10.319		93504.99	0.46	*V	0.0016	0.0623
57	10.406		186150.03	0.91	*V	0.0031	0.1241
58	10.579		80196.84	0.39	*V	0.0013	0.0535
59	10.707		157150.90	0.77	*V	0.0026	0.1048
60	10.775		171640.52	0.84	*V	0.0029	0.1144
61	10.911		114011.09	0.56	*V	0.0019	0.0760
62	10.997		201100.68	0.98	*V	0.0034	0.1341
63	11.137		158216.69	0.77	*V	0.0026	0.1055
64	11.233		167520.19	0.82	*V	0.0028	0.1117
65	11.364		82909.96	0.40	*V	0.0014	0.0553
66	11.459		121529.26	0.59	*V	0.0020	0.0810
67	11.514		72098.13	0.35	*V	0.0012	0.0481
68	11.571		119640.12	0.58	*V	0.0020	0.0798
69	11.732		173543.81	0.85	*V	0.0029	0.1157
70	11.798		73598.17	0.36	*V	0.0012	0.0491
71	11.915		130083.89	0.63	*V	0.0022	0.0867

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
72	12.003		202970.18	0.99	*V	0.0034	0.1353
73	12.149		178732.99	0.87	*V	0.0030	0.1192
74	12.251		74234.18	0.36	*V	0.0012	0.0495
75	12.343		193218.78	0.94	*V	0.0032	0.1288
76	12.619		286347.68	1.40	*V	0.0048	0.1909
77	12.739		215076.46	1.05	*V	0.0036	0.1434
78	13.006		365939.62	1.78	*V	0.0061	0.2440
79	13.172		152182.49	0.74	*V	0.0025	0.1015
80	13.266		110787.95	0.54	*V	0.0018	0.0739
81	13.395		135078.83	0.66	*V	0.0023	0.0901
82	13.483		115833.14	0.56	*V	0.0019	0.0772
83	13.583		271070.54	1.32	*V	0.0045	0.1807
84	13.797		152326.98	0.74	*V	0.0025	0.1016
85	13.880		109014.49	0.53	*V	0.0018	0.0727
86	13.984		215323.49	1.05	*V	0.0036	0.1435
87	14.156		214495.68	1.05	*V	0.0036	0.1430
88	14.337		149539.12	0.73	*V	0.0025	0.0997
89	14.411		136086.72	0.66	*V	0.0023	0.0907
90	14.587		317241.81	1.55	*V	0.0053	0.2115
91	14.822		193206.54	0.94	*V	0.0032	0.1288
92	14.928		115099.19	0.56	*V	0.0019	0.0767
93	15.016		193460.71	0.94	*V	0.0032	0.1290
94	15.256		211510.65	1.03	*V	0.0035	0.1410
95	15.360		207772.80	1.01	*V	0.0035	0.1385
96	15.545		155333.31	0.76	*V	0.0026	0.1036
97	15.654		105461.17	0.51	*V	0.0018	0.0703
98	15.824		279787.40	1.36	*V	0.0047	0.1865
99	16.068		304441.11	1.48	*V	0.0051	0.2030
100	16.271		239090.72	1.17	*V	0.0040	0.1594
101	16.467		187742.91	0.92	*V	0.0031	0.1252
102	16.681		175934.92	0.86	*V	0.0029	0.1173
103	16.826		160844.63	0.78	*V	0.0027	0.1072
104	16.967		197345.10	0.96	*V	0.0033	0.1316
105	17.132		159828.70	0.78	*V	0.0027	0.1066
106	17.268		133499.60	0.65	*V	0.0022	0.0890
107	17.413		178028.63	0.87	*V	0.0030	0.1187
108	17.588		132325.15	0.65	*V	0.0022	0.0882
109	17.709		109796.52	0.54	*V	0.0018	0.0732
110	17.786		79611.97	0.39	*V	0.0013	0.0531
111	17.879		92528.35	0.45	*V	0.0015	0.0617
112	17.973		91977.41	0.45	*V	0.0015	0.0613
113	18.103		144444.96	0.70	*V	0.0024	0.0963
114	18.229		157181.76	0.77	*V	0.0026	0.1048
115	18.423		128495.73	0.63	*V	0.0021	0.0857
116	18.521		143289.38	0.70	*V	0.0024	0.0955
117	18.655		84880.73	0.41	*V	0.0014	0.0566
118	18.779		97295.13	0.47	*V	0.0016	0.0649
119	18.853		124760.30	0.61	*V	0.0021	0.0832
120	19.024		96311.73	0.47	*V	0.0016	0.0642
121	19.121		96838.82	0.47	*V	0.0016	0.0646
122	19.190		130847.56	0.64	*V	0.0022	0.0872
123	19.384		125367.35	0.61	*V	0.0021	0.0836
124	19.504		203633.47	0.99	*V	0.0034	0.1358
125	19.856		261776.35	1.28	*V	0.0044	0.1745
126	20.151	n-Pentacosane	240579.16	1.17	*V	0.2243	8.9730
127	20.337		178880.54	0.87	*V	0.0030	0.1193
128	20.579		170135.76	0.83	*V	0.0028	0.1134
129	20.752		61013.89	0.30	*V	0.0010	0.0407

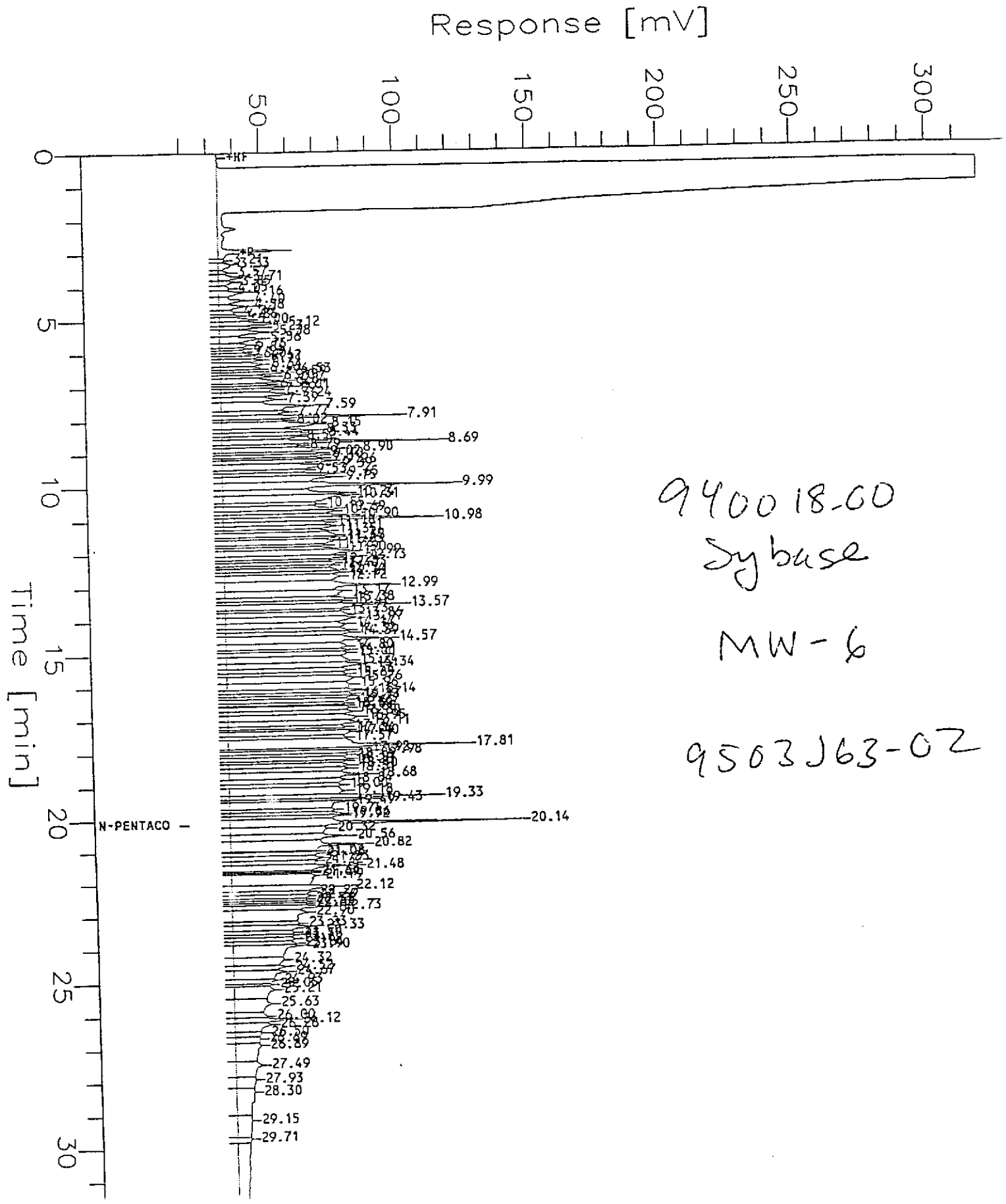
Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
130	20.875		172903.73	0.84	*V	0.0029	0.1153
131	21.056		49466.71	0.24	*V	0.0008	0.0330
132	21.106		78884.78	0.38	*V	0.0013	0.0526
133	21.241		92088.61	0.45	*V	0.0015	0.0614
134	21.391		88836.15	0.43	*V	0.0015	0.0592
135	21.495		59620.60	0.29	*V	0.0010	0.0397
136	21.563		159554.38	0.78	*V	0.0027	0.1064
137	21.798		100792.20	0.49	*V	0.0017	0.0672
138	21.943		159182.24	0.78	*V	0.0027	0.1061
139	22.172		122278.90	0.60	*V	0.0020	0.0815
140	22.274		100570.93	0.49	*V	0.0017	0.0670
141	22.415		98489.73	0.48	*V	0.0016	0.0657
142	22.579		89158.68	0.43	*V	0.0015	0.0594
143	22.643		70902.64	0.35	*V	0.0012	0.0473
144	22.744		97183.16	0.47	*V	0.0016	0.0648
145	22.913		135861.76	0.66	*V	0.0023	0.0906
146	23.110		82928.07	0.40	*V	0.0014	0.0553
147	23.251		114165.02	0.56	*V	0.0019	0.0761
148	23.361		103992.89	0.51	*V	0.0017	0.0693
149	23.523		63387.78	0.31	*V	0.0011	0.0423
150	23.601		64570.90	0.31	*V	0.0011	0.0430
151	23.718		102671.01	0.50	*V	0.0017	0.0684
152	23.863		157114.17	0.77	*V	0.0026	0.1047
153	24.048		157475.09	0.77	*V	0.0026	0.1050
154	24.339		384632.33	1.88	*V	0.0064	0.2564
155	24.937		97880.12	0.48	*V	0.0016	0.0653
156	25.081		36031.91	0.18	*V	0.0006	0.0240
157	25.213		409196.51	2.00	*V	0.0068	0.2728
158	26.014		336164.46	1.64	*V	0.0056	0.2241
159	26.757		87409.82	0.43	*V	0.0015	0.0583
160	26.910		86534.44	0.42	*V	0.0014	0.0577
			20504990.25	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A044.TX1

Chromatogram

Sample Name : D9503J63-2 (500:1*10)RE-SHOT
FileName : s:\ghp_05\0409\405A042.raw
Method : ETPH05A.ins
Start Time : 0.00 min End Time : 31.65 min
Scale Factor: -1.0 Plot Offset: 19 mV

Sample #: MW-6
Date : 4/6/95 20:04
Time of Injection: 4/6/95 19:31
Low Point : 18.81 mV High Point : 318.81 mV
Plot Scale: 300.0 mV



940018.00
Sybase
MW-6
9503J63-02

Software Version: 3.3 <4B11>
Sample Name : D9503J63-2 (500:1*10)RE-SHOTTime : 4/6/95 20:04
Sample Number: MW-6 Study : EKI
Operator :

Instrument : GCHP_05 Channel : A A/D mV Range : 1024
AutoSampler : HP7673A
Rack/Vial : 1/42

Interface Serial # : Data Acquisition Time: 4/6/95 19:31
Delay Time : 0.00 min.
End Time : 31.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0409\405A042.RAW
Result File : S:\GHP_05\0409\405A042.RST
Instrument File: S:\GHP_05\MET_SEQ\ETPH05A.ins
Process File : S:\GHP_05\MET_SEQ\ETPH05A
Sample File : S:\GHP_05\MET_SEQ\ETPH05A
Sequence File : S:\GHP_05\MET_SEQ\H050405.SEQ

Inj. Volume : 3 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
	8.250	n-C9 to n-C17 Jet	16765454.05	13.09		0.2794	11.1770
	11.250	n-C9 to n-C24 TPH-D	33819319.00	26.40		31.2555	1250.2199
	16.750	n-C9 to n-C40 Total	45905032.97	35.83		0.7651	30.6034
	19.875	n-C16 to n-C36 M/Oil	31620028.59	24.68		0.5270	21.0800
			1.28110e+08	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A042.TX0

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
1	3.210		14406.85	0.03	*B	0.0002	0.0096
2	3.333		43870.58	0.10	*V	0.0007	0.0292
3	3.569		20095.18	0.04	*V	0.0003	0.0134
4	3.711		62518.01	0.14	*V	0.0010	0.0417
5	3.854		38383.87	0.08	*V	0.0006	0.0256
6	4.050		27688.09	0.06	*V	0.0005	0.0185
7	4.163		72741.15	0.16	*V	0.0012	0.0485
8	4.401		72918.81	0.16	*V	0.0012	0.0486
9	4.581		72280.38	0.16	*V	0.0012	0.0482
10	4.757		38448.27	0.08	*V	0.0006	0.0256
11	4.864		36190.95	0.08	*V	0.0006	0.0241
12	4.996		77277.10	0.17	*V	0.0013	0.0515
13	5.118		127939.05	0.28	*V	0.0021	0.0853

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
14	5.233		76733.82	0.17	*V	0.0013	0.0512
15	5.377		140724.96	0.31	*V	0.0023	0.0938
16	5.560		136096.93	0.30	*V	0.0023	0.0907
17	5.754		75556.31	0.16	*V	0.0013	0.0504
18	5.862		42865.62	0.09	*V	0.0007	0.0286
19	5.959		42144.93	0.09	*V	0.0007	0.0281
20	6.044		65545.89	0.14	*V	0.0011	0.0437
21	6.117		65781.32	0.14	*V	0.0011	0.0439
22	6.207		88227.69	0.19	*V	0.0015	0.0588
23	6.342		110422.06	0.24	*V	0.0018	0.0736
24	6.456		67838.16	0.15	*V	0.0011	0.0452
25	6.528		110975.68	0.24	*V	0.0018	0.0740
26	6.593		112491.15	0.25	*V	0.0019	0.0750
27	6.701		96701.85	0.21	*V	0.0016	0.0645
28	6.839		167089.77	0.36	*V	0.0028	0.1114
29	6.937		85357.95	0.19	*V	0.0014	0.0569
30	7.008		105334.15	0.23	*V	0.0018	0.0702
31	7.091		108793.60	0.24	*V	0.0018	0.0725
32	7.237		191443.65	0.42	*V	0.0032	0.1276
33	7.388		175322.51	0.38	*V	0.0029	0.1169
34	7.587		382759.52	0.83	*V	0.0064	0.2552
35	7.769		169268.41	0.37	*V	0.0028	0.1128
36	7.910		309832.68	0.67	*V	0.0052	0.2066
37	8.023		114938.50	0.25	*V	0.0019	0.0766
38	8.150		357457.43	0.78	*V	0.0060	0.2383
39	8.325		215959.50	0.47	*V	0.0036	0.1440
40	8.444		230270.70	0.50	*V	0.0038	0.1535
41	8.518		151035.46	0.33	*V	0.0025	0.1007
42	8.689		429331.11	0.94	*V	0.0072	0.2862
43	8.794		158768.14	0.35	*V	0.0026	0.1058
44	8.896		302533.60	0.66	*V	0.0050	0.2017
45	9.024		170552.28	0.37	*V	0.0028	0.1137
46	9.095		202994.15	0.44	*V	0.0034	0.1353
47	9.188		147202.08	0.32	*V	0.0025	0.0981
48	9.263		233049.25	0.51	*V	0.0039	0.1554
49	9.389		398144.67	0.87	*V	0.0066	0.2654
50	9.528		151267.57	0.33	*V	0.0025	0.1008
51	9.652		241485.28	0.53	*V	0.0040	0.1610
52	9.753		409733.30	0.89	*V	0.0068	0.2732
53	9.986		606357.45	1.32	*V	0.0101	0.4042
54	10.237		399387.09	0.87	*V	0.0067	0.2663
55	10.307		518271.20	1.13	*V	0.0086	0.3455
56	10.553		223654.69	0.49	*V	0.0037	0.1491
57	10.689		312037.46	0.68	*V	0.0052	0.2080
58	10.770		260143.42	0.57	*V	0.0043	0.1734
59	10.895		277512.34	0.60	*V	0.0046	0.1850
60	10.981		361910.87	0.79	*V	0.0060	0.2413
61	11.099		306838.21	0.67	*V	0.0051	0.2046
62	11.213		285144.28	0.62	*V	0.0048	0.1901
63	11.347		186092.89	0.41	*V	0.0031	0.1241
64	11.492		364390.49	0.79	*V	0.0061	0.2429
65	11.548		196524.42	0.43	*V	0.0033	0.1310
66	11.647		350339.96	0.76	*V	0.0058	0.2336
67	11.783		180216.19	0.39	*V	0.0030	0.1201
68	11.898		226856.01	0.49	*V	0.0038	0.1512
69	11.988		427763.86	0.93	*V	0.0071	0.2852
70	12.133		323323.33	0.70	*V	0.0054	0.2155
71	12.235		190801.91	0.42	*V	0.0032	0.1272

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
72	12.329		232259.95	0.51	*V	0.0039	0.1548
73	12.399		192225.04	0.42	*V	0.0032	0.1282
74	12.537		267879.93	0.58	*V	0.0045	0.1786
75	12.607		239049.53	0.52	*V	0.0040	0.1594
76	12.724		469846.94	1.02	*V	0.0078	0.3132
77	12.991		777216.71	1.69	*V	0.0130	0.5181
78	13.167		515464.59	1.12	*V	0.0086	0.3436
79	13.381		282737.23	0.62	*V	0.0047	0.1885
80	13.466		244418.14	0.53	*V	0.0041	0.1629
81	13.568		537876.02	1.17	*V	0.0090	0.3586
82	13.732		173953.83	0.38	*V	0.0029	0.1160
83	13.858		403784.80	0.88	*V	0.0067	0.2692
84	13.968		479407.17	1.04	*V	0.0080	0.3196
85	14.144		423436.29	0.92	*V	0.0071	0.2823
86	14.324		288847.57	0.63	*V	0.0048	0.1926
87	14.391		295640.85	0.64	*V	0.0049	0.1971
88	14.571		694411.96	1.51	*V	0.0116	0.4629
89	14.803		461577.21	1.01	*V	0.0077	0.3077
90	14.911		217144.53	0.47	*V	0.0036	0.1448
91	14.998		395338.57	0.86	*V	0.0066	0.2636
92	15.242		507878.56	1.11	*V	0.0085	0.3386
93	15.341		499494.57	1.09	*V	0.0083	0.3330
94	15.530		322673.30	0.70	*V	0.0054	0.2151
95	15.645		285871.85	0.62	*V	0.0048	0.1906
96	15.761		556967.65	1.21	*V	0.0093	0.3713
97	15.958		588461.44	1.28	*V	0.0098	0.3923
98	16.140		312546.31	0.68	*V	0.0052	0.2084
99	16.265		261894.83	0.57	*V	0.0044	0.1746
100	16.329		257657.94	0.56	*V	0.0043	0.1718
101	16.432		326855.86	0.71	*V	0.0054	0.2179
102	16.538		176240.11	0.38	*V	0.0029	0.1175
103	16.603		107311.80	0.23	*V	0.0018	0.0715
104	16.684		363483.22	0.79	*V	0.0061	0.2423
105	16.802		331643.05	0.72	*V	0.0055	0.2211
106	16.949		492892.97	1.07	*V	0.0082	0.3286
107	17.113		447551.69	0.97	*V	0.0075	0.2984
108	17.244		210884.59	0.46	*V	0.0035	0.1406
109	17.338		179337.11	0.39	*V	0.0030	0.1196
110	17.398		400012.00	0.87	*V	0.0067	0.2667
111	17.565		247251.54	0.54	*V	0.0041	0.1648
112	17.808		957459.04	2.09	*V	0.0160	0.6383
113	17.917		160025.10	0.35	*V	0.0027	0.1067
114	17.976		317417.93	0.69	*V	0.0053	0.2116
115	18.090		249908.68	0.54	*V	0.0042	0.1666
116	18.214		320695.52	0.70	*V	0.0053	0.2138
117	18.275		173851.29	0.38	*V	0.0029	0.1159
118	18.397		353852.85	0.77	*V	0.0059	0.2359
119	18.506		350820.63	0.76	*V	0.0058	0.2339
120	18.682		545059.55	1.19	*V	0.0091	0.3634
121	18.835		374808.75	0.82	*V	0.0062	0.2499
122	18.997		267095.86	0.58	*V	0.0045	0.1781
123	19.177		576167.68	1.26	*V	0.0096	0.3841
124	19.334		407042.74	0.89	*V	0.0068	0.2714
125	19.425		238071.10	0.52	*V	0.0040	0.1587
126	19.491		513259.04	1.12	*V	0.0086	0.3422
127	19.744		251202.24	0.55	*V	0.0042	0.1675
128	19.861		264744.67	0.58	*V	0.0044	0.1765
129	19.917		258436.78	0.56	*V	0.0043	0.1723

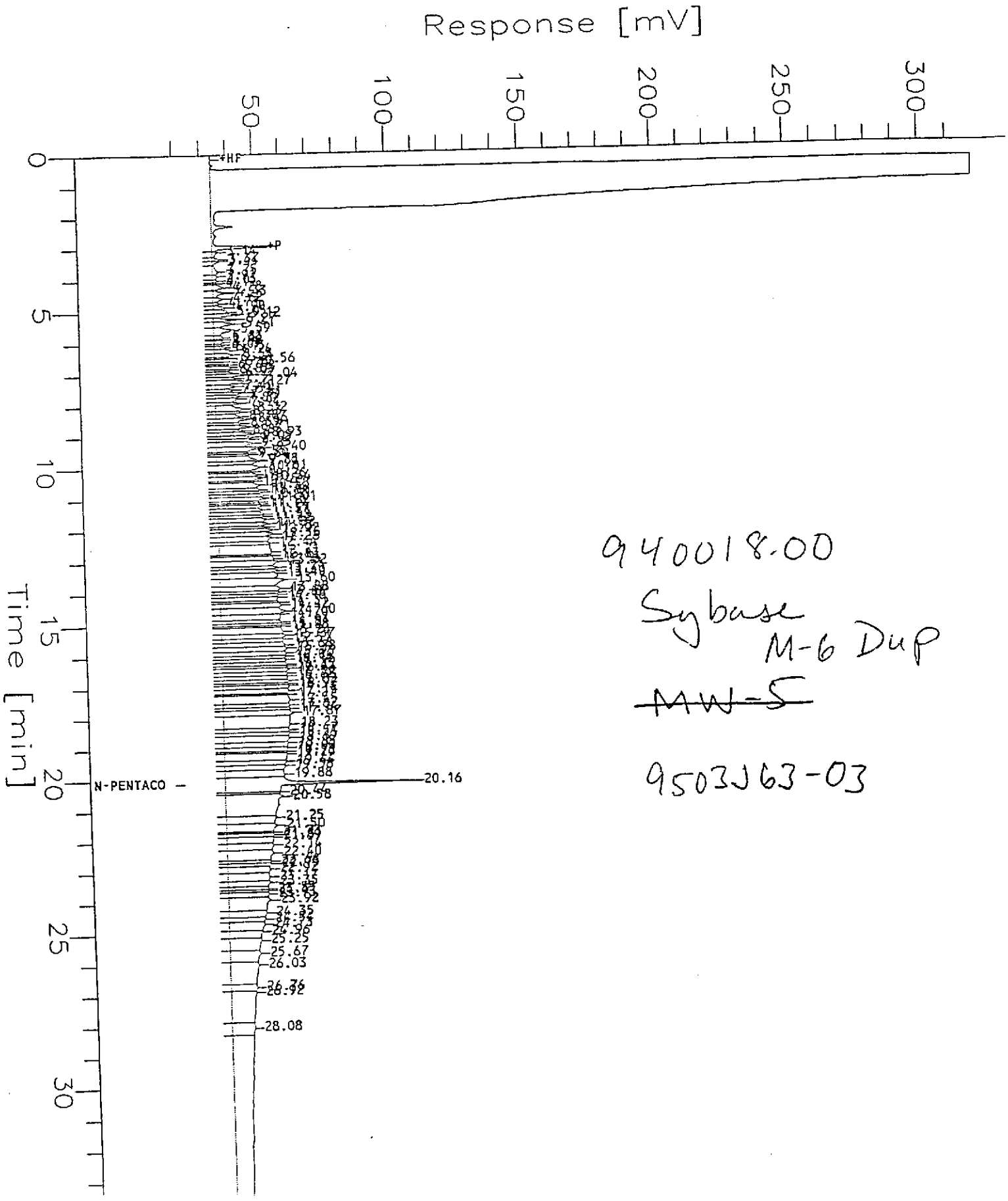
Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
130	20.135	n-Pentacosane	768780.68	1.67	*V	0.7168	28.6737
131	20.323		487111.54	1.06	*V	0.0081	0.3247
132	20.557		478453.09	1.04	*V	0.0080	0.3190
133	20.820		701463.36	1.53	*V	0.0117	0.4676
134	21.023		78067.55	0.17	*V	0.0013	0.0520
135	21.084		207855.57	0.45	*V	0.0035	0.1386
136	21.233		290063.08	0.63	*V	0.0048	0.1934
137	21.323		229770.39	0.50	*V	0.0038	0.1532
138	21.479		426777.65	0.93	*V	0.0071	0.2845
139	21.634		98120.01	0.21	*V	0.0016	0.0654
140	21.690		97596.87	0.21	*V	0.0016	0.0651
141	21.786		616362.26	1.34	*V	0.0103	0.4109
142	22.117		354625.06	0.77	*V	0.0059	0.2364
143	22.272		210408.13	0.46	*V	0.0035	0.1403
144	22.391		185996.86	0.41	*V	0.0031	0.1240
145	22.505		135283.14	0.29	*V	0.0023	0.0902
146	22.564		113905.23	0.25	*V	0.0019	0.0759
147	22.630		113220.26	0.25	*V	0.0019	0.0755
148	22.730		249011.10	0.54	*V	0.0042	0.1660
149	22.903		538346.36	1.17	*V	0.0090	0.3589
150	23.228		180894.54	0.39	*V	0.0030	0.1206
151	23.325		273094.87	0.59	*V	0.0046	0.1821
152	23.504		147100.57	0.32	*V	0.0025	0.0981
153	23.580		129213.48	0.28	*V	0.0022	0.0861
154	23.690		166002.05	0.36	*V	0.0028	0.1107
155	23.839		149325.12	0.33	*V	0.0025	0.0996
156	23.902		449843.20	0.98	*V	0.0075	0.2999
157	24.318		283534.69	0.62	*V	0.0047	0.1890
158	24.522		145037.09	0.32	*V	0.0024	0.0967
159	24.671		272168.98	0.59	*V	0.0045	0.1814
160	24.925		131983.49	0.29	*V	0.0022	0.0880
161	25.053		67043.38	0.15	*V	0.0011	0.0447
162	25.212		305649.73	0.67	*V	0.0051	0.2038
163	25.628		298194.43	0.65	*V	0.0050	0.1988
164	26.004		114230.95	0.25	*V	0.0019	0.0762
165	26.120		159028.82	0.35	*V	0.0027	0.1060
166	26.263		183747.57	0.40	*V	0.0031	0.1225
167	26.502		87174.14	0.19	*V	0.0015	0.0581
168	26.692		114214.50	0.25	*V	0.0019	0.0761
169	26.890		290292.77	0.63	*V	0.0048	0.1935
170	27.488		241689.33	0.53	*V	0.0040	0.1611
171	27.931		147550.12	0.32	*V	0.0025	0.0984
172	28.304		312540.32	0.68	*V	0.0052	0.2084
173	29.148		225358.14	0.49	*V	0.0038	0.1502
174	29.711		55199.81	0.12	*V	0.0009	0.0368
			45905032.97	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A042.TX1

Chromatogram

Sample Name : D9503J63-3 (500:1*10)RE-SHOT
FileName : s:\ghp_05\0409\405A043.raw
Method : ETPH05A.ins
Start Time : 0.00 min
Scale Factor: -1.0
End Time : 33.67 min
Plot Offset: 19 mV

Sample #: M-6 DUP
Date : 4/6/95 22:07
Time of Injection: 4/6/95 21:33
Low Point : 19.27 mV
Plot Scale: 300.0 mV
High Point : 319.27 mV



940018.00
Sybase
M-6 Dup
~~MW-5~~

9503J63-03

Software Version: 3.3 <4B11>
Sample Name : D9503J63-3 (500:1*10)RE-SHOTTime : 4/6/95 22:07
Sample Number: M-6 DUP Study : EKI
Operator : NH

Instrument : GCHP_05 Channel : A A/D mV Range : 1024
AutoSampler : HP7673A
Rack/Vial : 1/43

Interface Serial # : Data Acquisition Time: 4/6/95 21:33
Delay Time : 0.00 min.
End Time : 33.67 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0409\405A043.RAW
Result File : S:\GHP_05\0409\405A043.RST
Instrument File: S:\GHP_05\MET_SEQ\ETPH05A.ins
Process File : S:\GHP_05\MET_SEQ\ETPH05A
Sample File : S:\GHP_05\MET_SEQ\ETPH05A
Sequence File : S:\GHP_05\MET_SEQ\H050405.seq

Inj. Volume : 3 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
	8.250	n-C9 to n-C17 Jet	6497924.94	10.32		0.1083	4.3319
	11.250	n-C9 to n-C24 TPH-D	15210171.40	24.16		14.0571	562.2839
	16.750	n-C9 to n-C40 Total	23168090.20	36.80		0.3861	15.4454
	19.875	n-C16 to n-C36 M/Oil	18088043.78	28.73		0.3015	12.0587
			62964230.31	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A043.TX0

Extractable TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
1	3.138		15387.19	0.07	*B	0.0003	0.0103
2	3.372		14051.29	0.06	*V	0.0002	0.0094
3	3.435		10278.36	0.04	*V	0.0002	0.0069
4	3.751		24346.74	0.11	*V	0.0004	0.0162
5	3.908		12432.52	0.05	*V	0.0002	0.0083
6	4.047		8699.00	0.04	*V	0.0001	0.0058
7	4.124		4402.04	0.02	*V	7.3367e-05	0.0029
8	4.281		29936.62	0.13	*V	0.0005	0.0200
9	4.434		32029.56	0.14	*V	0.0005	0.0214
10	4.618		22690.35	0.10	*V	0.0004	0.0151
11	4.767		14815.84	0.06	*V	0.0002	0.0099
12	4.901		25132.72	0.11	*V	0.0004	0.0168
13	5.045		34580.34	0.15	*V	0.0006	0.0231

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
14	5.115		46528.61	0.20	*V	0.0008	0.0310
15	5.269		35394.12	0.15	*V	0.0006	0.0236
16	5.411		53190.66	0.23	*V	0.0009	0.0355
17	5.592		60286.06	0.26	*V	0.0010	0.0402
18	5.828		22528.76	0.10	*V	0.0004	0.0150
19	5.898		9932.88	0.04	*V	0.0002	0.0066
20	5.981		19825.58	0.09	*V	0.0003	0.0132
21	6.066		11352.31	0.05	*V	0.0002	0.0076
22	6.148		21468.07	0.09	*V	0.0004	0.0143
23	6.244		43616.15	0.19	*V	0.0007	0.0291
24	6.382		41866.27	0.18	*V	0.0007	0.0279
25	6.490		22295.50	0.10	*V	0.0004	0.0149
26	6.556		60071.43	0.26	*V	0.0010	0.0400
27	6.629		30757.04	0.13	*V	0.0005	0.0205
28	6.704		15910.33	0.07	*V	0.0003	0.0106
29	6.784		37787.78	0.16	*V	0.0006	0.0252
30	6.867		21962.64	0.09	*V	0.0004	0.0146
31	6.974		31985.56	0.14	*V	0.0005	0.0213
32	7.037		68365.00	0.30	*V	0.0011	0.0456
33	7.150		39792.59	0.17	*V	0.0007	0.0265
34	7.269		86546.68	0.37	*V	0.0014	0.0577
35	7.399		47825.49	0.21	*V	0.0008	0.0319
36	7.520		33501.54	0.14	*V	0.0006	0.0223
37	7.610		55286.28	0.24	*V	0.0009	0.0369
38	7.726		47401.83	0.20	*V	0.0008	0.0316
39	7.799		59579.02	0.26	*V	0.0010	0.0397
40	7.935		44047.98	0.19	*V	0.0007	0.0294
41	8.119		106278.02	0.46	*V	0.0018	0.0709
42	8.225		48712.61	0.21	*V	0.0008	0.0325
43	8.378		66233.04	0.29	*V	0.0011	0.0442
44	8.460		80561.58	0.35	*V	0.0013	0.0537
45	8.590		43057.43	0.19	*V	0.0007	0.0287
46	8.712		94080.04	0.41	*V	0.0016	0.0627
47	8.834		52197.05	0.23	*V	0.0009	0.0348
48	8.931		91889.66	0.40	*V	0.0015	0.0613
49	9.049		69471.85	0.30	*V	0.0012	0.0463
50	9.115		67940.95	0.29	*V	0.0011	0.0453
51	9.247		126732.08	0.55	*V	0.0021	0.0845
52	9.401		135313.37	0.58	*V	0.0023	0.0902
53	9.549		46386.16	0.20	*V	0.0008	0.0309
54	9.600		47934.40	0.21	*V	0.0008	0.0320
55	9.776		132748.43	0.57	*V	0.0022	0.0885
56	9.826		104382.50	0.45	*V	0.0017	0.0696
57	10.009		174068.23	0.75	*V	0.0029	0.1160
58	10.151		41720.12	0.18	*V	0.0007	0.0278
59	10.256		104681.18	0.45	*V	0.0017	0.0698
60	10.343		135900.53	0.59	*V	0.0023	0.0906
61	10.466		43868.15	0.19	*V	0.0007	0.0292
62	10.583		156152.58	0.67	*V	0.0026	0.1041
63	10.736		87007.20	0.38	*V	0.0015	0.0580
64	10.807		89541.40	0.39	*V	0.0015	0.0597
65	10.908		107039.90	0.46	*V	0.0018	0.0714
66	11.006		121333.37	0.52	*V	0.0020	0.0809
67	11.123		62350.31	0.27	*V	0.0010	0.0416
68	11.186		50774.43	0.22	*V	0.0008	0.0338
69	11.241		102204.75	0.44	*V	0.0017	0.0681
70	11.366		103145.69	0.45	*V	0.0017	0.0688
71	11.507		121037.11	0.52	*V	0.0020	0.0807

Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
72	11.581		94624.85	0.41	*V	0.0016	0.0631
73	11.677		138783.53	0.60	*V	0.0023	0.0925
74	11.816		127402.14	0.55	*V	0.0021	0.0849
75	11.925		84742.86	0.37	*V	0.0014	0.0565
76	12.018		139353.09	0.60	*V	0.0023	0.0929
77	12.152		155687.46	0.67	*V	0.0026	0.1038
78	12.263		185878.77	0.80	*V	0.0031	0.1239
79	12.444		122255.30	0.53	*V	0.0020	0.0815
80	12.710		364902.91	1.58	*V	0.0061	0.2433
81	12.826		63615.56	0.27	*V	0.0011	0.0424
82	12.942		165279.83	0.71	*V	0.0028	0.1102
83	13.020		222176.84	0.96	*V	0.0037	0.1481
84	13.207		136835.34	0.59	*V	0.0023	0.0912
85	13.297		136436.29	0.59	*V	0.0023	0.0910
86	13.403		227317.30	0.98	*V	0.0038	0.1515
87	13.596		344623.06	1.49	*V	0.0057	0.2297
88	13.880		215493.37	0.93	*V	0.0036	0.1437
89	13.986		125099.53	0.54	*V	0.0021	0.0834
90	14.063		123202.87	0.53	*V	0.0021	0.0821
91	14.161		157391.04	0.68	*V	0.0026	0.1049
92	14.307		107857.51	0.47	*V	0.0018	0.0719
93	14.415		201672.79	0.87	*V	0.0034	0.1344
94	14.599		281929.44	1.22	*V	0.0047	0.1880
95	14.695		236785.57	1.02	*V	0.0039	0.1579
96	14.944		163759.38	0.71	*V	0.0027	0.1092
97	15.013		111433.01	0.48	*V	0.0019	0.0743
98	15.079		73635.79	0.32	*V	0.0012	0.0491
99	15.238		280670.31	1.21	*V	0.0047	0.1871
100	15.365		230992.53	1.00	*V	0.0038	0.1540
101	15.508		169368.91	0.73	*V	0.0028	0.1129
102	15.676		191186.80	0.83	*V	0.0032	0.1275
103	15.780		216754.03	0.94	*V	0.0036	0.1445
104	15.932		215286.38	0.93	*V	0.0036	0.1435
105	16.039		135583.22	0.59	*V	0.0023	0.0904
106	16.144		155511.85	0.67	*V	0.0026	0.1037
107	16.292		157823.38	0.68	*V	0.0026	0.1052
108	16.348		118763.08	0.51	*V	0.0020	0.0792
109	16.439		180133.42	0.78	*V	0.0030	0.1201
110	16.587		198010.43	0.85	*V	0.0033	0.1320
111	16.680		179155.25	0.77	*V	0.0030	0.1194
112	16.820		161359.86	0.70	*V	0.0027	0.1076
113	16.922		100413.30	0.43	*V	0.0017	0.0669
114	16.973		181808.56	0.78	*V	0.0030	0.1212
115	17.142		240421.91	1.04	*V	0.0040	0.1603
116	17.268		79182.82	0.34	*V	0.0013	0.0528
117	17.454		404023.15	1.74	*V	0.0067	0.2693
118	17.622		182379.27	0.79	*V	0.0030	0.1216
119	17.740		163071.47	0.70	*V	0.0027	0.1087
120	17.871		269782.21	1.16	*V	0.0045	0.1799
121	18.230		607219.32	2.62	*V	0.0101	0.4048
122	18.415		200121.86	0.86	*V	0.0033	0.1334
123	18.511		179822.88	0.78	*V	0.0030	0.1199
124	18.691		296598.11	1.28	*V	0.0049	0.1977
125	18.851		253863.72	1.10	*V	0.0042	0.1692
126	18.998		193014.98	0.83	*V	0.0032	0.1287
127	19.128		76773.10	0.33	*V	0.0013	0.0512
128	19.197		343482.79	1.48	*V	0.0057	0.2290
129	19.438		206784.17	0.89	*V	0.0034	0.1379

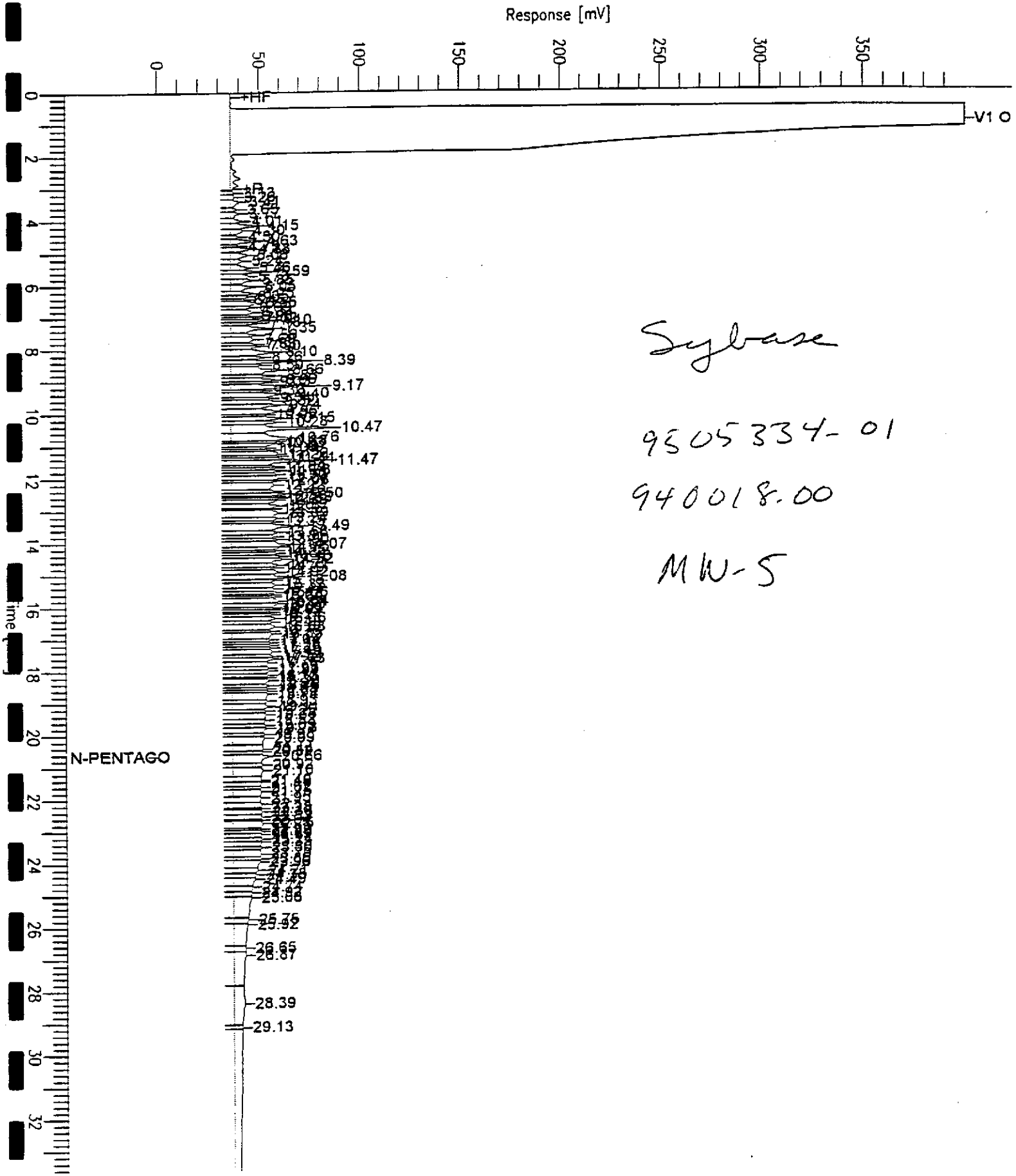
Peak #	Time [min]	Component Name	Area [uV*sec]	Area [%]	BL	Soil [mg/kg]	Water [µg/L]
130	19.583		220803.70	0.95	*V	0.0037	0.1472
131	19.879		327079.17	1.41	*V	0.0055	0.2181
132	20.158	n-Pentacosane	779776.16	3.37	*V	0.7271	29.0838
133	20.436		100061.95	0.43	*V	0.0017	0.0667
134	20.583		837991.47	3.62	*V	0.0140	0.5587
135	21.247		272704.24	1.18	*V	0.0045	0.1818
136	21.502		299216.22	1.29	*V	0.0050	0.1995
137	21.730		57940.87	0.25	*V	0.0010	0.0386
138	21.811		130841.05	0.56	*V	0.0022	0.0872
139	21.890		214364.45	0.93	*V	0.0036	0.1429
140	22.136		241249.09	1.04	*V	0.0040	0.1608
141	22.404		330327.93	1.43	*V	0.0055	0.2202
142	22.655		93900.60	0.41	*V	0.0016	0.0626
143	22.750		120162.49	0.52	*V	0.0020	0.0801
144	22.922		193422.58	0.83	*V	0.0032	0.1289
145	23.171		242337.19	1.05	*V	0.0040	0.1616
146	23.349		177808.25	0.77	*V	0.0030	0.1185
147	23.547		99173.30	0.43	*V	0.0017	0.0661
148	23.609		74819.30	0.32	*V	0.0012	0.0499
149	23.730		148750.07	0.64	*V	0.0025	0.0992
150	23.924		399076.80	1.72	*V	0.0067	0.2661
151	24.347		194392.84	0.84	*V	0.0032	0.1296
152	24.544		121915.17	0.53	*V	0.0020	0.0813
153	24.725		222570.15	0.96	*V	0.0037	0.1484
154	24.956		187104.36	0.81	*V	0.0031	0.1247
155	25.248		280494.69	1.21	*V	0.0047	0.1870
156	25.665		241258.40	1.04	*V	0.0040	0.1608
157	26.033		447007.51	1.93	*V	0.0075	0.2980
158	26.764		134641.40	0.58	*V	0.0022	0.0898
159	26.924		559907.78	2.42	*V	0.0093	0.3733
160	28.077		206819.62	0.89	*V	0.0034	0.1379
			23168090.20	100.00			

Report Stored in ASCII File: S:\GHP_05\0409\405A043.TX1

Chromatogram

Sample Name : D9505334-1 (500:1*200) RESHOT
FileName : S:\GHP_04\0514\509A013.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: MW-5 Page 1 of 1
Date : 5/9/95 16:50
Time of Injection: 5/9/95 16:16
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Sybase

9505334-01

940018.00

MW-5

Software Version: 4.0<3H19>
Sample Name : D9505334-1 (500:1*200) RESHOT Time : 5/9/95 16:50
Sample Number: MW-5 Study : EKI
Operator : TO

Instrument : GCHP_04 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/63

Interface Serial # : NONE Data Acquisition Time: 5/9/95 16:16
Delay Time : 0.00 min.
End Time : 33.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0514\509A013.RAW
Result File : S:\GHP_04\0514\509A013.RST
Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0514\509A013.RST
Proc Method : S:\GHP_04\MET_SEQ\TPH04A
Calib Method : S:\GHP_04\MET_SEQ\TPH04A
Sequence File : S:\GHP_04\MET_SEQ\H040509.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_04A

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
	8.250	n-C9 to n-C17 Jet	9082385		14.2373	569.4933
	11.500	n-C9 to n-C24 TPH-D	16499827		16.0577	642.3063
	16.750	n-C9 to n-C40 Total	21948163		24.3868	975.4739
	19.875	n-C16 to n-C36 M/Oil	14157005		15.7300	629.2002
			61687380			

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
1	3.127		10521	*BV	0.0117	0.4676
2	3.264		13766	*VV	0.0153	0.6118
3	3.410		38278	*VV	0.0425	1.7012
4	3.645		16551	*VV	0.0184	0.7356

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
5	3.772		30804	*VV	0.0342	1.3690
6	4.009		33619	*VV	0.0374	1.4942
7	4.150		80163	*VV	0.0891	3.5628
8	4.296		51162	*VV	0.0568	2.2739
9	4.495		22769	*VV	0.0253	1.0119
10	4.625		76758	*VV	0.0853	3.4114
11	4.786		17661	*VV	0.0196	0.7850
12	4.883		62118	*VV	0.0690	2.7608
13	5.061		68730	*VV	0.0764	3.0547
14	5.242		42415	*VV	0.0471	1.8851
15	5.462		70567	*VV	0.0784	3.1363
16	5.586		82657	*VV	0.0918	3.6736
17	5.729		75346	*VV	0.0837	3.3487
18	5.849		73802	*VV	0.0820	3.2801
19	6.050		96439	*VV	0.1072	4.2862
20	6.253		66553	*VV	0.0739	2.9579
21	6.354		48544	*VV	0.0539	2.1575
22	6.453		26100	*VV	0.0290	1.1600
23	6.549		101964	*VV	0.1133	4.5317
24	6.692		54946	*VV	0.0611	2.4420
25	6.842		86044	*VV	0.0956	3.8242
26	6.960		44304	*VV	0.0492	1.9691
27	7.024		45434	*VV	0.0505	2.0193
28	7.098		80735	*VV	0.0897	3.5882
29	7.181		59541	*VV	0.0662	2.6463
30	7.348		170448	*VV	0.1894	7.5754
31	7.557		72863	*VV	0.0810	3.2384
32	7.694		105932	*VV	0.1177	4.7081
33	7.832		61494	*VV	0.0683	2.7331
34	7.904		82871	*VV	0.0921	3.6831
35	8.095		197412	*VV	0.2193	8.7739
36	8.258		97790	*VV	0.1087	4.3462
37	8.389		182443	*VV	0.2027	8.1086
38	8.497		67066	*VV	0.0745	2.9807
39	8.657		240936	*VV	0.2677	10.7083
40	8.827		112457	*VV	0.1250	4.9981
41	8.958		131677	*VV	0.1463	5.8523
42	9.027		78734	*VV	0.0875	3.4993
43	9.169		263588	*VV	0.2929	11.7150
44	9.295		73630	*VV	0.0818	3.2725
45	9.401		200915	*VV	0.2232	8.9296
46	9.535		74884	*VV	0.0832	3.3282
47	9.615		160563	*VV	0.1784	7.1361
48	9.744		166491	*VV	0.1850	7.3996
49	9.948		203899	*VV	0.2266	9.0622
50	10.046		68572	*VV	0.0762	3.0476
51	10.154		170073	*VV	0.1890	7.5588
52	10.277		143758	*VV	0.1597	6.3893
53	10.473		366836	*VV	0.4076	16.3038
54	10.764		336637	*VV	0.3740	14.9616
55	10.876		88175	*VV	0.0980	3.9189

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
56	10.931		138882	*VV	0.1543	6.1725
57	11.062		69432	*VV	0.0771	3.0859
[illegible]8	11.140		75100	*VV	0.0834	3.3378
59	11.260		178425	*VV	0.1982	7.9300
60	11.335		92499	*VV	0.1028	4.1111
[illegible]1	11.406		101145	*VV	0.1124	4.4953
62	11.471		273940	*VV	0.3044	12.1751
63	11.637		84805	*VV	0.0942	3.7691
[illegible]4	11.688		100573	*VV	0.1117	4.4699
65	11.780		124270	*VV	0.1381	5.5231
66	11.899		122023	*VV	0.1356	5.4232
[illegible]7	12.011		181951	*VV	0.2022	8.0867
68	12.081		104114	*VV	0.1157	4.6273
69	12.217		258137	*VV	0.2868	11.4728
[illegible]0	12.423		133430	*VV	0.1483	5.9302
71	12.496		142340	*VV	0.1582	6.3262
72	12.579		71887	*VV	0.0799	3.1950
[illegible]3	12.626		92954	*VV	0.1033	4.1313
74	12.692		148712	*VV	0.1652	6.6094
75	12.867		183655	*VV	0.2041	8.1625
[illegible]6	12.958		64543	*VV	0.0717	2.8686
77	13.091		277304	*VV	0.3081	12.3246
[illegible]8	13.243		138864	*VV	0.1543	6.1717
[illegible]9	13.349		97570	*VV	0.1084	4.3364
80	13.491		327400	*VV	0.3638	14.5511
[illegible]1	13.681		170213	*VV	0.1891	7.5650
[illegible]2	13.811		130115	*VV	0.1446	5.7829
83	13.904		122111	*VV	0.1357	5.4271
[illegible]4	14.069		255294	*VV	0.2837	11.3464
[illegible]5	14.145		124952	*VV	0.1388	5.5534
86	14.250		86281	*VV	0.0959	3.8347
[illegible]7	14.336		122415	*VV	0.1360	5.4407
[illegible]8	14.427		130180	*VV	0.1446	5.7858
89	14.521		215021	*VV	0.2389	9.5565
[illegible]0	14.709		171567	*VV	0.1906	7.6252
[illegible]1	14.788		99947	*VV	0.1111	4.4421
92	14.924		192868	*VV	0.2143	8.5719
[illegible]3	15.079		213779	*VV	0.2375	9.5013
[illegible]4	15.180		128572	*VV	0.1429	5.7143
95	15.328		197738	*VV	0.2197	8.7884
[illegible]6	15.439		130660	*VV	0.1452	5.8071
[illegible]7	15.555		119917	*VV	0.1332	5.3297
98	15.625		63507	*VV	0.0706	2.8225
[illegible]9	15.690		79967	*VV	0.0889	3.5541
100	15.838		212160	*VV	0.2357	9.4293
101	15.906		152891	*VV	0.1699	6.7951
[illegible]2	16.034		80468	*VV	0.0894	3.5763
103	16.091		92538	*VV	0.1028	4.1128
104	16.174		60924	*VV	0.0677	2.7077
[illegible]5	16.243		108551	*VV	0.1206	4.8245
106	16.361		162457	*VV	0.1805	7.2203

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
[illegible]	16.485		123126	*VV	0.1368	5.4723
108	16.634		221011	*VV	0.2456	9.8227
[illegible]	16.764		89721	*VV	0.0997	3.9876
[illegible]	16.848		212569	*VV	0.2362	9.4475
111	17.036		103044	*VV	0.1145	4.5797
[illegible]	17.124		89006	*VV	0.0989	3.9558
[illegible]	17.201		89158	*VV	0.0991	3.9626
114	17.280		89571	*VV	0.0995	3.9809
[illegible]	17.400		185405	*VV	0.2060	8.2402
[illegible]	17.543		109058	*VV	0.1212	4.8470
117	17.625		153983	*VV	0.1711	6.8437
[illegible]	17.745		139240	*VV	0.1547	6.1884
[illegible]	17.918		112676	*VV	0.1252	5.0078
120	17.985		126076	*VV	0.1401	5.6034
[illegible]	18.133		110597	*VV	0.1229	4.9154
122	18.197		55162	*VV	0.0613	2.4516
123	18.295		179657	*VV	0.1996	7.9848
[illegible]	18.456		110516	*VV	0.1228	4.9118
125	18.546		81943	*VV	0.0910	3.6419
126	18.618		69048	*VV	0.0767	3.0688
[illegible]	18.719		231484	*VV	0.2572	10.2882
128	18.929		121155	*VV	0.1346	5.3846
129	19.105		187226	*VV	0.2080	8.3212
[illegible]	19.245		102678	*VV	0.1141	4.5634
131	19.353		194782	*VV	0.2164	8.6570
132	19.533		126402	*VV	0.1404	5.6179
[illegible]	19.691		115941	*VV	0.1288	5.1529
134	19.779		162983	*VV	0.1811	7.2437
135	19.976		99130	*VV	0.1101	4.4058
[illegible]	20.088		241654	*VV	0.2685	10.7402
137	20.437		167144	*VV	0.1857	7.4286
138	20.518		92540	*VV	0.1028	4.1129
[illegible]	20.656	n-Pentacosane	249064	*VV	0.2353	9.4131
140	20.920		115676	*VV	0.1285	5.1412
141	21.095		241248	*VV	0.2681	10.7221
[illegible]	21.397		134020	*VV	0.1489	5.9564
143	21.451		121577	*VV	0.1351	5.4034
144	21.623		76864	*VV	0.0854	3.4162
[illegible]	21.750		187013	*VV	0.2078	8.3117
146	21.945		152429	*VV	0.1694	6.7746
147	22.140		144623	*VV	0.1607	6.4277
[illegible]	22.279		33154	*VV	0.0368	1.4735
149	22.383		135293	*VV	0.1503	6.0130
150	22.533		122688	*VV	0.1363	5.4528
[illegible]	22.637		43988	*VV	0.0489	1.9550
152	22.752		193186	*VV	0.2147	8.5861
153	22.919		54487	*VV	0.0605	2.4216
[illegible]	22.990		88034	*VV	0.0978	3.9126
155	23.094		110017	*VV	0.1222	4.8897
[illegible]	23.235		90033	*VV	0.1000	4.0015
[illegible]	23.329		130874	*VV	0.1454	5.8166

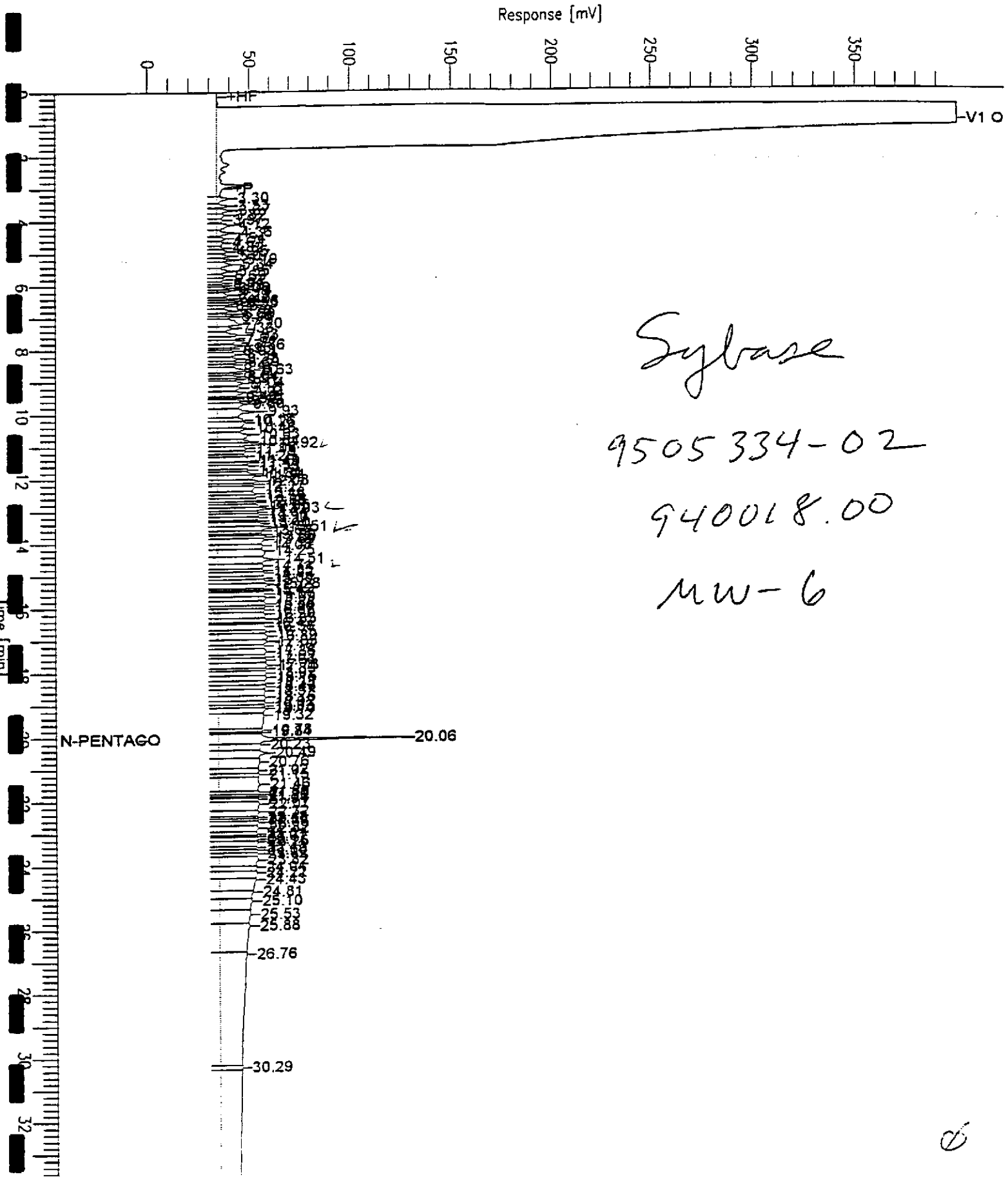
Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
[redacted]						
107	16.485		123126	*VV	0.1368	5.4723
108	16.634		221011	*VV	0.2456	9.8227
[redacted]	16.764		89721	*VV	0.0997	3.9876
110	16.848		212569	*VV	0.2362	9.4475
111	17.036		103044	*VV	0.1145	4.5797
[redacted]	17.124		89006	*VV	0.0989	3.9558
113	17.201		89158	*VV	0.0991	3.9626
114	17.280		89571	*VV	0.0995	3.9809
[redacted]	17.400		185405	*VV	0.2060	8.2402
116	17.543		109058	*VV	0.1212	4.8470
117	17.625		153983	*VV	0.1711	6.8437
[redacted]	17.745		139240	*VV	0.1547	6.1884
119	17.918		112676	*VV	0.1252	5.0078
120	17.985		126076	*VV	0.1401	5.6034
[redacted]	18.133		110597	*VV	0.1229	4.9154
122	18.197		55162	*VV	0.0613	2.4516
123	18.295		179657	*VV	0.1996	7.9848
[redacted]	18.456		110516	*VV	0.1228	4.9118
125	18.546		81943	*VV	0.0910	3.6419
126	18.618		69048	*VV	0.0767	3.0688
[redacted]	18.719		231484	*VV	0.2572	10.2882
128	18.929		121155	*VV	0.1346	5.3846
129	19.105		187226	*VV	0.2080	8.3212
[redacted]	19.245		102678	*VV	0.1141	4.5634
131	19.353		194782	*VV	0.2164	8.6570
132	19.533		126402	*VV	0.1404	5.6179
[redacted]	19.691		115941	*VV	0.1288	5.1529
134	19.779		162983	*VV	0.1811	7.2437
135	19.976		99130	*VV	0.1101	4.4058
[redacted]	20.088		241654	*VV	0.2685	10.7402
137	20.437		167144	*VV	0.1857	7.4286
138	20.518		92540	*VV	0.1028	4.1129
[redacted]	20.656	n-Pentacosane	249064	*VV	0.2353	9.4131
140	20.920		115676	*VV	0.1285	5.1412
141	21.095		241248	*VV	0.2681	10.7221
142	21.397		134020	*VV	0.1489	5.9564
143	21.451		121577	*VV	0.1351	5.4034
144	21.623		76864	*VV	0.0854	3.4162
145	21.750		187013	*VV	0.2078	8.3117
146	21.945		152429	*VV	0.1694	6.7746
147	22.140		144623	*VV	0.1607	6.4277
148	22.279		33154	*VV	0.0368	1.4735
149	22.383		135293	*VV	0.1503	6.0130
150	22.533		122688	*VV	0.1363	5.4528
151	22.637		43988	*VV	0.0489	1.9550
152	22.752		193186	*VV	0.2147	8.5861
153	22.919		54487	*VV	0.0605	2.4216
154	22.990		88034	*VV	0.0978	3.9126
155	23.094		110017	*VV	0.1222	4.8897
156	23.235		90033	*VV	0.1000	4.0015
157	23.329		130874	*VV	0.1454	5.8166

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
158	23.497		88122	*VV	0.0979	3.9165
159	23.700		183022	*VV	0.2034	8.1343
160	23.858		85654	*VV	0.0952	3.8069
161	23.955		171902	*VV	0.1910	7.6401
162	24.210		122077	*VV	0.1356	5.4256
163	24.349		96751	*VV	0.1075	4.3001
164	24.490		153276	*VV	0.1703	6.8123
165	24.737		103149	*VV	0.1146	4.5844
166	24.922		77877	*VV	0.0865	3.4612
167	25.079		316742	*VV	0.3519	14.0774
168	25.754		79278	*VV	0.0881	3.5235
169	25.919		261000	*VV	0.2900	11.6000
170	26.650		65054	*VV	0.0723	2.8913
171	26.874		331394	*VV	0.3682	14.7286
172	28.392		353839	*VV	0.3932	15.7262
173	29.127		33593	*VB	0.0373	1.4930
			21948163			

Chromatogram

Sample Name : D9505334-2 (500:1*10)
FileName : S:\GHP_05\0514\508A023.raw
Method : TPH05A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: MW-6 Page 1 of 1
Date : 5/9/95 00:11
Time of Injection: 5/8/95 23:37
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Sybase

9505334-02

940018.00

MW-6

Software Version: 4.0<3H19>
Sample Name : D9505334-2 (500:1*10) Time : 5/9/95 00:11
Sample Number: MW-6 Study : EKI
Operator : TO

Instrument : GCHP_05 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/73

Interface Serial # : NONE Data Acquisition Time: 5/8/95 23:37
Delay Time : 0.00 min.
End Time : 33.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0514\508A023.RAW
Result File : S:\GHP_05\0514\508A023.RST
Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0514\508A023.RST
Proc Method : S:\GHP_05\MET_SEQ\TPH05A
Calib Method : S:\GHP_05\MET_SEQ\TPH05A
Sequence File : S:\GHP_05\MET_SEQ\H050508.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
	8.250	n-C9 to n-C17 Jet	5928286		5.7939	231.7551
	11.250	n-C9 to n-C24 TPH-D	14570526		14.5935	583.7409
	16.750	n-C9 to n-C40 Total	24973259		27.7481	1109.9226
	20.000	n-C16 to n-C36 M/Oil	20123756		22.3597	894.3892
			65595827			

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
1	3.301		34808	*BV	0.0387	1.5470
2	3.526		27788	*VV	0.0309	1.2350
3	3.672		39975	*VV	0.0444	1.7767
4	3.815		27942	*VV	0.0310	1.2419

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
5	3.972		19147	*VV	0.0213	0.8510
6	4.123		44365	*VV	0.0493	1.9718
7	4.359		43070	*VV	0.0479	1.9142
8	4.542		23728	*VV	0.0264	1.0546
9	4.667		19757	*VV	0.0220	0.8781
10	4.821		14965	*VV	0.0166	0.6651
11	4.946		30880	*VV	0.0343	1.3724
12	5.074		29143	*VV	0.0324	1.2953
13	5.189		37618	*VV	0.0418	1.6719
14	5.335		51852	*VV	0.0576	2.3045
15	5.549		38357	*VV	0.0426	1.7047
16	5.694		22105	*VV	0.0246	0.9825
17	5.811		19488	*VV	0.0217	0.8661
18	5.913		11907	*VV	0.0132	0.5292
19	5.989		10714	*VV	0.0119	0.4762
20	6.076		26131	*VV	0.0290	1.1614
21	6.141		25801	*VV	0.0287	1.1467
22	6.289		39699	*VV	0.0441	1.7644
23	6.404		23081	*VV	0.0256	1.0258
24	6.475		39673	*VV	0.0441	1.7633
25	6.548		41100	*VV	0.0457	1.8267
26	6.631		24272	*VV	0.0270	1.0788
27	6.783		39216	*VV	0.0436	1.7430
28	6.893		35890	*VV	0.0399	1.5951
29	6.961		28947	*VV	0.0322	1.2865
30	7.195		120979	*VV	0.1344	5.3768
31	7.326		55226	*VV	0.0614	2.4545
32	7.530		69045	*VV	0.0767	3.0687
33	7.637		57447	*VV	0.0638	2.5532
34	7.708		58852	*VV	0.0654	2.6156
35	7.858		67041	*VV	0.0745	2.9796
36	7.947		25466	*VV	0.0283	1.1318
37	8.029		29891	*VV	0.0332	1.3285
38	8.139		71488	*VV	0.0794	3.1773
39	8.276		68511	*VV	0.0761	3.0449
40	8.385		49375	*VV	0.0549	2.1945
41	8.466		43843	*VV	0.0487	1.9486
42	8.634		114839	*VV	0.1276	5.1040
43	8.738		36958	*VV	0.0411	1.6426
44	8.840		58747	*VV	0.0653	2.6110
45	8.905		37400	*VV	0.0416	1.6622
46	9.040		108919	*VV	0.1210	4.8408
47	9.181		96474	*VV	0.1072	4.2877
48	9.336		103950	*VV	0.1155	4.6200
49	9.463		29480	*VV	0.0328	1.3102
50	9.515		21195	*VV	0.0236	0.9420
51	9.590		59550	*VV	0.0662	2.6467
52	9.685		127427	*VV	0.1416	5.6634
53	9.929		211390	*VV	0.2349	9.3951
54	10.183		86878	*VV	0.0965	3.8612
55	10.259		152167	*VV	0.1691	6.7630

Result File : 308A023.RST Printed on 3/3/98

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
56	10.456		87984	*VV	0.0978	3.9104
57	10.629		184604	*VV	0.2051	8.2046
58	10.842		92824	*VV	0.1031	4.1255
59	10.920		129055	*VV	0.1434	5.7358
60	11.059		106864	*VV	0.1187	4.7495
61	11.153		85977	*VV	0.0955	3.8212
62	11.290		63554	*VV	0.0706	2.8246
63	11.432		132797	*VV	0.1476	5.9021
64	11.486		85126	*VV	0.0946	3.7834
65	11.593		120684	*VV	0.1341	5.3637
66	11.719		70988	*VV	0.0789	3.1550
67	11.844		102249	*VV	0.1136	4.5444
68	11.906		155205	*VV	0.1725	6.8980
69	12.076		134422	*VV	0.1494	5.9743
70	12.173		84741	*VV	0.0942	3.7663
71	12.269		168751	*VV	0.1875	7.5000
72	12.461		114461	*VV	0.1272	5.0872
73	12.554		119409	*VV	0.1327	5.3071
74	12.664		121922	*VV	0.1355	5.4188
75	12.726		91959	*VV	0.1022	4.0871
76	12.852		129208	*VV	0.1436	5.7426
77	12.931		144076	*VV	0.1601	6.4034
78	13.040		94079	*VV	0.1045	4.1813
79	13.112		129637	*VV	0.1440	5.7616
80	13.204		111041	*VV	0.1234	4.9352
81	13.309		65585	*VV	0.0729	2.9149
82	13.399		167122	*VV	0.1857	7.4276
83	13.506		216760	*VV	0.2408	9.6338
84	13.623		121249	*VV	0.1347	5.3889
85	13.734		70734	*VV	0.0786	3.1437
86	13.796		129475	*VV	0.1439	5.7545
87	13.894		248591	*VV	0.2762	11.0485
88	14.075		191861	*VV	0.2132	8.5271
89	14.252		309942	*VV	0.3444	13.7752
90	14.508		322105	*VV	0.3579	14.3158
91	14.707		213606	*VV	0.2373	9.4936
92	14.853		125583	*VV	0.1395	5.5815
93	14.923		181472	*VV	0.2016	8.0654
94	15.083		125967	*VV	0.1400	5.5985
95	15.165		166518	*VV	0.1850	7.4008
96	15.279		231333	*VV	0.2570	10.2815
97	15.420		72399	*VV	0.0804	3.2177
98	15.466		72488	*VV	0.0805	3.2217
99	15.572		199632	*VV	0.2218	8.8725
100	15.686		186395	*VV	0.2071	8.2842
101	15.878		204173	*VV	0.2269	9.0744
102	15.955		111053	*VV	0.1234	4.9357
103	16.065		164276	*VV	0.1825	7.3011
104	16.196		257857	*VV	0.2865	11.4603
105	16.348		187057	*VV	0.2078	8.3136
106	16.466		72812	*VV	0.0809	3.2361

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
107	16.584		258508	*VV	0.2872	11.4893
108	16.745		150902	*VV	0.1677	6.7068
109	16.887		268233	*VV	0.2980	11.9215
110	17.052		224474	*VV	0.2494	9.9766
111	17.175		163408	*VV	0.1816	7.2626
112	17.359		261781	*VV	0.2909	11.6347
113	17.517		148967	*VV	0.1655	6.6207
114	17.626		207286	*VV	0.2303	9.2127
115	17.779		230165	*VV	0.2557	10.2296
116	17.891		113004	*VV	0.1256	5.0224
117	18.017		206665	*VV	0.2296	9.1851
118	18.147		226357	*VV	0.2515	10.0603
119	18.333		185878	*VV	0.2065	8.2612
120	18.432		187222	*VV	0.2080	8.3210
121	18.573		256840	*VV	0.2854	11.4151
122	18.760		221803	*VV	0.2464	9.8579
123	18.920		164538	*VV	0.1828	7.3128
124	19.034		127889	*VV	0.1421	5.6840
125	19.104		236858	*VV	0.2632	10.5270
126	19.324		618126	*VV	0.6868	27.4723
127	19.775		137919	*VV	0.1532	6.1298
128	19.838		68372	*VV	0.0760	3.0387
129	20.063	n-Pentacosane	643284	*VV	0.5989	23.9568
130	20.231		248427	*VV	0.2760	11.0412
131	20.487		303601	*VV	0.3373	13.4934
132	20.758		384097	*VV	0.4268	17.0710
133	21.024		187985	*VV	0.2089	8.3549
134	21.153		142441	*VV	0.1583	6.3307
135	21.464		500927	*VV	0.5566	22.2634
136	21.692		127031	*VV	0.1411	5.6458
137	21.794		78825	*VV	0.0876	3.5034
138	21.850		62250	*VV	0.0692	2.7667
139	21.914		123840	*VV	0.1376	5.5040
140	22.073		328674	*VV	0.3652	14.6077
141	22.316		200484	*VV	0.2228	8.9104
142	22.480		76593	*VV	0.0851	3.4042
143	22.552		92949	*VV	0.1033	4.1311
144	22.650		169043	*VV	0.1878	7.5130
145	22.823		212644	*VV	0.2363	9.4509
146	23.006		133453	*VV	0.1483	5.9313
147	23.071		59636	*VV	0.0663	2.6505
148	23.170		121485	*VV	0.1350	5.3993
149	23.250		196113	*VV	0.2179	8.7161
150	23.420		102875	*VV	0.1143	4.5722
151	23.503		119036	*VV	0.1323	5.2905
152	23.618		136101	*VV	0.1512	6.0489
153	23.821		345372	*VV	0.3837	15.3499
154	24.039		161251	*VV	0.1792	7.1667
155	24.224		249385	*VV	0.2771	11.0838
156	24.433		402862	*VV	0.4476	17.9050
157	24.811		245516	*VV	0.2728	10.9118

Result File : [illegible]

Peak #	Time [min]	Component Name	Area [µV·s]	BL	Soil [mg/kg]	Water [µg/L]
158	25.100		324236	*VV	0.3603	14.4105
159	25.526		381178	*VV	0.4235	16.9412
160	25.875		744432	*VV	0.8271	33.0859
161	26.757		2495156	*VV	2.7724	110.8958
162	30.292		95257	*VB	0.1058	4.2336
			24973259			

9505334

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory: Sequoia Analytical

Project Number: 940018.00

Date Sampled: 4 May 1995

Project Name: Sybase

Sampled By: Gail Clark

Source of Samples: monitoring wells

Report Results To: Michelle King

Location: pkg lot behind Ryerson, Emeryville, CA

Phone Number: 415) 578-1172

Lab Sample I D	Field Sample I D	Sample Type	Number and Type of Containers	Time Collected	Analyses Requested (EPA Method Number)	Results Required By (Date/Time)
	MW-5	water	2- amber liters	2:20	TEPH - 8015 mod.	5-day
	MW-6	water	2- amber liters	5:00	TEPH - 8015 mod.	5-day

Special Instructions:

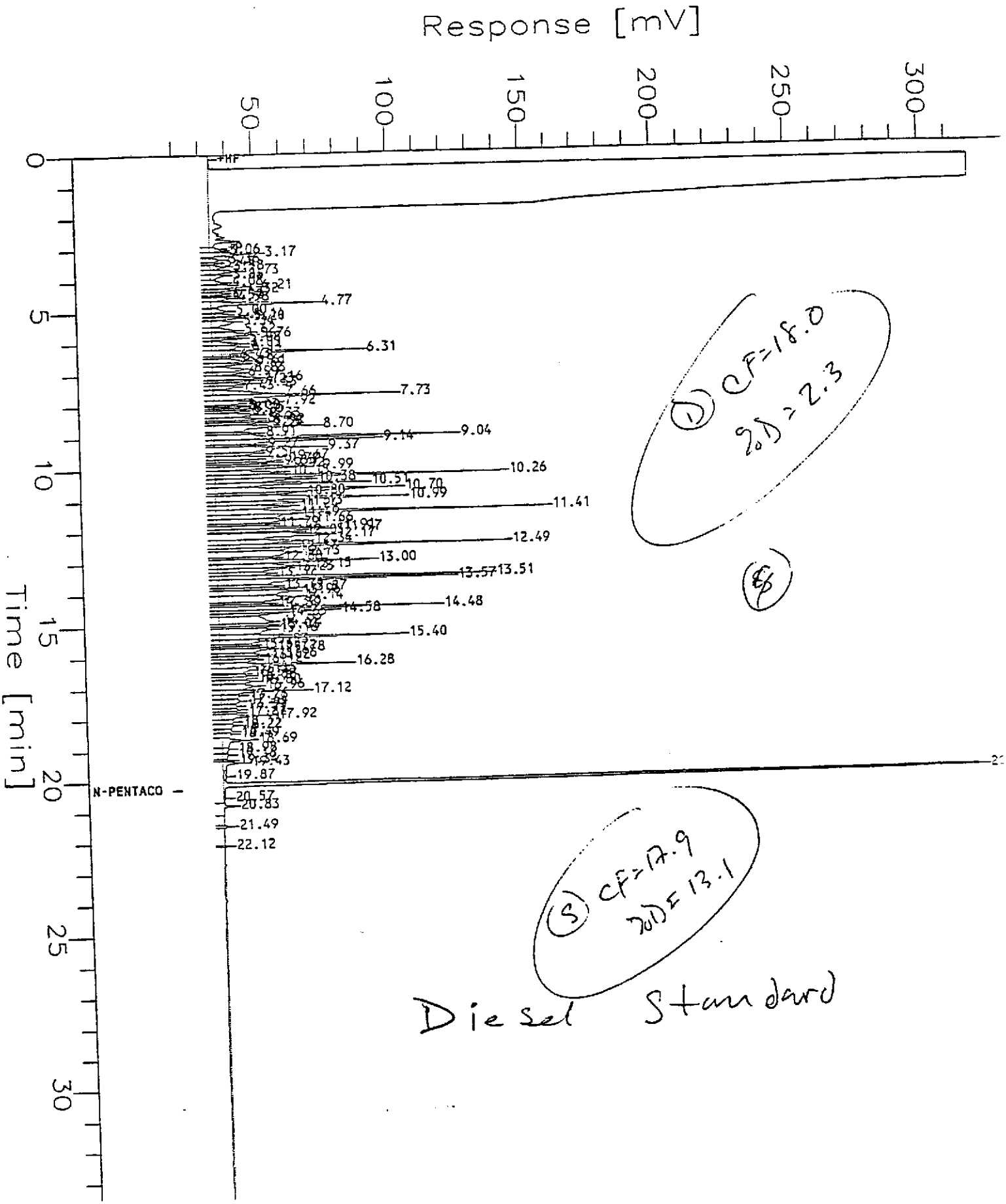
Relinquished By: Name / Signature / Affiliation	Date	Time	Received By: Name / Signature / Affiliation
Gail L. Clark / Gail L Clark /EKI	5-4-95	6:30	
	5/4/95	1830	Sequoia

Petroleum Hydrocarbon Standard Chromatograms
Diesel, Fuel Oil #6,
Alaskan North Slope Crude, and Crude oil

Chromatogram

Sample Name : DSTD040595 (DIESEL+C25)
FileName : s:\ghp_05\0409\405A002.raw
Method : ETPH05A.ins
Start Time : 0.00 min
Scale Factor: -1.0
End Time : 33.67 min
Plot Offset: 18 mV

Sample #: DSTD032395
Date : 4/5/95 15:14
Time of Injection: 4/5/95 14:40
Low Point : 18.23 mV
Plot Scale: 300.0 mV
High Point : 318.23 mV



① CF=18.0
$\sum D = 2.3$

(5) CF=17.9
$\sum D = 13.1$

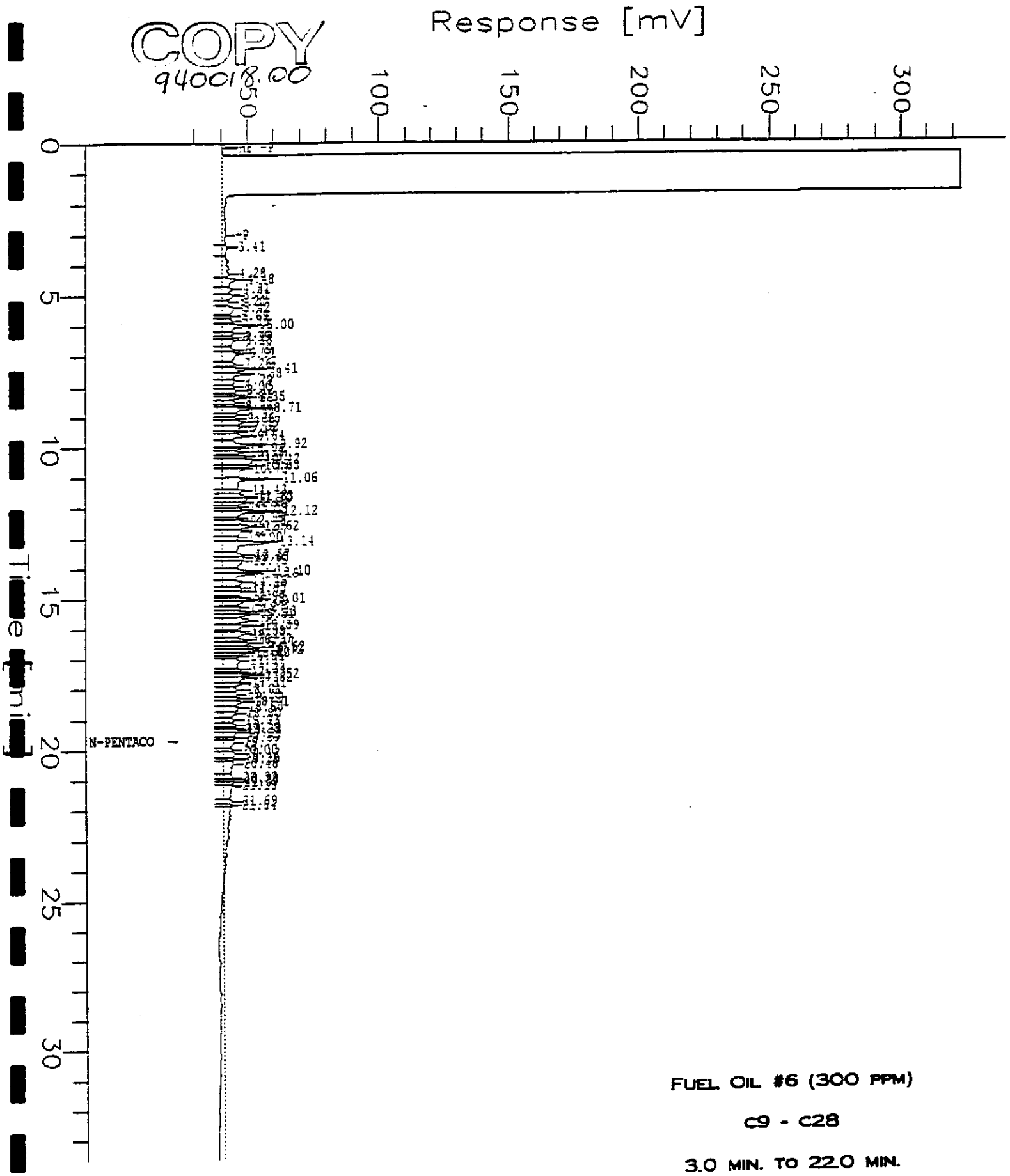
Diesel Standard

Chromatogram

Sample Name : F6STD020595 (300 PPM)
FileName : s:\ghp_04\0205\205A022.raw
Method : ML1A.ins
Start Time : 0.00 min End Time : 33.67 min
Scale Factor: -1.0 Plot Offset: 23 mV

Sample #: FUEL OIL 6 Page 1 of 1
Date : 2/6/95 07:35
Time of Injection: 2/6/95 06:52
Low Point : 23.07 mV High Point : 323.07 mV
Plot Scale: 300.0 mV

COPY
940018.00



FUEL OIL #6 (300 PPM)

C9 - C28

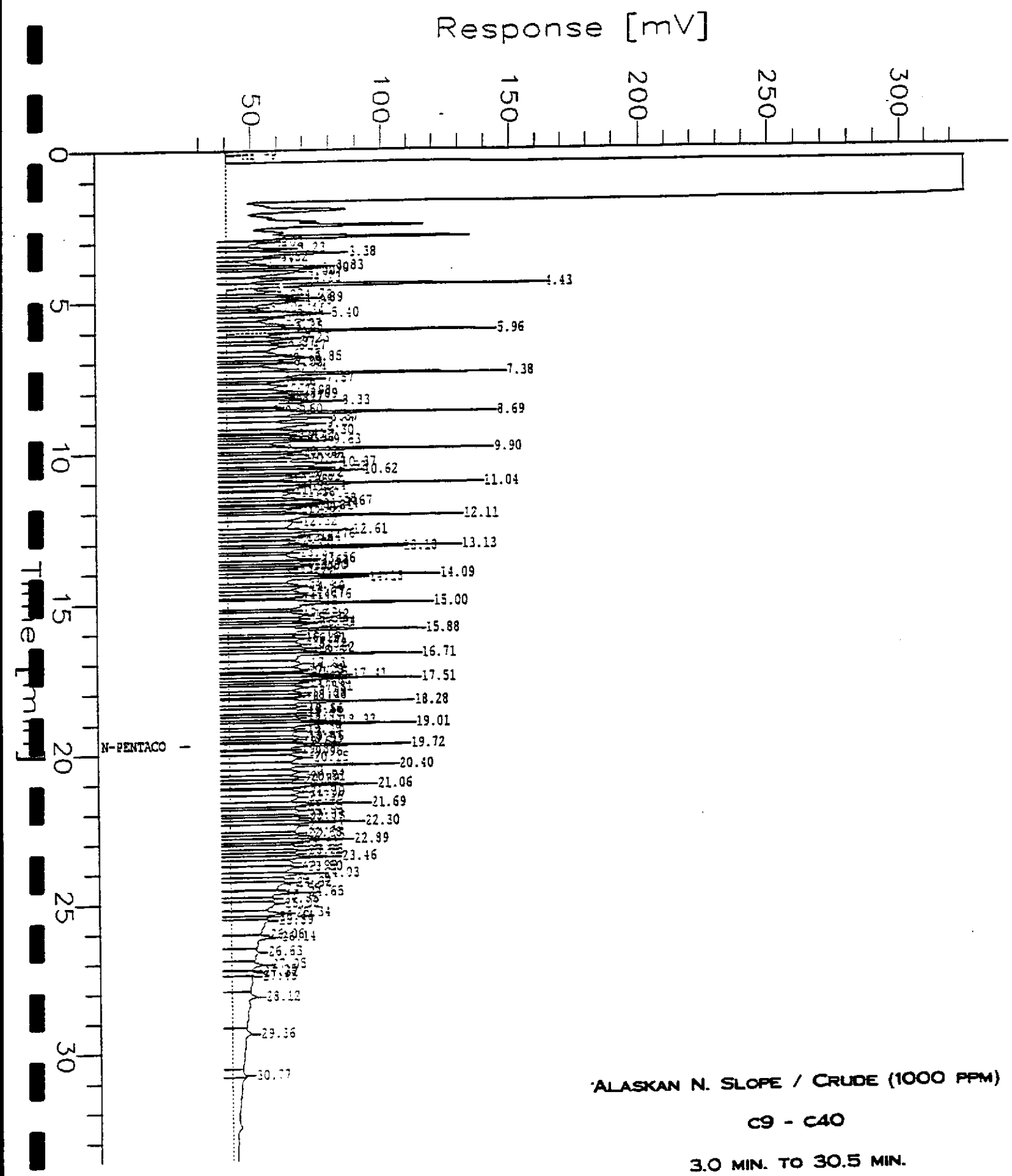
3.0 MIN. TO 22.0 MIN.

Sample Name : CSTD011995 (1000 PPM)
FileName : s:\ghp_04\0205\205A008.raw
Method : ML1A.ins
St[illegible] Time : 0.00 min
Sc[illegible] Factor: -1.0

End Time : 33.67 min
Plot Offset: 25 mV

Sample #: CRUDE OIL
Date : 2/6/95 07:29
Time of Injection: 2/5/95 21:22
Low Point : 25.14 mV
Plot Scale: 300.0 mV

High Point : 325.14 mV



ALASKAN N. SLOPE / CRUDE (1000 PPM)

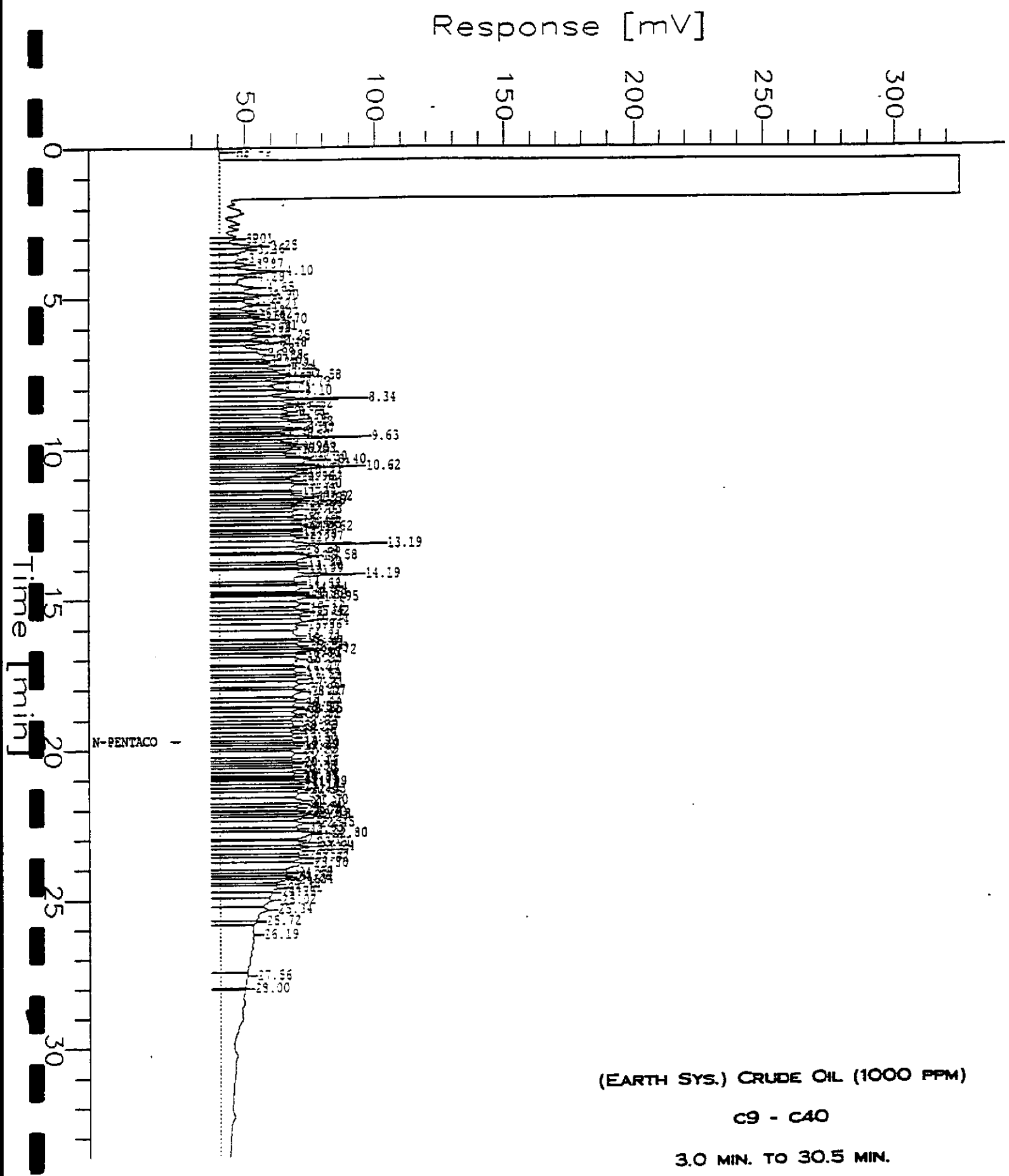
C9 - C40

3.0 MIN. TO 30.5 MIN.

Chromatogram

Sample Name : CZSTD020595 (1000 PPM)
FileName : s:\ghp_04\0205\205A036.raw
Method : ML1A.ins
Start Time : 0.00 min End Time : 33.67 min
Scale Factor: -1.0 Plot Offset: 25 mV

Sample #: CRUDE OIL Page 1 of 1
Date : 2/7/95 08:38
Time of Injection: 2/6/95 17:19
Low Point : 25.15 mV High Point : 325.15 mV
Plot Scale: 300.0 mV



(EARTH SYS.) CRUDE OIL (1000 PPM)

C9 - C40

3.0 MIN. TO 30.5 MIN.