

ENVIRONMENTAL
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16 May 1996

Mr. Barney Chan
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Subject: Off-site Groundwater Investigation Report
Former Oil Recycling Site
4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Dear Mr. Chan:

Erler & Kalinowski, Inc. ("EKI") is pleased to submit the enclosed *Off-site Groundwater Investigation Report* for the former oil recycling site located at 4200 Alameda Avenue, Oakland California. This report summarizes the findings of the Off-site Groundwater Investigation conducted in February 1996.

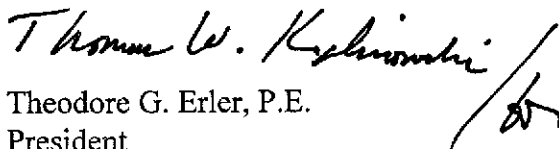
Please call if you have questions.

Very truly yours,

ERLER & KALINOWSKI, INC.



Andrew N. Safford, P.E.
Project Manager



Theodore G. Erler, P.E.
President

enclosure

16 May 1996
Mr. Barney Chan
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cc: Mr. Larry Webster
Mr. William Wick, Crosby, Heafey, Roach & May
Mr. Sum Arigala, Regional Water Quality Control Board
Mr. Gil Jensen, Alameda County District Attorney Office

**OFF-SITE GROUNDWATER
INVESTIGATION REPORT**

FORMER OIL RECYCLING SITE
4200 ALAMEDA AVENUE
OAKLAND, CALIFORNIA

16 May 1996
(EKI 930040.02)

OFF-SITE GROUNDWATER INVESTIGATION REPORT

FORMER OIL RECYCLING SITE
4200 ALAMEDA AVENUE
OAKLAND, CALIFORNIA

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1.0 EXECUTIVE SUMMARY

In February 1996, Erler & Kalinowski, Inc. ("EKI") conducted an Off-site Groundwater Investigation to assess whether there has been any significant off-site migration of chemicals in groundwater from the 4200 Alameda Avenue property ("the site"). The Investigation was performed in accordance with comments provided by Alameda County Department of Environmental Health in its letter, dated 29 September 1995, and subsequent discussions with the agency. Chemicals from more than 50 years of oil recycling operations had been detected in soil and groundwater on the site, but the Investigation indicated that there has been no significant migration of chemicals off-site.

The Investigation indicated no vertical migration of chemicals below the upper water-bearing unit (which is encountered at depth of about 10 feet below ground surface). In the upper water bearing-unit, there was no appreciable migration of benzene, toluene, ethylbenzene, total xylenes ("BTEX"), volatile organic compounds ("VOCs"), or arsenic, and only minimal migration of petroleum hydrocarbons. These petroleum hydrocarbons are predominantly high molecular weight (with carbon chain lengths between C₁₆ and C₃₆) and thus tend to be immobile in groundwater. With the exceptions of the samples closest to the site (within 50 feet), petroleum hydrocarbons were either not detected or were not characteristic of fuel hydrocarbons associated with the site.

Thus, there is no appreciable lateral or vertical migration of BTEX, VOCs, or arsenic in groundwater from the site. Petroleum hydrocarbons were detected only in the upper water-bearing unit a short distance from the site, and those detected hydrocarbons tend to be immobile because of their high molecular weight. Therefore, additional off-site investigation is not warranted.

2.0 SITE DESCRIPTION

The site is located at 4200 Alameda Avenue in Oakland, California. The site was developed as an oil recycling facility and oil recycling took place on the site from approximately 1925 to 1981. It has been known by various names including "Bonus International, Inc.", "Bayside Oil Company", "Fabian Oil Refining Company", "Economy Refining & Service Company", "Economy Byproducts & Economy Service Company", and "Ekotek Lube, Inc." No activities have occurred on the site since oil recycling was discontinued. Waste oil received by the facility primarily consisted of oils from automobiles, railroad locomotives, aircraft, and electrical transformers. Stoddard solvent was also reportedly recycled at the facility until approximately 1978.

3.0 SUMMARY OF PREVIOUS ON-SITE INVESTIGATION

At the request of the Alameda County Department of Environmental Health ("ACDEH") and the Regional Water Quality Control Board, San Francisco Bay Region ("RWQCB"), Erler & Kalinowski, Inc. ("EKI") performed a Preliminary Investigation of the former oil recycling facility located at 4200 Alameda Avenue. The Preliminary Investigation was performed in July 1995 and entailed drilling 10 soil borings and subsequently constructing groundwater monitoring wells in 5 of these borings. EKI collected and analyzed soil and grab groundwater samples from borings and groundwater samples from wells. Selected soil and groundwater samples were analyzed for the following:

- Total petroleum hydrocarbons ("TPH")
- Benzene, toluene, ethylbenzene, total xylenes ("BTEX")
- Halogenated volatile organic compounds ("VOCs")
- Semivolatile organic compounds ("SVOCs")
- Polychlorinated biphenyls ("PCBs")
- Selected metals (arsenic, total chromium, and lead)

The objectives of the Preliminary Investigation were to characterize the nature of chemicals in on-site soil and groundwater and to assess the direction of groundwater flow across the site.

On-site soil and groundwater sampling results are discussed in detail in EKI's report, dated 14 September 1995, entitled *Preliminary Investigation Report, Former Oil Recycling Site, 4200 Alameda Avenue, Oakland, California*. The Preliminary Investigation found petroleum hydrocarbons in soil and groundwater on the site. SVOCs were not detected in soil and BTEX and halogenated VOCs were detected only at low concentrations. PCBs and arsenic, total chromium, and lead were also detected only at low concentrations. Detected concentrations of BTEX and halogenated VOCs were found to be associated with petroleum hydrocarbons in groundwater. Groundwater elevations in on-site wells indicate that bulk groundwater movement on the site is to the south in the direction of San Leandro Bay.

4.0 SUMMARY OF OFF-SITE GROUNDWATER INVESTIGATION

The Off-site Groundwater Investigation entailed performing six cone penetrometer tests ("CPTs") and subsequently collecting grab groundwater samples through the use of "Push In" PVC Piezometers ("PIPP"). EKI also collected and analyzed a soil sample from the three CPT locations closest to the site. Soil and groundwater samples were analyzed for petroleum hydrocarbons, BTEX, halogenated VOCs, and arsenic.

4.1 Objective of Off-site Groundwater Investigation

On the basis of soil and groundwater analytical data obtained on the 4200 Alameda Avenue property, additional sampling activities were recommended to assess whether any chemical migration in groundwater from the site has occurred. EKI presented the scope of an Off-site Groundwater Investigation intended to accomplish this objective in its *Preliminary Investigation Report*, dated 14 September 1995.

ACDEH, acting as lead agency, provided comments on the scope of the Off-site Groundwater Investigation in its letter, dated 29 September 1995. EKI modified the scope of work based on these comments and subsequent telephone discussions with ACDEH. Mr. Barney Chan, of ACDEH, orally approved the scope of the Off-site Groundwater Investigation during a telephone conversation on 13 February 1996.

4.2 Off-site Groundwater Investigation Field Activities

Field activities were conducted from 15 to 17 February 1996. Under EKI supervision, EARTH TECH, Inc. ("EARTH TECH") performed CPT logging and PIPP groundwater sampling at six off-site locations (i.e., CPT-1, CPT-3, CPT-4, CPT-5, CPT-6, and CPT-7) as shown on Figure 1. All CPT/PIPP sampling locations were along the right-of-ways or in the City of Oakland streets. Before conducting sampling activities, EKI obtained a drilling permit from the Alameda County Flood Control and Water Conservation District and excavation permits from the City of Oakland, Office of Planning and Building.

EKI had planned to sample at a seventh location besides the six locations where CPT/PIPP sampling was performed. This seventh location (i.e., CPT-2) was proposed in High Street. However, the possible presence of an underground oil pipeline was identified when this location was inspected for abandoned or otherwise unmarked below ground obstructions. The possible presence of the pipeline meant that hand excavation was required before CPT/PIPP sampling could have been conducted. Due to the added time to hand excavate, CPT/PIPP sampling in High Street was not feasible because CPT/PIPP sampling could not be conducted within the two hour period specified in the City of Oakland excavation permit for CPT-2.

4.2.1 Cone Penetrometer Test and "Push In" PVC Piezometer Sampling Procedures

CPT/PIPP sampling was accomplished by pushing the CPT, soil, and PIPP sampling probes into the ground. EARTH TECH pushed the probes by means of hydraulic rams mounted in a 23-ton rig. Each CPT was completed to an approximate depth of 50 feet, bgs. CPT measurements consisted of the penetration resistance experienced by a pressure sensitive probe as it was pushed into the ground at a test location. EARTH TECH used these measurements to determine subsurface lithology. Upon completing CPT measurements, the probe was removed and the resulting hole was abandoned as discussed in Section 4.2.2. A separate hole was used to collect soil and PIPP groundwater samples at each test location. Logs of CPTs are presented as Appendix A.

At CPT-1, CPT-3, and CPT-4, a soil sample was obtained from the capillary fringe of the shallow water-bearing unit encountered in each of these probe holes. EARTH TECH collected soil samples in stainless steel liners by pushing and retrieving a sampling probe attached to steel rods. The ends of the stainless steel liners were covered with Teflon sheets and plastic end caps upon collection. Soil samples were refrigerated and delivered under chain-of-custody procedure to Sequoia Analytical Laboratory in Redwood City, California for testing as discussed in Section 4.2.3.

Where possible, two PIPP groundwater samples were collected at each test location. The first PIPP sample was collected from the shallow water-bearing unit encountered between approximately 10 to 15 feet, bgs. The second PIPP sample was collected from the top of the next deeper permeable unit encountered between approximately 30 to 40 feet, bgs. The PIPP sampling probe consists of two main components; an outer protective casing and an inner slotted PVC screen section that is 5 feet in length. Once the PIPP sampling probe is advanced to the desired depth, the outer casing is raised and the slotted section is exposed to formation groundwater. EARTH TECH used a clean 3/4-inch diameter Teflon bailer to collect groundwater samples from each sampling depth at each test location. Upon completing groundwater sampling, the probe was removed and the resulting hole was abandoned as discussed in Section 4.2.2.

Groundwater samples were collected in containers as specified by the appropriate EPA method. Groundwater samples were refrigerated and delivered under chain-of-custody procedure to Sequoia Analytical Laboratory for testing as discussed in Section 4.2.3.

4.2.2 Abandonment of CPT and PIPP Probe Holes

EARTH TECH grouted the open probe hole upon completing each CPT and PIPP sampling attempt. This was accomplished by grouting each hole with a bentonite/cement mixture. A tremie pipe was placed to the bottom of each hole. Grout was pumped down the pipe and the pipe was withdrawn, allowing grout to backfill and seal the hole from the

bottom of the hole to just below ground surface. Ready-mix concrete was used to complete abandonment of each CPT and PIPP hole.

4.2.3 Analysis of Soil and PIPP Groundwater Samples

Soil and grab groundwater samples collected as part of the Off-site Groundwater Investigations were analyzed for the following:

- Total purgeable petroleum hydrocarbons (as gasoline) by EPA Method 8015m
- Total extractable petroleum hydrocarbons (as diesel) by EPA Method 8015m
- Fuel fingerprint (as motor oil) by EPA Method 8015m
- BTEX by EPA Method 8020
- Halogenated VOCs by EPA Method 8010
- Arsenic by EPA Method 7060

Copies of analytical testing reports are included as Appendix B.

4.2.4 Land Survey Activities

MacLeod and Associates, Inc., a licensed land surveyor, surveyed CPT/PIPP locations. Locations were surveyed to establish elevations and horizontal locations relative to a site monument. Survey data were used to prepare figures and cross-sections.

5.0 PHYSICAL CHARACTERISTICS OF THE SITE

Summarized in this section are the physical setting, geology, and hydrogeology of the site compiled from the Preliminary Investigation and the Off-site Groundwater Investigation.

5.1 Surface Features

The site is a small, triangular-shaped property that encompasses less than 35,000 ft² or 0.8 acres. The site is bounded by Alameda Avenue along its western side, East 8th Street along its east-southeastern side, and the former American National Can Company ("ANCC") site along its northern side.

The site is essentially flat. The elevation change across the entire site is less than 2 feet or 1 percent. Until recently, the site contained three small buildings, numerous above ground tanks and other process equipment that was used historically in oil recycling operations. Demolition of the majority of the above ground tanks was completed in November 1995. Demolition of the remaining above grade structures and removal of underground tanks and appurtenances (e.g., pipelines, sumps, catch basins, utilities) was initiated in March 1996. Upon completing demolition and excavation activities, the site will be graded and covered with asphalt pavement. The asphalt pavement will be sloped to drain to gutters located along Alameda Avenue and East 8th Street.

5.2 Geology and Hydrogeology

Soils immediately underlying pavement on- and off-site consist of artificial fill extending to approximately 1.5 to 4 feet below ground surface ("bgs"). This artificial fill overlays a silty clay that extends to a depth of 6 to 15 feet, bgs. Contained within this silty clay are 1 to 2 foot thick discontinuous lenses of clayey gravel and silty sand.

Located beneath the silty clay is the first water-bearing unit. This first water-bearing unit ranges in thickness from approximately 1 to 5 feet and consists of clayey sands, sandy gravel, gravely sand, and sandy gravel. Below this first water-bearing unit are clays and silty clays that extend to the maximum depth explored (i.e., 50 feet, bgs). Interbedded in these clays and silts are thin discontinuous sand lenses. The thickest of these discontinuous sand lenses was encountered between 38 and 40 feet, bgs in the vicinity of CPT-1 and CPT-3. The sand lens encountered in this area is 1 to 1.5 feet thick. These discontinuous sand lenses are referred to as the next deeper permeable unit in this report. Presented on Figures 2 and 3, respectively, are a west to east cross section (A-A') and a north to south (B-B') cross-section. These cross-sections were compiled from lithologic logs of borings completed on the site and logs obtained from CPTs performed off-site. Cross-section locations are shown on Figure 1.

6.0 NATURE AND EXTENT OF CHEMICAL OCCURRENCE

Summarized in this section are the nature and extent of chemicals found in soil and groundwater off the site.

6.1 Chemicals in Soil

Summarized in Table 1 and shown on Figure 4 are TPH analytical results of soil samples collected as part of the Off-site Groundwater Investigation. Soil samples were also analyzed for BTEX, halogenated VOCs, and arsenic. Analytical results for these compounds are summarized in Tables 2 through 4 and shown on Figures 4 and 5.

6.1.1 Petroleum Hydrocarbons in Soil

Soil samples were collected from the three CPT locations closest to the site. TPH was detected in samples obtained from CPT-1 and CPT-3. No TPH was detected in the soil sample collected from CPT-4. These data are consistent with the groundwater sampling results for these locations. Petroleum hydrocarbons were detected in shallow groundwater samples collected from CPT-1 and CPT-3. No TPH characteristic of fuel hydrocarbons was detected in the shallow groundwater sample collected from CPT-4.

Soil samples were collected from the capillary fringe of the shallow water-bearing unit at all three locations. Consequently, petroleum hydrocarbons detected in samples collected from CPT-1 and CPT-3 most likely represent TPH in groundwater that has sorbed to saturated soils. As summarized in Table 1, petroleum hydrocarbons in soil were quantitated as TPH as gasoline (C₇ to C₁₂), diesel (C₉ to C₂₄), and motor oil (C₁₆ to C₃₆). Gasoline fractions were detected only in CPT-1 at a concentration of 1,200 mg/kg. Diesel fractions were measured at 4,700 mg/kg in CPT-1 and 17 mg/kg in CPT-3. Motor oil fractions were measured at 5,100 mg/kg in CPT-1 and 54 mg/kg in CPT-3.

6.1.2 BTEX and Halogenated VOCs in Soil

BTEX and halogenated VOCs were detected only in the soil sample collected from CPT-1 (Tables 2 and 3 and Figures 4 and 5). Ethylbenzene was detected at 2.4 mg/kg and total xylenes were detected at 18 mg/kg in the soil sample from CPT-1. The only halogenated VOC detected in this sample was 1,2-dichlorobenzene at 0.28 mg/kg. These chemicals are likely associated with TPH detected in soil at CPT-1.

6.1.3 Arsenic in Soil

As summarized in Table 4, arsenic was not measured above the analytical method limit of detection of 5 mg/kg in any of three soil samples obtained at off-site CPT locations.

6.2 Chemicals in Groundwater

Summarized in Table 5 and shown on Figure 6 are TPH analytical results of groundwater samples collected as part of the Off-site Groundwater Investigation. Groundwater samples were also analyzed for BTEX, halogenated VOCs and dissolved arsenic. Analytical results for these compounds are summarized in Tables 6 through 8 and shown on Figures 6 and 7.

6.2.1 Petroleum Hydrocarbons in Shallow Groundwater

The results of the Off-site Groundwater Investigation indicate that petroleum hydrocarbons representative of fuel hydrocarbons are present in the shallow water-bearing unit located a short distance from the site. This first water-bearing unit is located at a depth of approximately 10 feet, bgs. Fuel hydrocarbons were detected in shallow groundwater samples collected from CPT-1 and CPT-3. Petroleum hydrocarbons in groundwater were quantitated as TPH as gasoline (C_7 to C_{12}), diesel (C_9 to C_{24}), and motor oil (C_{16} to C_{36}). Gasoline fractions in shallow groundwater were measured at 2,100 ug/L in CPT-1 and 1,800 ug/L in CPT-3. Diesel fractions were measured at 83,000 ug/L in CPT-1 and 270,000 ug/L in CPT-3. Motor oil fractions were measured at 86,000 ug/L in CPT-1 and 350,000 ug/L in CPT-3. CPT-1 and CPT-3 are situated approximately 50 feet from the downgradient edge of the 4200 Alameda Avenue site boundary as shown on Figure 6.

Although approximately equivalent concentrations of TPH as diesel and motor oil were reported in groundwater samples collected from CPT-1 and CPT-3, review of the chromatograms for these samples (Appendix B) indicate that the TPH is predominantly high molecular weight with carbon chain lengths between C_{16} and C_{36} . Equal concentrations of TPH as diesel and TPH as motor oil result from the overlap in carbon chain lengths when quantitating these petroleum hydrocarbon fractions. The high molecular weight hydrocarbons detected at CPT-1 and CPT-3 are not likely to be mobile in groundwater due to their limited solubility in water.

Further, it is uncertain whether petroleum hydrocarbons in groundwater samples collected from CPT-1 and CPT-3 originate from the site. This TPH may be due entirely or in part to a release from another off-site source. Utilities drawings prepared by the City of Oakland show the location of a 10-inch diameter oil pipeline near the 4200 Alameda Avenue site. EKI confirmed the presence of this pipeline with Mr. N.J. Russo of the Shell Pipe Line Corporation. According to Mr. Russo, Shell Oil Company once owned

and operated this pipeline but has sold it to Simmons Oil Company. Mr. Russo stated that aviation fuel was conveyed in the pipeline when Shell owned it. EKI was unsuccessful in contacting Simmons Oil to determine if the pipeline is currently in use and, if so, what type of petroleum product is being carried in the pipeline. Mr. Russo provided drawings showing the alignment of the pipeline as of January 1969. EKI has plotted the pipeline on figures (e.g., Figure 6) in this report from drawings provided by Mr. Russo.

Other potential sources of petroleum hydrocarbons exist in the vicinity of the 4200 Alameda Avenue site. In February 1996, EKI reviewed available ACDEH files on hazardous materials release and use sites near 4200 Alameda Avenue. The following properties were identified from this review as sites that stored petroleum products and may have had releases to soil or groundwater:

- Former American National Can Company, 4000 Alameda Avenue
- J.M. Rich Paint and Varnish Company, 615 High Street
- Former United States Cold Storage, 3925 Alameda Avenue
- Shell Service Station, 630 High Street

The proximity of these sites to 4200 Alameda Avenue is shown on Figure 6.

Given the identified potential release sites and history of manufacturing that has taken place in the area, TPH detected in the shallow groundwater sample collected from CPT-5 may not originate from 4200 Alameda Avenue. No TPH representative of fuel hydrocarbons was detected in the shallow groundwater sample collected from CPT-4. As shown on Figure 6, CPT-4 is located upgradient of CPT-5 and close to 4200 Alameda Avenue.

According to the laboratory narrative (Appendix B) prepared by Sequoia Analytical, the quantitated TPH values for the shallow groundwater sample collected from CPT-4 are most likely due to some other type of organic matter in the water samples. Mr. Todd Olive, of Sequoia Analytical, indicated that the organic matter is likely to be naturally-occurring and stated that TPH results like that obtained for CPT-4 are not uncommon when sampling in a bay mud environment such as where the 4200 Alameda Avenue site is situated. The analytical method used to quantitate TPH is subject to matrix effects and the presence of interfering organics (State of California LUFT, 1989).

Consequently, PIPP groundwater sampling results indicate that the migration of petroleum hydrocarbons from the site is limited notwithstanding the existence of other potential TPH sources in the vicinity of the site. This finding of limited migration is further supported by groundwater monitoring data compiled for the Shell service station

located at 630 High Street (Figure 6). The Shell service station is located downgradient of 4200 Alameda Avenue. Analysis for TPH as motor oil has been conducted on three occasions for the monitoring wells located on the upgradient edge of the Shell site. These monitoring wells are identified as SSMW-5, SSMW-6, and SSMW-7 on Figure 6. On none of these occasions has TPH as motor oil been measured above the 500 ug/L analytical method limit of detection. TPH as gasoline and TPH as diesel have been measured as high as 14,000 ug/L and 7,100 ug/L, respectively, in wells SSMW-5, SSMW-6, and SSMW-7. However, Weiss Associates (1995) concludes that these petroleum hydrocarbon fractions are due to a fuel release that occurred on the Shell site. This conclusion is corroborated by the TPH results for groundwater samples collected from CPT-1 and CPT-3. Petroleum hydrocarbons detected in groundwater at these CPT locations consisted predominantly of motor oil fractions with relatively small amounts of TPH as gasoline and TPH as diesel.

6.2.2 Petroleum Hydrocarbons in Deeper Groundwater

As shown on Figure 6, no TPH representative of fuel hydrocarbons was detected in any of the PIPP groundwater samples collected from the next deeper permeable unit encountered below the shallow water-bearing zone. The top of this next deeper permeable unit is located at a depth of approximately 30 to 40 feet, bgs and separated from shallow groundwater by 15 to 20 feet of clays and silty clays. Review of Sequoia Analytical laboratory narratives (Appendix B) indicates that TPH values reported for deeper PIPP groundwater samples are due to organic matter other than petroleum hydrocarbons. TPH analytical results do not show that downward vertical migration of petroleum hydrocarbons has taken place.

6.2.3 BTEX and Halogenated VOCs in Shallow Groundwater

BTEX and certain halogenated VOCs were detected in PIPP groundwater samples collected from the shallow water-bearing zone (Tables 6 and 7; Figures 6 and 7). In general, these compounds were detected at concentrations below or near relevant State of California Maximum Contaminant Levels ("MCLs"). Halogenated VOCs detected include 1,2-dichloroethane ("1,2-DCA"), chlorobenzene, 1,2-dichlorobenzene ("1,2-DCB"), 1,3-dichlorobenzene ("1,3-DCB"), 1,4-dichlorobenzene ("1,4-DCB") 1,1-dichloroethane ("1,1-DCA"), tetrachloroethene ("PCE"), trichloroethene ("TCE"), cis-1,2-dichloroethene ("cis-1,2-DCE"), trans-1,2-dichloroethene ("trans-1,2-DCE"), and carbon tetrachloride. Review of analytical data do not indicate there has been any appreciable lateral migration of BTEX or VOCs in groundwater from the site.

6.2.4 BTEX and Halogenated VOCs in Deeper Groundwater

BTEX and halogenated VOCs were detected only sporadically in PIPP groundwater samples collected from the next deeper permeable unit (Tables 6 and 7; Figures 6 and 7).

Total xylenes were detected at 8.7 ug/L in the deeper groundwater sample collected from CPT-1. In deeper groundwater samples collected from CPT-1, CPT-3, CPT-5, CPT-6, and CPT-7, 1,2-DCA was detected at concentrations ranging from 0.75 to 2.5 ug/L. No correlation exists between the concentration of 1,2-DCA detected and the distance from the site (Figure 7). Further, 1,2-DCA was not detected in any of the shallow groundwater samples collected as part of this investigation. PIPP groundwater sample analytical results do not indicate any appreciable vertical migration of BTEX or VOCs from the 4200 Alameda Avenue site. JK

6.2.5 Dissolved Arsenic in Shallow Groundwater

PIPP groundwater samples were filtered in the laboratory before testing was conducted for arsenic. As summarized in Table 8, dissolved arsenic was detected in only the shallow groundwater sample collected from CPT-1. Dissolved arsenic was detected at 0.017 mg/L in this sample. The detected level of arsenic in this sample likely originates from arsenic that is naturally occurring in soil and/or groundwater at the site. Concentrations of TPH detected in groundwater suggest that anaerobic (i.e., absence of oxygen) subsurface conditions exist at location CPT-1. As reported by Masscheleyn et al. (1991), Aggett and Kriegman (1988), and Gulens et al. (1979), arsenic can be reduced to more soluble forms under anaerobic conditions. Arsenic does not appear to be of significant concern as it was not detected in any other PIPP groundwater samples collected as part of this investigation. Ok

6.2.6 Dissolved Arsenic in Deeper Groundwater

Dissolved arsenic was not detected in any of the PIPP groundwater samples collected from the next deeper permeable unit (Table 8).

7.0 CONCLUSIONS

Conclusions obtained from the Off-site Groundwater Investigation regarding soil and groundwater conditions downgradient of the site are as follows:

Soil:

- Petroleum hydrocarbons were detected in soil samples collected from the capillary fringe of the shallow water-bearing unit at CPT-1 and CPT-3, and most likely represent TPH in groundwater that has sorbed to saturated soils. (*would expect some in all down gradient areas.*)
- BTEX and halogenated VOCs were detected only in the soil sample collected from CPT-1. Ethylbenzene was detected at 2.4 mg/kg and total xylenes were detected at 18 mg/kg in the soil sample from CPT-1. The only halogenated VOC detected in this sample was 1,2-dichlorobenzene at 0.28 mg/kg. These chemicals are likely associated with TPH detected in soil at CPT-1. *Check source for.*
- Arsenic was not detected above the analytical method limit of detection of 5 mg/kg in any of three soil samples obtained at off-site CPT locations.

Groundwater:

- Petroleum hydrocarbons were detected in the shallow water-bearing unit at a distance of approximately 50 feet from the downgradient edge of the site. Review of chromatograms indicate that the TPH detected in off-site groundwater at this distance is predominantly high molecular weight with carbon chain lengths between C₁₆ and C₃₆, and not likely to be mobile in groundwater due to their limited solubility in water. Further, it is uncertain whether these petroleum hydrocarbons originate from the site, since there are other potential sources. *— what about that which was reported as TPH's?*
- TPH representative of fuel hydrocarbons were not detected in any of the deeper groundwater samples collected as part of this investigation. Analytical data indicate that downward vertical migration of petroleum hydrocarbons has not occurred.
- BTEX and certain halogenated VOCs were detected in PIPP groundwater samples collected from the shallow water-bearing unit at concentrations generally below or near relevant State of California Maximum Contaminant Levels. The analytical data indicate there has not been any appreciable lateral migration of BTEX or VOCs in groundwater from the site.

- Dissolved arsenic was detected only in the shallow groundwater sample collected from CPT-1. Only 0.017 mg/L was detected in this sample, and arsenic was not detected in any other PIPP groundwater samples collected as part of this investigation.

No additional off-site investigations are proposed based on the above findings.

8.0 REFERENCES

Aggett, J. and M.R. Kriegman. 1988. The Extent of Formation of Arsenic(III) in Sediment Interstitial Waters and its Release to Hypolimnetic Waters in Lake Ohakuri. *Water Resources*. Vol. 22, No. 4. pp 407-411.

Gulens, J., D.R. Champ, and R.E. Jackson. 1979. Influence of Redox Environments on the Mobility of Arsenic in Ground Water. *American Chemical Society Symposium Series: Chemical Modeling in Aqueous Systems*. pp. 82-95.

Masscheleyn, P.H., R.D. Delaune, and W.H. Patrick, Jr. 1991. Effect of pH on Arsenic Speciation and Solubility in a Contaminated Soil. *Environmental Science & Technology*. vol. 25, No. 8. pp 1414-1419.

State of California, Leaking Underground Fuel Tank Task Force. October 1989. *Leaking Underground Fuel Tank Manual ("LUFT"): Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure*.

Weiss Associates. May 1995. *Proposed Future Action Plan and Request to Establish a Non-Attainment Zone at Shell Service Station WIC #204-5508-5801, 630 High Street, Oakland, California*.

TABLE 1
TOTAL PETROLEUM HYDROCARBON (TPH) ANALYTICAL RESULTS OF CONE PENETROMETER TEST SOIL SAMPLES

4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Sample ID	Sample Depth (feet)	Sample Date	TPH (as gasoline) Concentration		TPH (as diesel) Concentration		TPH (as motor oil) Concentration	
			(mg/kg)	Description of Chromatogram Pattern	(mg/kg)	Description of Chromatogram Pattern	(mg/kg)	Description of Chromatogram Pattern
CPT-1-10S	10.0-10.5	2/16/96	1,200	Pattern characteristic of weathered gasoline	4,700	Unidentifiable pattern of hydrocarbons in C9-C24 range	5,100	Unidentifiable pattern of hydrocarbons in C16-C36 range
CPT-3-10S	10.0-10.5	2/17/96	<1.0 (a)	--	17	Diesel pattern of hydrocarbons in C9-C24 range	54	Unidentifiable pattern of hydrocarbons in C16-C36 range
CPT-4-10S	10.5-11.0	2/16/96	<1.0	--	<1.0	--	<10	--

Notes:

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

TABLE 2
 BENZENE, TOLUENE, ETHYL BENZENE, TOTAL XYLENES (BTEX)
 ANALYTICAL RESULTS OF CONE PENETROMETER TEST SOIL SAMPLES

4200 Alameda Avenue, Oakland, California
 (EKI 930040.02)

Sample ID	Sample Depth (ft, bgs)	Sample Date	BTEX Concentration (mg/kg)			
			Benzene	Toluene	Ethylbenzene	Total Xylenes
CPT-1-10S	10.0-10.5	2/16/96	<0.5	<0.5	2.4	18
CPT-3-10S	10.0-10.5	2/17/96	<0.005	<0.005	<0.005	<0.005
CPT-4-10.5S	10.5-11.0	2/16/96	<0.005	<0.005	<0.005	<0.005

Notes:

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

TABLE 3

HALOGENATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS OF CONE PENETROMETER TEST SOIL SAMPLES

4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Sample ID	Sample Depth (ft, bgs)	Sample Date	Halogenated Volatile Organic Compound Concentration (mg/kg)																	
			Freon 113	1,2-dichloroethane	1,2-dichloropropane	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	Chloroform	Carbon Tetrachloride	
CPT-1-10S	10.0-10.5	2/16/96	<0.4 (a)	<0.2	<0.2	<0.2	0.28	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2
CPT-3-10S	10.0-10.5	2/17/96	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
CPT-4-10.5S	10.5-11.0	2/16/96	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005

Notes:

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

TABLE 4
ARSENIC ANALYTICAL RESULTS OF
CONE PENETROMETER TEST SOIL SAMPLES

4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Sample ID	Sample Depth (ft, bgs)	Sample Date	Arsenic (mg/kg)
CPT-1-10S	10-10.5	2/16/96	<5.0 (a)
CPT-3-10S	10-10.5	2/17/96	<5.0
CPT-4-10.5S	10.5-11	2/16/96	<5.0

Notes:

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

TABLE 5

TOTAL PETROLEUM HYDROCARBON (TPH) ANALYTICAL RESULTS OF PIPP GRAB GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Sample ID	Sample Depth (feet)	Sample Date	TPH (as gasoline) Concentration		TPH (as diesel) Concentration		TPH (as motor oil) Concentration	
			(ug/L)	Description of Chromatogram Pattern	(ug/L)	Description of Chromatogram Pattern	(ug/L)	Description of Chromatogram Pattern
CPT-1-11W	11-16	2/15/96	2,100	Pattern characteristic of gasoline	83,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	86,000	Unidentifiable pattern of hydrocarbons in C ₁₆ -C ₃₆ range
CPT-1-34W	34-38	2/15/96	<50 (a)	--	320 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--
CPT-3-11W	11-14	2/17/96	1,800	Unidentifiable pattern of hydrocarbons in C ₇ -C ₁₂ range	270,000	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	350,000	Unidentifiable pattern of hydrocarbons in C ₁₆ -C ₃₆ range
CPT-3-37W	37-40	2/17/96	<50	--	320 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	590 (b)	Unidentifiable pattern of hydrocarbons in C ₁₆ -C ₃₆ range
CPT-4-12W	12-16	2/16/96	<50	--	990 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	1700 (b)	Unidentifiable pattern of hydrocarbons in C ₁₆ -C ₃₆ range
CPT-5-13W	13-17	2/16/96	570	Pattern characteristic of gasoline	450	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--
CPT-5-33W	29-33	2/16/96	<50	--	140 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--
CPT-6-11W	11-15	2/17/96	<50	--	120 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--
CPT-6-28W	28-33	2/17/96	<50	--	220 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--
CPT-7-43W	43-47	2/15/96	<50	--	150 (b)	Unidentifiable pattern of hydrocarbons in C ₉ -C ₂₄ range	<500	--

Notes:

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

(b) According to the laboratory narrative prepared by Sequoia Analytical, quantitated TPH value is most likely due to organic matter other than petroleum fuels.

TABLE 6
 BENZENE, TOLUENE, ETHYL BENZENE, TOTAL XYLENES (BTEX)
 ANALYTICAL RESULTS OF PIPP GRAB GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California
 (EKI 930040.02)

Sample ID	Sample Depth (ft, bgs)	Sample Date	BTEX Concentration (ug/L)			
			Benzene	Toluene	Ethylbenzene	Total Xylenes
CPT-1-11W	11-16	2/15/96	140	<5 (a)	15	28
CPT-1-34W	34-38	2/15/96	<0.5	<0.5	<0.5	0.72
CPT-3-11W	11-14	2/17/96	11	<10	<10	8.7
CPT-3-37W	37-40	2/17/96	<0.5	<0.5	<0.5	<0.5
CPT-4-12W	12-16	2/16/96	<0.5	<0.5	<0.5	<0.5
CPT-5-13W	13-17	2/16/96	7.4	1.2	10	5.2
CPT-5-33W	29-33	2/16/96	<0.5	<0.5	<0.5	<0.5
CPT-6-11W	11-15	2/17/96	<0.5	<0.5	<0.5	<0.5
CPT-6-28W	28-33	2/17/96	<0.5	<0.5	<0.5	<0.5
CPT-7-43W	43-47	2/15/96	<0.5	<0.5	<0.5	<0.5

Notes:

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

TABLE 7

HALOGENATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS OF PIPP GRAB GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California

(EKI 930040.02)

mcc

70 600 - 5

Sample ID	Sample Depth (ft, bgs)	Sample Date	Halogenated Volatile Organic Compound Concentration (ug/L)																
			Freon 113	1,2-dichloroethane	1,2-dichloropropane	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	Chloroform	Carbon Tetrachloride
CPT-1-11W	11-16	2/15/96	<5 (a)	<2.5	<2.5	25	46	4.3	25	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5
CPT-1-34W	34-38	2/15/96	<1	0.87	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	0.6	1.5	<0.5	<0.5	<1	27	0.61	
CPT-3-11W	11-14	2/17/96	<2.5	<1.3	<1.3	40	11	4.2	15	<1.3	<1.3	<2.5	<1.3	<1.3	<1.3	<1.3	<2.5	<2.5	<1.3
CPT-3-37W	37-40	2/17/96	<1	0.75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-4-12W	12-16	2/16/96	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8	<1.0	<0.5	<0.5	1.6	<0.5	<1	<1	<0.5
CPT-5-13W	13-17	2/16/96	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-5-33W	29-33	2/16/96	<1	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-5-33 (dup); (b)	29-33	2/16/96	<1	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-6-11W	11-15	2/17/96	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-6-28W	28-33	2/17/96	<1	2.1	<0.5	0.54	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5
CPT-7-43W	43-47	2/15/96	<1	0.85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5

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

(b) Field duplicate sample collected at a depth of 33 feet below ground surface from cone penetrometer test location CPT5-33.

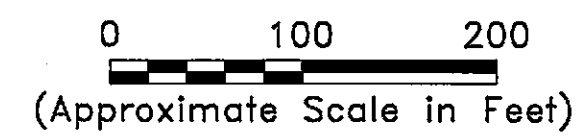
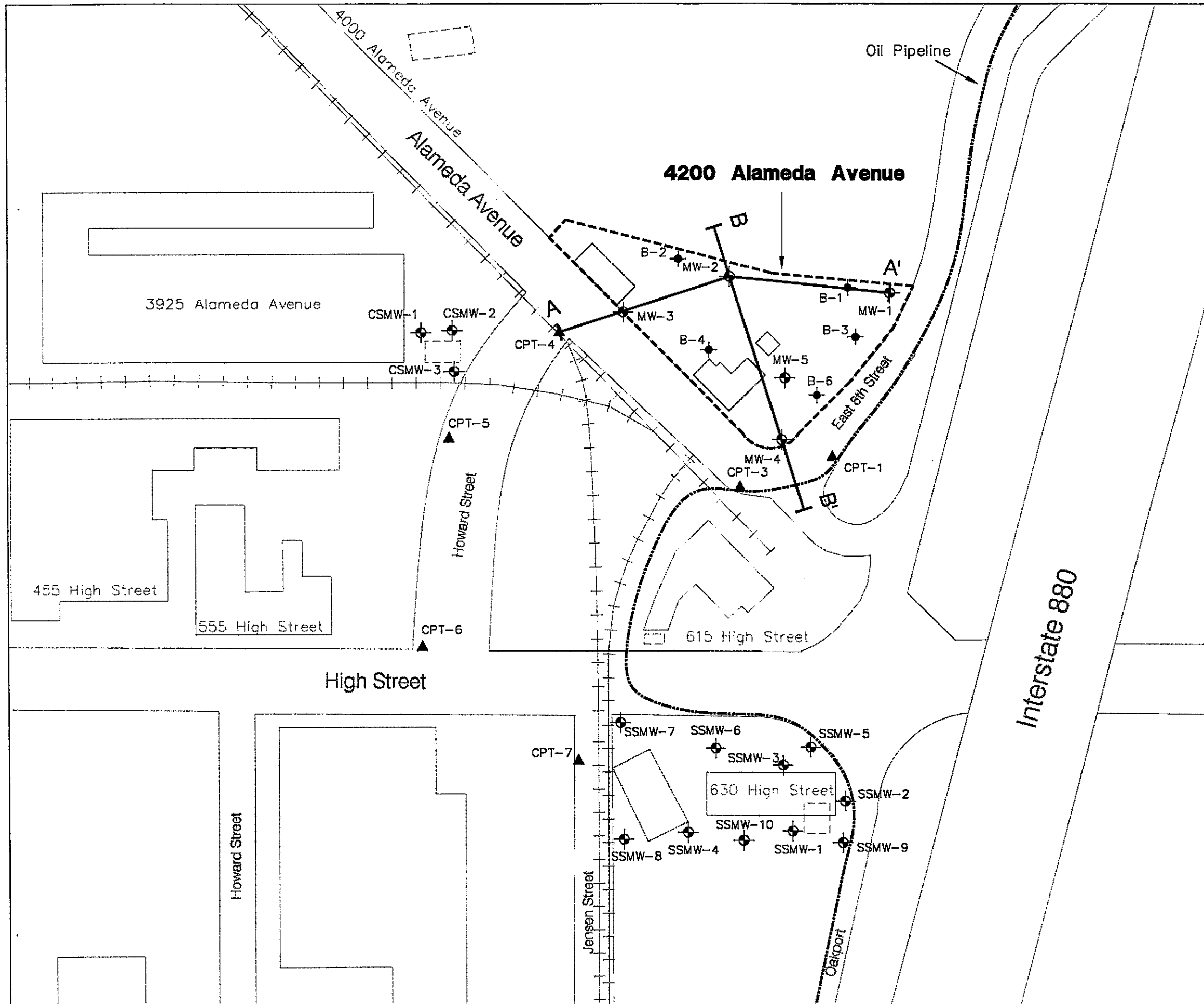
TABLE 8
ARSENIC ANALYTICAL RESULTS OF
PIPP GRAB GROUNDWATER SAMPLES

4200 Alameda Avenue, Oakland, California
(EKI 930040.02)

Sample ID	Sample Depth (ft, bgs)	Sample Date	Arsenic (mg/L)
CPT-1-11W	11-16	2/16/96	0.017
CPT-1-34W	34-38	2/16/96	<0.005 (a)
CPT-3-11W	11-14	2/17/96	<0.005
CPT-3-37W	37-40	2/17/96	<0.005
CPT-4-12W	12-16	2/16/96	<0.005
CPT-5-13W	13-17	2/16/96	<0.005
CPT-5-33W	29-33	2/16/96	<0.005
CPT-6-11W	11-15	2/17/96	<0.005
CPT-6-28W	28-33	2/17/96	<0.005
CPT-7-43W	43-47	2/16/96	<0.005

Notes:

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



LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊙ Soil Boring
- ▲ CPT/PIPP Sampling Location
- ⊠ Approximate Location of Former Underground Storage Tanks

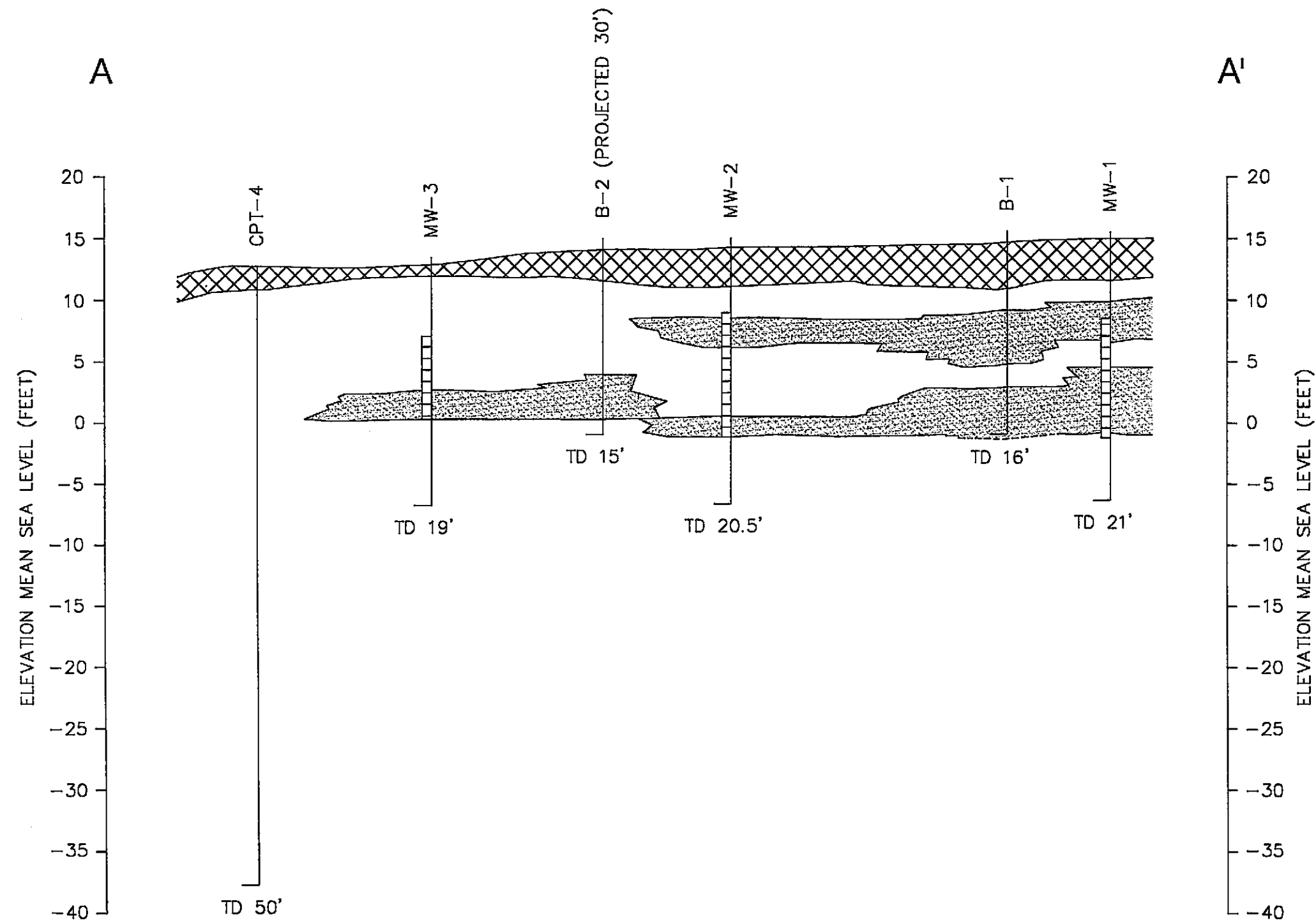
Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.



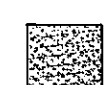
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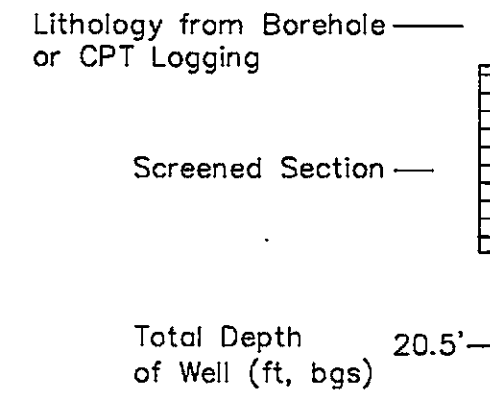
Site Map and
Cross-Section Locations

4200 Alameda Avenue
Oakland, CA
May 1996
EKI 930040.02
Figure 1



LEGEND

-  Fill
-  Clay and Silt (CL, ML)
-  Sand and Gravel (SM, SP, SC, GP, GW)



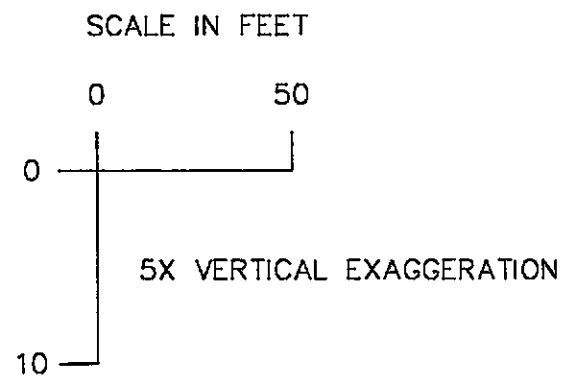
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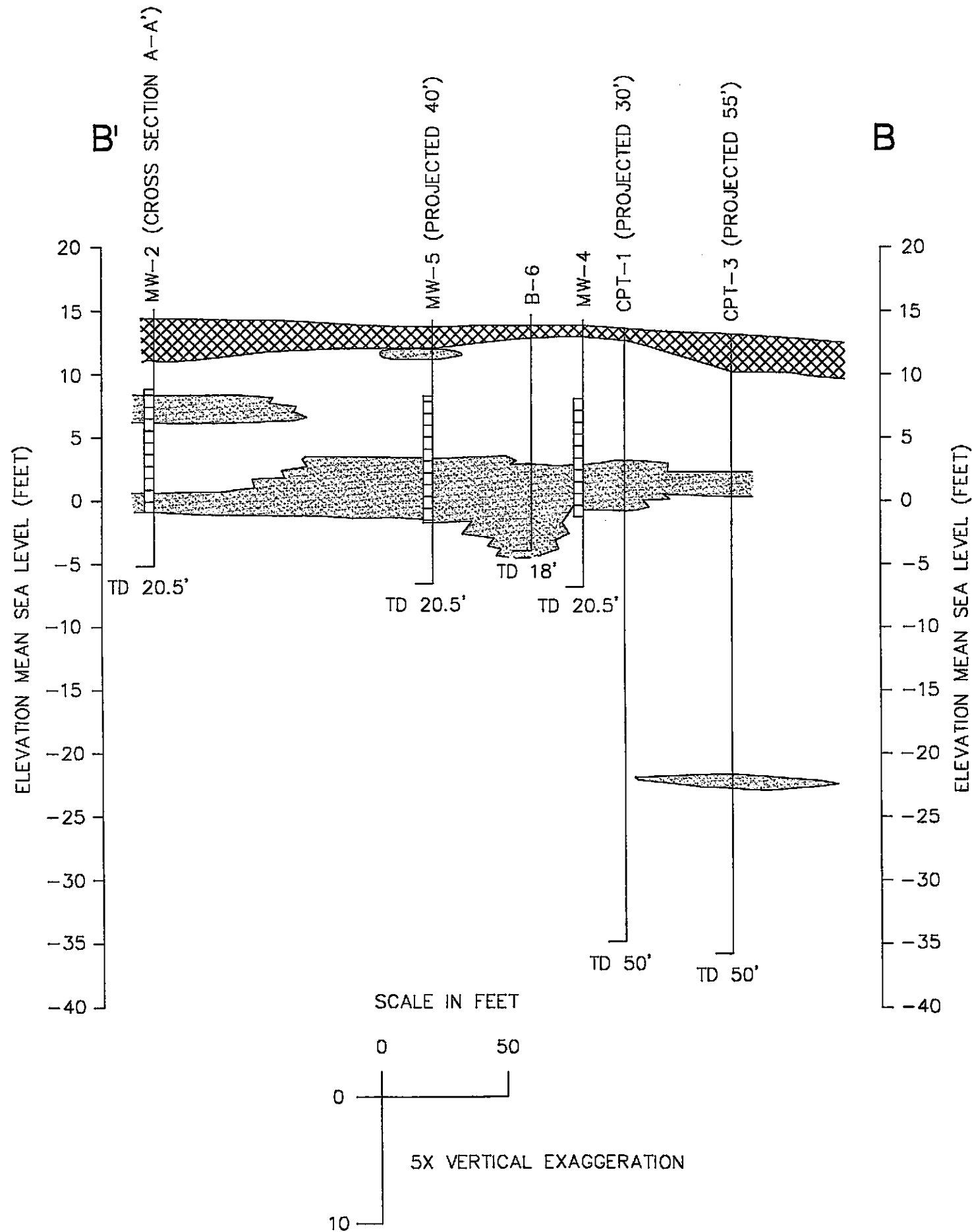
1. Soils logged using Unified Soil Classification System.

Erler & Kalinowski, Inc.




Cross-Section A-A'

4200 Alameda Avenue
 Oakland, CA
 May 1996
 EKI 930040.02
 Figure 2





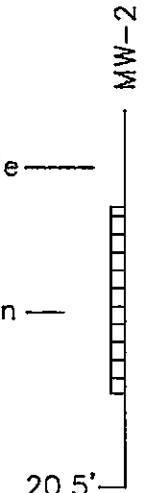
LEGEND

-  Fill
-  Clay and Silt (CL, ML)
-  Sand and Gravel (SM, SP, SC, GP, GW)

Lithology from Borehole or CPT Logging

Screened Section

Total Depth of Well (ft, bgs)



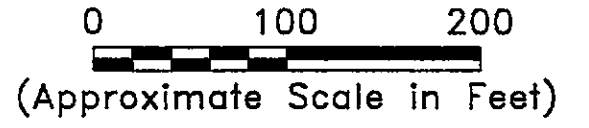
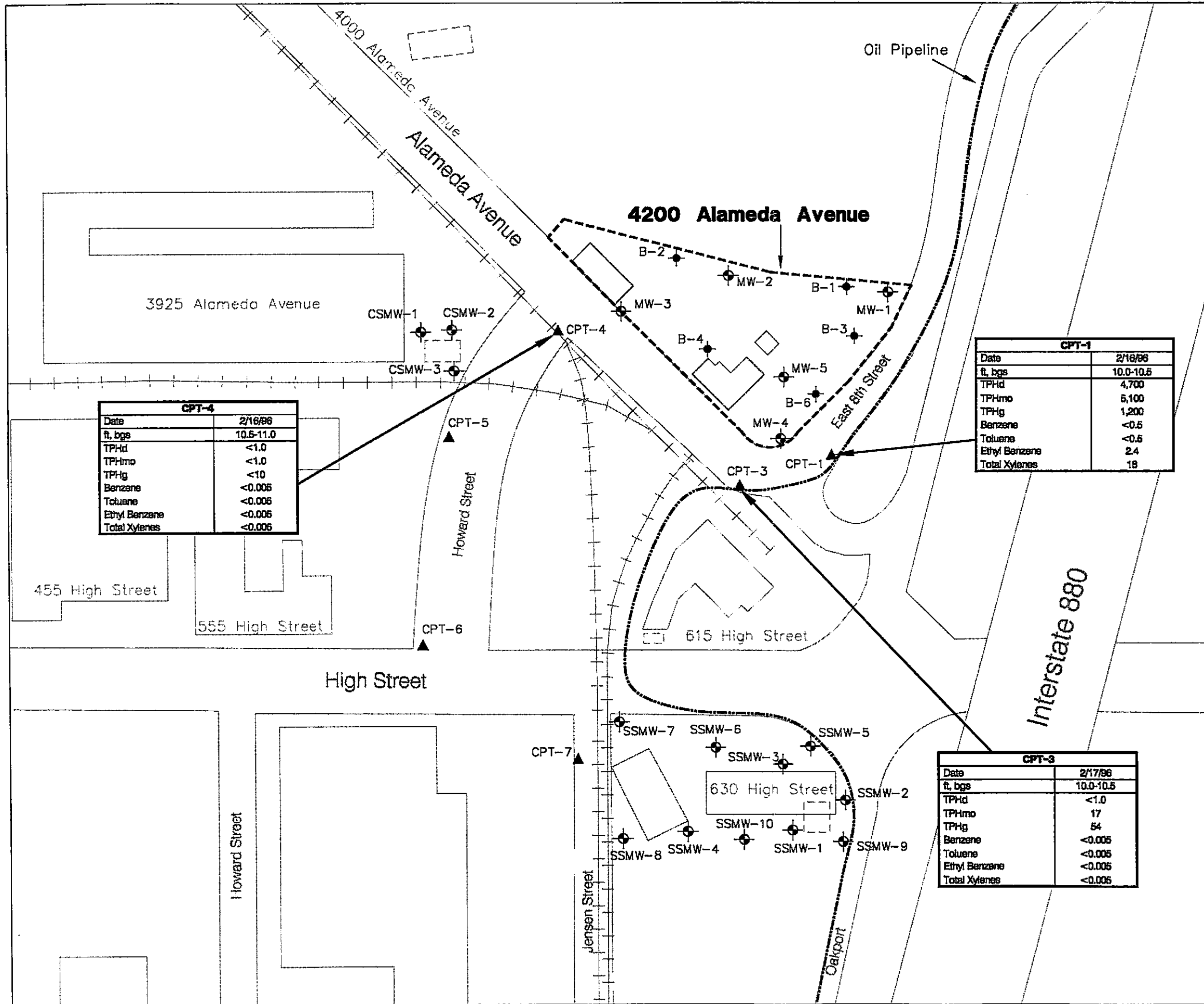
Notes:

1. Soils logged using Unified Soil Classification System.

Erler & Kalinowski, Inc.

Cross-Section B-B'

4200 Alameda Avenue
 Oakland, CA
 May 1996
 EKI 930040.02
Figure 3



LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊙ Soil Boring
- ▲ CPT/PIPP Sampling Location
- Approximate Location of Former Underground Storage Tanks

Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.
3. Concentrations in mg/kg (ppm).

CPT-4	
Date	2/16/96
ft. bgs	10.5-11.0
TPHd	<1.0
TPHmo	<1.0
TPHg	<1.0
Benzene	<0.005
Toluene	<0.005
Ethyl Benzene	<0.005
Total Xylenes	<0.005

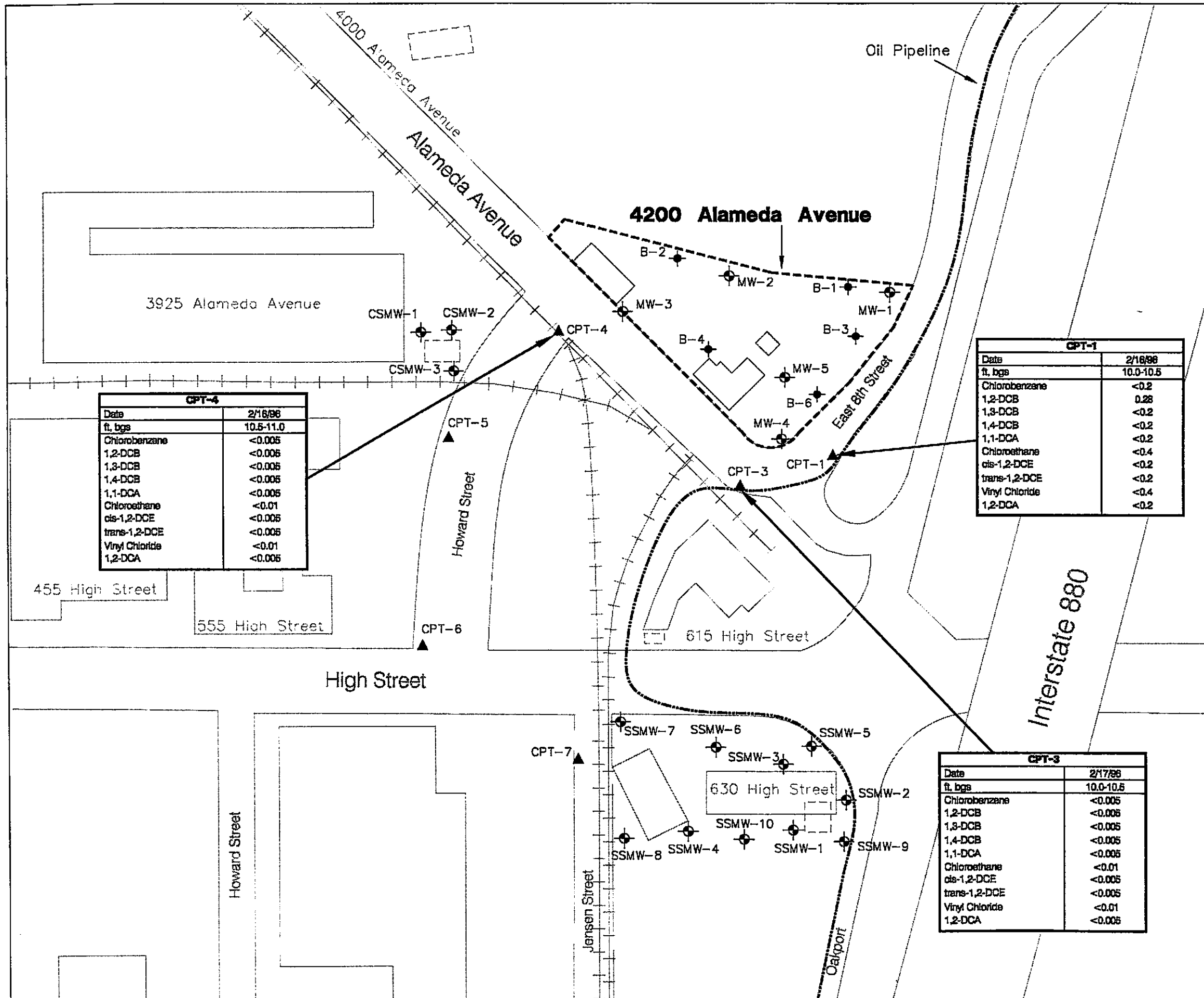
CPT-1	
Date	2/16/96
ft. bgs	10.0-10.5
TPHd	4,700
TPHmo	5,100
TPHg	1,200
Benzene	<0.5
Toluene	<0.5
Ethyl Benzene	2.4
Total Xylenes	18

CPT-3	
Date	2/17/96
ft. bgs	10.0-10.5
TPHd	<1.0
TPHmo	17
TPHg	54
Benzene	<0.005
Toluene	<0.005
Ethyl Benzene	<0.005
Total Xylenes	<0.005

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Petroleum Hydrocarbons and BTEX in Soil

4200 Alameda Avenue
 Oakland, CA
 May 1996
 EKI 930040.02
 Figure 4



0 100 200

(Approximate Scale in Feet)

LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊙ Soil Boring
- ▲ CPT/PIPP Sampling Location
- Approximate Location of Former Underground Storage Tanks

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
- 1,2-DCA = 1,2-Dichloroethane

Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.
3. Concentrations in mg/kg (ppm).

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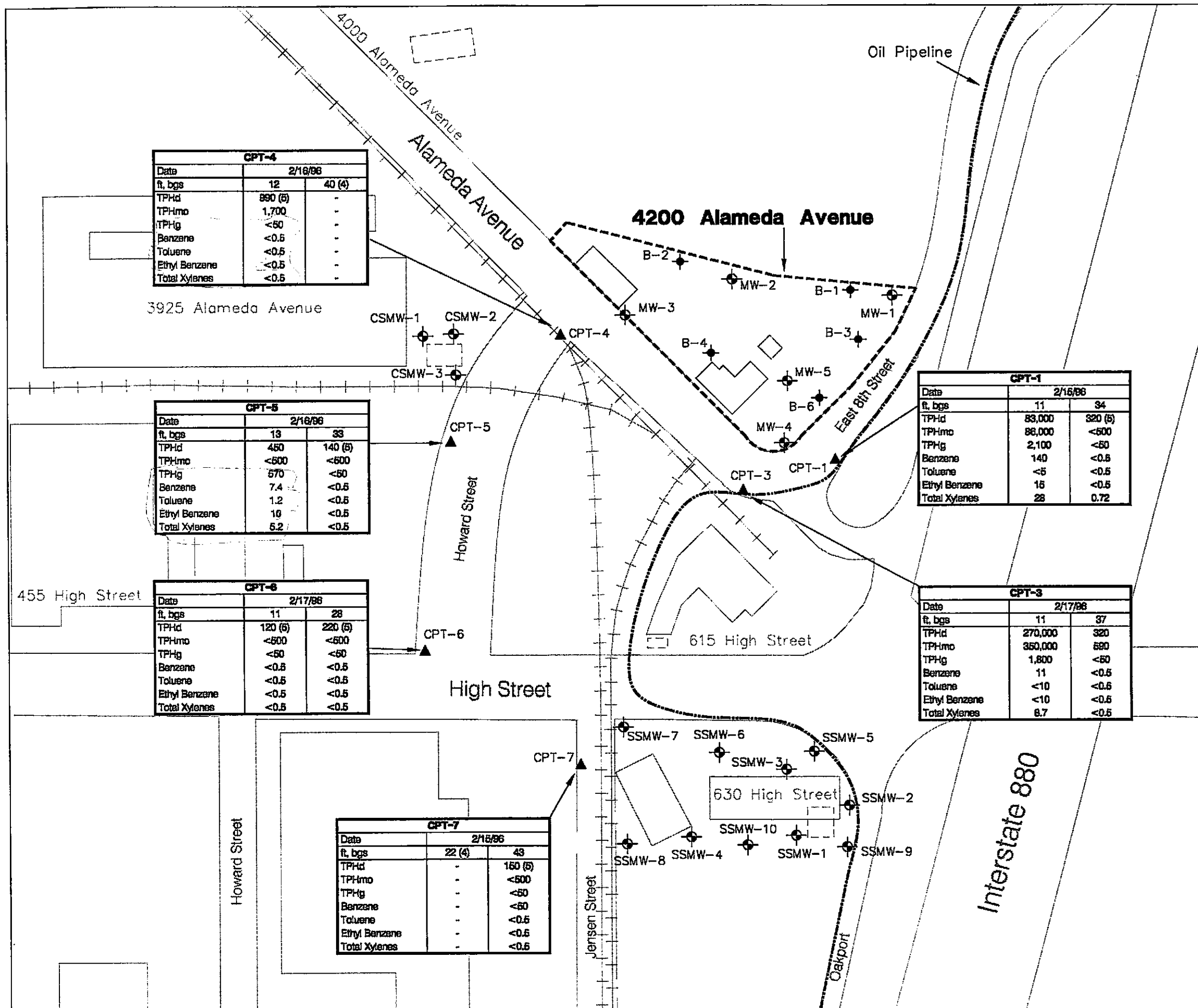
Halogenated Volatile Organic Compounds in Soil

4200 Alameda Avenue
Oakland, CA
May 1996
EKI 930040.02
Figure 5

CPT-4	
Date	2/16/96
ft. bgs	10.5-11.0
Chlorobenzene	<0.005
1,2-DCB	<0.005
1,3-DCB	<0.005
1,4-DCB	<0.005
1,1-DCA	<0.005
Chloroethane	<0.01
cis-1,2-DCE	<0.005
trans-1,2-DCE	<0.005
Vinyl Chloride	<0.01
1,2-DCA	<0.005

CPT-1	
Date	2/16/96
ft. bgs	10.0-10.5
Chlorobenzene	<0.2
1,2-DCB	0.28
1,3-DCB	<0.2
1,4-DCB	<0.2
1,1-DCA	<0.2
Chloroethane	<0.4
cis-1,2-DCE	<0.2
trans-1,2-DCE	<0.2
Vinyl Chloride	<0.4
1,2-DCA	<0.2

CPT-3	
Date	2/17/96
ft. bgs	10.0-10.5
Chlorobenzene	<0.005
1,2-DCB	<0.005
1,3-DCB	<0.005
1,4-DCB	<0.005
1,1-DCA	<0.005
Chloroethane	<0.01
cis-1,2-DCE	<0.005
trans-1,2-DCE	<0.005
Vinyl Chloride	<0.01
1,2-DCA	<0.005



CPT-4		
Date	2/16/96	
ft. bgs	12	40 (4)
TPHd	890 (5)	-
TPHmo	1,700	-
TPHg	<50	-
Benzene	<0.5	-
Toluene	<0.5	-
Ethyl Benzene	<0.5	-
Total Xylenes	<0.5	-

CPT-5		
Date	2/16/96	
ft. bgs	13	33
TPHd	450	140 (5)
TPHmo	<500	<500
TPHg	570	<50
Benzene	7.4	<0.5
Toluene	1.2	<0.5
Ethyl Benzene	10	<0.5
Total Xylenes	5.2	<0.5

CPT-6		
Date	2/17/96	
ft. bgs	11	28
TPHd	120 (5)	220 (5)
TPHmo	<500	<500
TPHg	<50	<50
Benzene	<0.5	<0.5
Toluene	<0.5	<0.5
Ethyl Benzene	<0.5	<0.5
Total Xylenes	<0.5	<0.5

CPT-7		
Date	2/15/96	
ft. bgs	22 (4)	43
TPHd	-	160 (5)
TPHmo	-	<500
TPHg	-	<50
Benzene	-	<0.5
Toluene	-	<0.5
Ethyl Benzene	-	<0.5
Total Xylenes	-	<0.5

CPT-1		
Date	2/16/96	
ft. bgs	11	34
TPHd	83,000	320 (5)
TPHmo	86,000	<500
TPHg	2,100	<50
Benzene	140	<0.5
Toluene	<5	<0.5
Ethyl Benzene	16	<0.5
Total Xylenes	28	0.72

CPT-3		
Date	2/17/96	
ft. bgs	11	37
TPHd	270,000	320
TPHmo	350,000	580
TPHg	1,800	<50
Benzene	11	<0.5
Toluene	<10	<0.5
Ethyl Benzene	<10	<0.5
Total Xylenes	8.7	<0.5



(Approximate Scale in Feet)

LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊕ Soil Boring
- ▲ CPT/PIPP Sampling Location
- ⊠ Approximate Location of Former Underground Storage Tanks

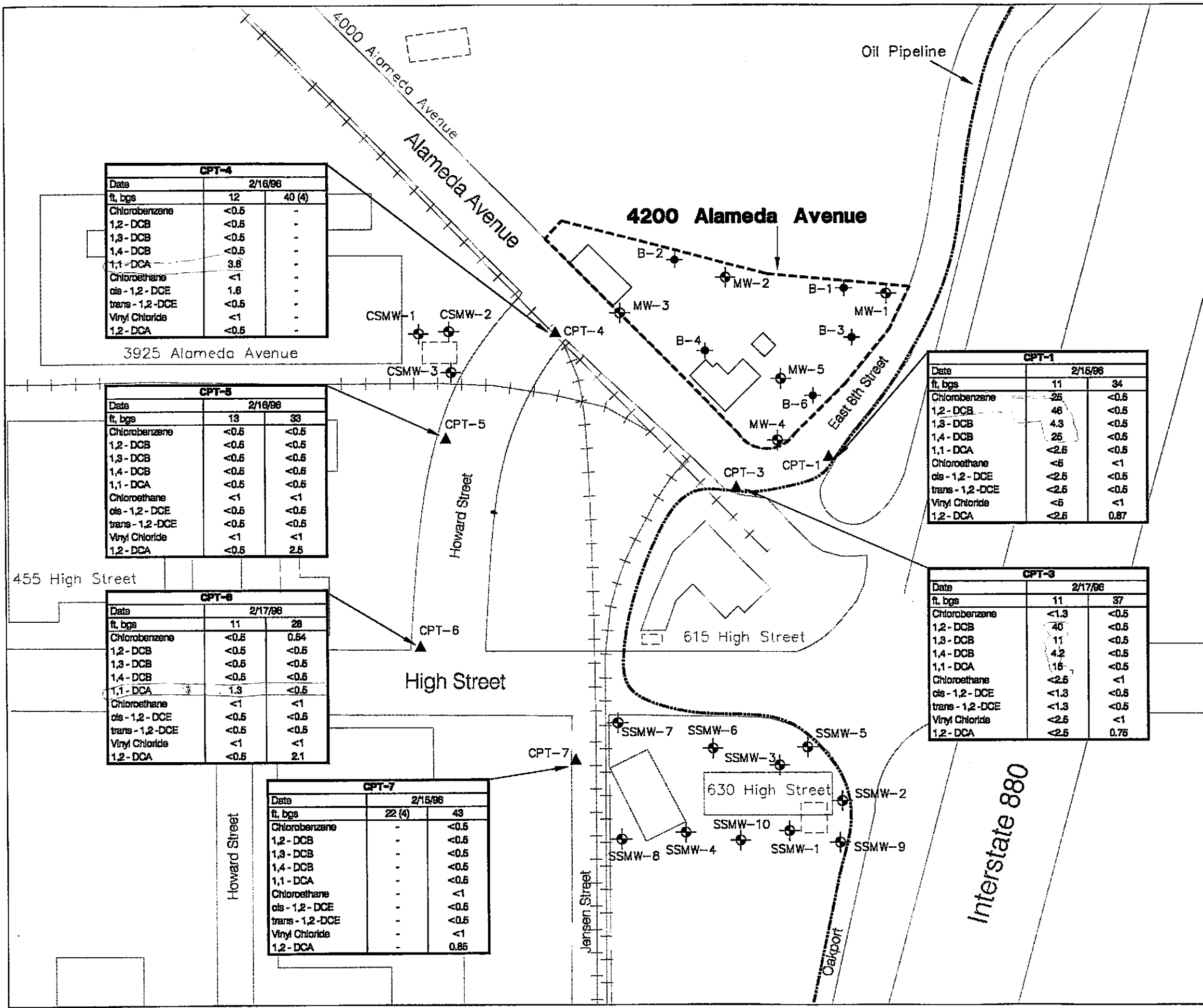
Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.
3. Concentrations in ug/L (ppb).
4. Insufficient groundwater to allow sample collection.
5. Analytical laboratory indicates that concentration may reflect naturally-occurring organic matter present in groundwater.

Erler & Kalinowski, Inc.

Petroleum Hydrocarbons and BTEX in Groundwater

4200 Alameda Avenue
Oakland, CA
May 1996
EKI 930040.02
Figure 6



CPT-4		
Date	2/16/96	
ft. bgs	12	40 (4)
Chlorobenzene	<0.5	-
1,2 - DCB	<0.5	-
1,3 - DCB	<0.5	-
1,4 - DCB	<0.5	-
1,1 - DCA	3.6	-
Chloroethane	<1	-
cis - 1,2 - DCE	1.6	-
trans - 1,2 - DCE	<0.5	-
Vinyl Chloride	<1	-
1,2 - DCA	<0.5	-

CPT-5		
Date	2/16/96	
ft. bgs	13	33
Chlorobenzene	<0.5	<0.5
1,2 - DCB	<0.5	<0.5
1,3 - DCB	<0.5	<0.5
1,4 - DCB	<0.5	<0.5
1,1 - DCA	<0.5	<0.5
Chloroethane	<1	<1
cis - 1,2 - DCE	<0.5	<0.5
trans - 1,2 - DCE	<0.5	<0.5
Vinyl Chloride	<1	<1
1,2 - DCA	<0.5	2.5

CPT-6		
Date	2/17/96	
ft. bgs	11	28
Chlorobenzene	<0.5	0.54
1,2 - DCB	<0.5	<0.5
1,3 - DCB	<0.5	<0.5
1,4 - DCB	<0.5	<0.5
1,1 - DCA	1.9	<0.5
Chloroethane	<1	<1
cis - 1,2 - DCE	<0.5	<0.5
trans - 1,2 - DCE	<0.5	<0.5
Vinyl Chloride	<1	<1
1,2 - DCA	<0.5	2.1

CPT-7		
Date	2/15/96	
ft. bgs	22 (4)	43
Chlorobenzene	-	<0.5
1,2 - DCB	-	<0.5
1,3 - DCB	-	<0.5
1,4 - DCB	-	<0.5
1,1 - DCA	-	<0.5
Chloroethane	-	<1
cis - 1,2 - DCE	-	<0.5
trans - 1,2 - DCE	-	<0.5
Vinyl Chloride	-	<1
1,2 - DCA	-	0.85

CPT-1		
Date	2/15/96	
ft. bgs	11	34
Chlorobenzene	25	<0.5
1,2 - DCB	46	<0.5
1,3 - DCB	4.3	<0.5
1,4 - DCB	25	<0.5
1,1 - DCA	<2.5	<0.5
Chloroethane	<5	<1
cis - 1,2 - DCE	<2.5	<0.5
trans - 1,2 - DCE	<2.5	<0.5
Vinyl Chloride	<5	<1
1,2 - DCA	<2.5	0.87

CPT-3		
Date	2/17/96	
ft. bgs	11	37
Chlorobenzene	<1.3	<0.5
1,2 - DCB	40	<0.5
1,3 - DCB	11	<0.5
1,4 - DCB	4.2	<0.5
1,1 - DCA	16	<0.5
Chloroethane	<2.5	<1
cis - 1,2 - DCE	<1.3	<0.5
trans - 1,2 - DCE	<1.3	<0.5
Vinyl Chloride	<2.5	<1
1,2 - DCA	<2.5	0.76



(Approximate Scale in Feet)

LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊙ Soil Boring
- ▲ CPT/PIPP Sampling Location
- Approximate Location of Former Underground Storage Tanks

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
- 1,2-DCA = 1,2-Dichloroethane

Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.
3. Concentrations in ug/L (ppb).
4. Insufficient groundwater to allow sample collection.

Erler & Kalinowski, Inc.

Halogenated Volatile Organic Compounds in Groundwater

4200 Alameda Avenue
Oakland, CA
May 1996
EKI 930040.02
Figure 7

February 21, 1996

Erler & Kalinowski, Inc.
1730 S. Amphlett Boulevard, Suite 230
San Mateo, California 94402

RECEIVED

FEB 23 1996

Attention: Beth Lamb

ERLER & KALINOWSKI, INC.

Project Name: Ekotek Facility, Oakland, California

Project No.: 96-380-06606

Enclosed please find copies of the cone penetration test (CPT) data and results for the above referenced project.

Telephone

714.724.1776

The cone penetration tests conducted for this project consisted of pushing an instrumented cone-tipped probe into the ground while simultaneously recording the tip resistance and side friction resistance of the soil during penetration.

Facsimile

714.724.1557

The cone penetration tests described in this report were conducted in general accordance with the current ASTM specifications (ASTM D3441-94) using an electronic cone penetrometer.

The CPT equipment operated by EARTH TECH, Inc., consists of a cone assembly mounted at the end of a series of hollow sounding rods. A set of hydraulic rams is used to continuously push the cone and rods into the soil at a rate of 20-mm per second (approximately 4 feet per minute) while the cone tip resistance and sleeve friction resistance are recorded every 25-mm (approximately 1-inch) and stored in digital form. A specially designed all wheel drive 23-ton truck provides the required reaction weight for pushing the cone assembly and is also used to transport and house the test equipment.

The cone penetrometer assembly used for this project consists of a conical tip and a cylindrical friction sleeve. The conical tip has a 60° apex angle and a diameter of 35.6-mm (1.40-inch) resulting in a projected cross-sectional area of 10 cm² (1.5 square inches). The cylindrical friction sleeve is 133-mm (5.25-inch) in length and has an outside diameter of 35.8-mm (1.41-inch), resulting in a surface area of 150 cm² (23 square inches).

The interior of the cone penetrometer is instrumented with strain gauges that allow simultaneous measurement of cone tip and friction sleeve resistance during penetration. Continuous electric signals from the strain gauges are transmitted by a shielded cable in the sounding rods to the PC-based data acquisition hardware in the CPT truck. The sounding log is also displayed on a monitor.

The preliminary CPT data processing was performed using the truck mounted computer based data acquisition and presentation system. The computer generated plots delivered to you in the

C:\CPT\022196BH.DOC

E A R T H  T E C H

field include cone resistance, friction resistance, friction ratio (and optional pore pressure ratio) versus depth at a user selectable scale. The final plots and tables included with this letter have been examined for any anomalies such as spikes, and required corrections made.

Soil Behavior Type and other parameter interpretations are based on the following reference: Robertson, P.K. and Campanella, R.G., 1989 "Guidelines for Geotechnical Design using the Cone Penetrometer Test and CPT with Pore Pressure Measurement." Soil Mechanics series No. 120, Civil Engineering Department, University of British Columbia, Vancouver, B.C., V6T 1Z4, September 1989.

Soil Behavior Type interpretations are based on the following reference:

Douglas, B.J. and R.S. Olsen (1981), "Soil Classification Using Electronic Penetrometer," Proceedings, Cone Penetration Testing Experience, Session Sponsored by the Geotechnical Engineering Division, ASCE National Convention, St. Louis, October, pp. 209-227.

Some care is recommended when using the Soil Behavior Type tabulations. If a tabulation depth happens to fall on a soil layer interface, or a seam of soil differing from the rest of the layer, the tabulated data can be misleading. The solution to this problem is the proper use of the CPT logs. The continuous penetration resistance is the primary source of profile description; the Soil Behavior Type tabulations are supplemental. The continuous logs should be examined and layer boundaries delineated in accordance with the project requirements. The Soil Behavior Type tabulations are only representative of the response of the soil to the large shear deformations imposed during cone penetration. This is not necessarily a prediction of grain size distribution. However, it has been found that Soil Behavior Types generally agree well with the soil types defined in accordance with the grain size distribution methods such as used in the Unified Soil Classification System.

Computer generated cone penetration test plots and the results of cone penetrometer test data are included at Attachment A to this letter report.

Limitations

EARTH TECH presents the attached data in accordance with ASTM Standard D3441-86 and generally accepted Cone Penetration Test practices and standards.

The attached data further relates only to the specific project location discussed in the data.

Judgement may be required to verify the CPT Soil Behavior Interpretations and other estimated parameter values.

Erler & Kalinowski, Inc.
February 21, 1996
Page 3

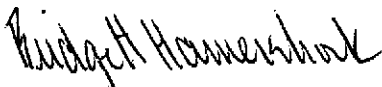
The "CLIENT" may distribute this data or excerpts therefrom provided the following statement is prominently displayed and included with the distribution:

"Neither CLIENT nor EARTH TECH make any guarantee or warranty, express or implied, regarding this data. THE USE OF THIS INFORMATION SHALL BE AT THE USER'S SOLE RISK REGARDLESS OF ANY FAULT OR NEGLIGENCE OF THE CLIENT OR EARTH TECH."

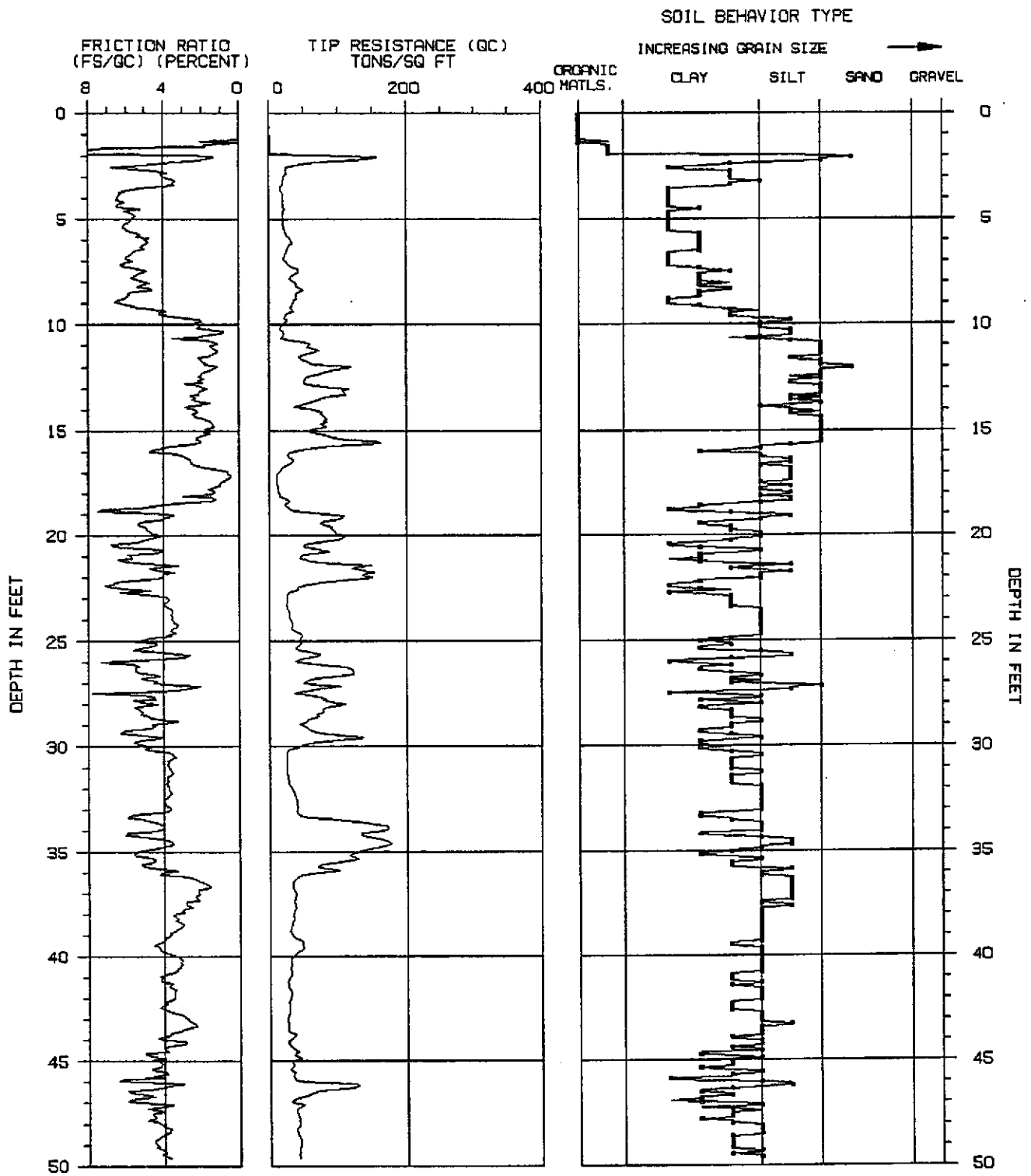
Please feel free to call me if you have any questions.

Very truly yours,

EARTH TECH, INC.



Bridgett Hamershock
Project Administrator



TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU. SOIL MECHANICS SERIES #120. UNIVERSITY OF BRITISH COLUMBIA, SEPTEMBER 1989, BY P.K. ROBERTSON AND R.O. CRIPPELLA.

CONE PENETRATION TEST

SOUNDING NUMBER: CPT-1

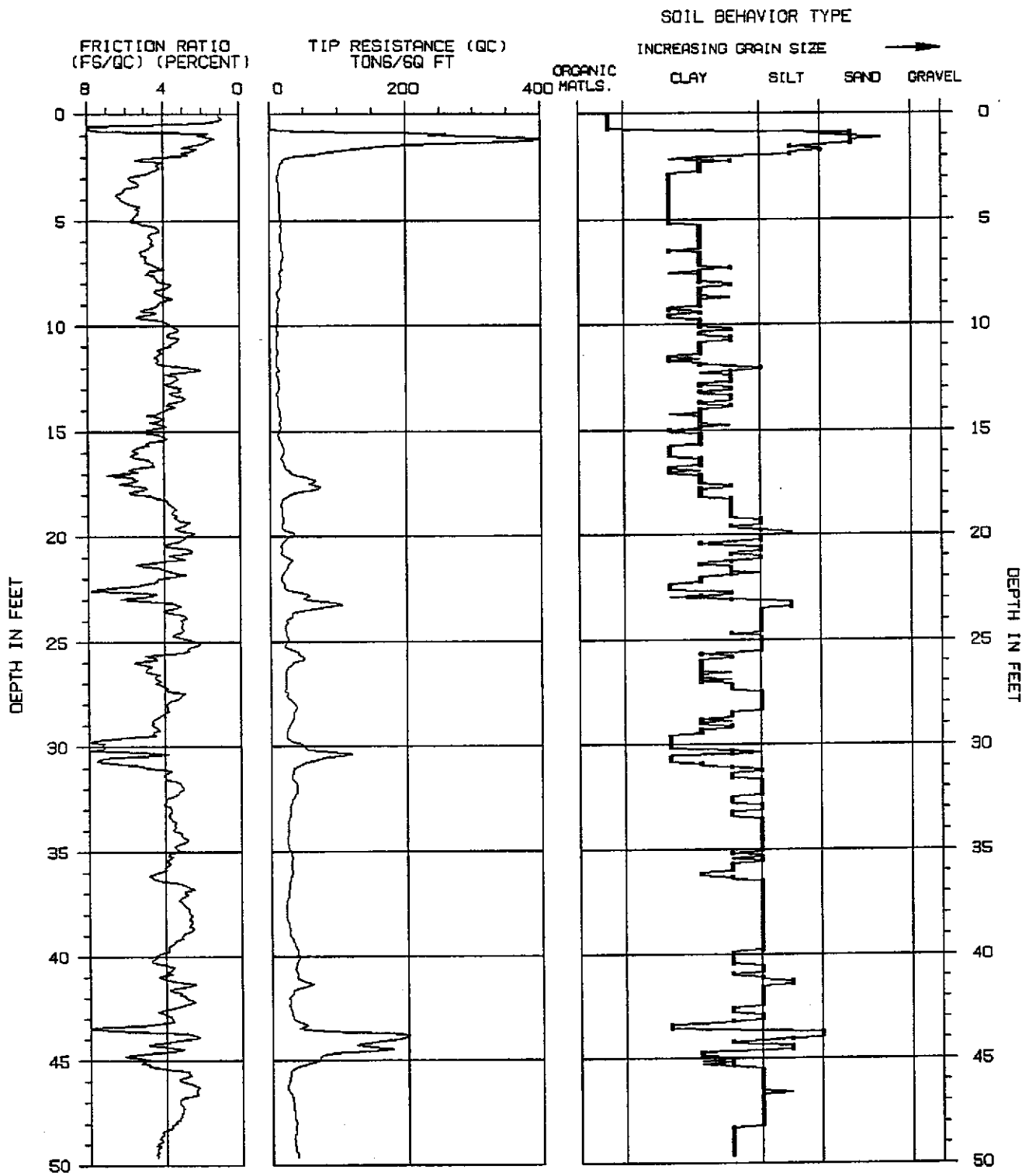
PROJECT NAME : EKI/EKOTEK

CONE/RIG : 473/RIG3/MR.TG

PROJECT NUMBER : 96-381-06606

DATE/TIME: 02-15-96 06:44





TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU. SOIL MECHANICS SERIES #120. UNIVERSITY OF BRITISH COLUMBIA, SEPTEMBER 1989. BY P.K. ROBERTSON AND R.G. CAMPANELLA.

CONE PENETRATION TEST

SOUNDING NUMBER: CPT-7

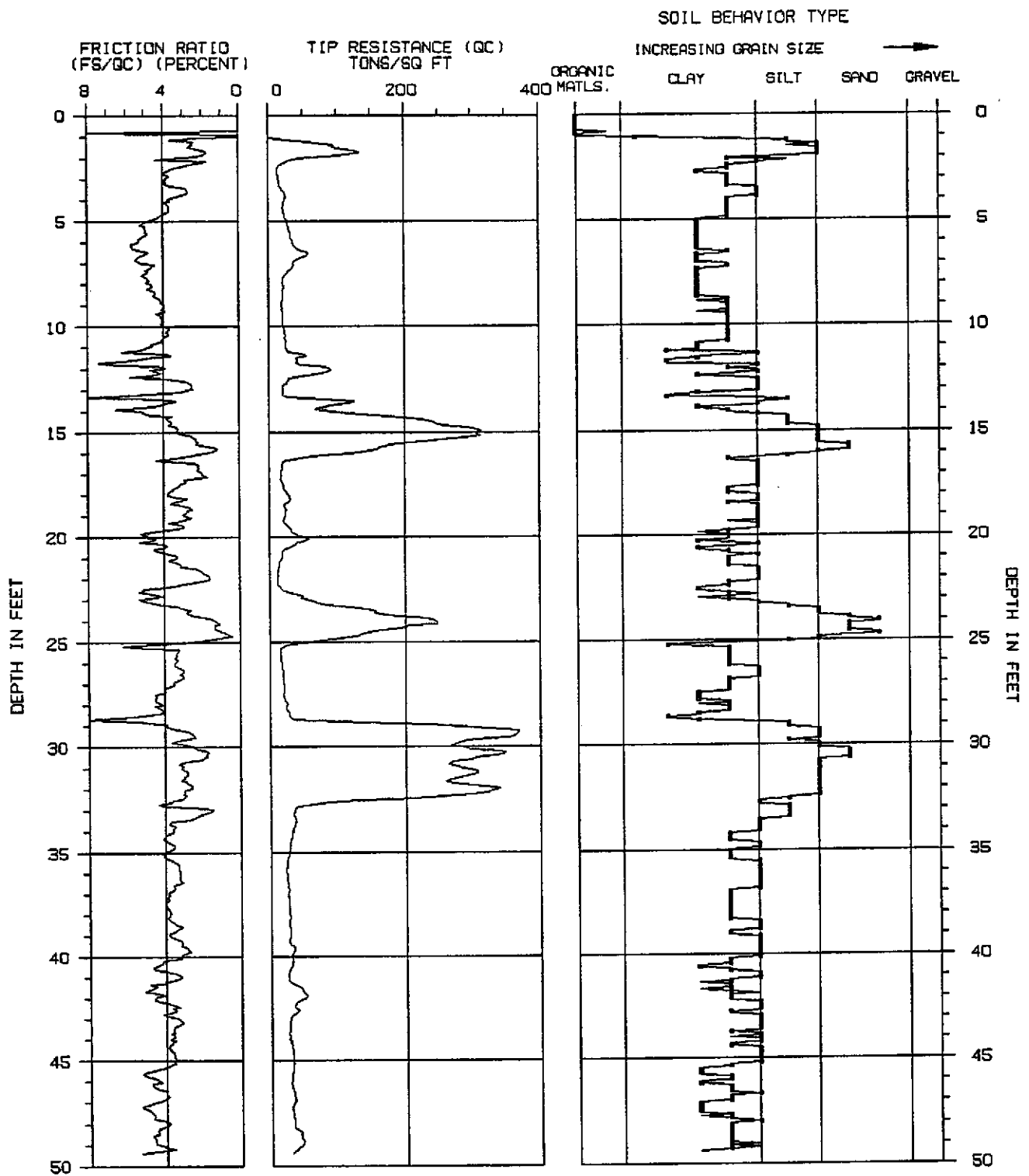
PROJECT NAME : EKI/EKOTEK

CONE/RIG : 473/RIG3/MR.TG

PROJECT NUMBER : 96-381-06606

DATE/TIME: 02-15-96 11:56

EARTH  TECH



TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU, SOIL MECHANICS SERIES #120, UNIVERSITY OF BRITISH COLUMBIA, SEPTEMBER 1989, BY P.K. ROBERTSON AND R.D. CRAPANZELLA.

CONE PENETRATION TEST

SOUNDING NUMBER: CPT-5

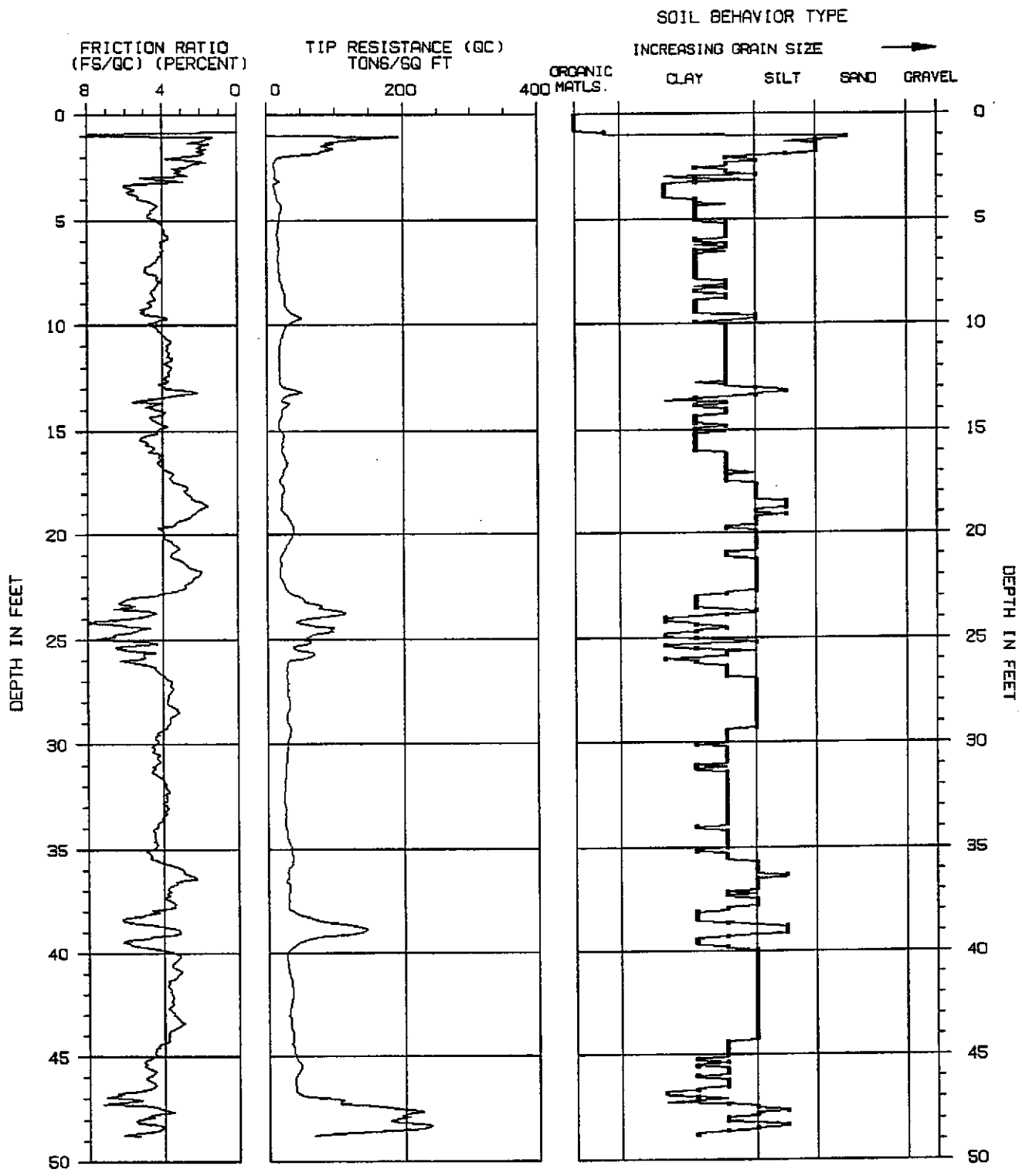
PROJECT NAME : EKI/EKOTEK

CONE/RIG : 473/RIG3/MR.TG

PROJECT NUMBER : 96-381-06606

DATE/TIME: 02-16-96 06:37





TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU, SOIL MECHANICS SERIES #120, UNIVERSITY OF BRITISH COLUMBIA, SEPTEMBER 1989, BY P.K. ROBERTSON AND R.O. CRIPPELLA.

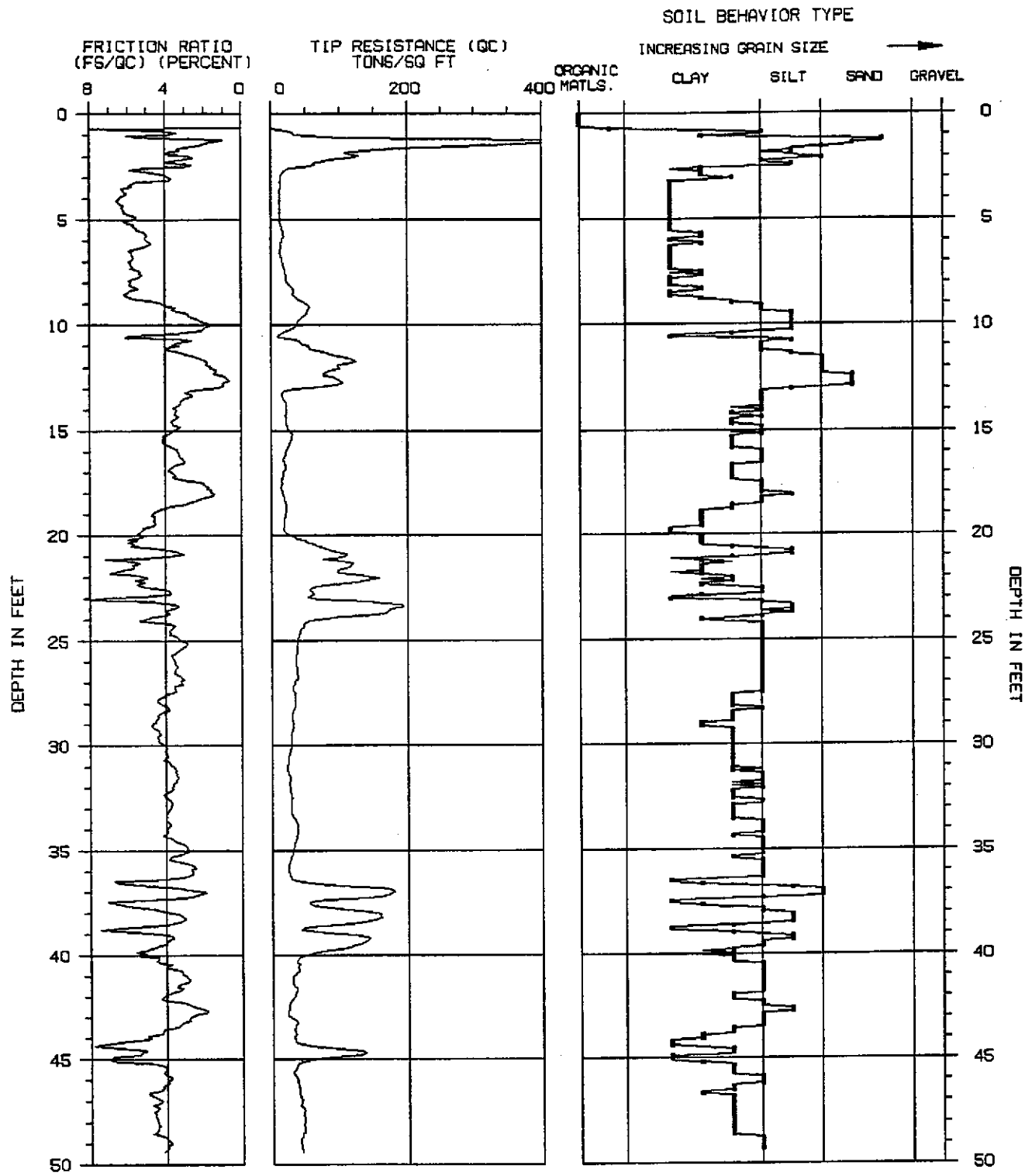
CONE PENETRATION TEST

SOUNDING NUMBER: CPT-4

PROJECT NAME : EKI/EKOTEK
PROJECT NUMBER : 96-381-06606

CONE/RIG : 473/RIG3/MR.TG
DATE/TIME : 02-16-96 11:00





TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU, SOIL MECHANICS SERIES #120, UNIVERSITY OF BRITISH COLUMBIA, SEPTEMBER 1989, BY P.K. ROBERTSON AND R.D. CAMPANELLA.

CONE PENETRATION TEST

SOUNDING NUMBER: CPT-3

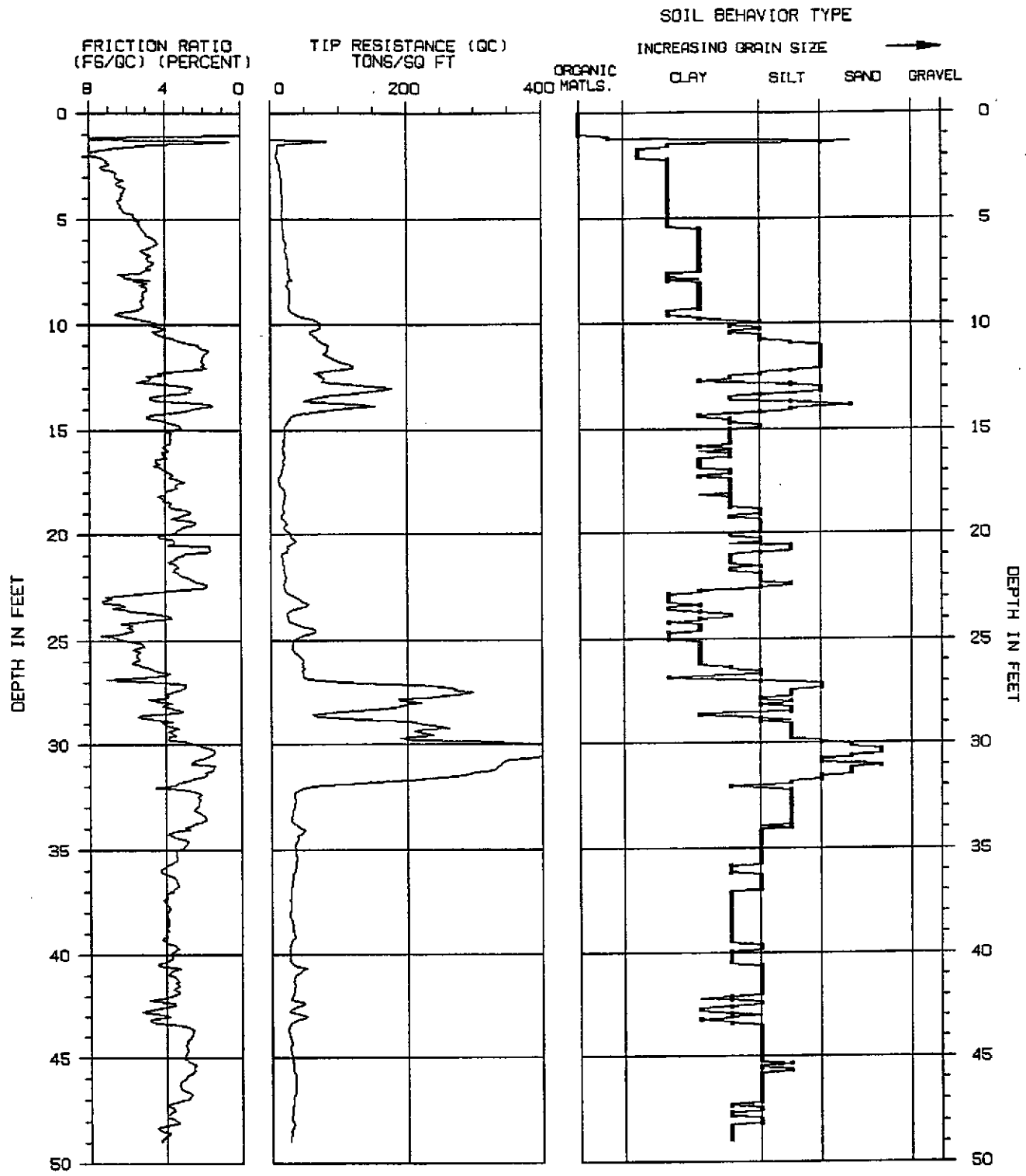
PROJECT NAME : EKI/EKOTEK

CONE/RIG : 473/RIG3/MR.TG

PROJECT NUMBER : 96-381-06606

DATE/TIME: 02-16-96 14:11





TIP RESISTANCE NOT CORRECTED FOR END AREA EFFECT

ASSUMED TOTAL UNIT WT = 115 PCF

ASSUMED DEPTH OF WATER TABLE = 11.0 FT

SOIL BEHAVIOR TYPE INTERPRETATIONS BASED ON: GUIDELINES FOR GEOTECHNICAL DESIGN USING THE CPT AND CPTU. SOIL MECHANICS SERIES #120. UNIVERSITY OF BRITISH COLUMBIA. SEPTEMBER 1989. BY P.K. ROBERTSON AND R.G. CAMPANELLA.

CONE PENETRATION TEST

SOUNDING NUMBER: CPT-6

PROJECT NAME : EKI/EKOTEK
PROJECT NUMBER : 96-381-06606

CONE/RIG : 473/RIG3/MR.TG
DATE/TIME: 02-17-96 06:38





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Lab Proj. ID: 9602C85	Sampled: 02/16/96 Received: 02/16/96 Analyzed: see below Reported: 03/01/96
Attention: Andy Safford		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602C85-01 Sample Desc: SOLID,CPT-1-10S				
Arsenic	mg/Kg	02/24/96	5.0	N.D.
Lab No: 9602C85-02 Sample Desc: LIQUID,CPT-1-11W				
Arsenic	mg/L	02/29/96	0.0050	0.017
Lab No: 9602C85-03 Sample Desc: LIQUID,CPT1-34W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602C85-04 Sample Desc: LIQUID,CPT7-43W				
Arsenic	mg/L	02/29/96	0.0050	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erlar & Kainowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Lab Proj. ID: 9602C85	Sampled: Received: 02/16/96 Analyzed: see below Reported: 03/01/96
Attention: Andy Safford		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602C85-06 Sample Desc: LIQUID, Method Blank				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602C85-07 Sample Desc: SOLID, Method Blank				
Arsenic	mg/Kg	02/24/96	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Eler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT-1-10S
Matrix: SOLID
Analysis Method: EPA 8010
Lab Number: 9602C85-01

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/26/96
Reported: 02/28/96

QC Batch Number: GC0223968010EXA
Instrument ID: GCHP16

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	200	N.D.
Bromoform	200	N.D.
Bromomethane	400	N.D.
Carbon Tetrachloride	200	N.D.
Chlorobenzene	200	N.D.
Chloroethane	400	N.D.
2-Chloroethylvinyl ether	400	N.D.
Chloroform	200	N.D.
Chloromethane	400	N.D.
Dibromochloromethane	200	N.D.
1,2-Dichlorobenzene	200	280
1,3-Dichlorobenzene	200	N.D.
1,1-Dichlorobenzene	200	N.D.
1,1-Dichloroethane	200	N.D.
1,2-Dichloroethane	200	N.D.
1,1-Dichloroethene	200	N.D.
cis-1,2-Dichloroethene	200	N.D.
trans-1,2-Dichloroethene	200	N.D.
1,2-Dichloropropane	200	N.D.
cis-1,3-Dichloropropene	200	N.D.
trans-1,3-Dichloropropene	200	N.D.
Methylene chloride	2000	N.D.
1,1,2,2-Tetrachloroethane	200	N.D.
Tetrachloroethene	200	N.D.
1,1,1-Trichloroethane	200	N.D.
1,1,2-Trichloroethane	200	N.D.
Trichloroethene	200	N.D.
Trichlorofluoromethane	200	N.D.
Vinyl chloride	400	N.D.
Freon 113	400	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	68

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

SEQUOIA ANALYTICAL - ELAP #1210

Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT-1-10S
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C85-01

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/26/96
Reported: 02/28/96

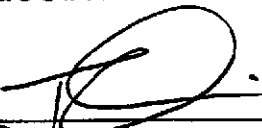
QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	200	4700
Chromatogram Pattern: Unidentified HC	C9-C24	NonDiesel
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



T. Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT-1-10S Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9602C85-01	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/23/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022396BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1200
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	2.4
Xylenes (Total)	0.50	18
Chromatogram Pattern: Weathered Gas		C8-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

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

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager





Erlar & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT-1-10S
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C85-01

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/26/96
Reported: 02/28/96

QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil	2000	5100
Chromatogram Pattern: Unidentified HC	C16-C36	Non-M.O.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT-1-11W
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602C85-02

Sampled: 02/16/96
Received: 02/16/96
Analyzed: 02/26/96
Reported: 02/28/96

QC Batch Number: GC022496801008A
Instrument ID: GCHP8

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	25
Chloroethane	5.0	N.D.
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	46
1,3-Dichlorobenzene	2.5	4.3
1,4-Dichlorobenzene	2.5	25
1,1-Dichloroethane	2.5	N.D.
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.
1,1,1,2-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.
Freon 113	5.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT-1-11W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C85-02	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
Attention: Andy Safford		

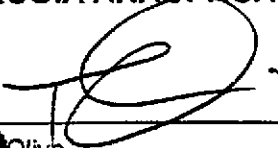
QC Batch Number: GC022296BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2100
Benzene	5.0	140
Toluene	5.0	N.D.
Ethyl Benzene	5.0	15
Xylenes (Total)	5.0	28
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	126

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT-1-11W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-02	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/27/96 Reported: 02/28/96
Attention: Andy Safford		


QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	5000	83,000
Chromatogram Pattern: Unidentified HC	C9-C24	NonDiesel
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT-1-11W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-02	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/27/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	50000	86,000
Chromatogram Pattern: Unidentified HC	C16-C36	Non-M.O.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Project Manager





Erlar & Kainowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT1-34W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C85-03	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/27/96 Reported: 02/28/96
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QC Batch Number: GC022696801008A
Instrument ID: GCHP8


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	0.61
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	27
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	0.87
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	0.60
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	1.5
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Freon 113	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	100

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

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT1-34W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9602C85-03

Sampled: 02/16/96
Received: 02/16/96
Analyzed: 02/22/96
Reported: 02/28/96

Attention: Andy Safford

QC Batch Number: GC022296BTEX20A
Instrument ID: GCHP20

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	0.72
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	81

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

SEQUOIA ANALYTICAL - ELAP #1210


T. Olive
Product Manager





Erler & Kallnowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT1-34W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C85-03

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

Attention: Andy Safford

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	320
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	121

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kainowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT1-34W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C85-03

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	121

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

SEQUOIA ANALYTICAL - ELAP #1210


Tom Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT7-43W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C85-04	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/26/96 Reported: 02/28/96
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QC Batch Number: GC022496801008A
Instrument ID: GCHP8


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	0.85
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.
Freon 113	1.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	85

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT7-43W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C85-04	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
Attention: Andy Safford		

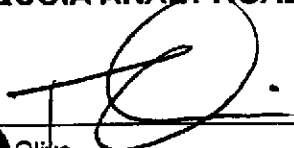
QC Batch Number: GC022296BTEX20A
Instrument ID: GCHP20

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	76

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT7-43W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-04	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	150
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	106

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT7-43W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-04	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
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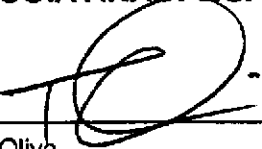
QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 106

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C85-06	Sampled: Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022296BTEX20A
Instrument ID: GCHP20

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	86

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kallnowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: Method Blank
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C85-06

Sampled:
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP4A

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	96

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

SEQUOIA ANALYTICAL - ELAP #1210


Tom Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-06	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 96

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C85-06	Sampled: Received: 02/16/96 Analyzed: 02/26/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022496801008A
Instrument ID: GCHP8

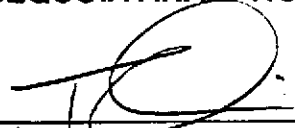
Halogenated Volatile Organics (EPA 8010)

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.
Dichloroethane	0.50	N.D.
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.
1,1,1,2-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.
Freon 113	1.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	75

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-07	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/24/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9602C85-07	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/23/96 Reported: 02/28/96
Attention: Andy Safford		

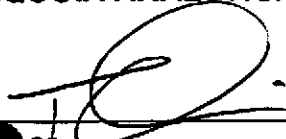
QC Batch Number: GC022396BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602C85-07	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/24/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil Chromatogram Pattern:	10	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 90

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8010 Lab Number: 9602C85-07	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/26/96 Reported: 02/28/96
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QC Batch Number: GC0223968010EXA
Instrument ID: GCHP16

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
Dichloroethane	5.0	N.D.
Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Freon 113	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	78

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

SEQUOIA ANALYTICAL - ELAP #1210

Olive
Act Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotec
Sample Descript: Method Blank
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602C85-08

Sampled:
Received: 02/16/96
Analyzed: 02/27/96
Reported: 02/28/96

QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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.
Freon 113	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


Todd Olive
Project Manager

Page:





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402
Attention: Andy Safford

Client Proj. ID: 930040.02/Ekotech
Lab Proj. ID: 9602C85

Received: 02/16/96
Reported: 03/01/96

LABORATORY NARRATIVE

8010 Note: Samples CPT-1-10S and CPT-1-11W were diluted due to high non-target analytes, therefore, the detection limits were raised.

TEPH Note: Q= The surrogates were diluted out of samples CPT-1-10S and CPT-1-11W.
The total extractable petroleum hydrocarbon and fuel fingerprint chromatogram patterns for samples CPT1-34W and CPT7-43W do not resemble a petroleum product. The quantitated values are most likely due to some other type of organic matter in the water samples.

SEQUOIA ANALYTICAL


Todd Olive
Project Manager





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotech
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT4-10.5S
 Attention: Andy Safford Work Order #: 9602C85 01, 07 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0223966010MDG	ME0223966010MDG	ME0223966010MDG	ME0223966010MDG
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	0.068	N.D.	9.6	22
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/24/96	02/24/96	02/24/96	02/24/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	10 mg/Kg	10 mg/Kg	10 mg/Kg	10 mg/Kg
Result:	9.6	9.0	18	30
MS % Recovery:	95	90	84	80
Dup. Result:	9.5	8.8	18	31
MSD % Recov.:	94	88	84	90
RPD:	1.0	2.2	0.0	3.3
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/24/96	02/24/96	02/24/96	02/24/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	96	98	98
LCS % Recov.:	100	96	98	98

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125
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Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
 Todd Olive
 Project Manager

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

9602C85.ERL <1>





Erier & Kalinowski, Inc.	Client Project ID: 930040.02/Ekotek	
1730 So. Amphlett Blvd., Suite 320	Matrix: LIQUID	
San Mateo, CA 94402	Sample Descript: CPT-1-11W	
Attention: Andy Safford	Work Order #: 9602C85 02-04, 06	Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Arsenic
QC Batch#: ME0229967000MDC
Analy. Method: EPA 206.2
Prep. Method: EPA 3020

Analyst: W.Thant
MS/MSD #: 9602C85-02-MSD
Sample Conc.: 0.017
Prepared Date: 02/22/96
Analyzed Date: 02/22/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

Result: 0.068
MS % Recovery: 102

Dup. Result: 0.070
MSD % Recov.: 106

RPD: 2.9
RPD Limit: 0-30



LCS #: LCS022996-LCS

Prepared Date: 02/29/96
Analyzed Date: 02/29/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

LCS Result: 0.046
LCS % Recov.: 92

MS/MSD LCS Control Limits	75-125
--	--------

Please Note:
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SEQUOIA ANALYTICAL

[Signature]
 Todd Olive
 Project Manager

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

9602C85.ERL <2>





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

Client Project ID: 930040.02/Ekotec
Matrix: SOLID
Sample Descript: CPT4-10.5S
Work Order #: 9602C85 01, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC0223960HBPEXA
Analy. Method: EPA 8015M
Prep. Method: EPA 3550/DHS

Analyst: J. Minkel
MS/MSD #: 9602C57-04-MSD
Sample Conc.: N.D.
Prepared Date: 02/23/96
Analyzed Date: 02/24/96
Instrument I.D.#: GCHP5A
Conc. Spiked: 25 mg/Kg

Result: 23
MS % Recovery: 92

Dup. Result: 20
MSD % Recov.: 80

RPD: 14
RPD Limit: 0-50

LCS #: LCS022396-LCS
Prepared Date: 02/26/96
Analyzed Date: 02/27/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/Kg
LCS Result: 16
LCS % Recov.: 64

MS/MSD
LCS 50-150
Control Limits

Please Note:
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602C85.ERL <3>





**Sequoia
Analytical**

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Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

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

Client Project ID: 930040.02/Ekotec
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602C85 02-04, 06

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0223960HBPEXZ
Analy. Method: EPA 8015M
Prep. Method: EPA 3520

Analyst: J. Minkel
MS/MSD #: 9602B78-06-XSD
Sample Conc.: 150
Prepared Date: 02/23/96
Analyzed Date: 02/25/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 1000 µg/L

Result: 1100
MS % Recovery: 95

Dup. Result: 1100
MSD % Recov.: 95

RPD: 0.0
RPD Limit: 0-50

LCS #: LCS022396-LCS

Prepared Date: 02/23/96
Analyzed Date: 02/25/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 1000 µg/L

LCS Result: 970
LCS % Recov.: 97

**MS/MSD
LCS
Control Limits** 50-150

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

Please Note:

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

9602C85.ERL <4>





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotec
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT4-10.5S
 Attention: Andy Safford Work Order #: 9602C85 01, 07 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022396BTEXEXA	GC022396BTEXEXA	GC022396BTEXEXA	GC022396BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Padilla	J. Padilla	J. Padilla	J. Padilla
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/23/96	02/23/96	02/23/96	02/23/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.19	0.20	0.19	0.59
MS % Recovery:	95	100	95	98

Dup. Result:	0.18	0.19	0.19	0.57
MSD % Recov.:	90	95	95	95

RPD:	5.4	5.1	0.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/23/96	02/23/96	02/23/96	02/23/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.20	0.20	0.60
LCS % Recov.:	95	100	100	100

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150
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Please Note:

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SEQUOIA ANALYTICAL

Todd Olive
 Project Manager

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

9602C85.ERL <5>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602C85 02-04, 06

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022296BTEX20A	GC022296BTEX20A	GC022296BTEX20A	GC022296BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9602657-04-XSD	9602657-04-XSD	9602657-04-XSD	9602657-04-XSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/22/96	02/22/96	02/22/96	02/22/96
Analyzed Date:	02/22/96	02/22/96	02/22/96	02/22/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	11	10	10	31
MSD % Recov.:	110	100	100	103
RPD:	9.5	0.0	0.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022296-LCS	LCS022296-LCS	LCS022296-LCS	LCS022296-LCS
Prepared Date:	02/22/96	02/22/96	02/22/96	02/22/96
Analyzed Date:	02/22/96	02/22/96	02/22/96	02/22/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	30
LCS % Recov.:	100	100	100	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602C85.ERL <6>





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotech
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT4-10.5S
 Attention: Andy Safford Work Order #: 9602C85 01, 07 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC0223968010EXA	GC0223968010EXA	GC0223968010EXA
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Li	A. Li	A. Li
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg

Result:	16	19	16
MS % Recovery:	64	76	64
Dup. Result:	18	22	19
MSD % Recov.:	72	88	76
RPD:	12	15	17
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg
LCS Result:	29	26	22
LCS % Recov.:	116	104	88

MS/MSD	LCS	LCS	LCS
Control Limits	30-140	40-130	40-130

Please Note:

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 So. Amphlett Blvd., Suite 320 San Mateo, CA 94402 Attention: Andy Safford	Client Project ID: 930040.02/Ekotek Matrix: LIQUID Sample Descript: XSD Work Order #: 9602C85 02, 04, 06	Reported: Mar 1, 1996
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QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC022496801008A	GC022496801008A	GC022496801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Li	A. Li	A. Li
MS/MSD #:	9602D02-01-XSD	9602D02-01-XSD	9602D02-01-XSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/24/96	02/24/96	02/24/96
Analyzed Date:	02/24/96	02/24/96	02/24/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	24	24	26
MS % Recovery:	96	96	104
Dup. Result:	24	25	27
MSD % Recov.:	96	100	108
RPD:	0.0	4.1	3.8
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	26	26
LCS % Recov.:	108	104	104

MS/MSD LCS Control Limits	30-140	40-130	40-130
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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





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

Client Project ID: 930040.02/Ekotech
 Matrix: LIQUID
 Sample Descript: CPT4-E
 Work Order #: 9602C85 03, 08

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC022696801008A	GC022696801008A	GC022696801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	9602C57-03-MSD	9602C57-03-MSD	9602C57-03-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L

Result:	28	26	26
MS % Recovery:	112	104	104

Dup. Result:	28	27	26
MSD % Recov.:	112	108	104

RPD:	0.0	3.8	0.0
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022796-LCS	LCS022796-LCS	LCS022796-LCS
Prepared Date:	02/27/96	02/27/96	02/27/96
Analyzed Date:	02/27/96	02/27/96	02/27/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	23	23
LCS % Recov.:	100	92	92

MS/MSD LCS Control Limits	30-140	40-130	40-130
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Please Note:

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

SEQUOIA ANALYTICAL


 Todd Olive
 Project Manager



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory: Sequoia

Project Number: EKI 930040.02

Date Sampled: 2/16/95

Project Name: EROCK

Sampled By: Beth Lamb

Source of Samples: PIPP

Report Results To: Andy Safford

Location: OAKLAND CA.

9602C85

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)
	CPT-1-9.55 ⁺	SOIL	1 55 LITER	9:30	8015, TPH-d, TPH-g BTEX	FOR HOLD
01	CPT-1-103	↓	↓		FUEL FINGER PRINT AS MOTOR OIL	NORMAL ANALYSIS
	CPT-1-10.55 ⁺	↓	↓		VOC - 8010 ARSENIC - 7060	HOLD
02	CPT-1-11W	WATER	4 VOA, 1 LITER Amber	9:48		NORMAL
03	CPT-1-54W	"	"	10:28		↓
04	CPT-7-43W	"	"	2:10		↓
	TP-1	"	1 VOA		8010 ONLY	HOLD

Special Instructions:

* SAVE FOR POSSIBLE ANALYSIS

Relinquished By:

Name / Signature / Affiliation

Date Time

Received By:

Name / Signature / Affiliation

BETH LAMB Beth Lamb / EKI	2/16/95 3:30	Andy Safford Sequoia
<i>[Signature]</i>	2/16/95	<i>[Signature]</i> / Sequoia 2/16/95 1640

Chromatogram

Sample Name : GBLK022396A

FileName : S:\GHP_18\0225\223B003.raw

Method : TPH

Start Time : 0.00 min

Scale Factor: -1.0

End Time : 26.99 min

Plot Offset: 15 mV

Sample #: METH BLK

Date : 2/23/96 10:28

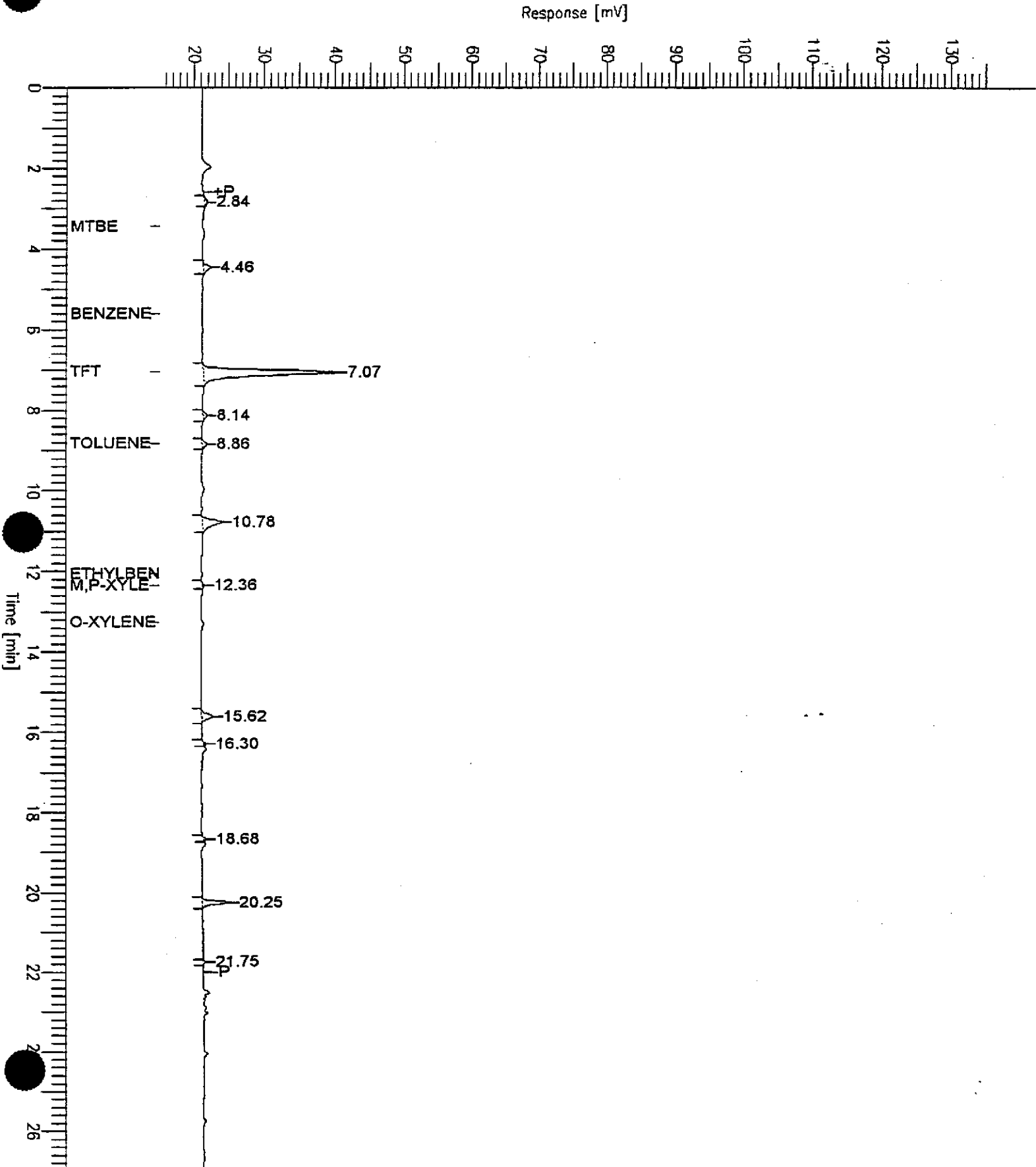
Time of Injection: 2/23/96 10:01

Low Point : 15.19 mV

Plot Scale: 120.0 mV

Page 1 of 1

High Point : 135.19 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022396A

Time : 2/23/96 10:28

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GCHP_18

Channel : B

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : 28417/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 10:01

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223B003.RAW

Result File : S:\GHP_18\0225\223B003.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223B003.RST

Proc Method : S:\GHP_18\MET_SEQ\BTEX

Calib Method : S:\GHP_18\MET_SEQ\BTEX

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	L1QUID (µg/L)	Raw Amt. (ng)
1	2.844	3265		6.5309e-06	0.0003	0.0033
2	4.460	8430		0.0000	0.0008	0.0084
3	7.066	180270	TFT	0.1722	8.6085	86.0845
4	8.138	5140		0.0000	0.0005	0.0051
5	8.855	4814	Toluene	0.0018	0.0895	0.8948
6	10.781	28015		0.0001	0.0028	0.0280
7	12.357	1674	m,p-Xylenes	0.0006	0.0295	0.2950
8	15.621	14178		0.0000	0.0014	0.0142
9	16.303	1582		3.1638e-06	0.0002	0.0016
10	18.678	1921		3.8429e-06	0.0002	0.0019
11	20.253	22263		0.0000	0.0022	0.0223
12	21.751	1464		2.9284e-06	0.0001	0.0015
		273018		0.1747	8.7361	87.3605

Missing Component Report
Component

Expected Retention (Calibration File)

MTBE	3.453
Benzene	5.614
Ethylbenzene	12.065
Toluene	13.263

Report stored in ASCII file: S:\GHP_18\0225\223B003.TX0

Chromatogram

Sample Name : GBLK022396A

FileName : S:\GHP_18\0225\223A003.raw

Method : TPH

Start Time : 0.00 min

Scale Factor: -1.0

End Time : 26.99 min

Plot Offset: 16 mV

Sample #: METH BLK

Date : 2/23/96 10:28

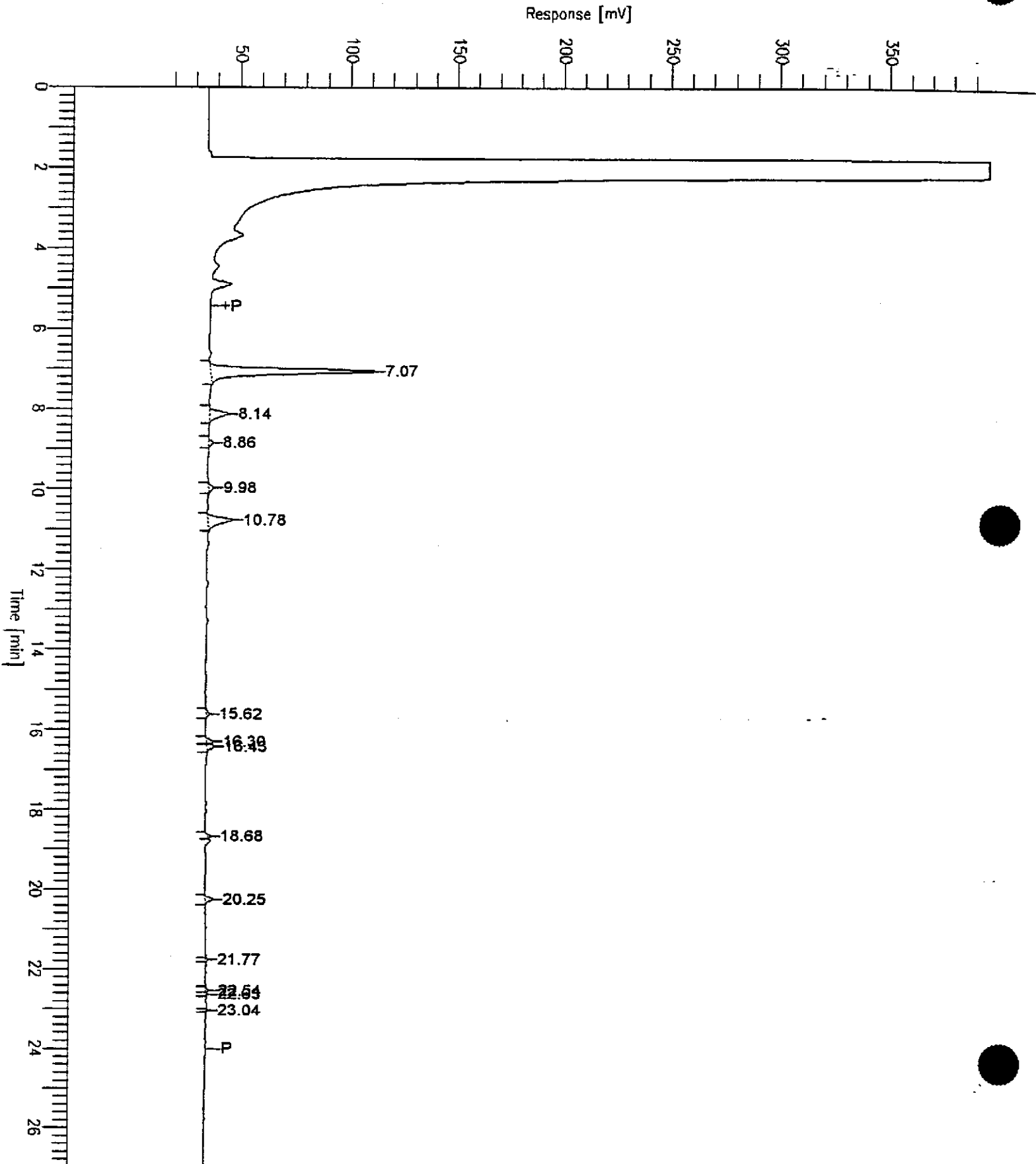
Time of Injection: 2/23/96 10:01

Low Point : 16.21 mV

Plot Scale: 380.0 mV

Page 1 of 1

High Point : 396.21 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022396A

Time : 2/23/96 10:28

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GCHP_18

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : 28417/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 10:01

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223A003.RAW

Result File : S:\GHP_18\0225\223A003.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223A003.RST

Proc Method : S:\GHP_18\MET_SEQ\TPH

Calib Method : S:\GHP_18\MET_SEQ\TPH

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	15.775	331937	TPH-2	0.1020	5.0989	50.9888
		331937		0.1020	5.0989	50.9888

EXPANDED REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	7.067	710078.44	68.14	B
2	8.139	84403.69	8.10	B
3	8.859	14349.33	1.38	B
4	9.979	18565.81	1.78	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
5	10.781	115594.91	11.09	B
6	15.622	11544.51	1.11	B
7	16.304	21452.01	2.06	B
8	16.433	25012.32	2.40	V
9	18.678	7500.70	0.72	B
10	20.254	20999.71	2.02	B
11	21.766	3624.22	0.35	B
12	22.538	4747.90	0.46	B
13	22.630	2292.16	0.22	V
14	23.036	1849.92	0.18	B

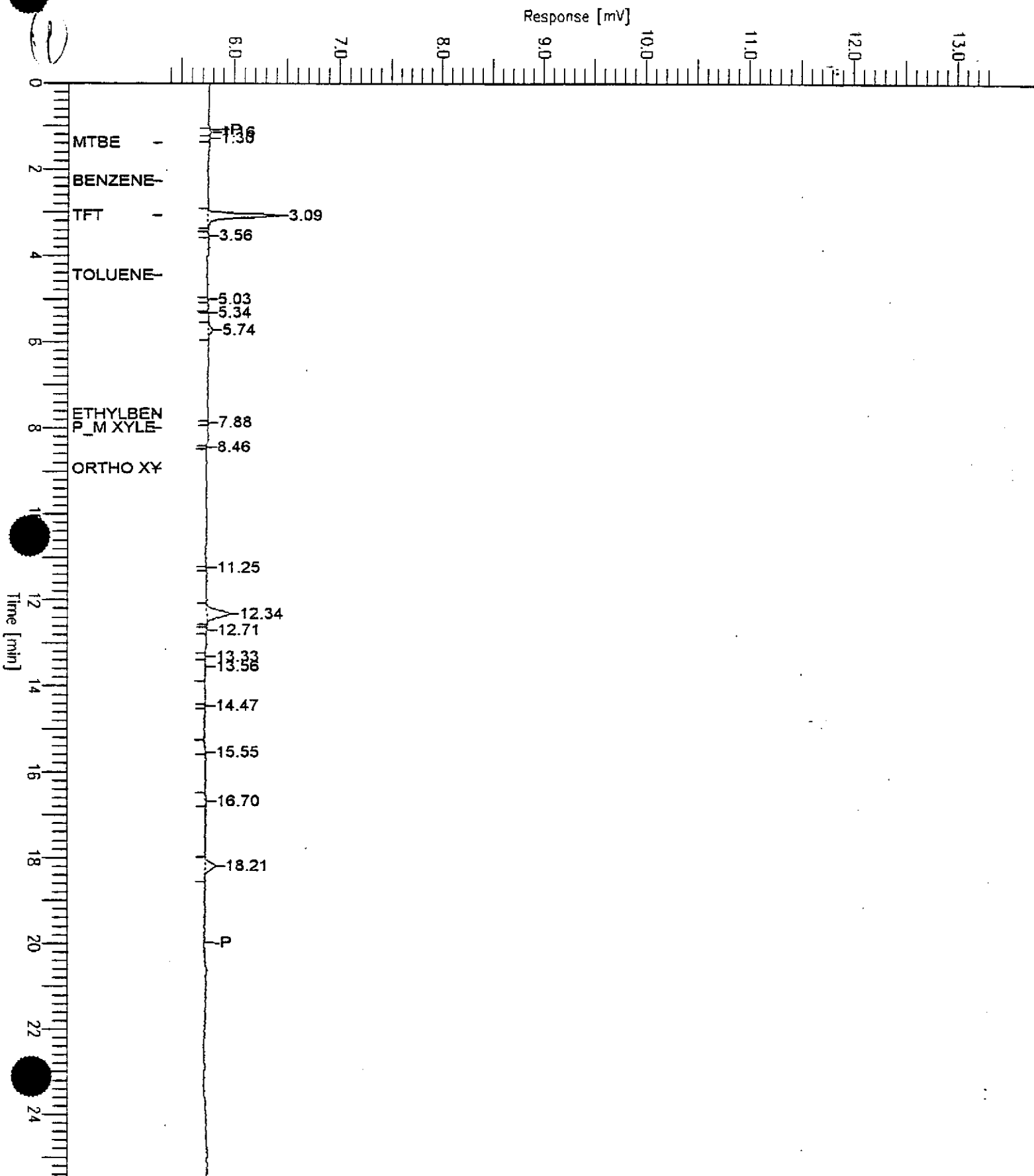
1042015.64 100.00

Chromatogram

Sample Name : GBLK022296A
FileName : S:\GHP_20\0225\221B041.raw
Method : TPH_B
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 25.49 min
Plot Offset: 5 mV

Sample #: METH BLK
Date : 2/22/96 09:07
Time of Injection: 2/22/96 04:53
Low Point : 5.32 mV
Plot Scale: 8.0 mV
High Point : 13.32 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022296A

Time : 2/22/96 09:07

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GHP_20

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 04:53

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\221B041.RAW

Result File : S:\GHP_20\0225\221B041.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\221B041.RST

Proc Method : S:\GHP_20\MET_SEQ\BTEX_B.mth

Calib Method : S:\GHP_20\MET_SEQ\BTEX_B.mth

Sequence File : S:\GHP_20\MET_SEQ\H200221.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)	
3	3.087	4365	TFT	8.5632	1.7126	85.6325	
11	12.338	2385		0.0002	0.0000	0.0024	
18	18.211	1135		0.0001	0.0000	0.0011	

				7886	8.5636	1.7127	85.6360

Missing Component Report

Component	Expected Retention (Calibration File)
BENZENE	2.287
TOLUENE	4.468
ETHYLBENZENE	7.685
P M XYLENES	8.001
ORTHO XYLENE	8.955

Report stored in ASCII file: S:\GHP_20\0225\221B041.TX0

Chromatogram

Sample Name : GBLK022296A

FileName : S:\GHP_20\0225\221A041.raw

Method : TPH_B

Start Time : 0.00 min

Scale Factor: 0.0

Sample #: METH BLK

Date : 2/22/96 09:06

Time of Injection: 2/22/96 04:53

Low Point : 20.00 mV

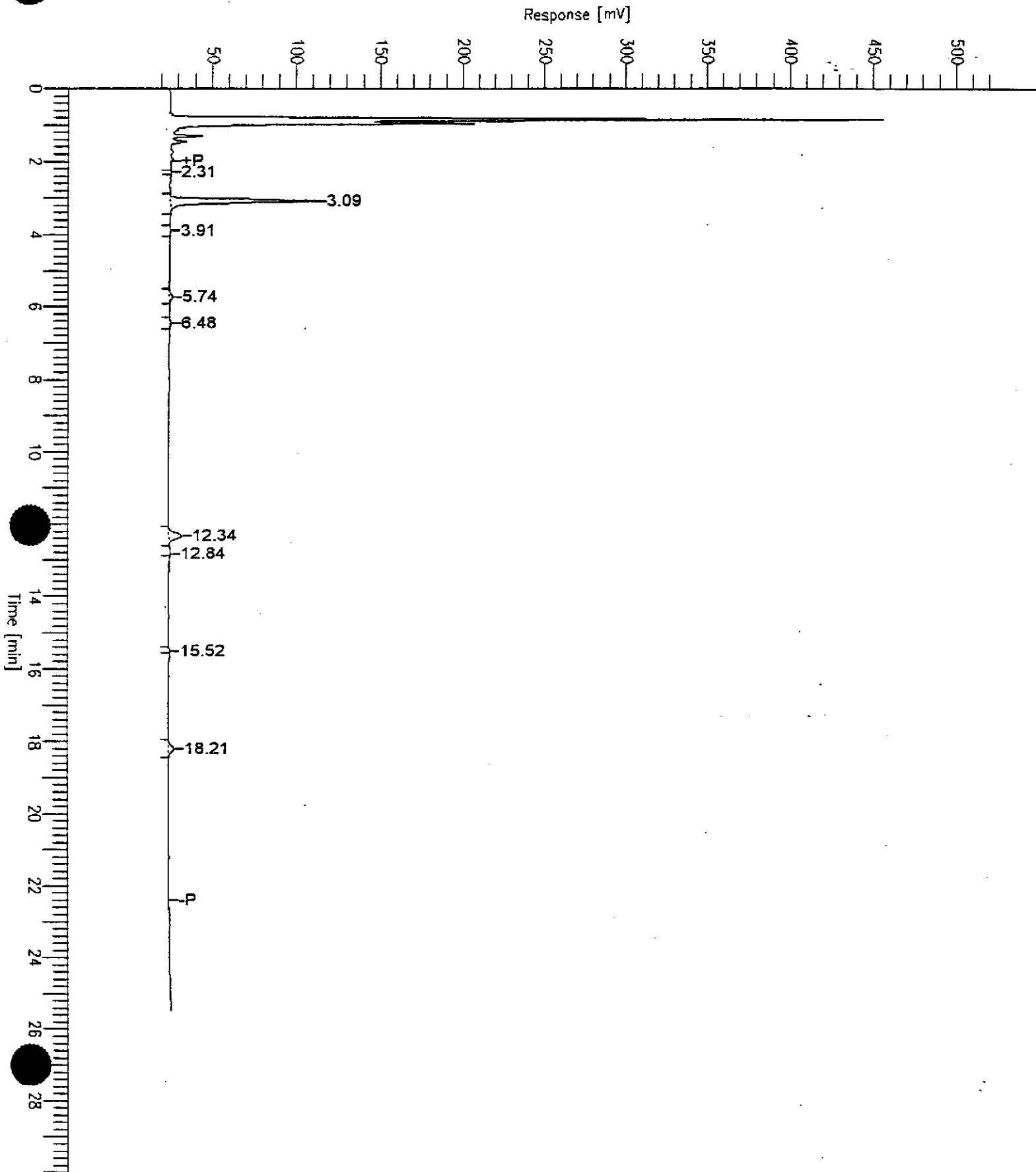
Plot Scale: 500.0 mV

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End Time : 30.00 min

Plot Offset: 20 mV

High Point : 520.00 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022296A

Time : 2/22/96 09:06

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GHP_20

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 04:53

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\221A041.RAW

Result File : S:\GHP_20\0225\221A041.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\221A041.RST

Proc Method : S:\GHP_20\MET_SEQ\TPH_B.mth

Calib Method : S:\GHP_20\MET_SEQ\TPH_B.mth

Sequence File : S:\GHP_20\MET_SEQ\H200221.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	12.895	168522	TPH-2	3.3637	0.6727	33.6370
		168522		3.3637	0.6727	33.6370

Report stored in ASCII file: S:\GHP_20\0225\221A041.TX1

EXPANDED REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	3.091	584540.00	77.62	B
3	3.907	4594.40	0.61	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
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4	5.740	19968.00	2.65	B
	6.478	9198.40	1.22	B
6	12.337	88824.80	11.80	B
7	12.842	3937.60	0.52	B
8	15.515	2190.40	0.29	B
9	18.214	39808.00	5.29	B

753061.60 100.00

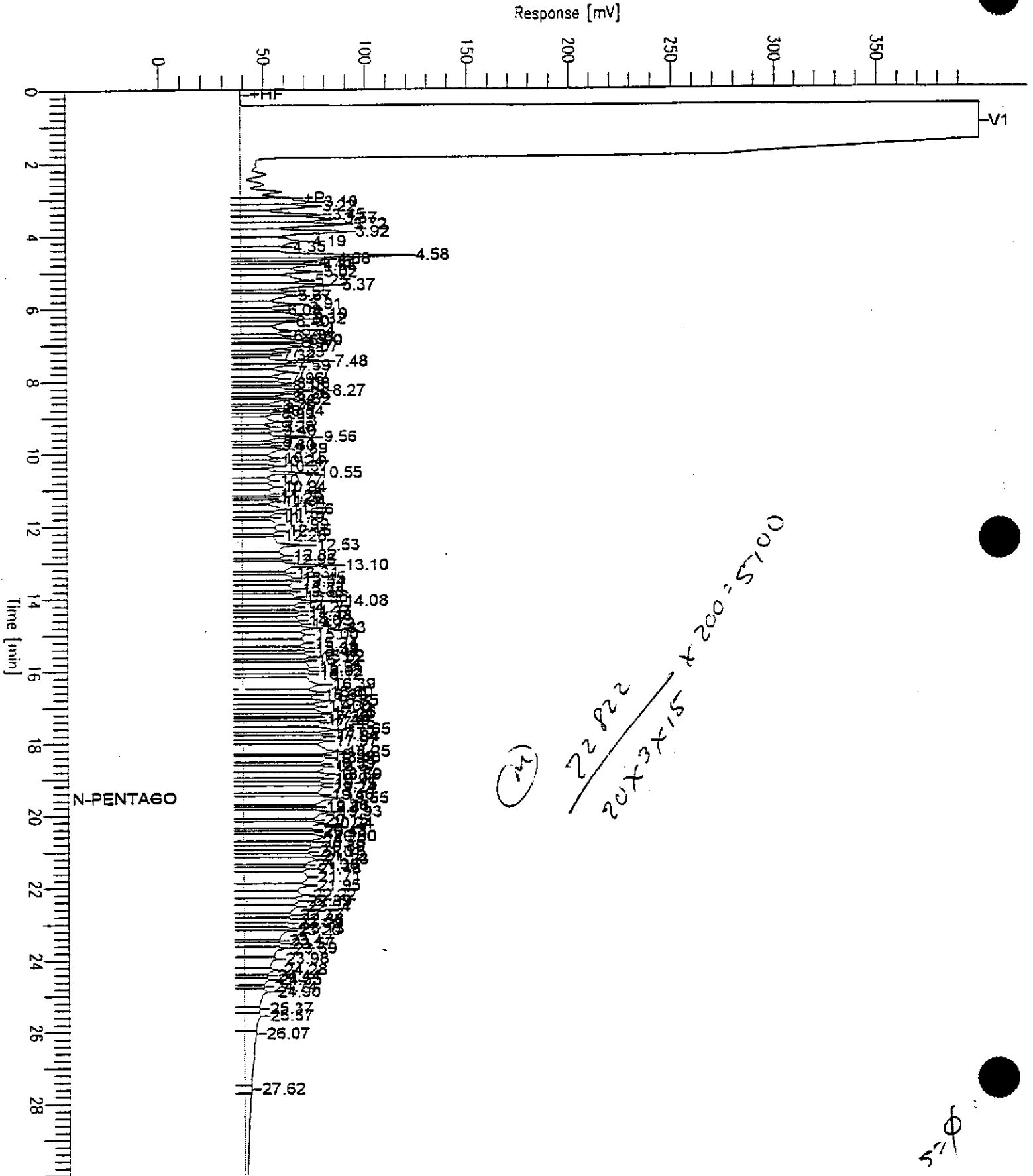
Report stored in ASCII file: S:\GHP_20\0225\221A041.TX2

Sample Name : D9602C85-1 (20:1*200) RESHOT
FileName : S:\GHP_04\0303\226A007.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: CPT-1-105
Date : 2/26/96 21:24
Time of Injection: 2/26/96 20:50
Low Point : 0.00 mV
Plot Scale: 400.0 mV

High Point : 400.00 mV



Software Version: 4.0<3H19>

Sample Name : D9602C85-1 (20:1*200) RESHOT Time : 2/26/96 21:24

Sample Number: CPT-1-105

Study : EKI

Operator : NH

Instrument : GCHP_04

Channel : A

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/57

Interface Serial # : NONE Data Acquisition Time: 2/26/96 20:50

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0303\226A007.RAW

Result File : S:\GHP_04\0303\226A007.RST

Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0303\226A007.RST

Proc Method : S:\GHP_04\MET_SEQ\TPH04A

Calib Method : S:\GHP_04\MET_SEQ\TPH04A

Sequence File : S:\GHP_04\MET_SEQ\H040226.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 200.00

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	12869818	714.0	2379.9	95195.8
11.000	n-C9 to n-C24 TPH-D	24069631	1400.5	4668.2	186729.5
16.950	n-C9 to n-C40 Total	34447677	2296.5	7655.0	306201.6
19.350	n-C16 to n-C36 M/Oil	22821510	1521.4	5071.4	202857.9
		94208635	5932.4		

Report stored in ASCII file: S:\GHP_04\0303\226A007.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.100		323312	71.8	2873.9
2	3.223		261697	58.2	2326.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
3	3.451		259574	57.7	2307.3
4	3.565		369025	82.0	3280.2
5	3.719		368814	82.0	3278.3
6	3.918		444450	98.8	3950.7
7	4.187		380582	84.6	3382.9
8	4.345		154496	34.3	1373.3
9	4.582		521431	115.9	4634.9
10	4.677		206112	45.8	1832.1
11	4.760		125630	27.9	1116.7
12	4.845		218269	48.5	1940.2
13	5.020		282326	62.7	2509.6
14	5.252		332501	73.9	2955.6
15	5.373		333107	74.0	2961.0
16	5.550		115835	25.7	1029.6
17	5.666		260745	57.9	2317.7
18	5.910		221642	49.3	1970.1
19	6.081		114183	25.4	1015.0
20	6.185		227583	50.6	2023.0
21	6.317		161695	35.9	1437.3
22	6.399		157198	34.9	1397.3
23	6.638		222791	49.5	1980.4
24	6.782		124456	27.7	1106.3
25	6.895		180007	40.0	1600.1
26	6.968		75634	16.8	672.3
27	7.067		221401	49.2	1968.0
28	7.229		107170	23.8	952.6
29	7.319		79307	17.6	704.9
30	7.480		240446	53.4	2137.3
31	7.587		147961	32.9	1315.2
32	7.772		230093	51.1	2045.3
33	7.957		139786	31.1	1242.5
34	8.079		112993	25.1	1004.4
35	8.148		62569	13.9	556.2
36	8.274		244863	54.4	2176.6
37	8.364		105178	23.4	934.9
38	8.470		75203	16.7	668.5
39	8.522		166720	37.0	1482.0
40	8.703		57914	12.9	514.8
41	8.771		75071	16.7	667.3
42	8.842		91581	20.4	814.1
43	8.929		84474	18.8	750.9
44	9.125		173692	38.6	1543.9
45	9.279		84324	18.7	749.5
46	9.399		100296	22.3	891.5
47	9.562		249554	55.5	2218.3
48	9.711		78915	17.5	701.5
49	9.796		68116	15.1	605.5
50	9.888		213288	47.4	1895.9
51	10.145		100960	22.4	897.4
52	10.237		96384	21.4	856.7
53	10.371		103096	22.9	916.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
54	10.551		260210	57.8	2313.0
55	10.769		125165	27.8	1112.6
	10.941		146582	32.6	1302.9
57	11.128		129578	28.8	1151.8
58	11.201		53288	11.8	473.7
59	11.268		41753	9.3	371.1
60	11.343		99631	22.1	885.6
61	11.555		212564	47.2	1889.5
62	11.674		120317	26.7	1069.5
63	11.787		54895	12.2	488.0
64	11.985		211682	47.0	1881.6
65	12.147		169901	37.8	1510.2
66	12.282		73209	16.3	650.7
67	12.531		459550	102.1	4084.9
68	12.816		211208	46.9	1877.4
69	12.945		92620	20.6	823.3
70	13.097		453221	100.7	4028.6
71	13.305		101099	22.5	898.7
72	13.450		223921	49.8	1990.4
73	13.541		188133	41.8	1672.3
74	13.741		208064	46.2	1849.5
75	13.827		113488	25.2	1008.8
76	13.961		220434	49.0	1959.4
77	14.079		345816	76.8	3073.9
	14.252		185326	41.2	1647.3
	14.368		128894	28.6	1145.7
80	14.476		194265	43.2	1726.8
81	14.626		192946	42.9	1715.1
82	14.718		204893	45.5	1821.3
83	14.831		316047	70.2	2809.3
84	15.004		329967	73.3	2933.0
85	15.235		375356	83.4	3336.5
86	15.390		191403	42.5	1701.4
87	15.477		144101	32.0	1280.9
88	15.620		303505	67.4	2697.8
89	15.723		148317	33.0	1318.4
90	15.914		382559	85.0	3400.5
91	16.023		234358	52.1	2083.2
92	16.115		205665	45.7	1828.1
93	16.391		678637	150.8	6032.3
94	16.600		308071	68.5	2738.4
95	16.688		243802	54.2	2167.1
96	16.845		322526	71.7	2866.9
97	16.997		284373	63.2	2527.8
98	17.163		269339	59.9	2394.1
99	17.210		179140	39.8	1592.4
100	17.294		113546	25.2	1009.3
	17.388		172561	38.3	1533.9
	17.453		359327	79.9	3194.0
103	17.645		359429	79.9	3194.9
104	17.766		215143	47.8	1912.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
105	17.843		280428	62.3	2492.7
106	17.965		274840	61.1	2443.0
107	18.254		674578	149.9	5996.3
108	18.344		123024	27.3	1093.5
109	18.428		410104	91.1	3645.4
110	18.590		182978	40.7	1626.5
111	18.670		427848	95.1	3803.1
112	18.888		381565	84.8	3391.7
113	19.005		245542	54.6	2182.6
114	19.146		275904	61.3	2452.5
115	19.243		451565	100.3	4013.9
116	19.459		180392	40.1	1603.5
117	19.545	n-Pentacosane	571176	120.1	4804.0
118	19.761		142154	31.6	1263.6
119	19.813		141876	31.5	1261.1
120	19.926		566653	125.9	5036.9
121	20.153		167545	37.2	1489.3
122	20.243		391502	87.0	3480.0
123	20.426		135312	30.1	1202.8
124	20.477		163583	36.4	1454.1
125	20.604		434969	96.7	3866.4
126	20.756		238991	53.1	2124.4
127	20.889		232835	51.7	2069.6
128	21.011		177017	39.3	1573.5
129	21.124		211768	47.1	1882.4
130	21.226		395006	87.8	3511.2
131	21.381		119285	26.5	1060.3
132	21.483		239894	53.3	2132.4
133	21.708		602064	133.8	5351.7
134	21.953		339439	75.4	3017.2
135	22.216		324357	72.1	2883.2
136	22.389		285841	63.5	2540.8
137	22.540		345179	76.7	3068.3
138	22.772		142313	31.6	1265.0
139	22.881		174569	38.8	1551.7
140	22.997		150963	33.5	1341.9
141	23.131		122741	27.3	1091.0
142	23.195		298864	66.4	2656.6
143	23.472		68438	15.2	608.3
144	23.566		140117	31.1	1245.5
145	23.693		268505	59.7	2386.7
146	23.977		250124	55.6	2223.3
147	24.281		143914	32.0	1279.2
148	24.441		53677	11.9	477.1
149	24.553		129437	28.8	1150.6
150	24.744		61449	13.7	546.2
151	24.897		271623	60.4	2414.4
152	25.373		70654	15.7	628.0
153	25.568		199501	44.3	1773.3
154	26.068		405148	90.0	3601.3
155	27.620		46157	10.3	410.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
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34447677

Report stored in ASCII file: S:\GHP_04\0303\226A007.TX1

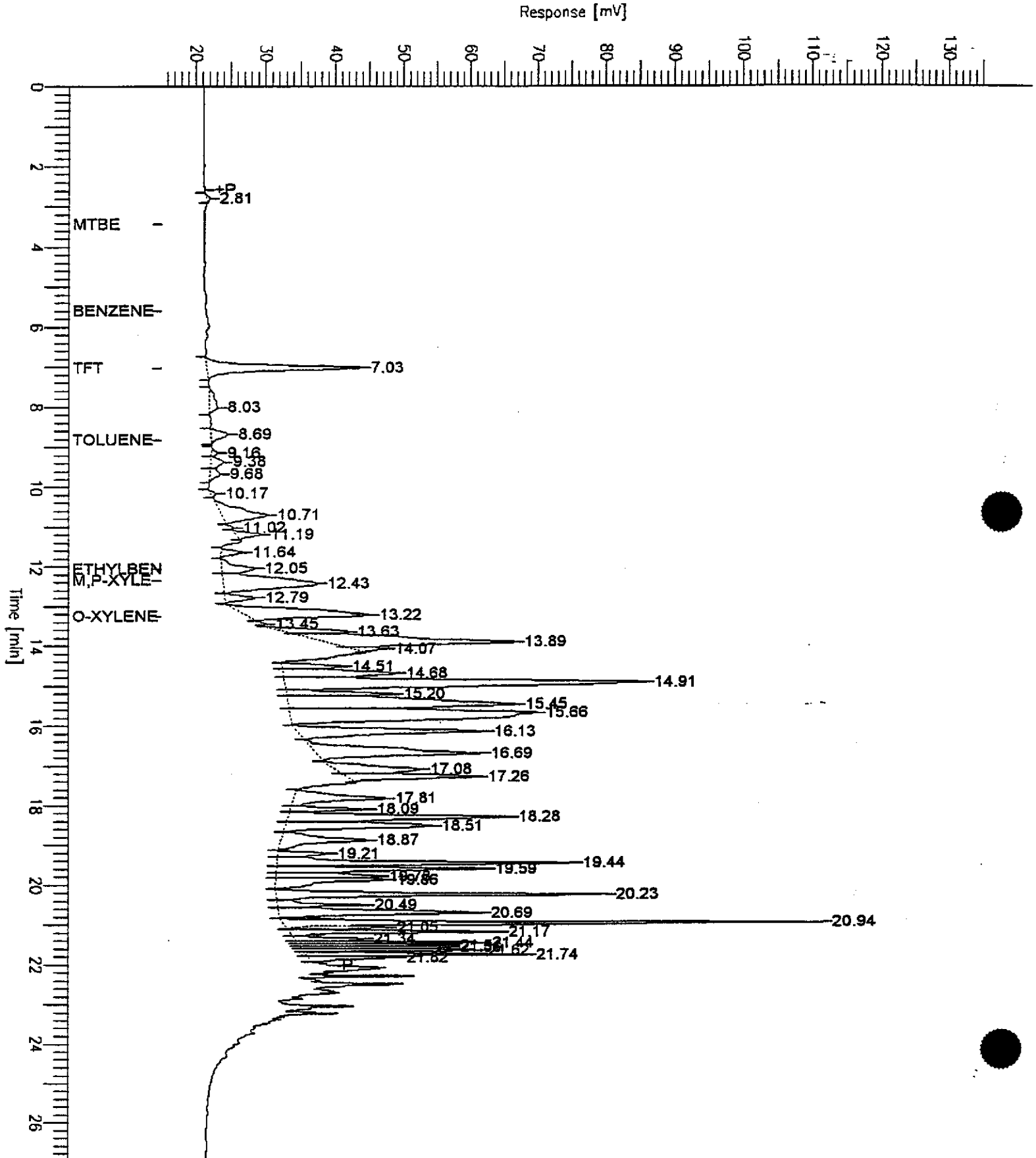
Chromatogram

Sample Name : 9602C85-1
FileName : S:\GHP_18\0225\2238010.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 26.99 min
Plot Offset: 15 mV

Sample #: CPT-1-105
Date : 2/23/96 18:49
Time of Injection: 2/23/96 18:21
Low Point : 15.20 mV
Plot Scale: 120.0 mV
High Point : 135.20 mV

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Software Version: 4.0<3H19>

Sample Name : 9602C85-1

Time : 2/23/96 18:49

Sample Number: CPT-1-105

Study : EKI

Operator :

Instrument : GCHP_18

Channel : B

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 18:21

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223B010.RAW

Result File : S:\GHP_18\0225\223B010.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223B010.RST

Proc Method : S:\GHP_18\MET_SEQ\BTEX

Calib Method : S:\GHP_18\MET_SEQ\BTEX

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 100.00

BTEX REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
1	2.807	3626		0.0007	0.0363	0.0036
2	7.029	206754	TFT	19.7463	987.3138	98.7314
3	8.028	27696		0.0055	0.2770	0.0277
4	8.694	27985		0.0056	0.2799	0.0280
5	9.156	7005		0.0014	0.0701	0.0070
6	9.376	21087		0.0042	0.2109	0.0211
7	9.677	17409		0.0035	0.1741	0.0174
8	10.174	5228		0.0010	0.0523	0.0052
9	10.714	107895		0.0216	1.0789	0.1079
10	11.023	2078		0.0004	0.0208	0.0021
11	11.189	26204		0.0052	0.2620	0.0262
12	11.640	21062		0.0042	0.2106	0.0211
13	12.049	54468	Ethylbenzene	2.3702	118.5101	11.8510
14	12.430	232944	m,p-Xylenes	8.2116	410.5803	41.0580
15	12.790	33746		0.0067	0.3375	0.0337
16	13.215	231671	o-Xylene	9.8260	491.3008	49.1301
17	13.448	2848		0.0006	0.0285	0.0028
18	13.634	63122		0.0126	0.6312	0.0631

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
19	13.892	330186		0.0660	3.3019	0.3302
20	14.070	21253		0.0043	0.2125	0.0213
21	14.510	55758		0.0112	0.5576	0.0558
22	14.683	156978		0.0314	1.5698	0.1570
23	14.911	552717		0.1105	5.5272	0.5527
24	15.199	100421		0.0201	1.0042	0.1004
25	15.454	433982		0.0868	4.3398	0.4340
26	15.662	555954		0.1112	5.5595	0.5560
27	16.131	252427		0.0505	2.5243	0.2524
28	16.685	277014		0.0554	2.7701	0.2770
29	17.082	130815		0.0262	1.3082	0.1308
30	17.261	132567		0.0265	1.3257	0.1326
31	17.808	136995		0.0274	1.3699	0.1370
32	18.088	60649		0.0121	0.6065	0.0606
33	18.279	260495		0.0521	2.6049	0.2605
34	18.505	188490		0.0377	1.8849	0.1885
35	18.866	132673		0.0265	1.3267	0.1327
36	19.210	42878		0.0086	0.4288	0.0429
37	19.444	256968		0.0514	2.5697	0.2570
38	19.588	182584		0.0365	1.8258	0.1826
39	19.779	92311		0.0185	0.9231	0.0923
40	19.862	122382		0.0245	1.2238	0.1224
41	20.230	262477		0.0525	2.6248	0.2625
42	20.492	63559		0.0127	0.6356	0.0636
43	20.689	229714		0.0459	2.2971	0.2297
44	20.944	357265		0.0715	3.5727	0.3573
45	21.053	55274		0.0111	0.5527	0.0553
46	21.167	126943		0.0254	1.2694	0.1269
47	21.344	49396		0.0099	0.4940	0.0494
48	21.437	92725		0.0185	0.9273	0.0927
49	21.508	80366		0.0161	0.8037	0.0804
50	21.556	67179		0.0134	0.6718	0.0672
51	21.622	80439		0.0161	0.8044	0.0804
52	21.741	134723		0.0269	1.3472	0.1347
53	21.818	54094		0.0108	0.5409	0.0541
		7223479		41.4536	2072.6814	207.2681

Missing Component Report

Component	Expected Retention (Calibration File)
MTBE	3.453
Benzene	5.614
Toluene	8.834

Report stored in ASCII file: S:\GHP_18\0225\223B010.TX0

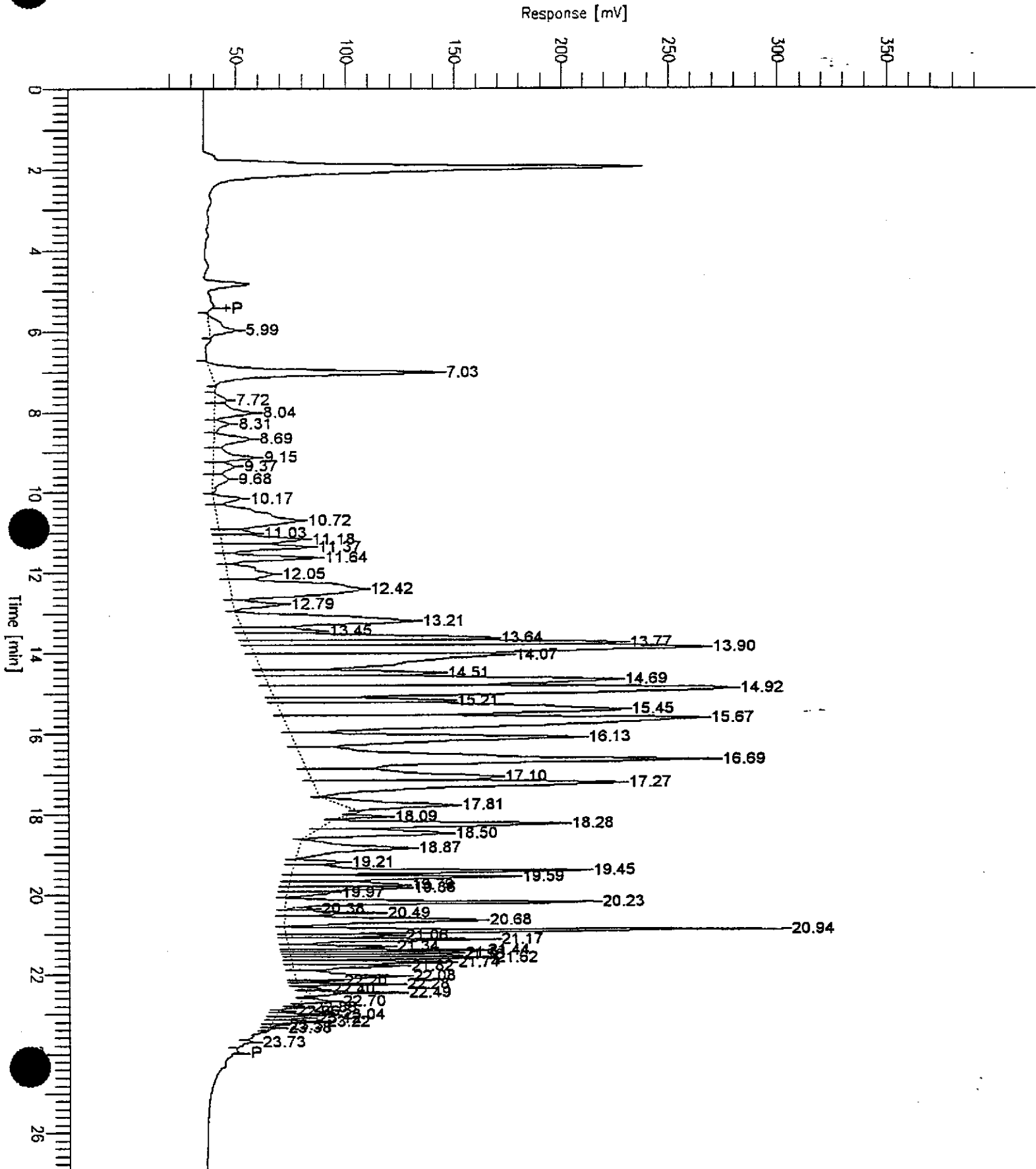
Chromatogram

Sample Name : 9602C85-1
FileName : S:\GHP_18\0225\223A010.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.99 min
Plot Offset: 16 mV

Sample #: CPT-1-105
Date : 2/23/96 18:48
Time of Injection: 2/23/96 18:21
Low Point : 16.50 mV
High Point : 396.50 mV
Plot Scale: 380.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : 9602C85-1

Time : 2/23/96 18:48

Sample Number: CPT-1-105

Study : EKI

Operator :

Instrument : GCHP_18

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 18:21

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223A010.RAW

Result File : S:\GHP_18\0225\223A010.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223A010.RST

Proc Method : S:\GHP_18\MET_SEQ\TPH

Calib Method : S:\GHP_18\MET_SEQ\TPH

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 100.00

TPH REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	6.225	167369	TPH-1	5.1419	257.0952	25.7095
	15.775	40178152	TPH-2	1234.3518	61717.5921	6171.7592
		40345521		1239.4937	61974.6874	6197.4687

EXPANDED REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	5.989	167369.00	0.40	B
2	7.028	1025965.67	2.48	B
3	7.716	55017.62	0.13	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
5	8.037	222443.57	0.54	V
6	8.313	63503.21	0.15	V
6	8.689	195807.29	0.47	V
7	9.153	202955.83	0.49	V
8	9.374	115343.04	0.28	V
9	9.684	100657.10	0.24	V
10	10.169	106400.01	0.26	B
11	10.717	791801.01	1.91	V
12	11.027	95954.17	0.23	V
13	11.181	362555.34	0.88	V
14	11.372	322664.22	0.78	V
15	11.640	306469.47	0.74	V
16	12.045	316674.67	0.77	V
17	12.420	1177159.88	2.85	V
18	12.789	174389.03	0.42	V
19	13.207	1068284.35	2.58	B
20	13.454	259190.46	0.63	V
21	13.640	907356.71	2.19	V
22	13.771	1209482.06	2.92	V
23	13.897	2136573.61	5.16	V
24	14.069	1706154.67	4.12	V
25	14.509	558236.04	1.35	V
26	14.693	1875367.61	4.53	V
27	14.922	2628494.82	6.35	V
28	15.206	487816.49	1.18	V
29	15.445	2293262.59	5.54	V
30	15.665	2882973.68	6.97	V
31	16.129	1439053.63	3.48	V
32	16.689	2438506.90	5.89	V
33	17.100	1064952.72	2.57	V
34	17.265	1488030.87	3.60	V
35	17.805	484554.51	1.17	B
36	18.087	73286.99	0.18	B
37	18.276	808345.09	1.95	B
38	18.501	537737.03	1.30	V
39	18.868	545111.07	1.32	B
40	19.212	115819.66	0.28	B
41	19.445	839850.54	2.03	V
42	19.589	620970.52	1.50	V
43	19.785	358027.83	0.87	V
44	19.857	265574.32	0.64	V
45	19.973	105588.13	0.26	V
46	20.230	799981.31	1.93	B
47	20.381	37954.47	0.09	E
48	20.492	209120.72	0.51	V
49	20.682	703927.48	1.70	V
50	20.944	1034441.95	2.50	B
51	21.056	216020.19	0.52	V
52	21.167	417585.84	1.01	V
53	21.336	210687.72	0.51	V
54	21.437	299417.93	0.72	V

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
55	21.508	272190.89	0.66	V
	21.557	226654.77	0.55	V
57	21.622	287381.94	0.69	V
58	21.738	342560.94	0.83	V
59	21.822	240149.05	0.58	V
60	22.079	376571.93	0.91	V
61	22.196	46226.67	0.11	V
62	22.281	119785.15	0.29	V
63	22.400	35001.97	0.08	B
64	22.487	152413.31	0.37	V
65	22.700	67315.28	0.16	B
66	22.862	17453.98	0.04	B
67	22.958	10223.28	0.02	B
68	23.039	81545.20	0.20	V
69	23.118	55826.56	0.13	V
70	23.216	77353.37	0.19	V
71	23.305	8819.87	0.02	V
72	23.377	10142.09	0.02	V
73	23.729	13000.23	0.03	B

41371487.15 100.00

Chromatogram

Sample Name : G9602C85-02C

FileName : S:\GHP_20\0225\222B021.raw

Method : TPH_B

Start Time : 0.00 min

Scale Factor : 1.0

End Time : 25.49 min

Plot Offset : 5 mV

Sample #: CPT-1-11W

Date : 2/22/96 16:17

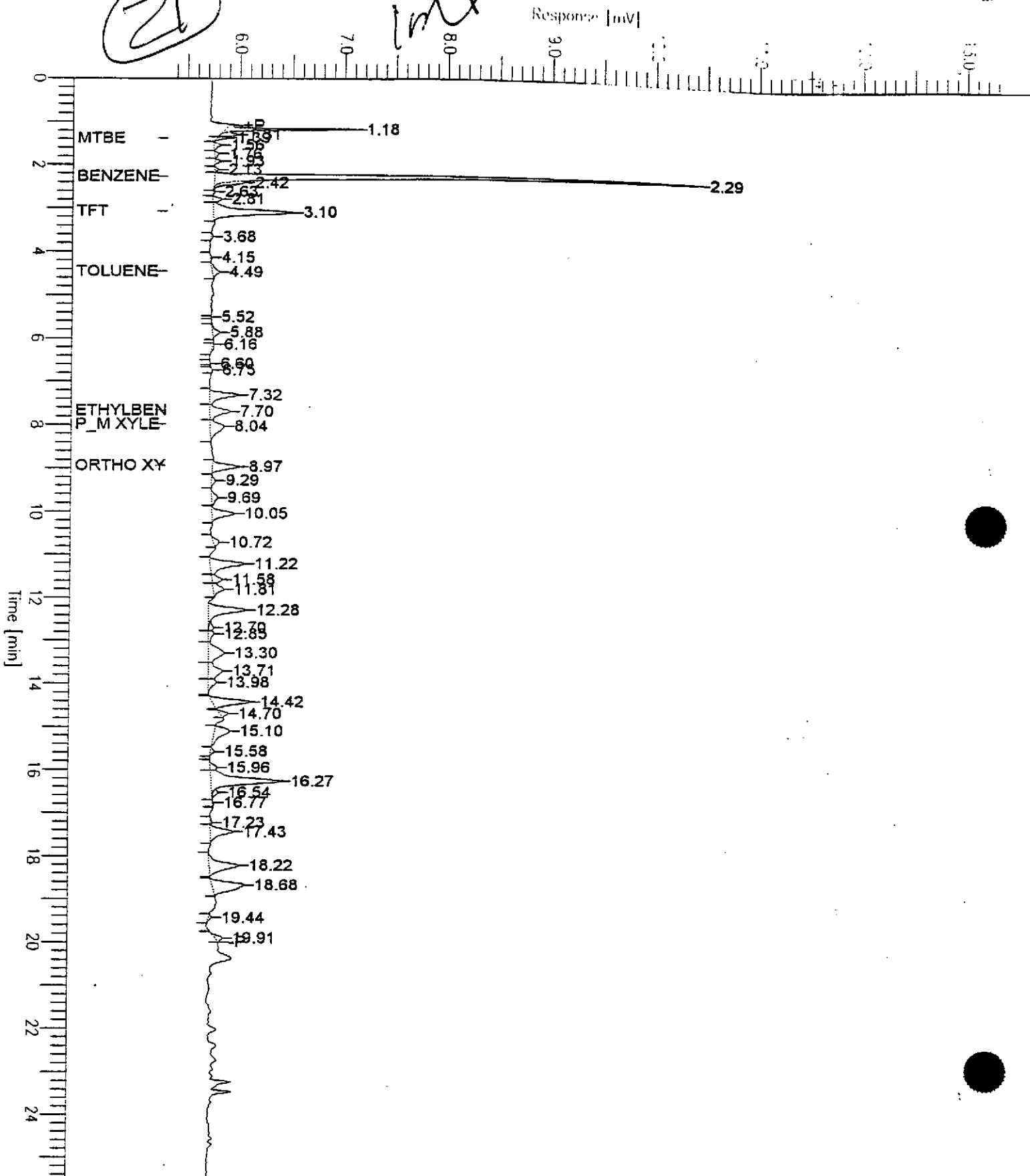
Time of Injection: 2/22/96 15:49

Low Point : 5.31 mV

Plot Scale: 0.0 mV

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High Point : 13.31 mV



Software Version: 4.0<3H19>

Sample Name : G9602C85-02C

Time : 2/22/96 16:17

Sample Number: CPT-1-11W

Study : EKI

Operator :

Instrument : GHP_20

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 15:49

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222B021.RAW

Result File : S:\GHP_20\0225\222B021.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222B021.RST

Proc Method : S:\GHP_20\MET_SEQ\BTEX_B

Calib Method : S:\GHP_20\MET_SEQ\BTEX_B

Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 10.00

BTEX REPORT GHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
1	1.181	3720		0.0037	0.0007	0.0037
8	2.286	22971	BENZENE	137.8637	27.5727	137.8637
9	2.424	1132		0.0011	0.0002	0.0011
12	3.104	6400	TFT	125.5571	25.1114	125.5571
21	7.318	2325		0.0023	0.0005	0.0023
22	7.702	1890	ETHYLBENZENE	14.7965	2.9593	14.7965
23	8.043	1886	P M XYLENES	12.1041	2.4208	12.1041
24	8.970	1991	ORTHO XYLENE	15.6965	3.1393	15.6965
27	10.054	1917		0.0019	0.0004	0.0019
29	11.215	3301		0.0033	0.0007	0.0033
31	11.807	1008		0.0010	0.0002	0.0010
32	12.282	3575		0.0036	0.0007	0.0036
35	13.296	2443		0.0024	0.0005	0.0024
36	13.707	1922		0.0019	0.0004	0.0019
37	14.419	3109		0.0031	0.0006	0.0031
40	15.103	1870		0.0019	0.0004	0.0019
43	16.265	7241		0.0072	0.0014	0.0072
47	17.431	2107		0.0021	0.0004	0.0021

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
48	18.222	3474		0.0035	0.0007	0.0035
49	18.678	3890		0.0039	0.0008	0.0039
		78173		306.0610	61.2122	306.0610

Missing Component Report

Component	Expected Retention (Calibration File)
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All components were found

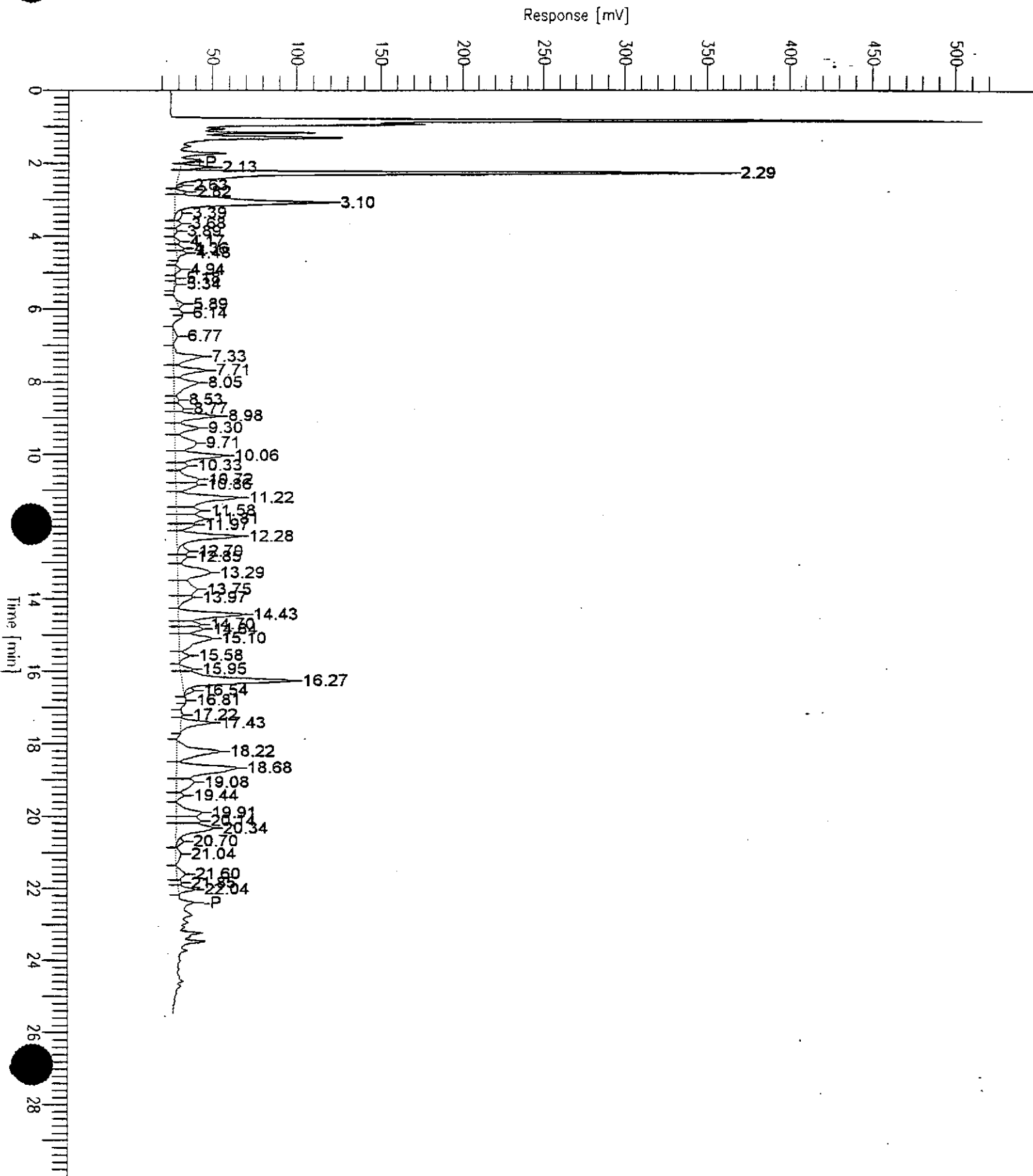
Report stored in ASCII file: S:\GHP_20\0225\222B021.TX0

Chromatogram

Sample Name : G9602C85-02C
FileName : S:\GHP_20\0225\222A021.raw
Method : TPH_B
Start Time : 0.00 min
Factor: 0.0

End Time : 30.00 min
Plot Offset: 20 mV

Sample #: CPT-1-11W
Date : 2/22/96 16:16
Time of Injection: 2/22/96 15:49
Low Point : 20.00 mV
Plot Scale: 500.0 mV
High Point : 520.00 mV



Software Version: 4.0<3H19>

Sample Name : G9602C85-02C

Time : 2/22/96 16:16

Sample Number: CPT-1-11W

Study : EKI

Operator :

Instrument : GHP_20

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 15:49

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222A021.RAW

Result File : S:\GHP_20\0225\222A021.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222A021.RST

Proc Method : S:\GHP_20\MET_SEQ\TPH_B

Calib Method : S:\GHP_20\MET_SEQ\TPH_B

Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 10.00

TPH REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.400	1997070	TPH-1	398.6168	79.7234	398.6168
	12.895	8427950	TPH-2	1682.2255	336.4451	1682.2255
		10425020		2080.8424	416.1685	2080.8424

Report stored in ASCII file: S:\GHP_20\0225\222A021.TX1

EXPANDED REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.131	105817.60	0.92	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.290	1874584.80	16.38	V
2	2.633	16668.00	0.15	E
4	2.816	36091.20	0.32	B
5	3.098	924432.03	8.08	V
6	3.386	56020.00	0.49	E
7	3.675	35373.91	0.31	V
8	3.885	14501.25	0.13	V
9	4.167	24227.10	0.21	B
10	4.364	37080.44	0.32	V
11	4.484	44398.86	0.39	V
12	4.939	25810.00	0.23	B
13	5.179	4519.20	0.04	B
14	5.344	6632.80	0.06	V
15	5.885	32370.40	0.28	B
16	6.136	6297.20	0.06	B
17	6.774	40919.50	0.36	B
18	7.328	202945.58	1.77	V
19	7.707	198744.80	1.74	V
20	8.048	222134.46	1.94	V
21	8.528	27521.56	0.24	V
22	8.773	58849.79	0.51	V
23	8.975	245498.61	2.15	V
24	9.304	152176.76	1.33	V
25	9.711	229909.12	2.01	V
26	10.059	313675.82	2.74	V
27	10.334	70350.89	0.61	V
28	10.715	173847.21	1.52	V
29	10.859	139434.35	1.22	V
30	11.219	482372.55	4.22	V
31	11.584	149567.39	1.31	V
32	11.807	204689.65	1.79	V
33	11.971	86847.74	0.76	V
34	12.282	398458.77	3.48	V
35	12.697	74980.80	0.66	E
36	12.853	60976.18	0.53	V
37	13.290	322131.44	2.82	V
38	13.746	222065.96	1.94	V
39	13.969	81970.60	0.72	V
40	14.427	401453.81	3.51	V
41	14.700	102105.30	0.89	V
42	14.839	135858.31	1.19	V
43	15.098	313254.81	2.74	V
44	15.583	52237.88	0.46	V
45	15.954	49368.89	0.43	B
46	16.269	748667.09	6.54	V
47	16.541	35558.40	0.31	E
48	16.813	4141.62	0.04	V
49	17.217	6846.91	0.06	B
50	17.434	169635.49	1.48	V
51	18.224	360976.09	3.15	B
52	18.682	549347.53	4.80	V

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
53	19.075	167981.91	1.47	V
54	19.440	39241.54	0.34	V
55	19.908	189133.35	1.65	V
56	20.140	151246.58	1.32	V
57	20.341	322434.77	2.82	V
58	20.701	34454.40	0.30	E
59	21.044	49706.22	0.43	V
60	21.603	66150.74	0.58	B
61	21.851	16917.01	0.15	V
62	22.035	69950.65	0.61	V

11441563.60 100.00

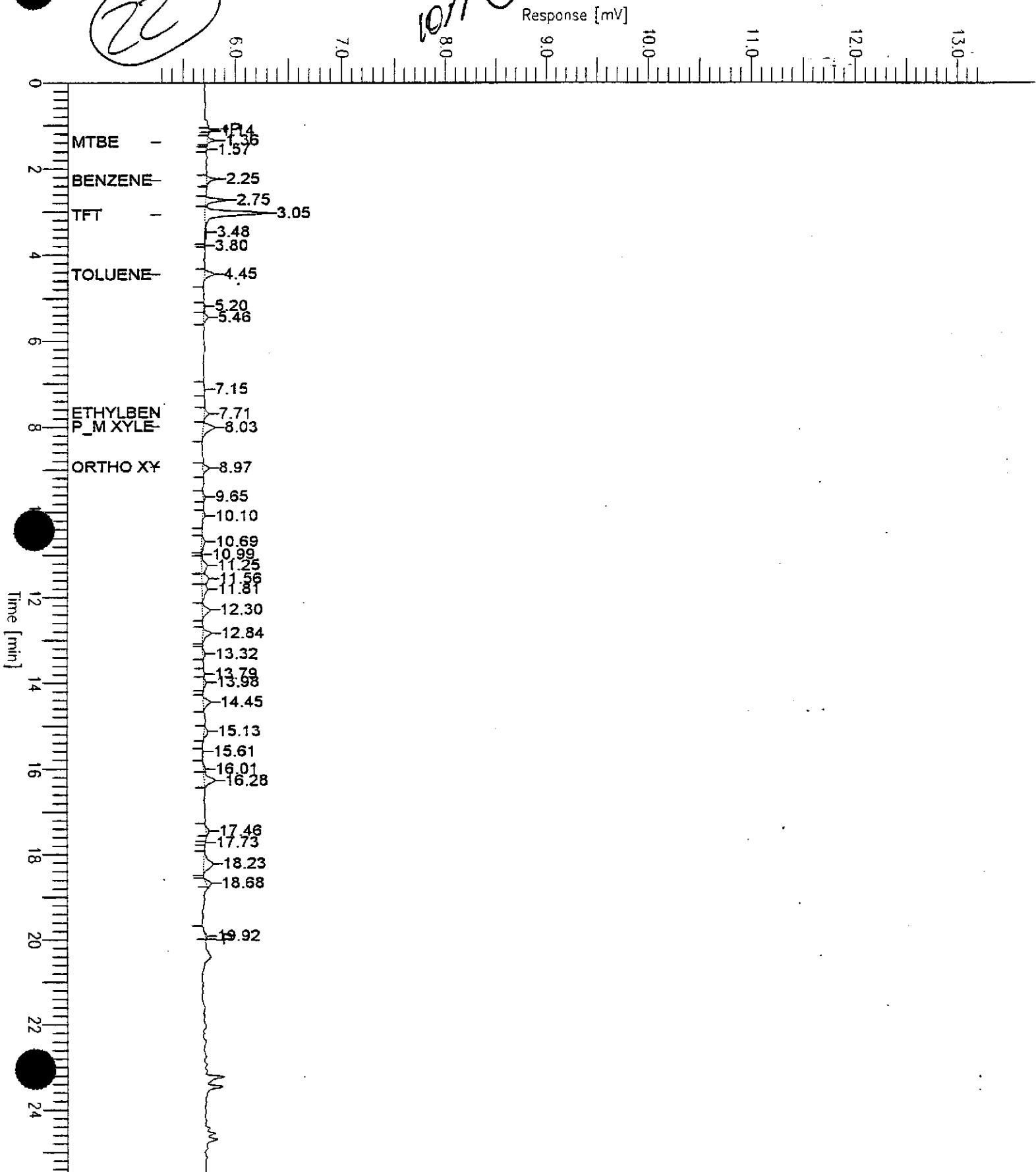
Report stored in ASCII file: S:\GHP_20\0225\222A021.TX2

Chromatogram

Sample Name : G9602C85-03C
FileName : S:\GHP_20\0225\222B022.raw
Method : TPH 8
Start Time : 0.00 min
Scale Factor: -1.0

Sample #: CPT1-34W
Date : 2/22/96 16:50
Time of Injection: 2/22/96 16:24
Low Point : 5.28 mV
High Point : 13.28 mV
Plot Scale: 8.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : G9602C85-03C

Time : 2/22/96 16:50

Sample Number: CPT1-34W

Study : EKI

Operator :

Instrument : GHP_20

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 16:24

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222B022.RAW

Result File : S:\GHP_20\0225\222B022.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222B022.RST

Proc Method : S:\GHP_20\MET_SEQ\BTEX_B

Calib Method : S:\GHP_20\MET_SEQ\BTEX_B

Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
5	2.745	1048		0.0001	0.0000	0.0010
6	3.047	4120	TFT	8.0825	1.6165	80.8246
14	8.027	1127	P_M XYLENES	0.7233	0.1447	7.2331
32	16.277	1020		0.0001	0.0000	0.0010
35	18.229	1279		0.0001	0.0000	0.0013
		8594		8.8061	1.7612	88.0611

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

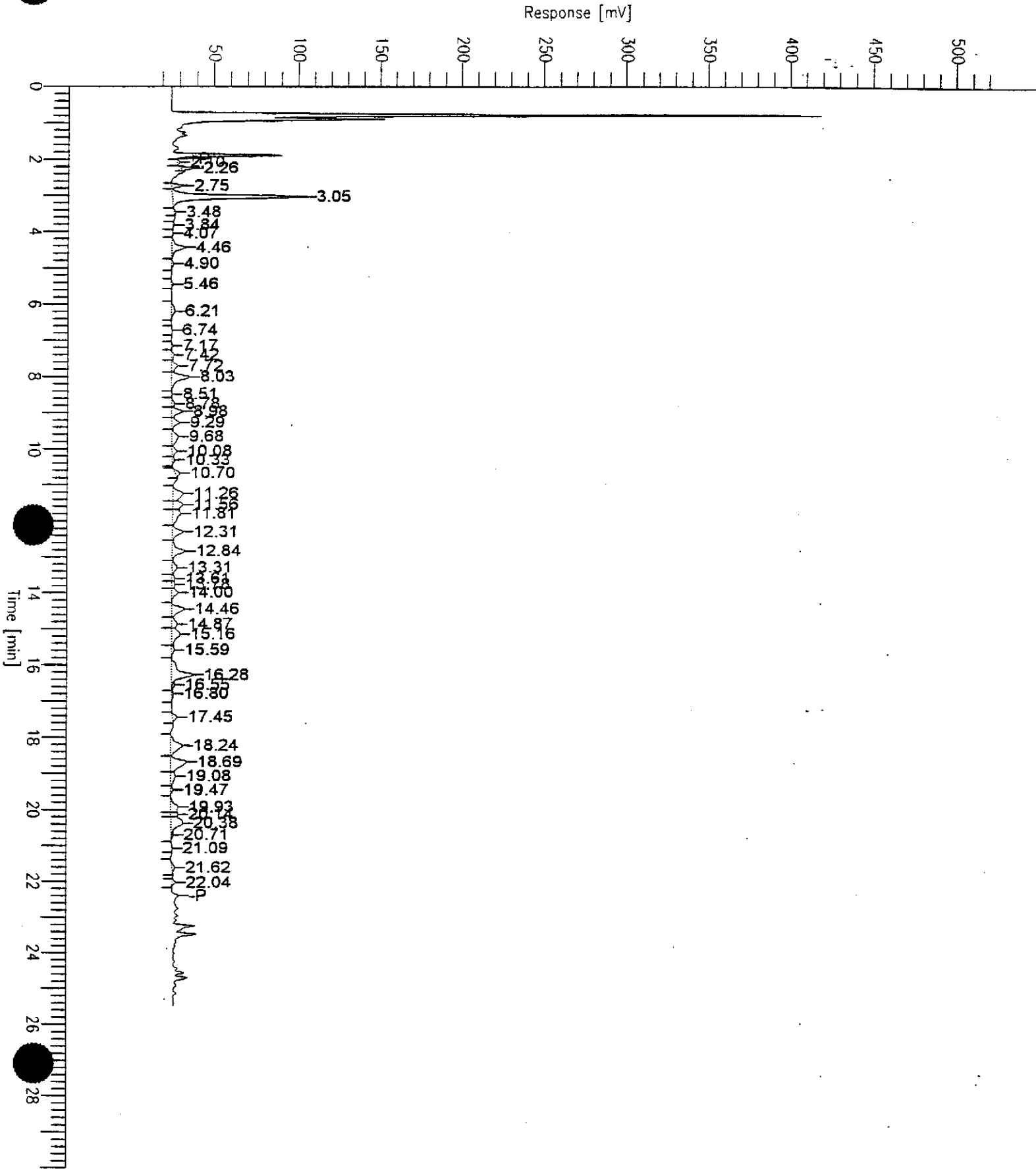
Report stored in ASCII file: S:\GHP_20\0225\222B022.TX0

Chromatogram

Sample Name : G9602C85-03C
FileName : S:\GHP_20\0225\222A022.raw
Method : TPH_B
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 30.00 min
Plot Offset: 20 mV

Sample #: CPT1-34W
Date : 2/22/96 16:50
Time of Injection: 2/22/96 16:24
Low Point : 20.00 mV
High Point : 520.00 mV
Plot Scale: 500.0 mV



Software Version: 4.0<3H19>
Sample Name : G9602C85-03C
Sample Number: CPT1-34W
Operator :

Time : 2/22/96 16:50
Study : EKI

Instrument : GHP_20 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 16:24
Delay Time : 0.00 min.
End Time : 25.49 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222A022.RAW
Result File : S:\GHP_20\0225\222A022.RST
Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222A022.RST
Proc Method : S:\GHP_20\MET_SEQ\TPH_B
Calib Method : S:\GHP_20\MET_SEQ\TPH_B
Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000 Area Reject : 1000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

TPH REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.400	73740	TPH-1	1.4718	0.2944	14.7185
	12.895	2096947	TPH-2	41.8552	8.3710	418.5523
		2170687		43.3271	8.6654	433.2708

Report stored in ASCII file: S:\GHP_20\0225\222A022.TX1

EXPANDED REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.097	8934.40	0.33	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
3	2.258	31353.60	1.15	B
	2.747	33451.60	1.22	B
4	3.049	565601.20	20.67	V
5	3.476	6542.40	0.24	B
6	3.836	4331.20	0.16	B
7	4.069	3204.80	0.12	B
8	4.459	82498.21	3.01	B
9	4.899	10504.99	0.38	V
10	5.461	8384.80	0.31	B
11	6.213	31272.40	1.14	B
12	6.739	2694.00	0.10	B
13	7.167	6903.37	0.25	B
14	7.419	16229.02	0.59	V
15	7.717	42482.06	1.55	V
16	8.026	117273.28	4.29	V
17	8.507	3702.92	0.14	V
18	8.776	17394.34	0.64	V
19	8.979	60202.53	2.20	V
20	9.288	45194.12	1.65	V
21	9.675	56928.07	2.08	V
22	10.080	28097.96	1.03	V
23	10.329	11821.93	0.43	V
24	10.699	22108.40	0.81	B
	11.258	84445.71	3.09	B
	11.563	67239.23	2.46	V
27	11.811	75497.95	2.76	V
28	12.307	67720.55	2.47	V
29	12.841	92840.83	3.39	V
30	13.310	43384.08	1.59	V
31	13.612	16358.31	0.60	V
32	13.776	20836.25	0.76	V
33	14.001	41051.08	1.50	V
34	14.457	87534.11	3.20	B
35	14.874	46648.55	1.70	V
36	15.162	86394.36	3.16	V
37	15.594	19001.38	0.69	V
38	16.279	177628.54	6.49	B
39	16.551	12008.80	0.44	E
40	16.803	10447.46	0.38	V
41	17.453	21876.80	0.80	B
42	18.242	105172.61	3.84	B
43	18.688	134258.13	4.91	V
44	19.083	43675.42	1.60	V
45	19.466	10629.84	0.39	V
46	19.932	63888.60	2.33	B
47	20.140	28768.34	1.05	V
	20.380	117196.66	4.28	V
	20.711	8353.60	0.31	E
50	21.090	3987.20	0.15	B
51	21.624	20387.20	0.75	B
52	22.040	11944.80	0.44	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
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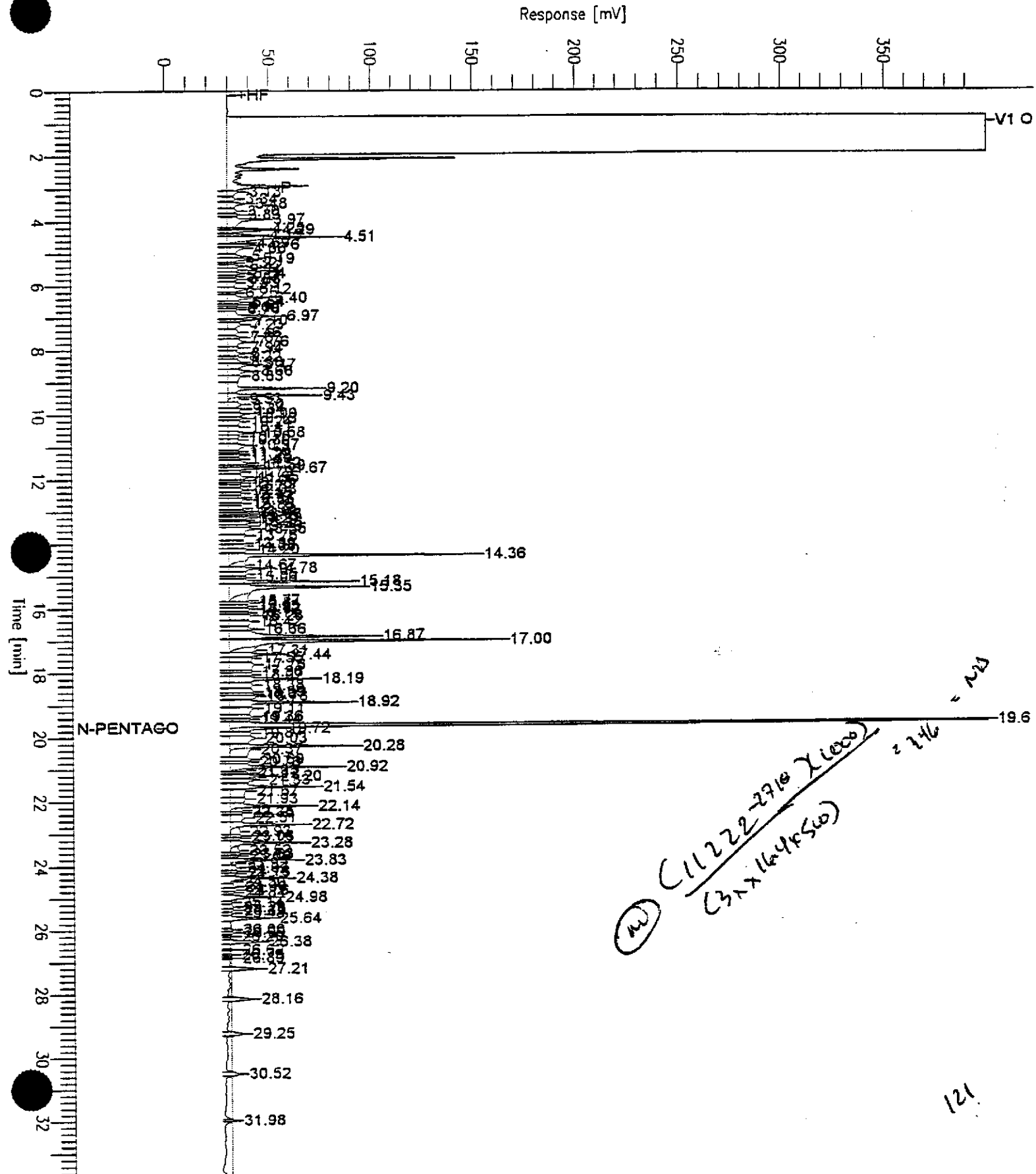
		2736288.00	100.00	
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Report stored in ASCII file: S:\GHP_20\0225\222A022.TX2

Sample Name : D9602C85-3 (500:1)
FileName : S:\GHP_05\0225\2248032.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: CPT1-34W
Date : 2/25/96 09:12
Time of Injection: 2/25/96 08:38
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
High Point : 400.00 mV



Software Version: 4.0<3H19>

Sample Name : D9602C85-3 (500:1)

Sample Number: CPT1-34W

Operator : JM

Time : 2/25/96 09:12

Study : EKI

Instrument : GCHP_05

Channel : B

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/32

Interface Serial # : NONE Data Acquisition Time: 2/25/96 08:38

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224B032.RAW

Result File : S:\GHP_05\0225\224B032.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224B032.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05B

Calib Method : S:\GHP_05\MET_SEQ\TPH05B

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05B

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9-n-C13 Paint Thinn	2327683	226.6	3.8	151.1
8.250	n-C9 to n-C17 Jet	4291548	222.5	3.7	148.3
11.165	n-C9 to n-C24 TPH-D	9205073	484.5	8.1	323.0
17.340	n-C9 to n-C40 Total	15188808	1012.6	16.9	675.1
19.785	n-C16 to n-C36 M/Oil	11221674	748.1	12.5	498.7
		42234786	2694.3		

Report stored in ASCII file: S:\GHP_05\0225\224B032.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.131		39647	0.0	1.8

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
2	3.341		32851	0.0	1.5
3	3.481		59339	0.1	2.6
4	3.704		38845	0.0	1.7
5	3.826		30375	0.0	1.3
6	3.973		135795	0.2	6.0
7	4.246		54297	0.1	2.4
8	4.292		83972	0.1	3.7
9	4.448		54121	0.1	2.4
10	4.509		242661	0.3	10.8
11	4.692		37056	0.0	1.6
12	4.763		66936	0.1	3.0
13	4.860		69593	0.1	3.1
14	5.109		40877	0.0	1.8
15	5.194		63247	0.1	2.8
16	5.322		14369	0.0	0.6
17	5.419		31926	0.0	1.4
18	5.539		35125	0.0	1.6
19	5.641		35866	0.0	1.6
20	5.726		18718	0.0	0.8
21	5.830		31122	0.0	1.4
22	5.931		35301	0.0	1.6
23	6.121		59545	0.1	2.6
24	6.247		15629	0.0	0.7
25	6.402		98392	0.1	4.4
26	6.540		32879	0.0	1.5
27	6.613		20528	0.0	0.9
28	6.688		17920	0.0	0.8
29	6.763		24676	0.0	1.1
30	6.965		131401	0.1	5.8
31	7.098		40237	0.0	1.8
32	7.227		67264	0.1	3.0
33	7.463		54415	0.1	2.4
34	7.628		34254	0.0	1.5
35	7.762		80541	0.1	3.6
36	7.935		35825	0.0	1.6
37	8.110		53722	0.1	2.4
38	8.222		28871	0.0	1.3
39	8.384		44987	0.0	2.0
40	8.468		85927	0.1	3.8
41	8.660		79832	0.1	3.5
42	8.827		68799	0.1	3.1
43	9.203		203797	0.2	9.1
44	9.427		137796	0.2	6.1
45	9.526		36060	0.0	1.6
46	9.700		60238	0.1	2.7
47	9.844		51334	0.1	2.3
48	9.995		53503	0.1	2.4
49	10.130		40596	0.0	1.8
50	10.238		55517	0.1	2.5
51	10.409		48452	0.1	2.2
52	10.581		54812	0.1	2.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	10.695		35873	0.0	1.6
54	10.802		41316	0.0	1.8
55	10.969		85115	0.1	3.8
56	11.160		20483	0.0	0.9
57	11.217		17332	0.0	0.8
58	11.279		29748	0.0	1.3
59	11.388		22420	0.0	1.0
60	11.520		75291	0.1	3.3
61	11.592		42648	0.0	1.9
62	11.667		80503	0.1	3.6
63	11.791		38025	0.0	1.7
64	11.951		82109	0.1	3.6
65	12.054		33650	0.0	1.5
66	12.132		24014	0.0	1.1
67	12.224		33521	0.0	1.5
68	12.334		52951	0.1	2.4
69	12.448		34036	0.0	1.5
70	12.574		35773	0.0	1.6
71	12.646		58592	0.1	2.6
72	12.761		30600	0.0	1.4
73	12.924		58701	0.1	2.6
74	13.014		39388	0.0	1.8
75	13.084		46020	0.1	2.0
76	13.145		29090	0.0	1.3
77	13.208		41973	0.0	1.9
78	13.286		25558	0.0	1.1
79	13.356		59562	0.1	2.6
80	13.460		47465	0.1	2.1
81	13.548		124518	0.1	5.5
82	13.760		85368	0.1	3.8
83	13.991		52406	0.1	2.3
84	14.080		53271	0.1	2.4
85	14.198		71723	0.1	3.2
86	14.364		437707	0.5	19.5
87	14.672		63954	0.1	2.8
88	14.779		106347	0.1	4.7
89	14.951		66461	0.1	3.0
90	15.055		33191	0.0	1.5
91	15.184		212216	0.2	9.4
92	15.347		405321	0.5	18.0
93	15.767		106195	0.1	4.7
94	15.837		52332	0.1	2.3
95	15.934		43840	0.0	1.9
96	16.022		68242	0.1	3.0
97	16.136		44435	0.0	2.0
98	16.230		119787	0.1	5.3
99	16.416		108822	0.1	4.8
100	16.656		83035	0.1	3.7
101	16.867		348993	0.4	15.5
102	17.002		621901	0.7	27.6
103	17.305		106511	0.1	4.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
104	17.441		132052	0.1	5.9
105	17.553		104031	0.1	4.6
106	17.757		160716	0.2	7.1
107	17.960		51915	0.1	2.3
108	18.065		68074	0.1	3.0
109	18.194		209975	0.2	9.3
110	18.384		111763	0.1	5.0
111	18.593		98096	0.1	4.4
112	18.668		46858	0.1	2.1
113	18.733		95586	0.1	4.2
114	18.917		276523	0.3	12.3
115	19.109		141358	0.2	6.3
116	19.363		73428	0.1	3.3
117	19.443		54966	0.1	2.4
118	19.616		2717939	3.0	120.8
119	19.718	n-Pentacosane	116829	0.1	4.2
120	19.872		80984	0.1	3.6
121	20.032		158227	0.2	7.0
122	20.279		215104	0.2	9.6
123	20.369		140883	0.2	6.3
124	20.691		75736	0.1	3.4
125	20.763		43288	0.0	1.9
126	20.922		204633	0.2	9.1
127	21.026		37152	0.0	1.7
128	21.116		40270	0.0	1.8
129	21.203		98320	0.1	4.4
130	21.330		84795	0.1	3.8
131	21.543		187673	0.2	8.3
132	21.665		109384	0.1	4.9
133	21.927		73143	0.1	3.3
134	22.142		152346	0.2	6.8
135	22.282		33766	0.0	1.5
136	22.346		32168	0.0	1.4
137	22.514		79967	0.1	3.6
138	22.720		142097	0.2	6.3
139	22.934		57091	0.1	2.5
140	23.081		28588	0.0	1.3
141	23.147		21946	0.0	1.0
142	23.281		129777	0.1	5.8
143	23.524		42452	0.0	1.9
144	23.627		26618	0.0	1.2
145	23.690		17071	0.0	0.8
146	23.825		107125	0.1	4.8
147	23.917		12693	0.0	0.6
148	24.066		26051	0.0	1.2
149	24.176		14987	0.0	0.7
150	24.248		12730	0.0	0.6
151	24.384		93038	0.1	4.1
152	24.502		7061	7.8e-03	0.3
153	24.658		14330	0.0	0.6
154	24.757		15343	0.0	0.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
155	24.836		7332	8.1e-03	0.3
156	24.984		81095	0.1	3.6
157	25.142		2952	3.3e-03	0.1
158	25.287		8033	8.9e-03	0.4
159	25.389		6347	7.1e-03	0.3
160	25.484		3878	4.3e-03	0.2
161	25.643		72699	0.1	3.2
162	25.995		4405	4.9e-03	0.2
163	26.093		4847	5.4e-03	0.2
164	26.201		941	1.0e-03	0.0
165	26.379		59078	0.1	2.6
166	26.623		1338	1.5e-03	0.1
167	26.785		574	6.4e-04	0.0
168	26.887		1910	2.1e-03	0.1
169	27.213		57112	0.1	2.5
170	28.162		46645	0.1	2.1
171	29.254		27018	0.0	1.2
172	30.515		17533	0.0	0.8
173	31.983		2979	3.3e-03	0.1

15191787

Report stored in ASCII file: S:\GHP_05\0225\224B032.TX1

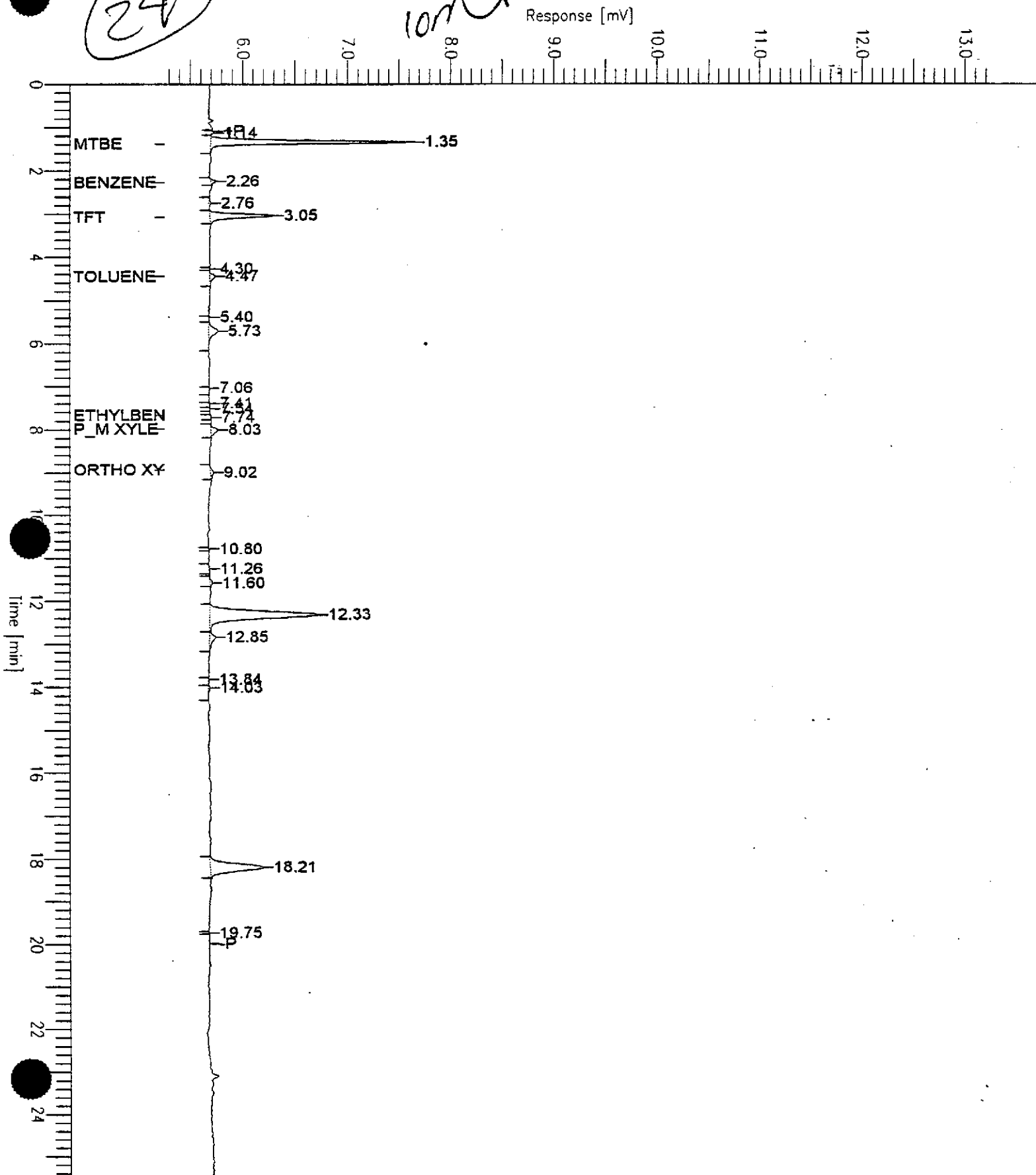
Chromatogram

Sample Name : G9602C05-04C
FileName : S:\GHP_20\0225\222B024.raw
Method : TPH B
Start Time : 0.00 min
Scale factor: -1.0

End Time : 25.49 min
Plot Offset: 5 mV

Sample #: CPT7-43W
Date : 2/22/96 17:26
Time of Injection: 2/22/96 17:00
Low Point : 5.25 mV
High Point : 13.25 mV
Plot Scale: 8.0 mV

Page 1 of 1



Software Version: 4.0<3H19>
Sample Name : G9602C85-04C
Sample Number: CPT7-43W
Operator :

Time : 2/22/96 17:26
Study : EKI

Instrument : GHP_20 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 17:00
Delay Time : 0.00 min.
End Time : 25.49 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222B024.RAW
Result File : S:\GHP_20\0225\222B024.RST
Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222B024.RST
Proc Method : S:\GHP_20\MET_SEQ\BTEX_B
Calib Method : S:\GHP_20\MET_SEQ\BTEX_B
Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000 Area Reject : 1000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

BTEX REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
2	1.354	10038	MTBE	30.7404	6.1481	307.4040
5	3.050	3866	TFT	7.5832	1.5166	75.8318
9	5.732	1063		0.0001	0.0000	0.0011
19	12.329	11936		0.0012	0.0002	0.0119
23	18.210	5903		0.0006	0.0001	0.0059
		32806		38.3255	7.6651	383.2546

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

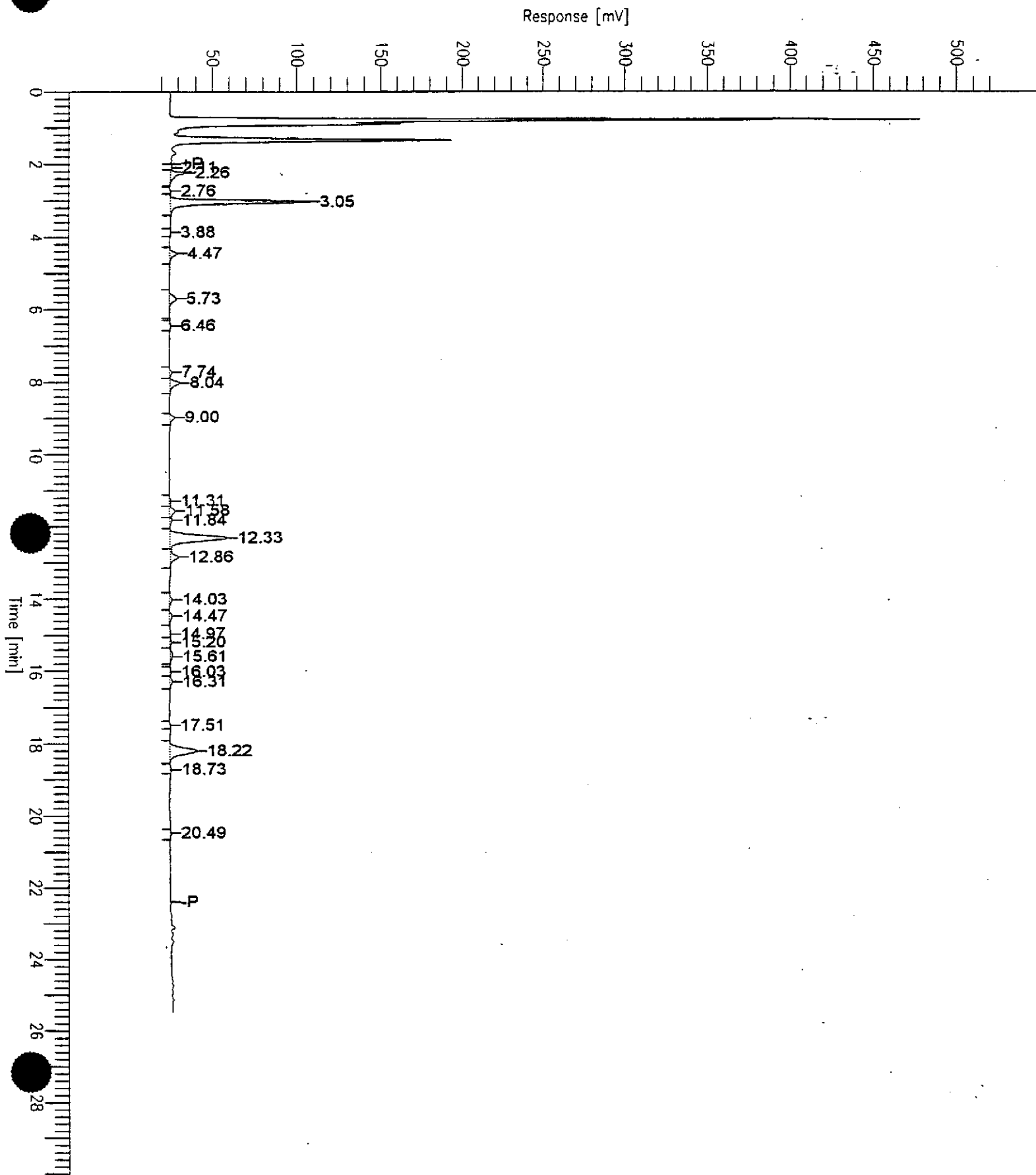
Report stored in ASCII file: S:\GHP_20\0225\222B024.TX0

Chromatogram

Sample Name : G9602C85-04C
FileName : S:\GHP_20\0225\222A024.raw
Method : TPH B
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 30.00 min
Plot Offset: 20 mV

Sample #: CPT7-43W
Date : 2/22/96 17:26
Time of Injection: 2/22/96 17:00
Low Point : 20.00 mV
Plot Scale: 500.0 mV
High Point : 520.00 mV



Software Version: 4.0<3H19>

Sample Name : G9602C85-04C

Time : 2/22/96 17:26

Sample Number: CPT7-43W

Study : EKI

Operator :

Instrument : GHP_20

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 3169270792 Data Acquisition Time: 2/22/96 17:00

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_20\0225\222A024.RAW

Result File : S:\GHP_20\0225\222A024.RST

Inst Method : S:\GHP_20\MET_SEQ\TPH_B from S:\GHP_20\0225\222A024.RST

Proc Method : S:\GHP_20\MET_SEQ\TPH_B

Calib Method : S:\GHP_20\MET_SEQ\TPH_B

Sequence File : S:\GHP_20\MET_SEQ\H200222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.400	74878	TPH-1	1.4946	0.2989	14.9457
	12.895	1016014	TPH-2	20.2797	4.0559	202.7971
		1090892		21.7743	4.3549	217.7428

Report stored in ASCII file: S:\GHP_20\0225\222A024.TX1

EXPANDED REPORT GCHP_20

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.107	6084.43	0.37	B

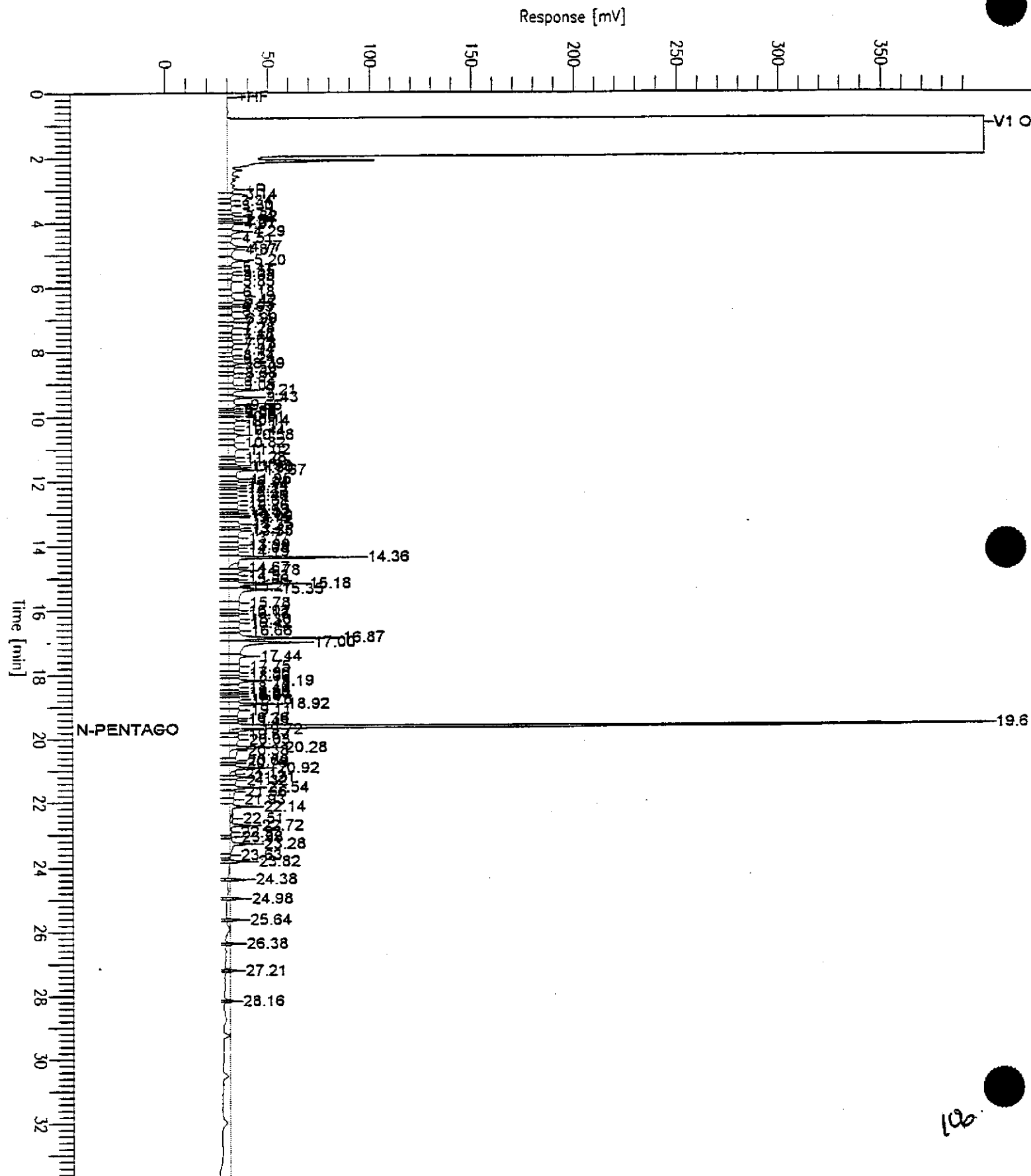
Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	2.263	64393.97	3.90	V
	2.759	4399.67	0.27	B
	3.052	559613.13	33.91	V
5	3.884	2512.40	0.15	B
6	4.470	37804.00	2.29	B
7	5.725	48807.60	2.96	B
8	6.464	6600.40	0.40	B
9	7.744	12683.89	0.77	B
10	8.037	55266.51	3.35	V
11	9.000	24012.80	1.45	B
12	11.306	9196.78	0.56	B
13	11.577	36963.97	2.24	V
14	11.837	14607.13	0.89	V
15	12.334	405767.74	24.58	V
16	12.857	58413.58	3.54	V
17	14.025	15572.00	0.94	B
18	14.470	16552.21	1.00	B
19	14.971	6434.99	0.39	V
20	15.202	9951.53	0.60	V
21	15.614	21190.87	1.28	V
22	16.032	7193.04	0.44	B
23	16.312	15275.76	0.93	V
24	17.505	1689.60	0.10	B
25	18.215	198637.60	12.03	B
	18.728	5056.00	0.31	B
27	20.486	5823.20	0.35	B

1650504.80 100.00

Report stored in ASCII file: S:\GHP_20\0225\222A024.TX2

Sample Name : D9602C85-4 (500:1)
FileName : S:\GHP_05\0225\224B033.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: CPT7-43W
Date : 2/25/96 09:53
Time of Injection: 2/25/96 09:18
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
End Time : 33.65 min
Plot Offset: 0 mV
High Point : 400.00 mV



100

Software Version: 4.0<3H19>

Sample Name : D9602C85-4 (500:1)

Time : 2/25/96 09:53

Sample Number: CPT7-43W

Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : B

A/D mV Range : 1000

Sampler : HP7673A

Rack/Vial : 0/33

Interface Serial # : NONE Data Acquisition Time: 2/25/96 09:18

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224B033.RAW

Result File : S:\GHP_05\0225\224B033.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224B033.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05B

Calib Method : S:\GHP_05\MET_SEQ\TPH05B

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05B

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9-n-C13 Paint Thinn	884719	86.1	1.4	57.4
8.250	n-C9 to n-C17 Jet	1995650	103.4	1.7	69.0
11.165	n-C9 to n-C24 TPH-D	4389863	231.1	3.9	154.0
17.340	n-C9 to n-C40 Total	7735939	515.7	8.6	343.8
19.785	n-C16 to n-C36 M/Oil	6026990	401.8	6.7	267.9
		21033161	1338.2		

Report stored in ASCII file: S:\GHP_05\0225\224B033.TX0

Peak	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.139		25096	0.0	1.1

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
2	3.337		14324	0.0	0.6
3	3.498		23191	0.0	1.0
4	3.715		16337	0.0	0.7
5	3.824		24074	0.0	1.1
6	3.935		11941	0.0	0.5
7	4.007		12706	0.0	0.6
8	4.066		25504	0.0	1.1
9	4.294		45017	0.1	2.0
10	4.506		22560	0.0	1.0
11	4.774		40676	0.0	1.8
12	4.868		36272	0.0	1.6
13	5.197		57573	0.1	2.6
14	5.413		9395	0.0	0.4
15	5.552		21517	0.0	1.0
16	5.650		23033	0.0	1.0
17	5.846		31840	0.0	1.4
18	6.180		22500	0.0	1.0
19	6.420		33321	0.0	1.5
20	6.549		13616	0.0	0.6
21	6.625		7302	8.1e-03	0.3
22	6.769		22949	0.0	1.0
23	6.986		35407	0.0	1.6
24	7.112		18408	0.0	0.8
25	7.284		28619	0.0	1.3
26	7.479		16439	0.0	0.7
27	7.644		13399	0.0	0.6
28	7.776		26956	0.0	1.2
29	7.939		20997	0.0	0.9
30	8.136		15165	0.0	0.7
31	8.238		20912	0.0	0.9
32	8.388		33848	0.0	1.5
33	8.501		32018	0.0	1.4
34	8.684		19370	0.0	0.9
35	8.817		35430	0.0	1.6
36	9.054		27007	0.0	1.2
37	9.205		60726	0.1	2.7
38	9.429		58925	0.1	2.6
39	9.655		44813	0.0	2.0
40	9.782		11157	0.0	0.5
41	9.860		11571	0.0	0.5
42	9.919		16313	0.0	0.7
43	10.010		9339	0.0	0.4
44	10.138		37179	0.0	1.7
45	10.308		33933	0.0	1.5
46	10.435		24330	0.0	1.1
47	10.581		48053	0.1	2.1
48	10.816		32115	0.0	1.4
49	11.022		78501	0.1	3.5
50	11.283		20740	0.0	0.9
51	11.400		24387	0.0	1.1
52	11.523		26658	0.0	1.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
53	11.595		23914	0.0	1.1
54	11.669		77486	0.1	3.4
	11.949		44092	0.0	2.0
56	12.041		25131	0.0	1.1
57	12.143		23499	0.0	1.0
58	12.229		16112	0.0	0.7
59	12.332		33470	0.0	1.5
60	12.460		30309	0.0	1.3
61	12.611		44265	0.0	2.0
62	12.764		54566	0.1	2.4
63	12.927		25435	0.0	1.1
64	13.015		20631	0.0	0.9
65	13.086		28099	0.0	1.2
66	13.147		41057	0.0	1.8
67	13.350		52252	0.1	2.3
68	13.473		31875	0.0	1.4
69	13.552		68056	0.1	3.0
70	13.773		48501	0.1	2.2
71	13.986		40461	0.0	1.8
72	14.081		21901	0.0	1.0
73	14.193		48402	0.1	2.2
74	14.363		232496	0.3	10.3
75	14.674		41578	0.0	1.8
76	14.779		59012	0.1	2.6
77	14.933		40689	0.0	1.8
	15.064		18346	0.0	0.8
79	15.184		142544	0.2	6.3
80	15.274		1302	1.4e-03	0.1
81	15.351		194474	0.2	8.6
82	15.779		72748	0.1	3.2
83	16.018		34803	0.0	1.5
84	16.126		22954	0.0	1.0
85	16.301		57908	0.1	2.6
86	16.415		61087	0.1	2.7
87	16.655		46276	0.1	2.1
88	16.867		209463	0.2	9.3
89	17.004		268830	0.3	11.9
90	17.440		113717	0.1	5.1
91	17.751		61077	0.1	2.7
92	17.959		39412	0.0	1.8
93	18.059		27488	0.0	1.2
94	18.194		90873	0.1	4.0
95	18.402		49156	0.1	2.2
96	18.527		22598	0.0	1.0
97	18.596		19803	0.0	0.9
98	18.667		19644	0.0	0.9
99	18.778		45598	0.1	2.0
	18.916		108230	0.1	4.8
101	19.107		64786	0.1	2.9
102	19.364		26851	0.0	1.2
103	19.452		26890	0.0	1.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
104	19.614		2390762	2.7	106.3
105	19.717	n-Pentacosane	52592	0.0	1.9
106	19.873		34200	0.0	1.5
107	20.033		62702	0.1	2.8
108	20.279		82900	0.1	3.7
109	20.375		53802	0.1	2.4
110	20.690		27229	0.0	1.2
111	20.761		15627	0.0	0.7
112	20.921		80102	0.1	3.6
113	21.112		21731	0.0	1.0
114	21.212		34176	0.0	1.5
115	21.322		29137	0.0	1.3
116	21.543		57786	0.1	2.6
117	21.664		34304	0.0	1.5
118	21.925		20506	0.0	0.9
119	22.142		61886	0.1	2.8
120	22.513		18380	0.0	0.8
121	22.720		39590	0.0	1.8
122	22.929		9250	0.0	0.4
123	23.082		4792	5.3e-03	0.2
124	23.281		61872	0.1	2.7
125	23.627		2810	3.1e-03	0.1
126	23.824		26010	0.0	1.2
127	24.383		21265	0.0	0.9
128	24.982		16039	0.0	0.7
129	25.641		12668	0.0	0.6
130	26.377		8740	9.7e-03	0.4
131	27.211		8219	9.1e-03	0.4
132	28.159		3258	3.6e-03	0.1

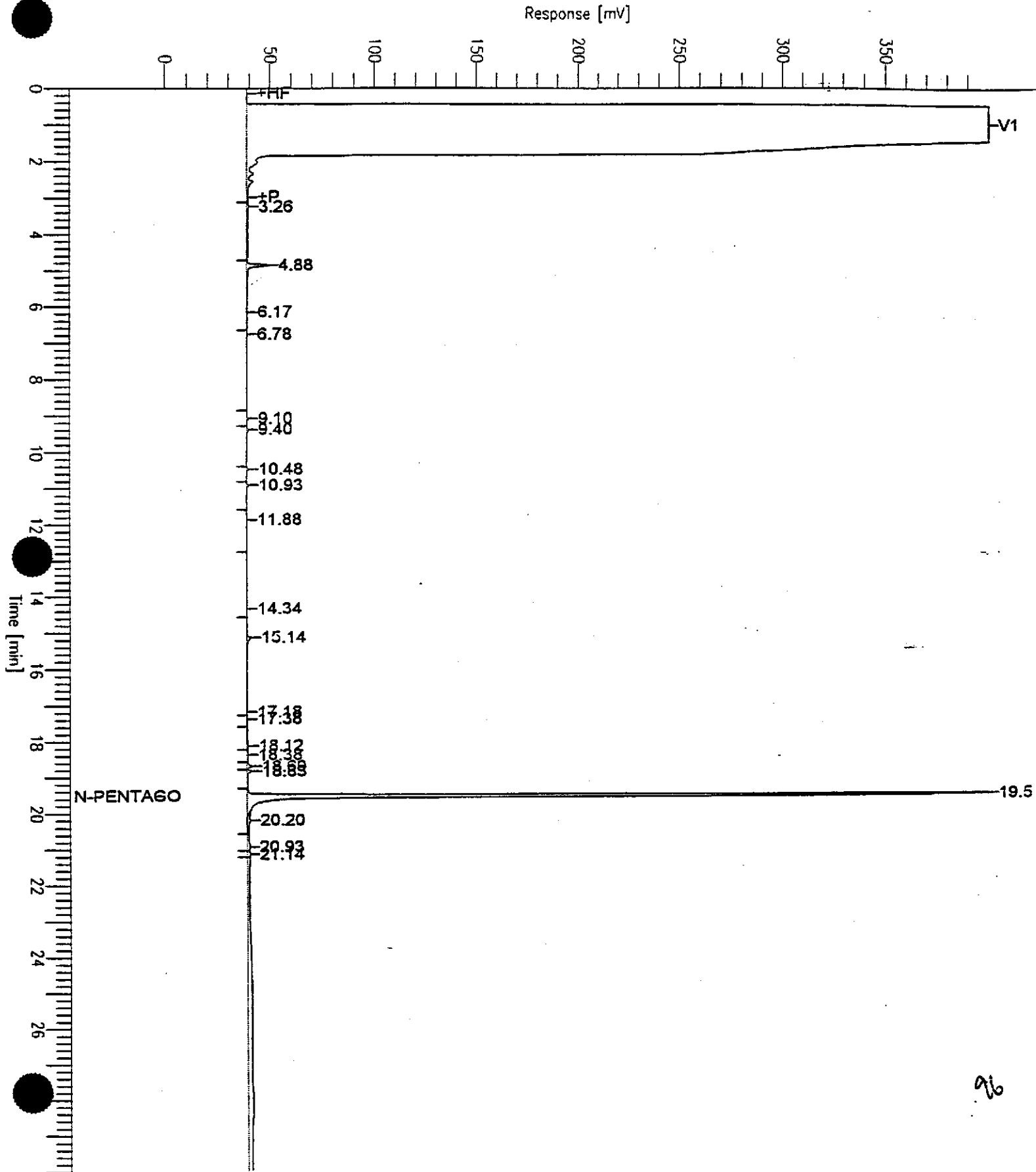
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Report stored in ASCII file: S:\GHP_05\0225\224B033.TX1

Sample Name : GC0223960HBPEXZ (500:1) 3520
FileName : S:\GHP_04\0225\224A026.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: BLK022396X
Date : 2/25/96 02:36
Time of Injection: 2/25/96 02:03
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



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Software Version: 4.0<3H19>

Sample Name : GC0223960HBPEXZ (500:1) 3520 Time : 2/25/96 02:36
Sample Number: BLK022396X Study : SAL (METH BLK)
Operator : JM

Instrument : GCHP_04 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/76

Interface Serial # : NONE Data Acquisition Time: 2/25/96 02:03
Delay Time : 0.00 min.
End Time : 33.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0225\224A026.RAW
Result File : S:\GHP_04\0225\224A026.RST
Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0225\224A026.RST
Proc Method : S:\GHP_04\MET_SEQ\TPH04A
Calib Method : S:\GHP_04\MET_SEQ\TPH04A
Sequence File : S:\GHP_04\MET_SEQ\H040224.SEQ

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

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	243402	12.8	0.2	8.5
11.000	n-C9 to n-C24 TPH-D	380781	21.4	0.4	14.2
16.950	n-C9 to n-C40 Total	2874205	191.6	3.2	127.7
19.350	n-C16 to n-C36 M/Oil	2630804	175.4	2.9	116.9
		6129192	401.2		

Report stored in ASCII file: S:\GHP_04\0225\224A026.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.263		57890	0.1	2.6
2	4.882		77499	0.1	3.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
3	6.173		17093	0.0	0.8
4	6.777		36008	0.0	1.6
5	9.099		8906	9.9e-03	0.4
6	9.396		17095	0.0	0.8
7	10.477		7160	8.0e-03	0.3
8	10.926		9931	0.0	0.4
9	11.877		11819	0.0	0.5
10	14.339		19805	0.0	0.9
11	15.140		33100	0.0	1.5
12	17.177		16206	0.0	0.7
13	17.376		6270	7.0e-03	0.3
14	18.119		15504	0.0	0.7
15	18.375		10711	0.0	0.5
16	18.688		13355	0.0	0.6
17	18.831		22429	0.0	1.0
18	19.521	n-Pentacosane	2410819	2.4	96.0
19	20.197		39462	0.0	1.8
20	20.933		29519	0.0	1.3
21	21.138		13624	0.0	0.6

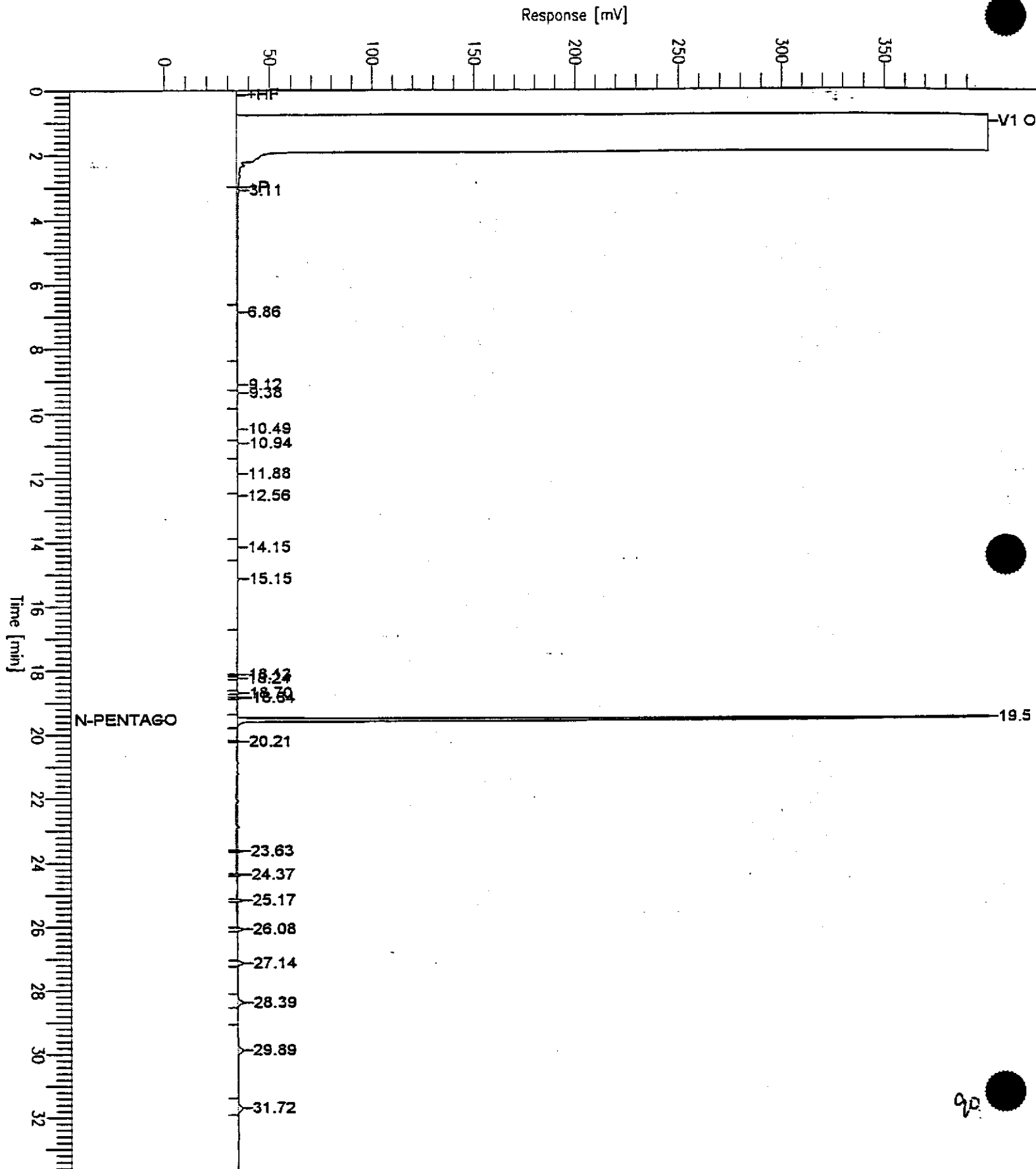
2874205

Report stored in ASCII file: S:\GHP_04\0225\224A026.TX1

Sample Name : GC0223960HBPEXA (20:1) 3550/DHS
FileName : S:\GHP_05\0225\224A006.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: HLK022396A
Date : 2/24/96 15:24
Time of Injection: 2/24/96 14:51
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



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Software Version: 4.0<3H19>

Sample Name : GC0223960HBPEXA (20:1) 3550/DHS Time : 2/24/96 15:24

Sample Number: BLK022396A

Study : SAL (METH BLK)

Operator : JM

Instrument : GCHP_05

Channel : A

A/D mV Range : 1000

Sampler : HP7673A

Rack/Vial : 0/56

Interface Serial # : NONE Data Acquisition Time: 2/24/96 14:51

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224A006.RAW

Result File : S:\GHP_05\0225\224A006.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224A006.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	145008	9.0	0.2	6.0
8.250	n-C9 to n-C17 Jet Fuel	196639	9.2	0.2	6.1
11.015	n-C9 to n-C24 TPH-D	230153	10.7	0.2	7.2
16.950	n-C9 to n-C40 Total	2994507	199.6	3.3	133.1
19.390	n-C16 to n-C36 M/Oil	2731431	182.1	3.0	121.4
		6297737	410.7		

Report stored in ASCII file: S:\GHP_05\0225\224A006.TX0

Peak	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.108		106281	0.1	4.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	6.862		26315	0.0	1.2
3	9.123		12412	0.0	0.6
4	9.375		9474	0.0	0.4
5	10.494		11330	0.0	0.5
6	10.936		7679	8.5e-03	0.3
7	11.879		10212	0.0	0.5
8	12.564		12936	0.0	0.6
9	14.154		5744	6.4e-03	0.3
10	15.146		16542	0.0	0.7
11	18.130		1201	1.3e-03	0.1
12	18.242		628	7.0e-04	0.0
13	18.698		3575	4.0e-03	0.2
14	18.844		5824	6.5e-03	0.3
15	19.537	n-Pentacosane	2655154	2.3	90.3
16	20.214		1658	1.8e-03	0.1
17	23.630		3529	3.9e-03	0.2
18	24.368		5607	6.2e-03	0.2
19	25.167		7741	8.6e-03	0.3
20	26.077		11291	0.0	0.5
21	27.135		15891	0.0	0.7
22	28.385		22244	0.0	1.0
23	29.888		41238	0.0	1.8
24	31.716		27526	0.0	1.2

3022033

Report stored in ASCII file: S:\GHP_05\0225\224A006.TX1



Erter & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Lab Proj. ID: 9602C57

Sampled: 02/16/96
Received: 02/16/96
Analyzed: see below

Attention: Andy Safford

Reported: 03/01/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602C57-01 Sample Desc: LIQUID,CPT5-13W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602C57-02 Sample Desc: LIQUID,CPT5-33W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602C57-03 Sample Desc: LIQUID,CPT4-E				
Arsenic	mg/L	02/26/96	0.0050	N.D.
Lab No: 9602C57-04 Sample Desc: SOLID,CPT4-10.5S				
Arsenic	mg/Kg	02/24/96	5.0	N.D.
Lab No: 9602C57-05 Sample Desc: LIQUID,CPT4-12W				
Arsenic	mg/L	02/29/96	0.0050	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Eler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech

Lab Proj. ID: 9602C57

Sampled:
Received: 02/16/96
Analyzed: see below

Attention: Andy Safford

Reported: 03/01/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602C57-07 Sample Desc: LIQUID, Method Blank				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602C57-08 Sample Desc: SOLID, Method Blank				
Arsenic	mg/Kg	02/24/96	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT5-13W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C57-01	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
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QC Batch Number: GC022296BTEX21A
Instrument ID: GCHP21


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	570
Benzene	0.50	7.4
Toluene	0.50	1.2
Ethyl Benzene	0.50	10
Xylenes (Total)	0.50	5.2
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	105

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Product Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT5-13W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C57-01	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	450 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Eler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT5-13W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-01

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

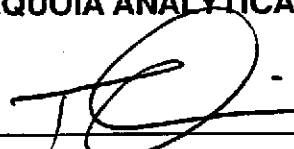
QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	85

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Plant Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT5-13W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C57-01	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/27/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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.
Freon 113	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	97

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

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager

Page:





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT5-33W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C57-02	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022296BTEX21A
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

Olive
Product Manager





Erier & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT5-33W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-02

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

Attention: Andy Safford

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	140 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT5-33W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C57-02	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
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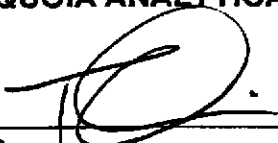
QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 90

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Erier & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT5-33W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C57-02	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/26/96 Reported: 02/28/96
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QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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	2.3
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.
Freon 113	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erter & Kalinowski, Inc.
 1730 South Amphlett, Ste 320
 San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
 Sample Descript: CPT4-E
 Matrix: LIQUID
 Analysis Method: EPA 8010
 Lab Number: 9602C57-03

Sampled: 02/16/96
 Received: 02/16/96
 Analyzed: 02/26/96
 Reported: 02/28/96

QC Batch Number: GC022696801008A
 Instrument ID: GCHP8

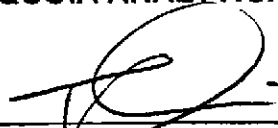
Halogenated Volatile Organics (EPA 8010)

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.
Dichloroethane	0.50	N.D.
1,1-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.
Freon 113	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	107

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

SEQUOIA ANALYTICAL - ELAP #1210


 T. Olive
 Project Manager





Erler & Kainowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT4-10.5S Matrix: SOLID Analysis Method: EPA 8010 Lab Number: 9602C57-04	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/26/96 Reported: 02/28/96
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QC Batch Number: GC0223968010EXA
Instrument ID: GCHP16

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Freon 113	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	76

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

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT4-10.5S Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602C57-04	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/24/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	72

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Project Manager





Erlar & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT4-10.5S
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9602C57-04

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/23/96
Reported: 02/28/96

QC Batch Number: GC022396BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erier & Kallinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT4-10.5S
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-04

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/24/96
Reported: 02/28/96


QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil Chromatogram Pattern:	10	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	72

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

SEQUOIA ANALYTICAL - ELAP #1210



Tracy Olive
Facility Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT4-12W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C57-05	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/27/96 Reported: 02/28/96
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QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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	3.8
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	1.6
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.
Freon 113	1.0	N.D.

Surrogates

1-Chloro-2-fluorobenzene

Control Limits %
70 130

% Recovery
97

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT4-12W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C57-05	Sampled: 02/16/96 Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
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QC Batch Number: GC022296BTEX21A
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	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Tom Olive
Product Manager





Erter & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotec
Sample Descript: CPT4-12W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-05

Sampled: 02/16/96
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/26/96
Reported: 02/28/96

Attention: Andy Safford

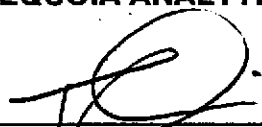
QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	250	990
Chromatogram Pattern: Unidentified HC	C9-C24	NonDiesel
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	114

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erlar & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotec Sample Descript: CPT4-12W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C57-05	Sampled: 02/16/96 Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/26/96 Reported: 02/28/96
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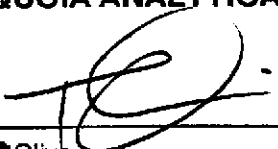
QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	2500	1700
Chromatogram Pattern: Unidentified HC	C16-C36	Non-M.O.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	114

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Product Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT5-DUP
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602C57-06

Sampled: 02/16/96
Received: 02/16/96
Analyzed: 02/27/96
Reported: 02/28/96

QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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	2.5
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.
1,1,1,2-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.
Freon 113	1.0	N.D.

Surrogates

1-Chloro-2-fluorobenzene

Control Limits %

70 130

% Recovery

88

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager

Page:





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602C57-07	Sampled: Received: 02/16/96 Analyzed: 02/22/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022296BTEX21A
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	76

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Project Manager





Erier & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotec
Sample Descript: Method Blank
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602C57-07

Sampled:
Received: 02/16/96
Analyzed: 02/27/96
Reported: 02/28/96

QC Batch Number: GC022696801008A
Instrument ID: GCHP8

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.
Freon 113	1.0	N.D.


Surrogates
1-Chloro-2-fluorobenzene

Control Limits %
70 130

% Recovery
89

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erter & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602C57-07	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/25/96 Reported: 02/28/96
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QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	96

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Product Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: Method Blank
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-07

Sampled:
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/25/96
Reported: 02/28/96

Attention: Andy Safford

QC Batch Number: GC0223960HBPEXZ
Instrument ID: GCHP4A

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	96

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kainowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8010 Lab Number: 9602C57-08	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/26/96 Reported: 02/28/96
Attention: Andy Safford		


QC Batch Number: GC0223968010EXA
 Instrument ID: GCHP16

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
Dichloroethane	5.0	N.D.
Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Freon 113	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	78

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

SEQUOIA ANALYTICAL - ELAP #1210


 T. Olive
 Product Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9602C57-08	Sampled: Received: 02/16/96 Extracted: 02/23/96 Analyzed: 02/23/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022396BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402
Attention: Andy Safford

Client Proj. ID: 930040.02/Ekotek
Sample Descript: Method Blank
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-08

Sampled:
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/24/96
Reported: 02/28/96

QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Product Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: Method Blank
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9602C57-08

Sampled:
Received: 02/16/96
Extracted: 02/23/96
Analyzed: 02/24/96
Reported: 02/28/96

QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil Chromatogram Pattern:	10	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602C57-09	Sampled: Received: 02/16/96 Analyzed: 02/26/96 Reported: 02/28/96
Attention: Andy Safford		

QC Batch Number: GC022696801008A
 Instrument ID: GCHP8

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.
Dichloroethane	0.50	N.D.
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.
Freon 113	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	75

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

SEQUOIA ANALYTICAL - ELAP #1210

Tom Olive
 Project Manager





Ertler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402
Attention: Andy Safford

Client Proj. ID: 930040.02/Ekotech

Received: 02/16/96

Lab Proj. ID: 9602C57

Reported: 03/01/96

LABORATORY NARRATIVE

TEPH Note: The total extractable petroleum hydrocarbon and fuel fingerprint chromatogram patterns for samples CPT5-33W and CPT4-12W do not resemble a petroleum product. The quantitated values are most likely due to some other type of organic matter in the water samples.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotek
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT4-10.5S
 Attention: Andy Safford Work Order #: 9602C57 04, 08 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0223966010MDG	ME0223966010MDG	ME0223966010MDG	ME0223966010MDG
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	0.068	N.D.	9.6	22
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/24/96	02/24/96	02/24/96	02/24/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	10 mg/Kg	10 mg/Kg	10 mg/Kg	10 mg/Kg
Result:	9.6	9.0	18	30
MS % Recovery:	95	90	84	80
Dup. Result:	9.5	8.8	18	31
MSD % Recov.:	94	88	84	90
RPD:	1.0	2.2	0.0	3.3
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/24/96	02/24/96	02/24/96	02/24/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	96	98	98
LCS % Recov.:	100	96	98	98

MS/MSD LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


 Todd Olive
 Project Manager

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

9602C57.ERL <1>





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

Client Project ID: 930040.02/Ekotech
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602C57 03, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Arsenic
QC Batch#: ME0223967000MDA
Analy. Method: EPA 206.2
Prep. Method: EPA 3020

Analyst: W.Thant
MS/MSD #: 9602D04-03-XSD
Sample Conc.: N.D.
Prepared Date: 02/23/96
Analyzed Date: 02/26/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

Result: 0.053
MS % Recovery: 106

Dup. Result: 0.050
MSD % Recov.: 100

RPD: 5.8
RPD Limit: 0-30

LCS #: LCS022396-LCS
Prepared Date: 02/23/96
Analyzed Date: 02/26/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L
LCS Result: 0.053
LCS % Recov.: 106

MS/MSD
LCS 75-125
Control Limits

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

9602C57.ERL <2>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: CPT-1-11W
Work Order #: 9602C57 01, 02, 05, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Arsenic

QC Batch#: ME0229967000MDC
Analy. Method: EPA 206.2
Prep. Method: EPA 3020

Analyst: W.Thant
MS/MSD #: 9602C85-02-MSD
Sample Conc.: 0.017
Prepared Date: 02/29/96
Analyzed Date: 02/29/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

Result: 0.068
MS % Recovery: 102

Dup. Result: 0.070
MSD % Recov.: 106

RPD: 2.9
RPD Limit: 0-30

LCS #: LCS022996-LCS

Prepared Date: 02/29/96
Analyzed Date: 02/29/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

LCS Result: 0.046
LCS % Recov.: 92

**MS/MSD
LCS** 75-125
Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602C57.ERL <3>





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

Client Project ID: 930040.02/Ekotech
Matrix: SOLID
Sample Descript: CPT4-10.5S
Work Order #: 9602C57 04, 08

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC0223960HBPEXA
Analy. Method: EPA 8015M
Prep. Method: EPA 3550/DHS

Analyst: J. Minkel
MS/MSD #: 9602C57-04-MSD
Sample Conc.: N.D.
Prepared Date: 02/23/96
Analyzed Date: 02/24/96
Instrument I.D.#: GCHP5A
Conc. Spiked: 25 mg/Kg

Result: 23
MS % Recovery: 92

Dup. Result: 20
MSD % Recov.: 80

RPD: 14
RPD Limit: 0-50

LCS #: LCS022396-LCS

Prepared Date: 02/23/96
Analyzed Date: 02/24/96
Instrument I.D.#: GCHP5A
Conc. Spiked: 25 mg/Kg

LCS Result: 27
LCS % Recov.: 108

**MS/MSD
LCS
Control Limits** 50-150

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





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

Client Project ID: 930040.02/Ekotech
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602C57 01, 02, 05, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0223960HBPEXZ
Analy. Method: EPA 8015M
Prep. Method: EPA 3520

Analyst: J. Minkel
MS/MSD #: 9602B78-06-XSD
Sample Conc.: 150
Prepared Date: 02/23/96
Analyzed Date: 02/25/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 1000 µg/L

Result: 1100
MS % Recovery: 95

Dup. Result: 1100
MSD % Recov.: 95

RPD: 0.0
RPD Limit: 0-50

LCS #: LCS022396-LCS

Prepared Date: 02/23/96
Analyzed Date: 02/25/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 1000 µg/L

LCS Result: 970
LCS % Recov.: 97

**MS/MSD
LCS** 50-150
Control Limits

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

9602C57.ERL <5>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602C57 01, 02, 05, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022296BTEX21A	GC022296BTEX21A	GC022296BTEX21A	GC022296BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9602657-04-XSD	9602657-04-XSD	9602657-04-XSD	9602657-04-XSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/22/96	02/22/96	02/22/96	02/22/96
Analyzed Date:	02/22/96	02/22/96	02/22/96	02/22/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.6	8.2	7.7	22
MS % Recovery:	86	82	77	73
Dup. Result:	8.3	8.6	9.6	29
MSD % Recov.:	83	86	96	97
RPD:	3.6	4.8	22	27
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022296-LCS	LCS022296-LCS	LCS022296-LCS	LCS022296-LCS
Prepared Date:	02/22/96	02/22/96	02/22/96	02/22/96
Analyzed Date:	02/22/96	02/22/96	02/22/96	02/22/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.5	9.2	9.0	27
LCS % Recov.:	95	92	90	90

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602C57.ERL <6>





Eler & Kainowski, Inc. Client Project ID: 930040.02/Ekotek
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT4-10.5S
 Attention: Andy Safford Work Order #: 9602C57 04, 08 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022396BTEXEXA	GC022396BTEXEXA	GC022396BTEXEXA	GC022396BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Padilla	J. Padilla	J. Padilla	J. Padilla
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/23/96	02/23/96	02/23/96	02/23/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.19	0.20	0.19	0.59
MS % Recovery:	95	100	95	98

Dup. Result:	0.18	0.19	0.19	0.57
MSD % Recov.:	90	95	95	95

RPD:	5.4	5.1	0.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/23/96	02/23/96	02/23/96	02/23/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.20	0.20	0.60
LCS % Recov.:	95	100	100	100

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150
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Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
 Project Manager

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

9602C57.ERL <7>





Eriar & Kalinowski, Inc.	Client Project ID: 930040.02/Ekotech
1730 So. Amphlett Blvd., Suite 320	Matrix: LIQUID
San Mateo, CA 94402	Sample Descript: CPT4-E
Attention: Andy Safford	Work Order #: 9602C57 01, 05, 06, 07
	Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC022696801008A	GC022696801008A	GC022696801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	9602C57-03-MSD	9602C57-03-MSD	9602C57-03-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	28	26	26
MS % Recovery:	112	104	104
Dup. Result:	28	27	26
MSD % Recov.:	112	108	104
RPD:	0.0	3.8	0.0
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	23	23
LCS % Recov.:	100	92	92

MS/MSD LCS Control Limits	30-140	40-130	40-130
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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





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

Client Project ID: 930040.02/Ekotech
Matrix: LIQUID
Sample Descript: CPT4-E
Work Order #: 9602C57 02, 03, 09

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC022696801008A	GC022696801008A	GC022696801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	9602C57-03-MSD	9602C57-03-MSD	9602C57-03-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L

Result:	28	26	26
MS % Recovery:	112	104	104

Dup. Result:	28	27	26
MSD % Recov.:	112	108	104

RPD:	0.0	3.8	0.0
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	26	26
LCS % Recov.:	108	104	104

MS/MSD LCS Control Limits	30-140	40-130	40-130
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SEQUOIA ANALYTICAL

Todd Olive
 Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

9602C57.ERL <9>





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

Client Project ID: 930040.02/Ekotek
Matrix: SOLID
Sample Descript: CPT4-10.5S
Work Order #: 9602C57 04, 08

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC0223968010EXA	GC0223968010EXA	GC0223968010EXA
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Li	A. Li	A. Li
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	ND.	ND.	ND.
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg
Result:	16	19	16
MS % Recovery:	64	76	64
Dup. Result:	18	22	19
MSD % Recov.:	72	88	76
RPD:	12	15	17
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg
LCS Result:	29	26	22
LCS % Recov.:	116	104	88

MS/MSD LCS Control Limits	30-140	40-130	40-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

SEQUOIA ANALYTICAL


Todd Olive
Project Manager



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory: Sequoia

Project Number: EKI 930040.02

Date Sampled: 2/16/95

Project Name: EVOTEK

Sampled By: BETH LAMB

Source of Samples: PIPP

Report Results To: ANDY SAPPOLD

Location: OAKLAND CA

9602257

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)
	CPT5-15W	WATER	4 VOA - 1 LITER AMBER	9:15	8015, TPH-d, TPH-g BTEX	Normal
	CPT5-33W	WATER	"	9:50	FUEL FINGER PRINT AS MOTOR OIL	↓
(3)	CPT4-2*	WATER	3 VOAs	11:20	VOC - 8010 ARSENIC - 7060	
	CPT4-10.55	SOIL	1 SS LINER	12:30	"	
(4)	CPT4-12W	WATER	4 VOAs - 1 LITER AMBER	11:45	"	
	CPT5-DUP	WATER	2 VOA	9:50	8010 ONLY	

Special Instructions:

* 8010 only

Relinquished By:
Name / Signature / Affiliation

Received By:
Name / Signature / Affiliation

<u>Beth Lamb</u>	<u>[Signature]</u>	<u>/EKI</u>	<u>2/16/95</u>	<u>3:30</u>	<u>[Signature]</u>	<u>Sequoia</u>
					<u>[Signature]</u>	<u>Sequoia 2/16/95 164P</u>

Chromatogram

Sample Name : GBLK022396A

FileName : S:\GHP_18\0225\223B003.raw

Method : TPH

Start Time : 0.00 min

Scale Factor: -1.0

End Time : 26.99 min

Plot Offset: 15 mV

Sample #: METH BLK

Date : 2/23/96 10:28

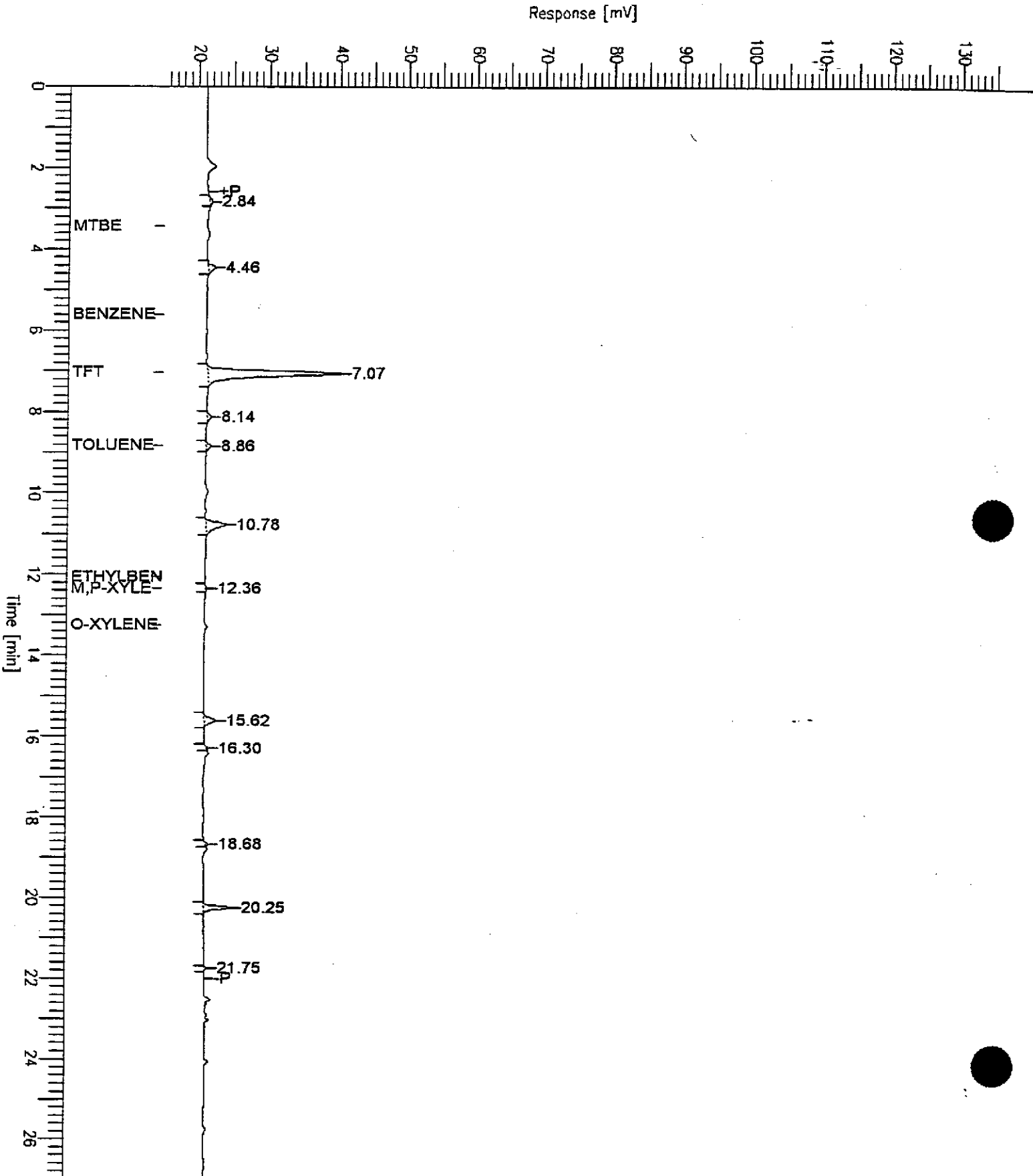
Time of Injection: 2/23/96 10:01

Low Point : 15.19 mV

Plot Scale: 120.0 mV

Page 1 of 1

High Point : 135.19 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022396A

Time : 2/23/96 10:28

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GCHP_18

Channel : B

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : 28417/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 10:01

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223B003.RAW

Result File : S:\GHP_18\0225\223B003.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223B003.RST

Proc Method : S:\GHP_18\MET_SEQ\BTEX

Calib Method : S:\GHP_18\MET_SEQ\BTEX

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
1	2.844	3265		6.5309e-06	0.0003	0.0033
2	4.460	8430		0.0000	0.0008	0.0084
3	7.066	180270	TFT	0.1722	8.6085	86.0845
4	8.138	5140		0.0000	0.0005	0.0051
5	8.855	4814	Toluene	0.0018	0.0895	0.8948
6	10.781	28015		0.0001	0.0028	0.0280
7	12.357	1674	m,p-Xylenes	0.0006	0.0295	0.2950
8	15.621	14178		0.0000	0.0014	0.0142
9	16.303	1582		3.1638e-06	0.0002	0.0016
10	18.678	1921		3.8429e-06	0.0002	0.0019
11	20.253	22263		0.0000	0.0022	0.0223
12	21.751	1464		2.9284e-06	0.0001	0.0015
		273018		0.1747	8.7361	87.3605

Missing Component Report
Component

Expected Retention (Calibration File)

MTBE	3.453
Benzene	5.614
Ethylbenzene	12.065
o-Xylene	13.263

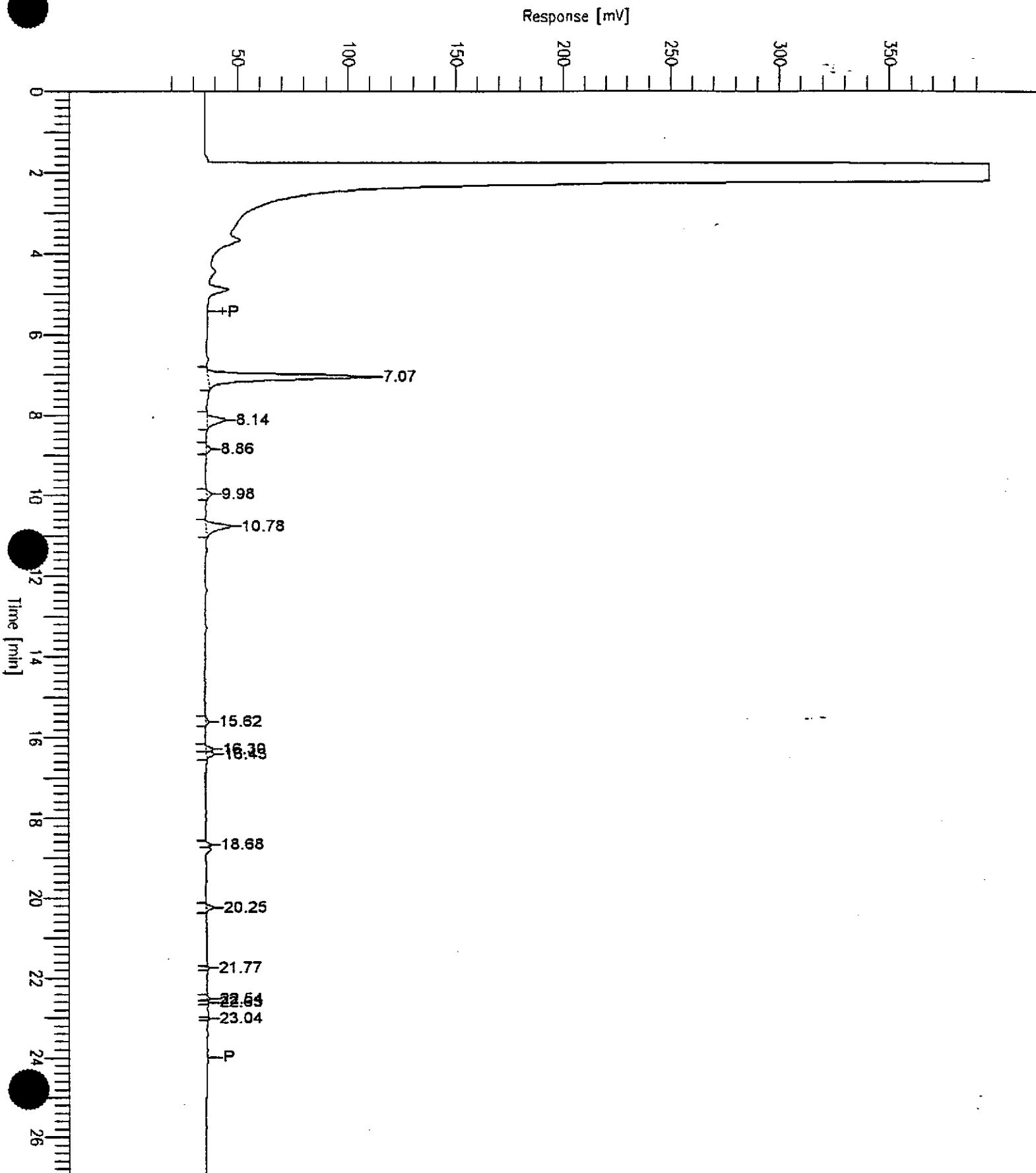
Report stored in ASCII file: S:\GHP_18\0225\223B003.TX0

Chromatogram

Sample Name : GBLK022396A
FileName : S:\GHP_18\0225\223A003.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.99 min
Plot Offset: 16 mV

Sample #: METH BLK
Date : 2/23/96 10:28
Time of Injection: 2/23/96 10:01
Low Point : 16.21 mV
High Point : 396.21 mV
Plot Scale: 380.0 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022396A

Time : 2/23/96 10:28

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GCHP_18

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : 28417/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 10:01

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223A003.RAW

Result File : S:\GHP_18\0225\223A003.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223A003.RST

Proc Method : S:\GHP_18\MET_SEQ\TPH

Calib Method : S:\GHP_18\MET_SEQ\TPH

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	15.775	331937	TPH-2	0.1020	5.0989	50.9888
		331937		0.1020	5.0989	50.9888

EXPANDED REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	7.067	710078.44	68.14	B
2	8.139	84403.69	8.10	B
3	8.859	14349.33	1.38	B
4	9.979	18565.81	1.78	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
6	10.781	115594.91	11.09	B
7	15.622	11544.51	1.11	B
8	16.304	21452.01	2.06	B
9	16.433	25012.32	2.40	V
10	18.678	7500.70	0.72	B
11	20.254	20999.71	2.02	B
12	21.766	3624.22	0.35	B
13	22.538	4747.90	0.46	B
14	22.630	2292.16	0.22	V
	23.036	1849.92	0.18	B

1042015.64 100.00

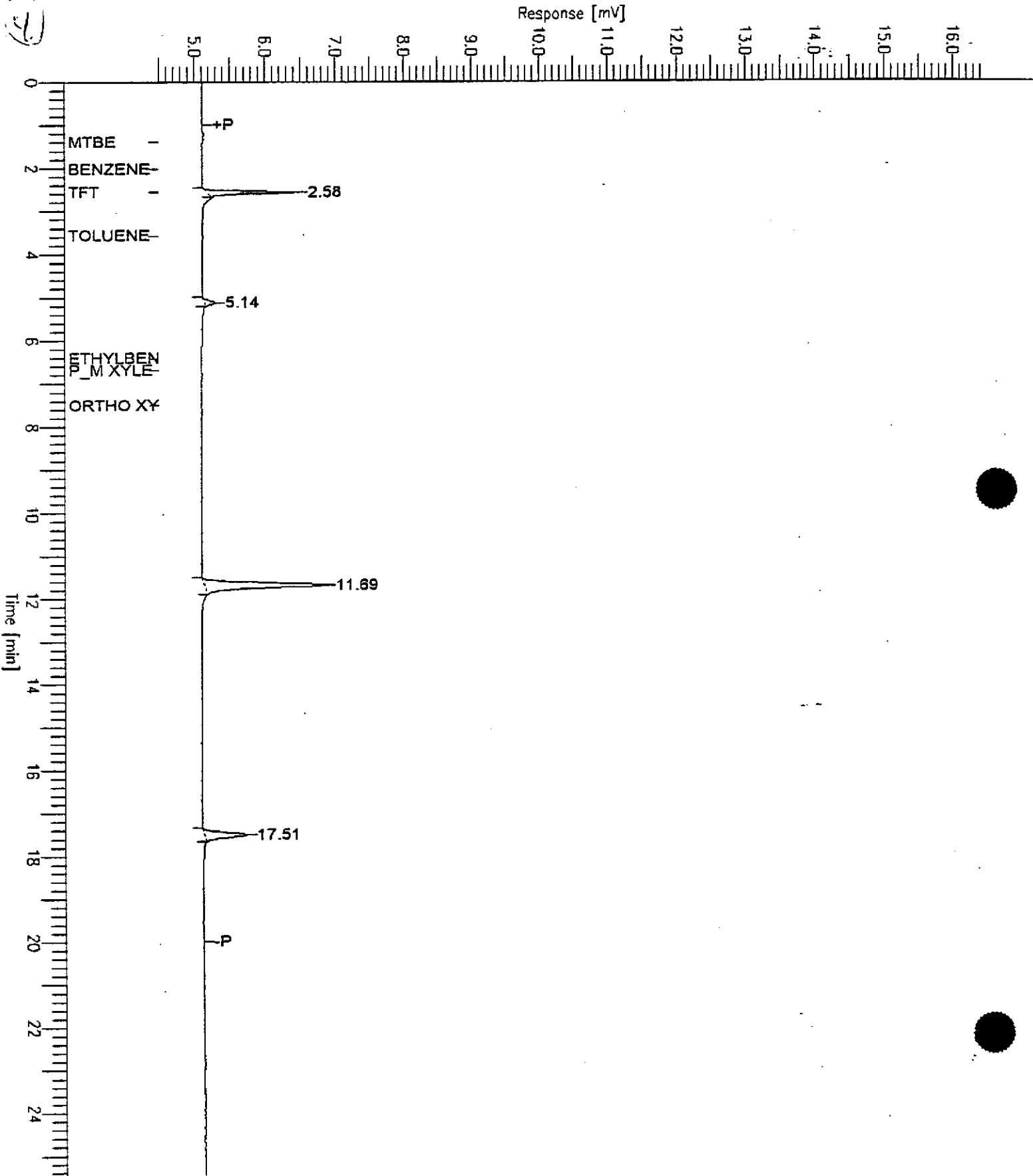
Chromatogram

Sample Name : GBLK022296A
FileName : S:\GHP_21\0225\221B038.raw
Method : TPH A
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 25.49 min
Plot Offset: 4 mV

Sample #: METH BLK
Date : 2/22/96 09:16
Time of Injection: 2/22/96 04:53
Low Point : 4.49 mV
High Point : 15.49 mV
Plot Scale: 12.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : GBLK022296A

Time : 2/22/96 09:16

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GHP_21

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 04:53

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\221B038.RAW

Result File : S:\GHP_21\0225\221B038.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\221B038.RST

Proc Method : S:\GHP_21\MET_SEQ\BTEX_A.mth

Calib Method : S:\GHP_21\MET_SEQ\BTEX_A.mth

Sequence File : S:\GHP_21\MET_SEQ\H210221.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
1	2.576	5358	TFT	7.5804	1.5161	75.8035
3	11.686	14259		0.0014	0.0003	0.0143
4	17.506	4852		0.0005	0.0001	0.0049
24469				7.5823	1.5165	75.8226

Missing Component Report

Component Expected Retention (Calibration File)

MTBE	1.407
BENZENE	2.041
TOLUENE	3.588
ETHYLBENZENE	6.417
P M XYLENES	6.697
ORTHO XYLENE	7.523

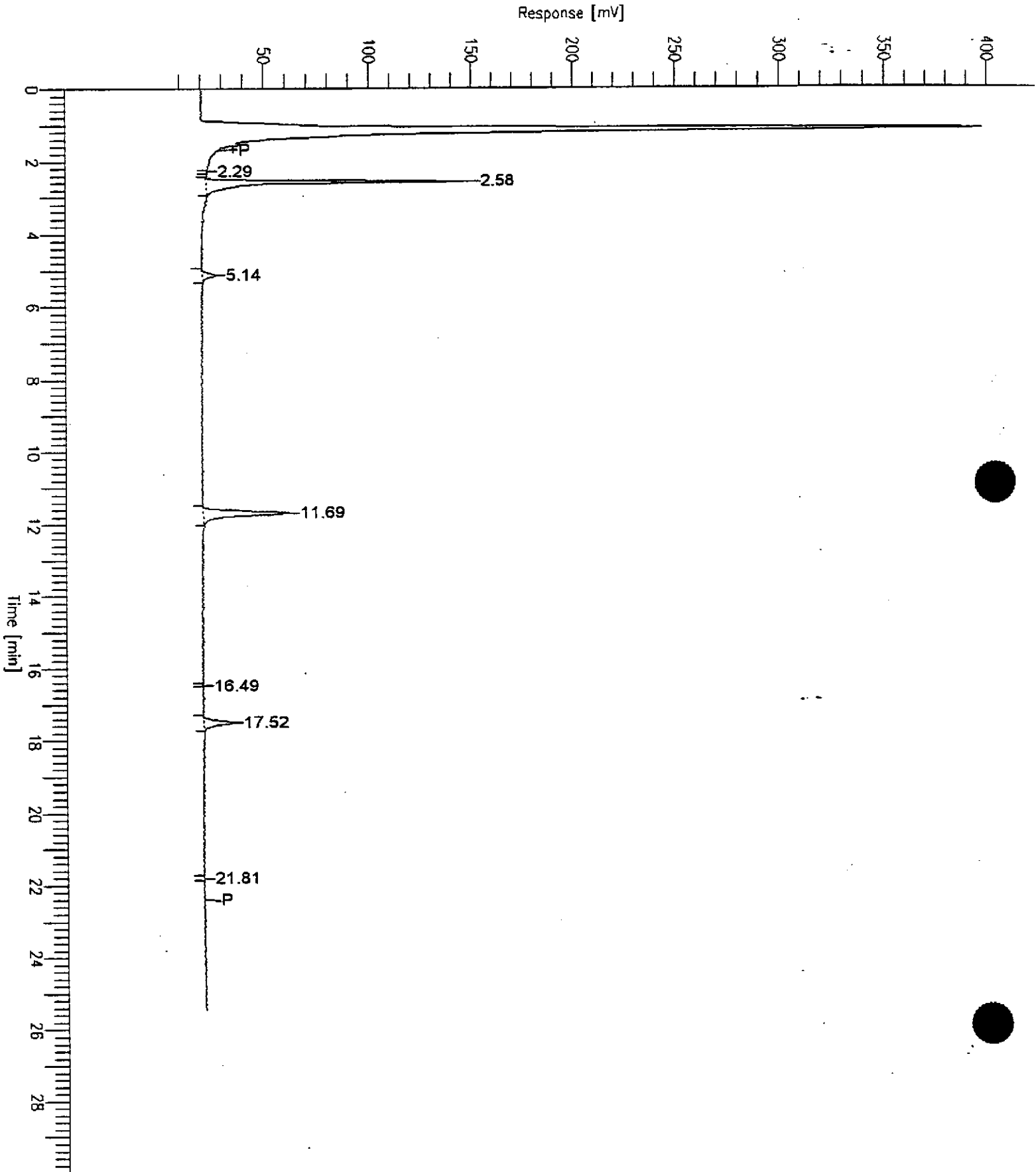
Report stored in ASCII file: S:\GHP_21\0225\221B038.TX0

Chromatogram

Sample Name : GBLK022296A
FileName : S:\GHP_21\0225\221A038.raw
Method : TPH_A
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: METH BLK
Date : 2/22/96 09:15
Time of Injection: 2/22/96 04:53
Low Point : 0.04 mV
Plot Scale: 400.0 mV
High Point : 400.04 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022296A

Time : 2/22/96 09:15

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GHP_21

Channel : A A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 04:53

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\221A038.RAW

Result File : S:\GHP_21\0225\221A038.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\221A038.RST

Proc Method : S:\GHP_21\MET_SEQ\TPH_A.mth

Calib Method : S:\GHP_21\MET_SEQ\TPH_A.mth

Sequence File : S:\GHP_21\MET_SEQ\H210221.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.025	1510	TPH-1	0.0258	0.0052	0.2582
	12.575	551638	TPH-2	9.4297	1.8859	94.2970
		553148		9.4555	1.8911	94.5552

Report stored in ASCII file: S:\GHP_21\0225\221A038.TX1

EXPANDED REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.293	1510.40	0.12	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	2.581	701320.80	55.91	B
3	5.144	51352.00	4.09	B
4	11.691	371008.80	29.57	B
5	16.490	1662.40	0.13	B
6	17.516	125411.20	10.00	B
7	21.814	2203.20	0.18	B

1254468.80 100.00

Report stored in ASCII file: S:\GHP_21\0225\221A038.TX2

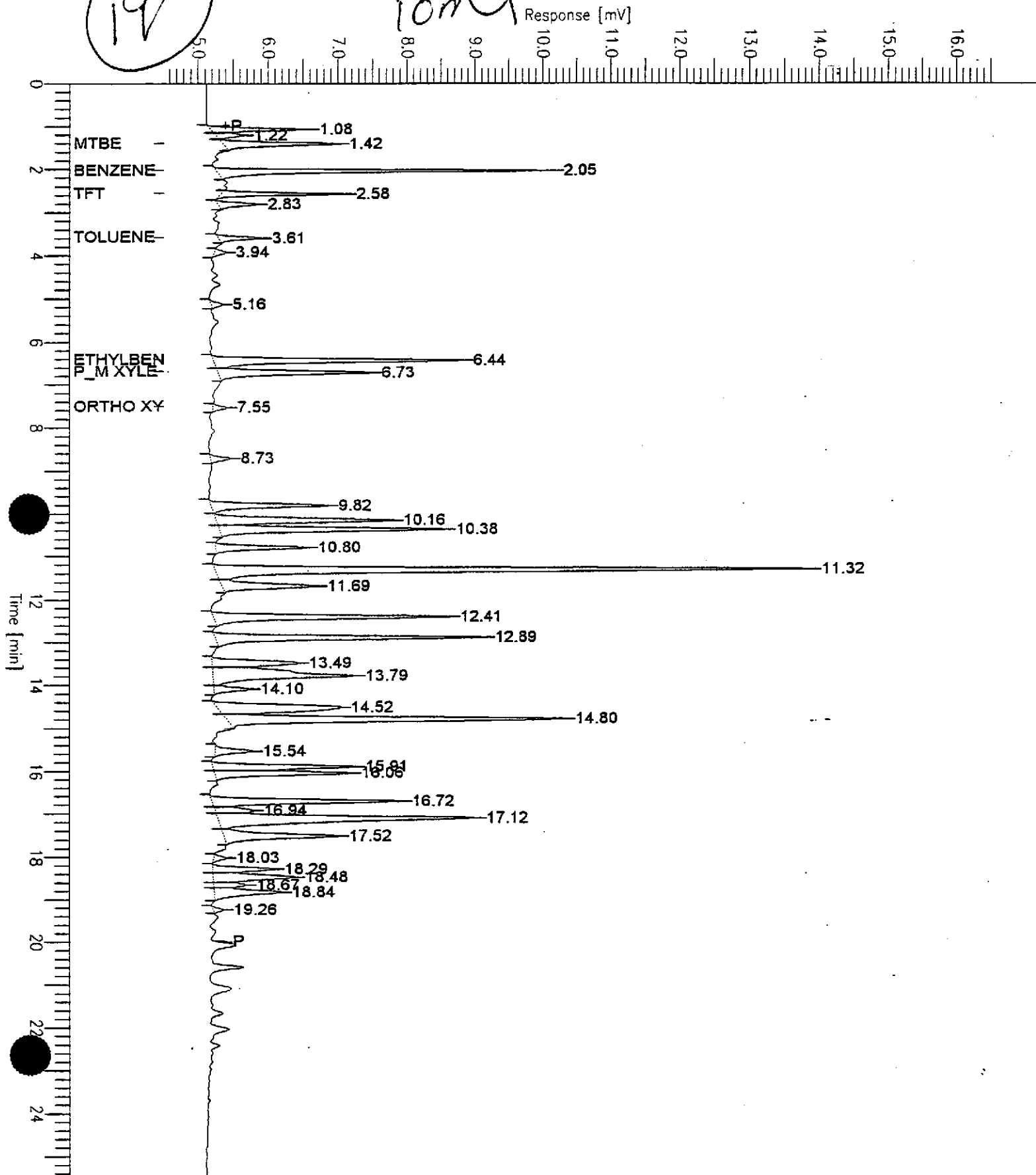
Chromatogram

Sample Name : G9602C57-01A
FileName : S:\GHP_21\0225\222B019.raw
Method : TPH A
Start Time : 0.00 min
Factor : -1.0

End Time : 25.49 min
Plot Offset : 5 mV

Sample #: CPT5-13W
Date : 2/22/96 15:37
Time of Injection: 2/22/96 15:11
Low Point : 4.52 mV
Plot Scale : 12.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : G9602C57-01A

Sample Number: CPT5-13W

Operator :

Time : 2/22/96 15:37

Study : EKI

Instrument : GHP_21

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 15:11

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222B019.RAW

Result File : S:\GHP_21\0225\222B019.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222B019.RST

Proc Method : S:\GHP_21\MET_SEQ\BTEX_A

Calib Method : S:\GHP_21\MET_SEQ\BTEX_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
1	1.080	6826		0.0007	0.0001	0.0068
2	1.224	2279		0.0002	0.0000	0.0023
3	1.421	9727	MTBE	58.3277	11.6655	583.2774
4	2.052	21808	BENZENE	7.3813	1.4763	73.8133
5	2.583	7443	TFT	10.5297	2.1059	105.2965
6	2.826	3159		0.0003	0.0001	0.0032
7	3.609	3145	TOLUENE	1.1854	0.2371	11.8543
8	3.943	1004		0.0001	0.0000	0.0010
9	5.156	1074		0.0001	0.0000	0.0011
10	6.442	22617	ETHYLBENZENE	10.1589	2.0318	101.5892
11	6.725	14769	P_M XYLENES	5.2389	1.0478	52.3888
12	7.552	1134	ORTHO XYLENE	0.4976	0.0995	4.9755
13	8.728	1732		0.0002	0.0000	0.0017
14	9.819	10736		0.0011	0.0002	0.0107
15	10.164	18713		0.0019	0.0004	0.0187
16	10.377	21020		0.0021	0.0004	0.0210
17	10.803	8064		0.0008	0.0002	0.0081
18	11.322	57104		0.0057	0.0011	0.0571

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
20	11.691	10386		0.0010	0.0002	0.0104
21	12.406	22756		0.0023	0.0005	0.0228
22	12.890	25118		0.0025	0.0005	0.0251
23	13.487	10715		0.0011	0.0002	0.0107
24	13.787	22803		0.0023	0.0005	0.0228
25	14.098	3380		0.0003	0.0001	0.0034
26	14.515	19571		0.0020	0.0004	0.0196
27	14.797	34601		0.0035	0.0007	0.0346
28	15.543	3654		0.0004	0.0001	0.0037
29	15.905	13542		0.0014	0.0003	0.0135
30	16.055	12760		0.0013	0.0003	0.0128
31	16.722	18565		0.0019	0.0004	0.0186
32	16.943	4053		0.0004	0.0001	0.0041
33	17.117	32407		0.0032	0.0006	0.0324
34	17.524	13265		0.0013	0.0003	0.0133
35	18.033	1055		0.0001	0.0000	0.0011
36	18.292	5835		0.0006	0.0001	0.0058
37	18.480	10067		0.0010	0.0002	0.0101
38	18.669	3031		0.0003	0.0001	0.0030
	18.837	7943		0.0008	0.0002	0.0079
		487859		93.3602	18.6720	933.6022

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Report stored in ASCII file: S:\GHP_21\0225\222B019.TX0

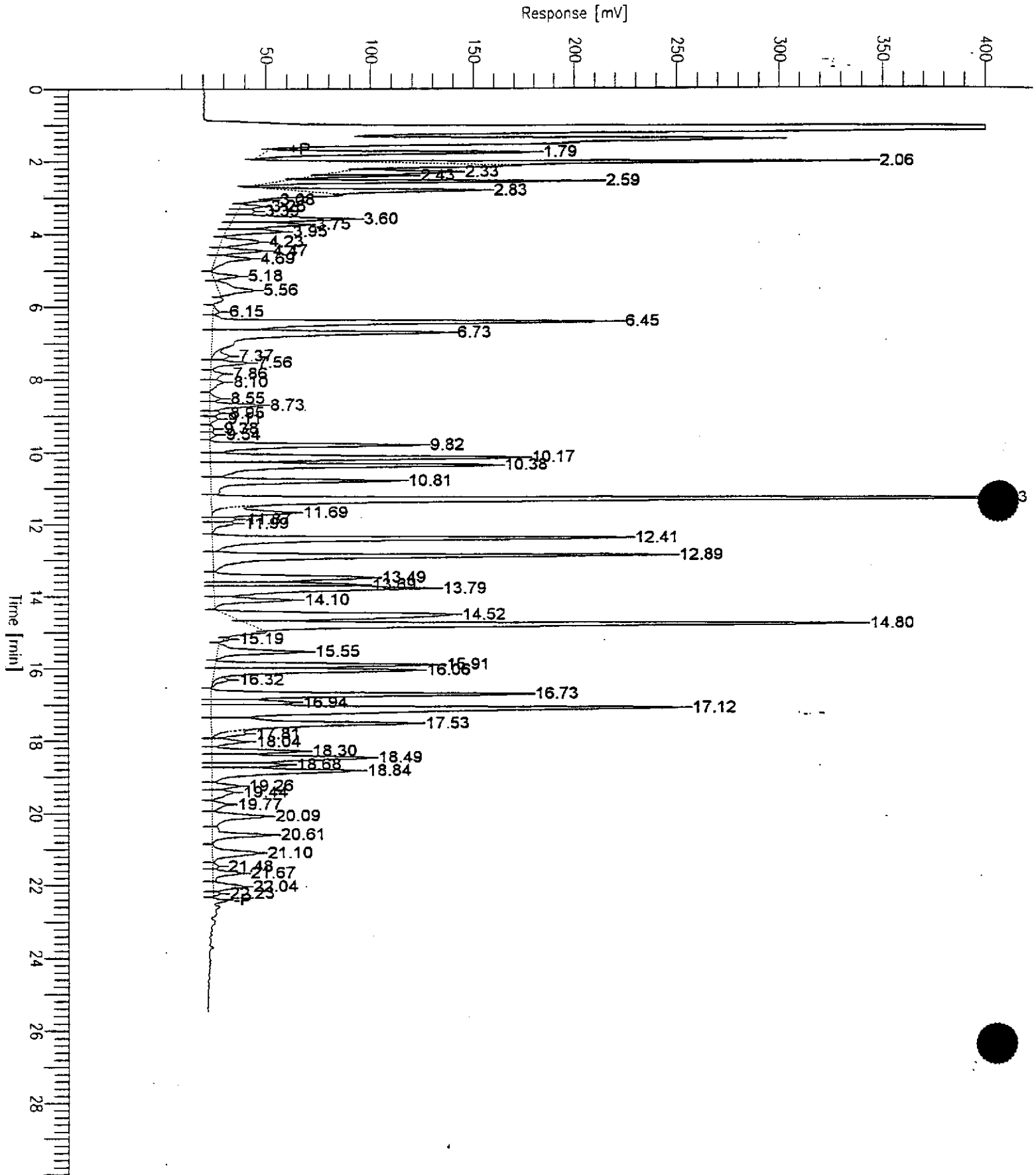
Chromatogram

Sample Name : G9602C57-01A
FileName : S:\GHP_21\0225\222A019.raw
Method : TPH A
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: CPT5-13W
Date : 2/22/96 15:37
Time of Injection: 2/22/96 15:11
Low Point : 0.11 mV
Plot Scale: 400.0 mV
High Point : 400.11 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : G9602C57-01A

Time : 2/22/96 15:37

Sample Number: CPT5-13W

Study : EKI

Operator :

Instrument : GHP_21

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 15:11

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222A019.RAW

Result File : S:\GHP_21\0225\222A019.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222A019.RST

Proc Method : S:\GHP_21\MET_SEQ\TPH_A

Calib Method : S:\GHP_21\MET_SEQ\TPH_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.025	2123945	TPH-1	36.3068	7.2614	363.0676
	12.575	31124209	TPH-2	532.0378	106.4076	5320.3776
		33248154		568.3445	113.6689	5683.4451

Report stored in ASCII file: S:\GHP_21\0225\222A019.TX1

EXPANDED REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	1.789	750512.40	2.21	*B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	2.060	1007787.20	2.96	B
3	2.326	365645.60	1.07	B
4	2.425	154000.80	0.45	V
5	2.588	624305.20	1.83	B
6	2.830	504632.40	1.48	B
7	3.084	13568.00	0.04	B
8	3.259	58330.69	0.17	B
9	3.388	67634.48	0.20	V
10	3.601	431931.58	1.27	V
11	3.752	282315.29	0.83	V
12	3.946	190895.15	0.56	V
13	4.229	178626.41	0.52	B
14	4.474	149982.61	0.44	V
15	4.692	161288.57	0.47	V
16	5.175	86081.07	0.25	B
17	5.564	204255.73	0.60	V
18	6.152	26145.86	0.08	B
19	6.446	1420258.01	4.17	V
20	6.731	1095390.16	3.22	V
21	7.368	90791.20	0.27	E
22	7.559	134926.81	0.40	V
23	7.862	61789.60	0.18	V
24	8.099	63687.17	0.19	V
25	8.551	40305.01	0.12	B
26	8.733	176975.44	0.52	V
27	8.947	35321.47	0.10	V
28	9.105	29116.47	0.09	V
29	9.375	16800.40	0.05	V
30	9.538	18538.81	0.05	V
31	9.824	703727.36	2.07	B
32	10.169	1180631.51	3.47	V
33	10.382	1073728.62	3.16	V
34	10.807	684547.25	2.01	V
35	11.327	3046605.80	8.95	V
36	11.692	394467.20	1.16	E
37	11.873	77412.70	0.23	V
38	11.987	85023.57	0.25	V
39	12.411	1446307.50	4.25	B
40	12.894	1580964.10	4.65	V
41	13.490	692929.02	2.04	V
42	13.694	376952.32	1.11	V
43	13.791	930640.32	2.74	V
44	14.102	280506.34	0.82	V
45	14.517	1195167.27	3.51	B
46	14.802	2084086.33	6.12	V
47	15.193	8515.20	0.03	B
48	15.547	343180.27	1.01	B
49	15.910	708950.59	2.08	V
50	16.060	718453.14	2.11	V
51	16.321	54120.00	0.16	E
52	16.727	1090287.56	3.20	B

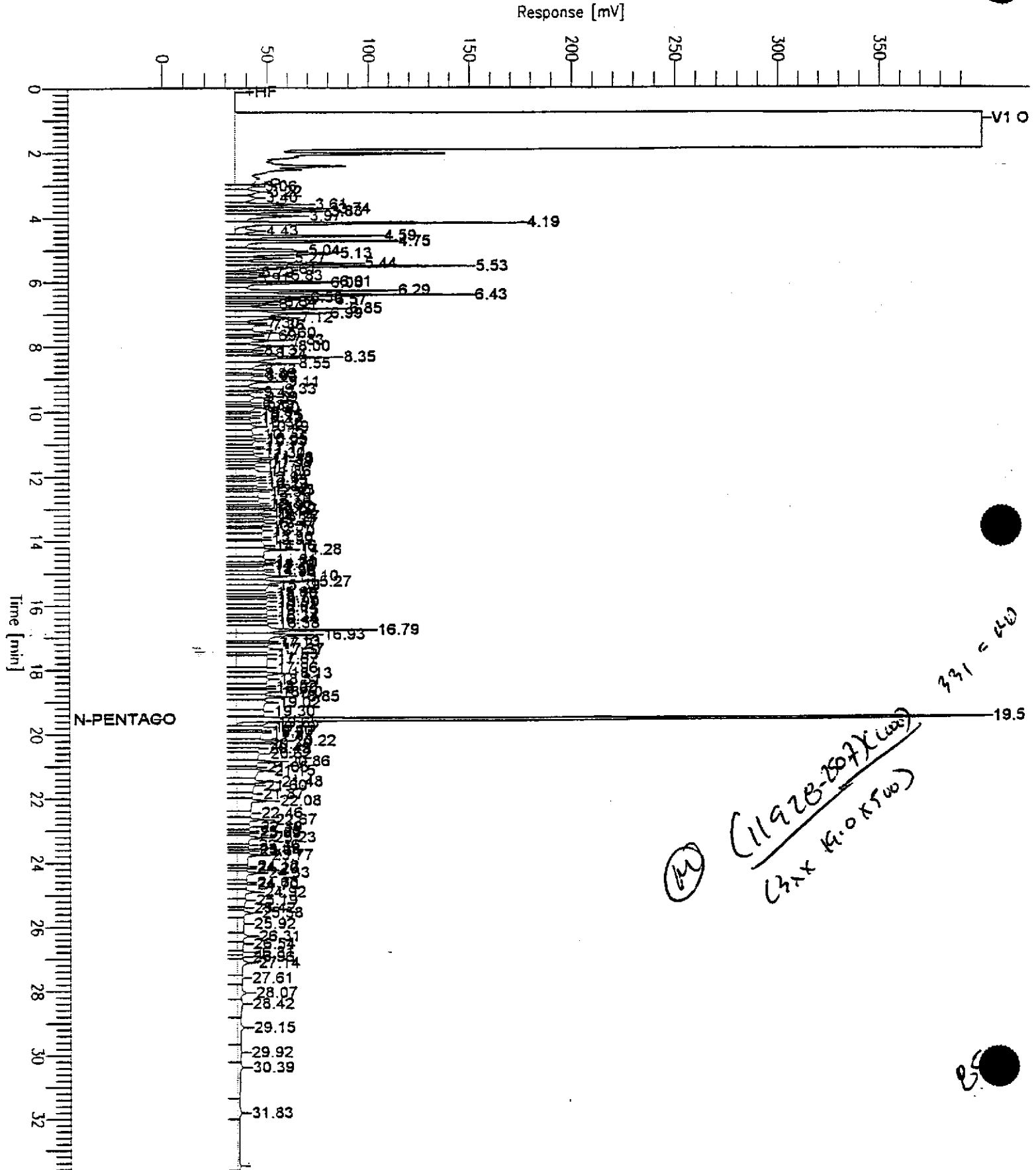
Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
41	16.944	292897.95	0.86	V
54	17.122	2126810.75	6.25	V
55	17.531	1005900.50	2.96	V
56	17.810	128107.20	0.38	E
57	18.036	130730.71	0.38	V
58	18.298	300312.46	0.88	V
59	18.487	693685.61	2.04	V
60	18.675	239968.85	0.71	V
61	18.841	635216.48	1.87	V
62	19.257	94778.27	0.28	V
63	19.436	105658.02	0.31	V
64	19.768	71276.10	0.21	V
65	20.092	254573.61	0.75	V
66	20.608	225633.93	0.66	V
67	21.100	235889.23	0.69	B
68	21.478	22101.66	0.06	V
69	21.671	111316.82	0.33	V
70	22.042	134228.55	0.39	V
71	22.230	18329.73	0.05	V

34026460.00 100.00

Report stored in ASCII file: S:\GHP_21\0225\222A019.TX2

Sample Name : D9602C57-1 (500:1)
FileName : S:\GHP_05\0225\224A032.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: CPT5-13W
Date : 2/25/96 09:11
Time of Injection: 2/25/96 08:38
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



Software Version: 4.0<3H19>

Sample Name : D9602C57-1 (500:1)

Time : 2/25/96 09:11

Sample Number: CPT5-13W

Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : A

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/82

Interface Serial # : NONE Data Acquisition Time: 2/25/96 08:38

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224A032.RAW

Result File : S:\GHP_05\0225\224A032.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224A032.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	6656905	414.1	6.9	276.1
8.250	n-C9 to n-C17 Jet Fuel	9145261	425.8	7.1	283.8
11.015	n-C9 to n-C24 TPH-D	14406086	672.8	11.2	448.5
16.950	n-C9 to n-C40 Total	20610980	1374.1	22.9	916.0
19.390	n-C16 to n-C36 M/Oil	11927645	795.2	13.3	530.1
		62746878	3681.9		

Report stored in ASCII file: S:\GHP_05\0225\224A032.TX0

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.060	65018	0.1	2.9

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
2	3.217		89462	0.1	4.0
3	3.402		99120	0.1	4.4
4	3.614		142620	0.2	6.3
5	3.744		203354	0.2	9.0
6	3.830		156757	0.2	7.0
7	3.972		184437	0.2	8.2
8	4.186		484662	0.5	21.5
9	4.427		86513	0.1	3.8
10	4.591		265216	0.3	11.8
11	4.754		300426	0.3	13.4
12	5.041		167969	0.2	7.5
13	5.132		268468	0.3	11.9
14	5.269		96220	0.1	4.3
15	5.438		248183	0.3	11.0
16	5.527		381257	0.4	16.9
17	5.614		63259	0.1	2.8
18	5.721		32590	0.0	1.4
19	5.825		86540	0.1	3.8
20	5.909		21679	0.0	1.0
21	6.005		138223	0.2	6.1
22	6.051		144206	0.2	6.4
23	6.290		251421	0.3	11.2
24	6.426		379436	0.4	16.9
25	6.501		103000	0.1	4.6
26	6.571		139702	0.2	6.2
27	6.640		63275	0.1	2.8
28	6.716		65823	0.1	2.9
29	6.845		179403	0.2	8.0
30	6.988		243957	0.3	10.8
31	7.119		151889	0.2	6.8
32	7.295		38319	0.0	1.7
33	7.355		93187	0.1	4.1
34	7.598		108975	0.1	4.8
35	7.687		38165	0.0	1.7
36	7.825		118983	0.1	5.3
37	8.000		137494	0.2	6.1
38	8.134		32438	0.0	1.4
39	8.239		64462	0.1	2.9
40	8.350		276145	0.3	12.3
41	8.549		160390	0.2	7.1
42	8.726		65806	0.1	2.9
43	8.864		32154	0.0	1.4
44	8.926		73796	0.1	3.3
45	9.107		112510	0.1	5.0
46	9.332		90101	0.1	4.0
47	9.425		53068	0.1	2.4
48	9.587		91472	0.1	4.1
49	9.752		35766	0.0	1.6
50	9.828		29785	0.0	1.3
51	9.897		80216	0.1	3.6
52	10.044		28210	0.0	1.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	10.147		46549	0.1	2.1
54	10.213		27241	0.0	1.2
55	10.357		57102	0.1	2.5
56	10.488		90409	0.1	4.0
57	10.726		94219	0.1	4.2
58	10.846		61969	0.1	2.8
59	10.928		68145	0.1	3.0
60	11.112		53549	0.1	2.4
61	11.171		55700	0.1	2.5
62	11.297		54187	0.1	2.4
63	11.434		76209	0.1	3.4
64	11.498		52962	0.1	2.4
65	11.581		64152	0.1	2.9
66	11.708		57947	0.1	2.6
67	11.862		141950	0.2	6.3
68	12.044		46492	0.1	2.1
69	12.128		46566	0.1	2.1
70	12.227		79850	0.1	3.5
71	12.336		55765	0.1	2.5
72	12.431		56430	0.1	2.5
73	12.503		112829	0.1	5.0
74	12.697		86911	0.1	3.9
75	12.852		70152	0.1	3.1
76	12.924		47697	0.1	2.1
77	12.995		62452	0.1	2.8
78	13.067		104747	0.1	4.7
79	13.189		38715	0.0	1.7
80	13.265		86772	0.1	3.9
81	13.368		74229	0.1	3.3
82	13.471		107839	0.1	4.8
83	13.572		48664	0.1	2.2
84	13.699		120281	0.1	5.3
85	13.898		137391	0.2	6.1
86	13.989		39232	0.0	1.7
87	14.161		156815	0.2	7.0
88	14.281		254401	0.3	11.3
89	14.605		130034	0.1	5.8
90	14.695		65880	0.1	2.9
91	14.760		52180	0.1	2.3
92	14.902		105963	0.1	4.7
93	14.976		87291	0.1	3.9
94	15.102		162151	0.2	7.2
95	15.268		194373	0.2	8.6
96	15.393		155018	0.2	6.9
97	15.596		90793	0.1	4.0
98	15.698		80725	0.1	3.6
99	15.772		70579	0.1	3.1
100	15.895		129157	0.1	5.7
101	16.044		115718	0.1	5.1
102	16.149		164412	0.2	7.3
103	16.338		94515	0.1	4.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
104	16.440		94234	0.1	4.2
105	16.579		119986	0.1	5.3
106	16.785		359848	0.4	16.0
107	16.926		306719	0.3	13.6
108	17.131		62612	0.1	2.8
109	17.210		112981	0.1	5.0
110	17.369		163068	0.2	7.2
111	17.529		83175	0.1	3.7
112	17.672		318792	0.4	14.2
113	17.955		127349	0.1	5.7
114	18.125		161067	0.2	7.2
115	18.313		190343	0.2	8.5
116	18.523		114236	0.1	5.1
117	18.598		45997	0.1	2.0
118	18.702		120521	0.1	5.4
119	18.848		174300	0.2	7.7
120	19.023		250024	0.3	11.1
121	19.302		166007	0.2	7.4
122	19.548	n-Pentacosane	2507469	2.1	85.3
123	19.648		99329	0.1	4.4
124	19.788		100697	0.1	4.5
125	19.901		48583	0.1	2.2
126	19.968		148038	0.2	6.6
127	20.215		121368	0.1	5.4
128	20.304		95659	0.1	4.3
129	20.454		74942	0.1	3.3
130	20.616		157980	0.2	7.0
131	20.860		145404	0.2	6.5
132	21.046		53825	0.1	2.4
133	21.145		168638	0.2	7.5
134	21.482		112130	0.1	5.0
135	21.600		128128	0.1	5.7
136	21.866		77463	0.1	3.4
137	22.084		190397	0.2	8.5
138	22.456		74173	0.1	3.3
139	22.665		104386	0.1	4.6
140	22.891		63150	0.1	2.8
141	23.028		33506	0.0	1.5
142	23.091		28017	0.0	1.2
143	23.228		111342	0.1	4.9
144	23.458		35203	0.0	1.6
145	23.578		26621	0.0	1.2
146	23.641		32401	0.0	1.4
147	23.772		137456	0.2	6.1
148	24.120		22785	0.0	1.0
149	24.195		25547	0.0	1.1
150	24.330		96025	0.1	4.3
151	24.627		36422	0.0	1.6
152	24.698		41576	0.0	1.8
153	24.923		84931	0.1	3.8
154	25.187		59563	0.1	2.6

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
155	25.417		17848	0.0	0.8
156	25.578		60055	0.1	2.7
157	25.917		86736	0.1	3.9
158	26.308		62860	0.1	2.8
159	26.542		45769	0.1	2.0
160	26.808		18288	0.0	0.8
161	26.955		18269	0.0	0.8
162	27.137		89004	0.1	4.0
163	27.605		37108	0.0	1.6
164	28.071		66811	0.1	3.0
165	28.417		65258	0.1	2.9
166	29.149		86722	0.1	3.9
167	29.922		51466	0.1	2.3
168	30.394		89537	0.1	4.0
169	31.830		46157	0.1	2.1
170	33.516		95228	0.1	4.2

20752364

Report stored in ASCII file: S:\GHP_05\0225\224A032.TX1

Chromatogram

Sample Name : G9602C57-02A
FileName : S:\GHP_21\0225\222B020.raw
Method : TPH_A
Start Time : 0.00 min
Scale Factor: -1.0

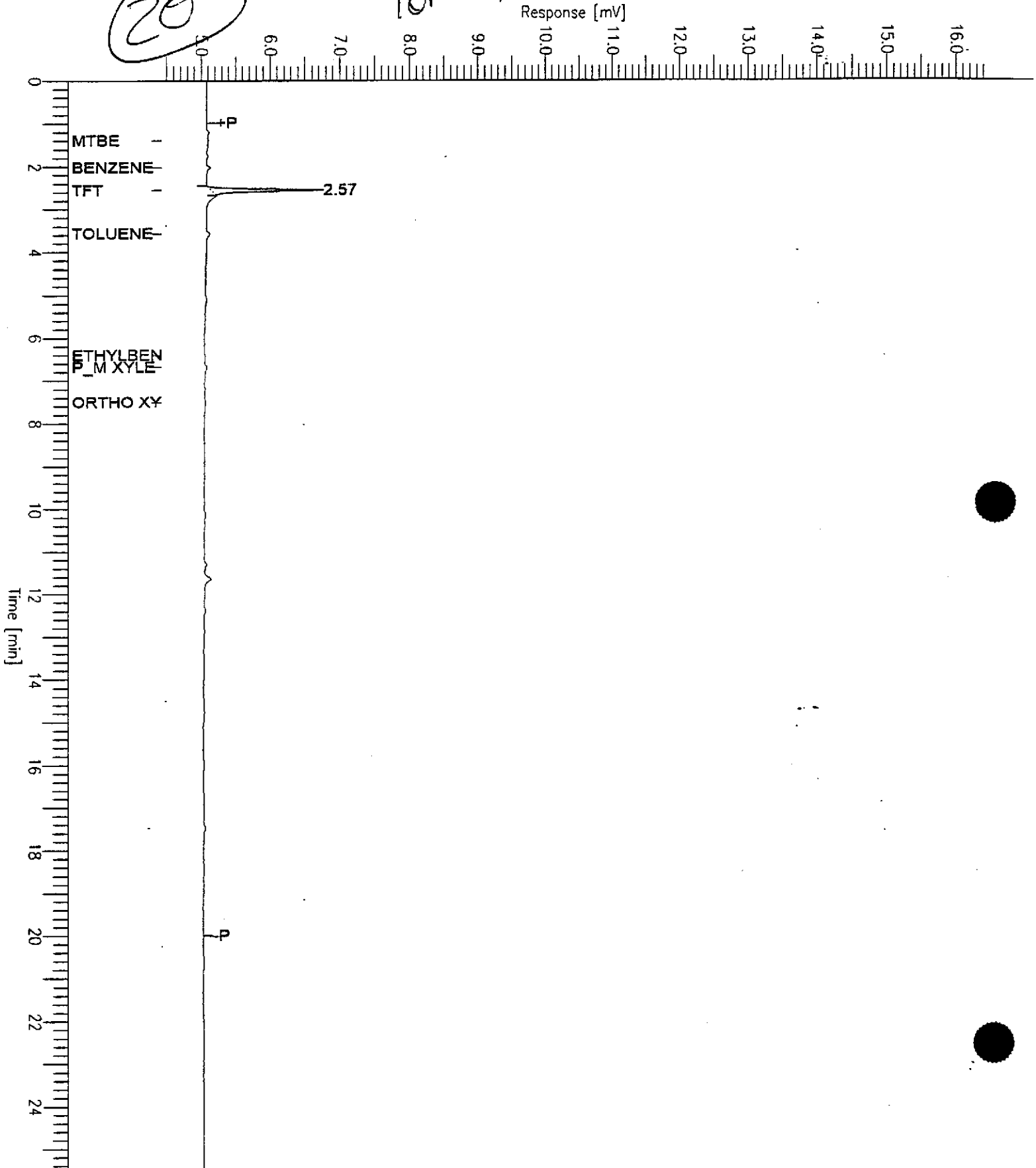
End Time : 25.49 min
Plot Offset: 4 mV

Sample #: CPT5-33W
Date : 2/22/96 16:16
Time of Injection: 2/22/96 15:49
Low Point : 4.43 mV
Plot Scale: 12.0 mV
High Point : 16.43 mV

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10ml



Software Version: 4.0<3H19>

Sample Name : G9602C57-02A

Time : 2/22/96 16:16

Sample Number: CPT5-33W

Study : EKI

Operator :

Instrument : GHP_21

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 15:49

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222B020.RAW

Result File : S:\GHP_21\0225\222B020.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222B020.RST

Proc Method : S:\GHP_21\MET_SEQ\BTEX_A

Calib Method : S:\GHP_21\MET_SEQ\BTEX_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
1	2.565	6269	TFT	8.8683	1.7737	88.6827
		6269		8.8683	1.7737	88.6827

Missing Component Report

Component Expected Retention (Calibration File)

MTBE	1.407
BENZENE	2.041
TOLUENE	3.588
ETHYLBENZENE	6.417
P M XYLENES	6.697
HO XYLENE	7.523

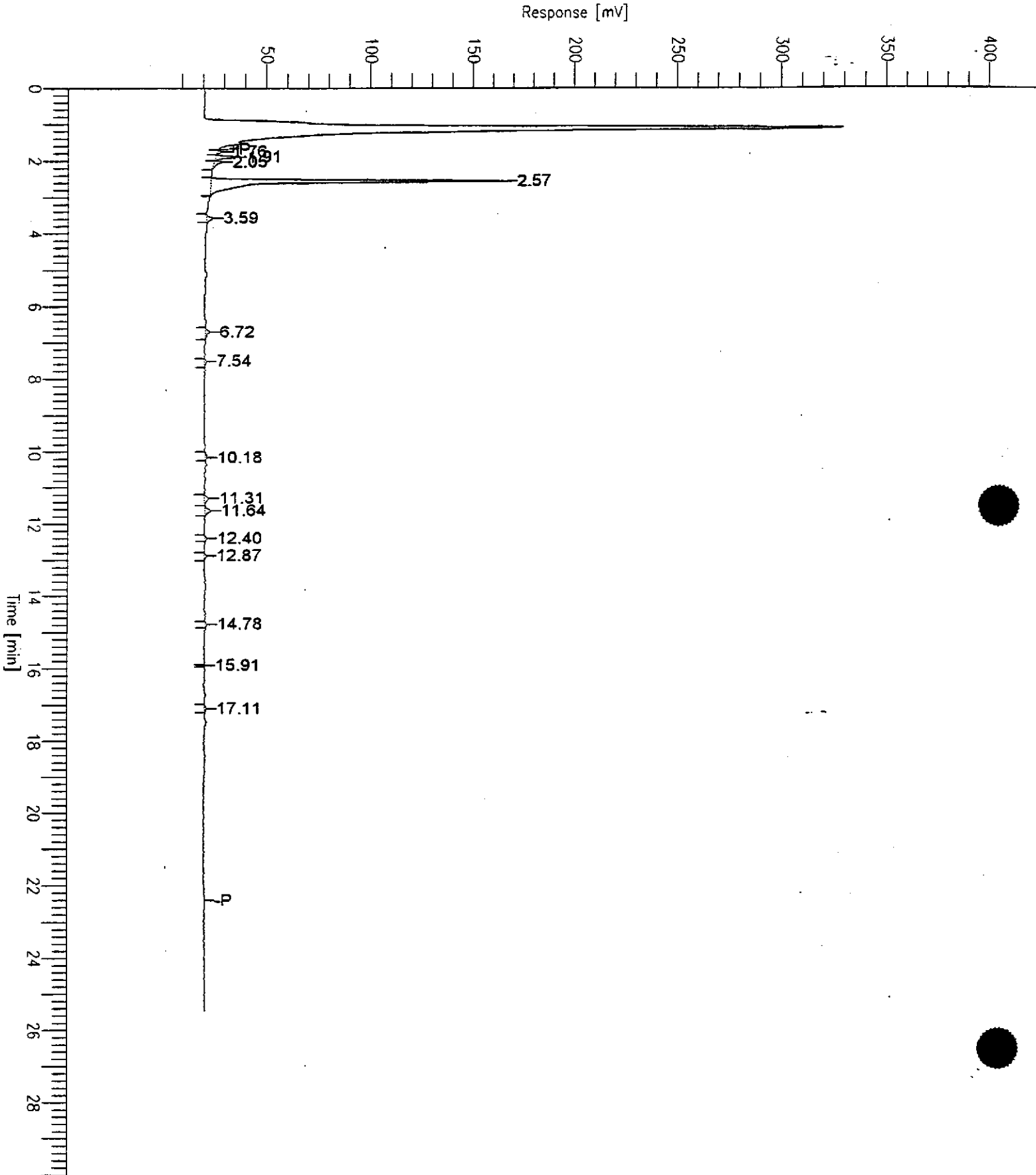
Report stored in ASCII file: S:\GHP_21\0225\222B020.TX0

Chromatogram

Sample Name : G9602C57-02A
FileName : S:\GHP_21\0225\222A020.raw
Method : TPH_A
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: CPT5-33W
Date : 2/22/96 16:16
Time of Injection: 2/22/96 15:49
Low Point : 0.17 mV
Plot Scale: 400.0 mV
High Point : 400.17 mV



Software Version: 4.0<3H19>

Sample Name : G9602C57-02A

Time : 2/22/96 16:16

Sample Number: CPT5-33W

Study : EKI

Operator :

Instrument : GHP_21

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 15:49

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222A020.RAW

Result File : S:\GHP_21\0225\222A020.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222A020.RST

Proc Method : S:\GHP_21\MET_SEQ\TPH_A

Calib Method : S:\GHP_21\MET_SEQ\TPH_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.025	71419	TPH-1	1.2208	0.2442	12.2084
	12.575	118669	TPH-2	2.0285	0.4057	20.2853
		190088		3.2494	0.6499	32.4937

Report stored in ASCII file: S:\GHP_21\0225\222A020.TX1

EXPANDED REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	1.764	8005.60	0.82	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	1.907	39701.08	4.05	B
3	2.045	23712.52	2.42	V
4	2.571	790922.40	80.62	B
5	3.592	18211.20	1.86	B
6	6.717	17486.40	1.78	B
7	7.536	8729.60	0.89	B
8	10.175	7213.60	0.74	B
9	11.308	19946.11	2.03	B
10	11.644	20541.89	2.09	V
11	12.403	4667.60	0.48	B
12	12.872	8006.80	0.82	B
13	14.775	6365.60	0.65	B
14	15.911	1324.00	0.13	B
15	17.105	6176.00	0.63	B

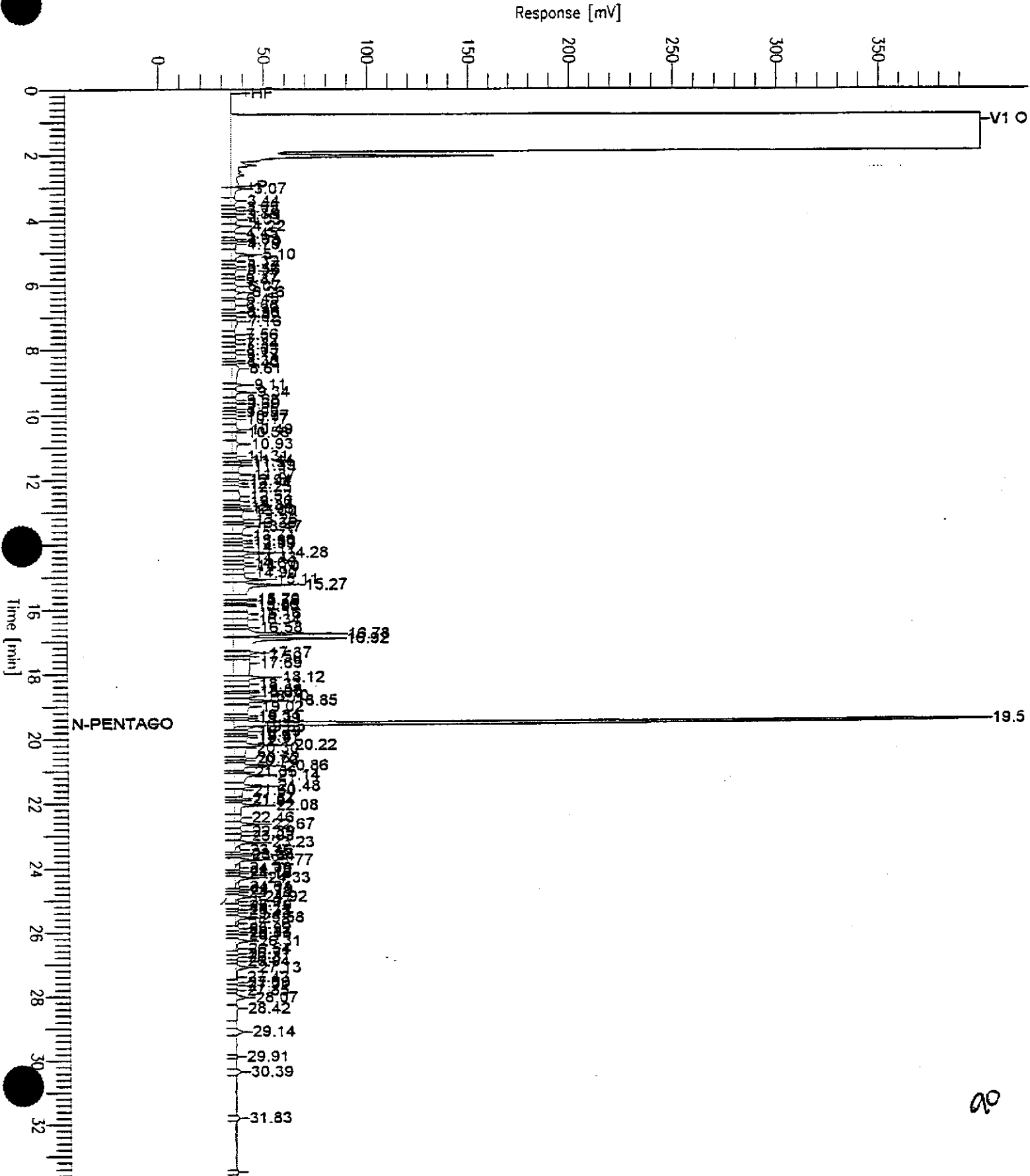
981010.40 100.00

Report stored in ASCII file: S:\GHP_21\0225\222A020.TX2

Sample Name : D9602C57-2 (500:1)
FileName : S:\GHP_05\0225\224A033.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: CPT5-33W
Date : 2/25/96 09:52
Time of Injection: 2/25/96 09:18
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



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Software Version: 4.0<3H19>

Sample Name : D9602C57-2 (500:1)

Time : 2/25/96 09:52

Sample Number: CPT5-33W

Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : A

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/83

Interface Serial # : NONE Data Acquisition Time: 2/25/96 09:18

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224A033.RAW

Result File : S:\GHP_05\0225\224A033.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224A033.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	824601	51.3	0.9	34.2
8.250	n-C9 to n-C17 Jet Fuel	1634510	76.1	1.3	50.7
11.015	n-C9 to n-C24 TPH-D	4400996	205.5	3.4	137.0
16.950	n-C9 to n-C40 Total	8932461	595.5	9.9	397.0
19.390	n-C16 to n-C36 M/Oil	7524207	501.6	8.4	334.4
		23316775	1430.0		

Report stored in ASCII file: S:\GHP_05\0225\224A033.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.073		49325	0.1	2.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	3.444		30181	0.0	1.3
	3.647		14572	0.0	0.6
	3.749		19270	0.0	0.9
5	3.859		13502	0.0	0.6
6	4.026		30585	0.0	1.4
7	4.215		40150	0.0	1.8
8	4.450		19002	0.0	0.8
9	4.628		12380	0.0	0.6
10	4.696		15497	0.0	0.7
11	4.780		24091	0.0	1.1
12	5.096		68915	0.1	3.1
13	5.315		13837	0.0	0.6
14	5.468		15369	0.0	0.7
15	5.558		22609	0.0	1.0
16	5.774		13630	0.0	0.6
17	5.865		14952	0.0	0.7
18	6.067		25242	0.0	1.1
19	6.262		36052	0.0	1.6
20	6.454		10037	0.0	0.4
21	6.664		29156	0.0	1.3
22	6.857		11478	0.0	0.5
23	6.904		12402	0.0	0.6
24	7.015		16213	0.0	0.7
25	7.164		41332	0.0	1.8
	7.559		16414	0.0	0.7
27	7.721		17760	0.0	0.8
28	7.844		13643	0.0	0.6
29	8.032		19015	0.0	0.8
30	8.171		20611	0.0	0.9
31	8.358		10141	0.0	0.5
32	8.433		11693	0.0	0.5
33	8.608		85794	0.1	3.8
34	9.110		29754	0.0	1.3
35	9.339		43681	0.0	1.9
36	9.582		18288	0.0	0.8
37	9.693		17918	0.0	0.8
38	9.851		11731	0.0	0.5
39	9.952		11099	0.0	0.5
40	10.073		13314	0.0	0.6
41	10.168		19919	0.0	0.9
42	10.490		31087	0.0	1.4
43	10.577		30839	0.0	1.4
44	10.931		55302	0.1	2.5
45	11.307		16414	0.0	0.7
46	11.438		22049	0.0	1.0
47	11.506		22499	0.0	1.0
48	11.593		45737	0.1	2.0
	11.865		41207	0.0	1.8
50	12.037		14421	0.0	0.6
51	12.143		20634	0.0	0.9
52	12.248		28610	0.0	1.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	12.533		57217	0.1	2.5
54	12.699		29324	0.0	1.3
55	12.842		16801	0.0	0.7
56	12.933		19461	0.0	0.9
57	13.001		55862	0.1	2.5
58	13.264		47309	0.1	2.1
59	13.361		24857	0.0	1.1
60	13.471		94330	0.1	4.2
61	13.743		38928	0.0	1.7
62	13.904		28519	0.0	1.3
63	13.994		29749	0.0	1.3
64	14.114		46939	0.1	2.1
65	14.283		93668	0.1	4.2
66	14.427		41409	0.0	1.8
67	14.597		36554	0.0	1.6
68	14.699		48974	0.1	2.2
69	14.900		50745	0.1	2.3
70	15.105		104828	0.1	4.7
71	15.268		233756	0.3	10.4
72	15.703		67380	0.1	3.0
73	15.761		36693	0.0	1.6
74	15.857		25857	0.0	1.1
75	15.933		74004	0.1	3.3
76	16.157		89129	0.1	4.0
77	16.336		88094	0.1	3.9
78	16.583		53083	0.1	2.4
79	16.784		242208	0.3	10.8
80	16.924		368553	0.4	16.4
81	17.369		86521	0.1	3.8
82	17.495		48866	0.1	2.2
83	17.685		224765	0.2	10.0
84	18.124		102160	0.1	4.5
85	18.332		77090	0.1	3.4
86	18.525		71833	0.1	3.2
87	18.599		30551	0.0	1.4
88	18.702		68957	0.1	3.1
89	18.848		127968	0.1	5.7
90	19.023		128706	0.1	5.7
91	19.307		43720	0.0	1.9
92	19.389		32434	0.0	1.4
93	19.548	n-Pentacosane	2637147	2.2	89.7
94	19.648		54612	0.1	2.4
95	19.787		47659	0.1	2.1
96	19.906		30674	0.0	1.4
97	19.973		59456	0.1	2.6
98	20.215		113266	0.1	5.0
99	20.303		90981	0.1	4.0
100	20.620		36651	0.0	1.6
101	20.695		25067	0.0	1.1
102	20.860		115961	0.1	5.2
103	21.049		22974	0.0	1.0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
104	21.143		123269	0.1	5.5
105	21.482		80358	0.1	3.6
106	21.600		58200	0.1	2.6
107	21.867		20623	0.0	0.9
108	21.935		16492	0.0	0.7
109	22.084		100117	0.1	4.4
110	22.456		40543	0.0	1.8
111	22.665		63950	0.1	2.8
112	22.891		30299	0.0	1.3
113	23.027		34042	0.0	1.5
114	23.227		55823	0.1	2.5
115	23.462		23908	0.0	1.1
116	23.576		13332	0.0	0.6
117	23.641		16197	0.0	0.7
118	23.772		55707	0.1	2.5
119	24.004		22139	0.0	1.0
120	24.122		10229	0.0	0.5
121	24.193		10869	0.0	0.5
122	24.329		54069	0.1	2.4
123	24.605		20213	0.0	0.9
124	24.699		11559	0.0	0.5
125	24.776		8854	9.8e-03	0.4
126	24.922		41581	0.0	1.8
127	25.073		8204	9.1e-03	0.4
128	25.191		15378	0.0	0.7
129	25.324		7521	8.4e-03	0.3
130	25.417		7096	7.9e-03	0.3
131	25.576		39237	0.0	1.7
132	25.760		9969	0.0	0.4
133	25.922		11381	0.0	0.5
134	26.027		9215	0.0	0.4
135	26.113		8691	9.7e-03	0.4
136	26.307		36196	0.0	1.6
137	26.543		8089	9.0e-03	0.4
138	26.706		6904	7.7e-03	0.3
139	26.810		7409	8.2e-03	0.3
140	26.941		5064	5.6e-03	0.2
141	27.133		36567	0.0	1.6
142	27.426		6356	7.1e-03	0.3
143	27.597		5445	6.0e-03	0.2
144	27.707		4312	4.8e-03	0.2
145	27.848		1881	2.1e-03	0.1
146	28.068		28313	0.0	1.3
147	28.416		10867	0.0	0.5
148	29.143		19525	0.0	0.9
149	29.914		760	8.4e-04	0.0
150	30.386		14113	0.0	0.6
151	31.825		8592	9.5e-03	0.4
152	33.508		3784	4.2e-03	0.2

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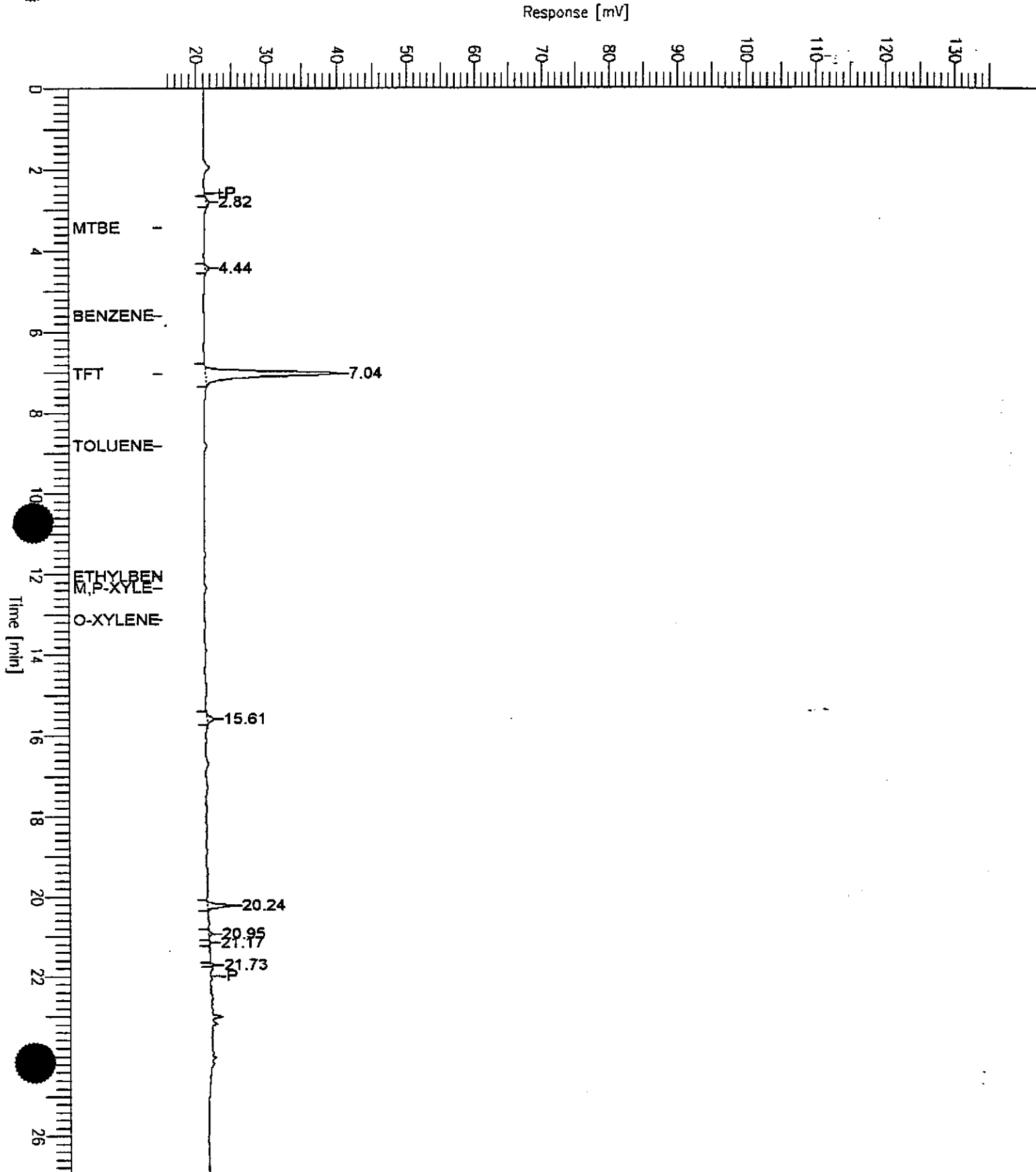
Chromatogram

Sample Name : 9602CS7-4
FileName : S:\GHP_18\0225\223B011.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.99 min
Plot Offset: 15 mV

Sample #: CPTR-10.5
Date : 2/23/96 19:24
Time of Injection: 2/23/96 18:56
Low Point : 15.20 mV
High Point : 135.20 mV
Plot Scale: 120.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : 9602C57-4

Time : 2/23/96 19:24

Sample Number: CPTR-10.5

Study : EKI

Operator :

Instrument : GCHP_18

Channel : B

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 18:56

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223B011.RAW

Result File : S:\GHP_18\0225\223B011.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223B011.RST

Proc Method : S:\GHP_18\MET_SEQ\BTEX

Calib Method : S:\GHP_18\MET_SEQ\BTEX

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
1	2.818	3462		6.9232e-06	0.0003	0.0035
2	4.440	3870		7.7391e-06	0.0004	0.0039
3	7.040	173187	TFT	0.1654	8.2702	82.7020
4	15.605	7763		0.0000	0.0008	0.0078
5	20.238	19742		0.0000	0.0020	0.0197
6	20.948	3277		6.5547e-06	0.0003	0.0033
7	21.170	1176		2.3520e-06	0.0001	0.0012
8	21.729	1701		3.4010e-06	0.0002	0.0017
		214177		0.1655	8.2743	82.7430

Missing Component Report

Component	Expected Retention (Calibration File)
MTBE	3.453
Benzene	5.614
Toluene	8.834

Ethylbenzene	12.065
m,p-Xylenes	12.351
o-Xylene	13.148

Report stored in ASCII file: S:\GHP_18\0225\223B011.TX0

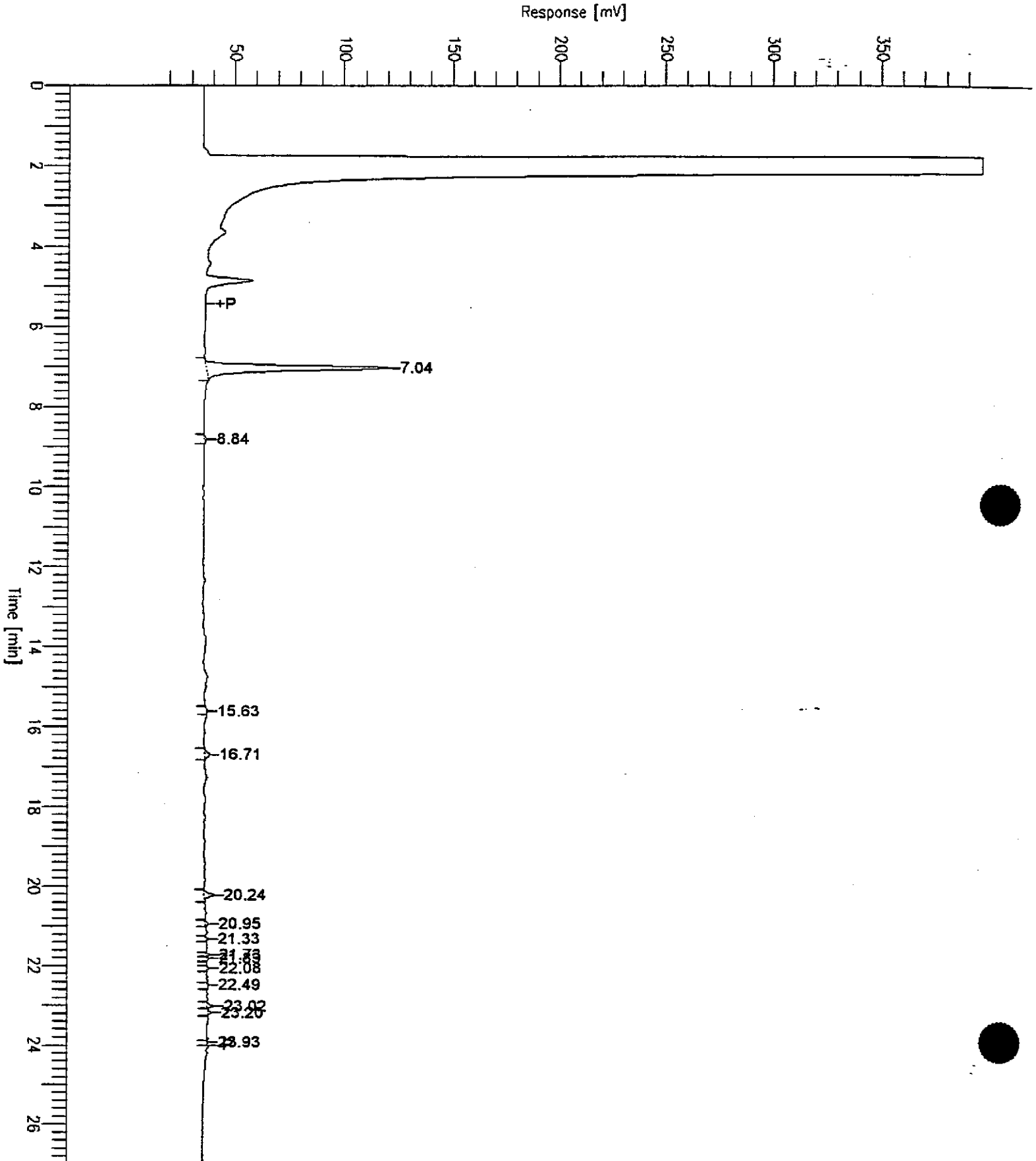
Chromatogram

Sample Name : 9602C57-4
FileName : S:\GHP_18\0225\223A011.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.99 min
Plot Offset: 16 mV

Sample #: CPTR-10.5
Date : 2/23/96 19:24
Time of Injection: 2/23/96 18:56
Low Point : 16.40 mV
Plot Scale: 380.0 mV
High Point : 396.40 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : 9602C57-4

Time : 2/23/96 19:24

Sample Number: CPTR-10.5

Study : EKI

Operator :

Instrument : GCHP_18

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/23/96 18:56

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0225\223A011.RAW

Result File : S:\GHP_18\0225\223A011.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0225\223A011.RST

Proc Method : S:\GHP_18\MET_SEQ\TPH

Calib Method : S:\GHP_18\MET_SEQ\TPH

Sequence File : S:\GHP_18\MET_SEQ\H180223.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	15.775	105354	TPH-2	0.0324	1.6183	16.1834
		105354		0.0324	1.6183	16.1834

EXPANDED REPORT GCHP_18

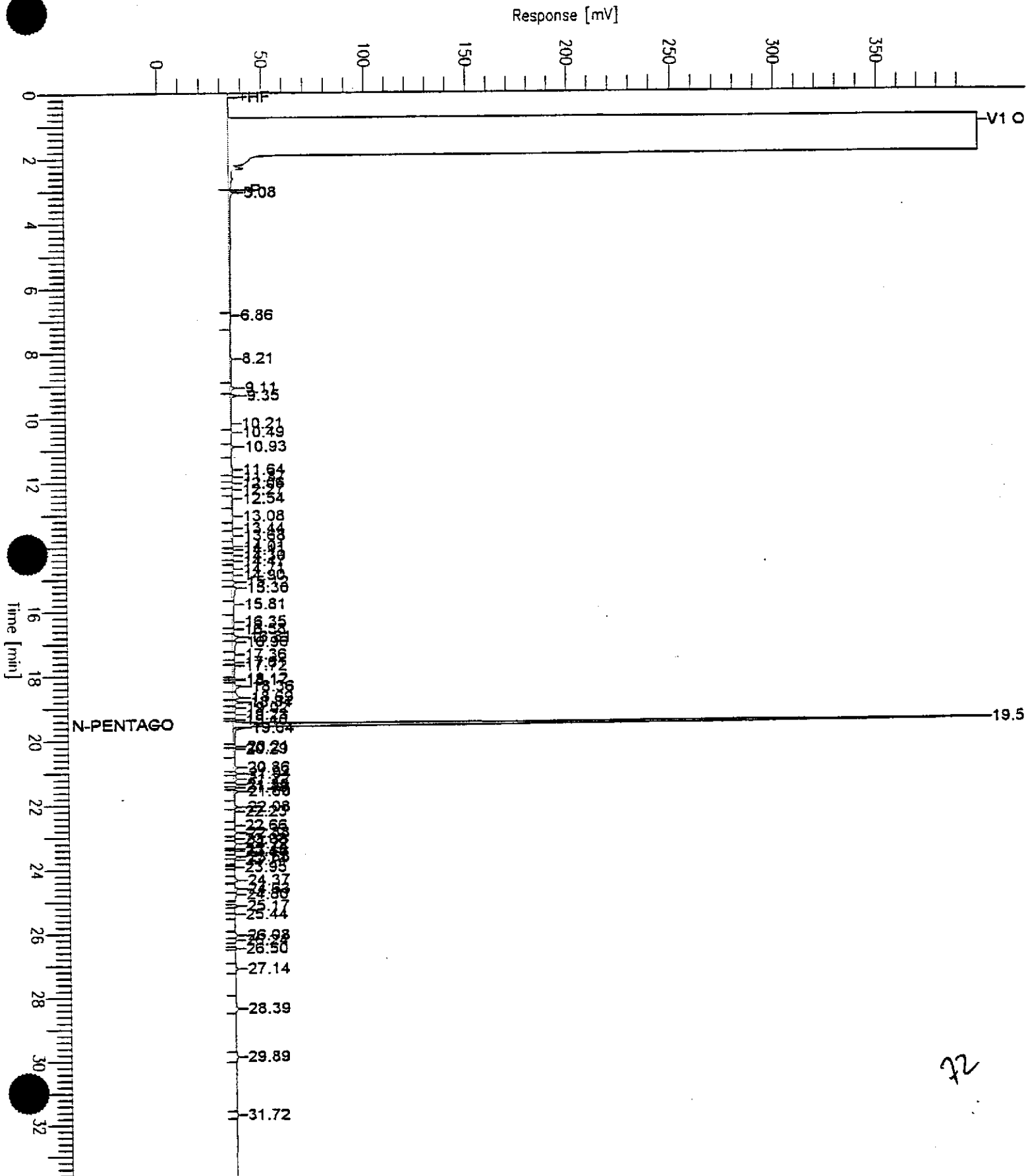
Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
	7.040	765786.60	87.91	B
2	8.835	6647.57	0.76	B
3	15.627	4820.99	0.55	B
4	16.711	18641.76	2.14	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
5	20.236	27857.84	3.20	B
6	20.949	6781.99	0.78	B
7	21.333	3314.25	0.38	B
8	21.728	4426.59	0.51	B
9	21.827	4233.52	0.49	V
10	22.083	4011.79	0.46	B
11	22.492	2872.54	0.33	B
12	23.023	11153.30	1.28	B
13	23.198	8232.68	0.95	V
14	23.932	2359.23	0.27	*B

871140.64 100.00

Sample Name : D9602C57-4 (20:1)
 FileName : S:\GHP_05\0225\224A000.raw
 Method : TPH05A
 Start Time : 0.00 min
 Scale Factor: 0.0

Sample #: CPTR-10
 Date : 2/24/96 16:47
 Time of Injection: 2/24/96 16:13
 Low Point : 0.00 mV
 High Point : 400.00 mV
 Plot Scale: 400.0 mV
 End Time : 33.65 min
 Plot Offset: 0 mV



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Software Version: 4.0<3H19>

Sample Name : D9602C57-4 (20:1)

Time : 2/24/96 16:47

Sample Number: CPTR-10

Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : A

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/58

Interface Serial # : NONE Data Acquisition Time: 2/24/96 16:13

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224A008.RAW

Result File : S:\GHP_05\0225\224A008.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224A008.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	233686	14.5	0.2	9.7
8.250	n-C9 to n-C17 Jet Fuel	380791	17.7	0.3	11.8
11.015	n-C9 to n-C24 TPH-D	758178	35.4	0.6	23.6
16.950	n-C9 to n-C40 Total	3157785	210.5	3.5	140.3
19.390	n-C16 to n-C36 M/Oil	2797012	186.5	3.1	124.3
		7327452	464.7		

Report stored in ASCII file: S:\GHP_05\0225\224A008.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.075		149357	0.2	6.6

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
2	6.863		14347	0.0	0.6
	8.207		51817	0.1	2.3
	9.110		18164	0.0	0.8
5	9.345		32445	0.0	1.4
6	10.213		7457	8.3e-03	0.3
7	10.490		12446	0.0	0.6
8	10.931		15799	0.0	0.7
9	11.644		18826	0.0	0.8
10	11.866		8477	9.4e-03	0.4
11	12.064		6583	7.3e-03	0.3
12	12.266		6662	7.4e-03	0.3
13	12.538		12456	0.0	0.6
14	13.082		16379	0.0	0.7
15	13.441		9576	0.0	0.4
16	13.684		14526	0.0	0.6
17	14.013		9420	0.0	0.4
18	14.113		6475	7.2e-03	0.3
19	14.302		11010	0.0	0.5
20	14.471		6368	7.1e-03	0.3
21	14.711		10403	0.0	0.5
22	14.901		10162	0.0	0.5
23	15.116		13499	0.0	0.6
24	15.299		36640	0.0	1.6
25	15.805		21833	0.0	1.0
	16.353		21069	0.0	0.9
	16.577		8658	9.6e-03	0.4
27	16.813		21389	0.0	1.0
28	16.813		21389	0.0	1.0
29	16.964		30600	0.0	1.4
30	17.360		16645	0.0	0.7
31	17.612		8282	9.2e-03	0.4
32	17.721		21225	0.0	0.9
33	18.120		5907	6.6e-03	0.3
34	18.171		6290	7.0e-03	0.3
35	18.355		32920	0.0	1.5
36	18.694		30839	0.0	1.4
37	18.840		19616	0.0	0.9
38	19.021		13610	0.0	0.6
39	19.229		14312	0.0	0.6
40	19.395		5434	6.0e-03	0.2
41	19.536	n-Pentacosane	2118668	1.8	72.1
42	19.638		38457	0.0	1.7
43	20.209		8423	9.4e-03	0.4
44	20.294		13416	0.0	0.6
45	20.856		23863	0.0	1.1
46	21.043		10250	0.0	0.5
47	21.217		15982	0.0	0.7
48	21.381		7845	8.7e-03	0.3
	21.480		4362	4.8e-03	0.2
50	21.596		16169	0.0	0.7
51	22.080		12523	0.0	0.6
52	22.226		8645	9.6e-03	0.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	22.655		4452	4.9e-03	0.2
54	22.882		7986	8.9e-03	0.4
55	23.075		2270	2.5e-03	0.1
56	23.223		6508	7.2e-03	0.3
57	23.399		1595	1.8e-03	0.1
58	23.454		2442	2.7e-03	0.1
59	23.631		5648	6.3e-03	0.3
60	23.738		1872	2.1e-03	0.1
61	23.950		730	8.1e-04	0.0
62	24.368		8498	9.4e-03	0.4
63	24.629		11017	0.0	0.5
64	24.804		7073	7.9e-03	0.3
65	25.169		4509	5.0e-03	0.2
66	25.435		2062	2.3e-03	0.1
67	26.080		6500	7.2e-03	0.3
68	26.243		1707	1.9e-03	0.1
69	26.502		1336	1.5e-03	0.1
70	27.135		7402	8.2e-03	0.3
71	28.387		10715	0.0	0.5
72	29.892		6937	7.7e-03	0.3
73	31.721		4093	4.5e-03	0.2

3161877

Report stored in ASCII file: S:\GHP_05\0225\224A008.TX1

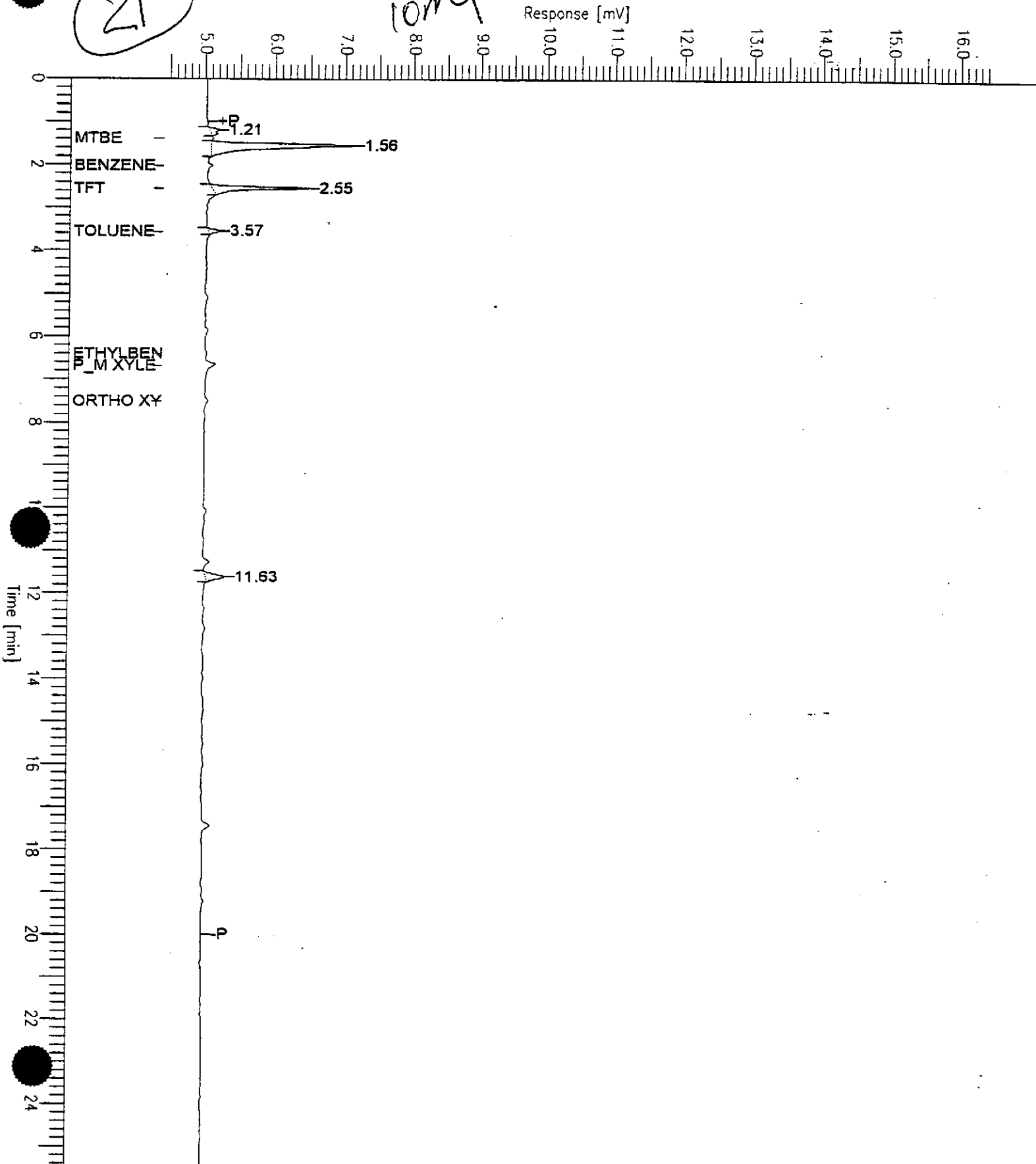
Chromatogram

Sample Name : G9602C57-05C
FileName : S:\GHP_21\0225\2228021.raw
Method : TPH A
Start Time : 0.00 min
Scale Factor : 1.0

End Time : 25.49 min
Plot Offset: 4 mV

Sample #: CPT4-12W
Date : 2/22/96 16:51
Time of Injection: 2/22/96 16:24
Low Point : 4.40 mV
High Point : 16.40 mV
Plot Scale: 12.0 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : G9602C57-05C

Sample Number: CPT4-12W

Operator :

Time : 2/22/96 16:51

Study : EKI

Instrument : GHP_21

Channel : B

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 16:24

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222B021.RAW

Result File : S:\GHP_21\0225\222B021.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222B021.RST

Proc Method : S:\GHP_21\MET_SEQ\BTEX_A

Calib Method : S:\GHP_21\MET_SEQ\BTEX_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (µg/L)	AIR (µg/L)	Raw Amt. (ng)
2	1.559	15090		0.0015	0.0003	0.0151
3	2.551	6748	TFT	9.5462	1.9092	95.4617
5	11.626	2022		0.0002	0.0000	0.0020
		23861		9.5479	1.9096	95.4789

Missing Component Report

Component	Expected Retention (Calibration File)
MTBE	1.407
BENZENE	2.041
ETHYLBENZENE	6.417
P M XYLENES	6.697
ORTHO XYLENE	7.523

Report stored in ASCII file: S:\GHP_21\0225\222B021.TX0

Chromatogram

Sample Name : G9602C57-05C

FileName : S:\GHP_21\0225\222A021.raw

Method : TPH_A

Start Time : 0.00 min

End Time : 30.00 min

Scale Factor: -1.0

Plot Offset: 0 mV

Sample #: CPT4-12W

Date : 2/22/96 16:51

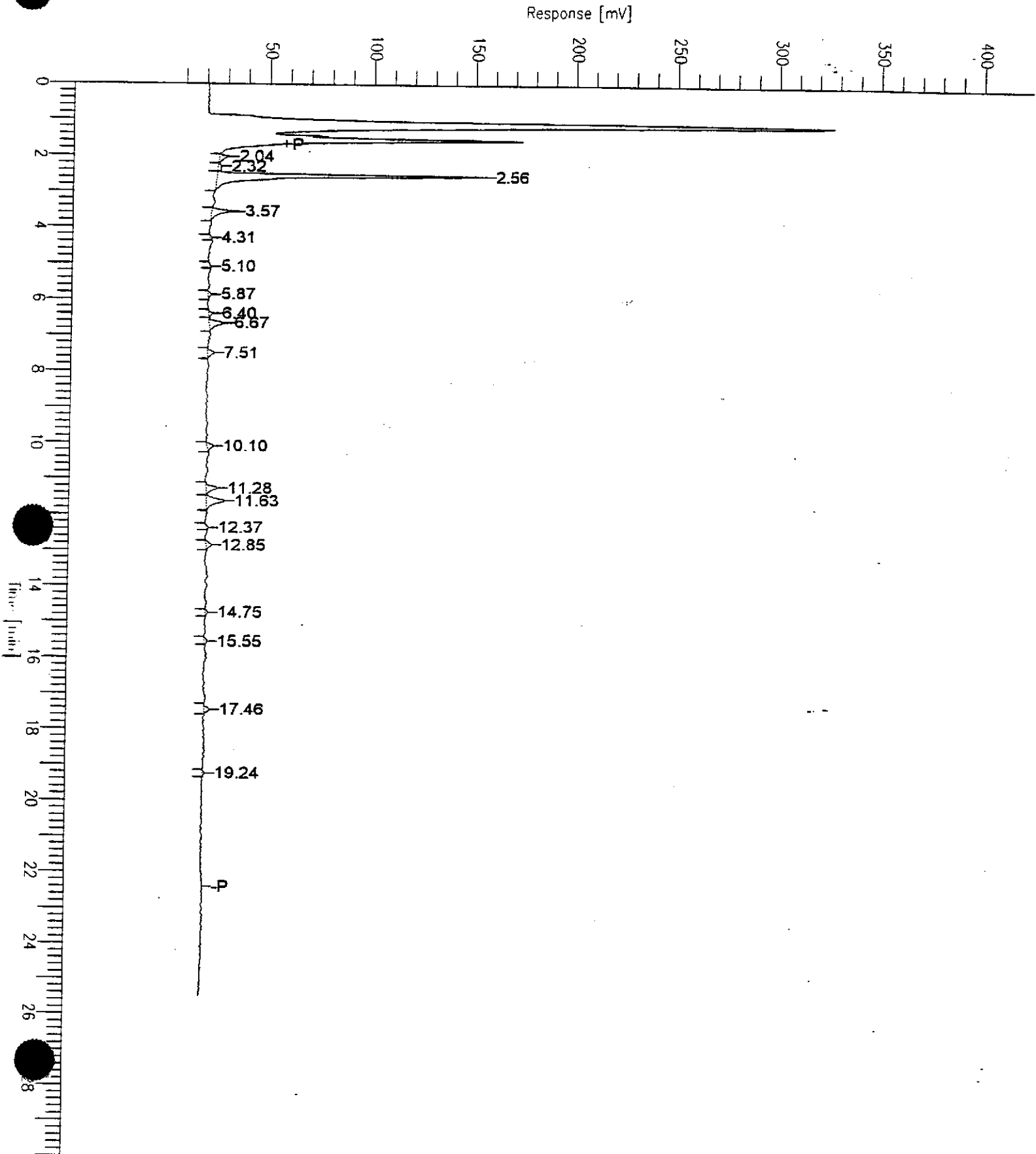
Time of Injection: 2/22/96 16:24

Low Point : 0.18 mV

Page 1 of 1

High Point : 400.18 mV

Plot Scale: 400.0 mV



Software Version: 4.0<3H19>

Sample Name : G9602C57-05C

Sample Number: CPT4-12W

Operator :

Time : 2/22/96 16:51

Study : EKI

Instrument : GHP_21

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 5025272544 Data Acquisition Time: 2/22/96 16:24

Delay Time : 0.00 min.

End Time : 25.49 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_21\0225\222A021.RAW

Result File : S:\GHP_21\0225\222A021.RST

Inst Method : S:\GHP_21\MET_SEQ\TPH_A from S:\GHP_21\0225\222A021.RST

Proc Method : S:\GHP_21\MET_SEQ\TPH_A

Calib Method : S:\GHP_21\MET_SEQ\TPH_A

Sequence File : S:\GHP_21\MET_SEQ\H210222.SEQ

Sample Volume : 1.0000

Area Reject : 1000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Component Name	LIQUID (ug/L)	AIR (ug/L)	RAW (ng)
	2.025	49378	TPH-1	0.8441	0.1688	8.4407
	12.575	431020	TPH-2	7.3679	1.4736	73.6786
		480398		8.2119	1.6424	82.1193

Report stored in ASCII file: S:\GHP_21\0225\222A021.TX1

EXPANDED REPORT GCHP_21

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	2.037	30841.50	2.42	B

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	2.316	18536.49	1.45	V
3	2.558	793749.62	62.30	V
4	3.572	80204.00	6.29	B
5	4.309	5599.20	0.44	B
6	5.095	3615.60	0.28	B
7	5.870	13139.20	1.03	B
8	6.402	12855.16	1.01	B
9	6.670	63676.84	5.00	V
10	7.506	24542.40	1.93	B
11	10.102	24737.60	1.94	B
12	11.276	47022.96	3.69	B
13	11.627	87839.04	6.89	V
14	12.370	5522.40	0.43	B
15	12.853	19980.80	1.57	B
16	14.746	7318.00	0.57	B
17	15.552	9888.40	0.78	B
18	17.456	19324.40	1.52	B
19	19.237	5754.00	0.45	B

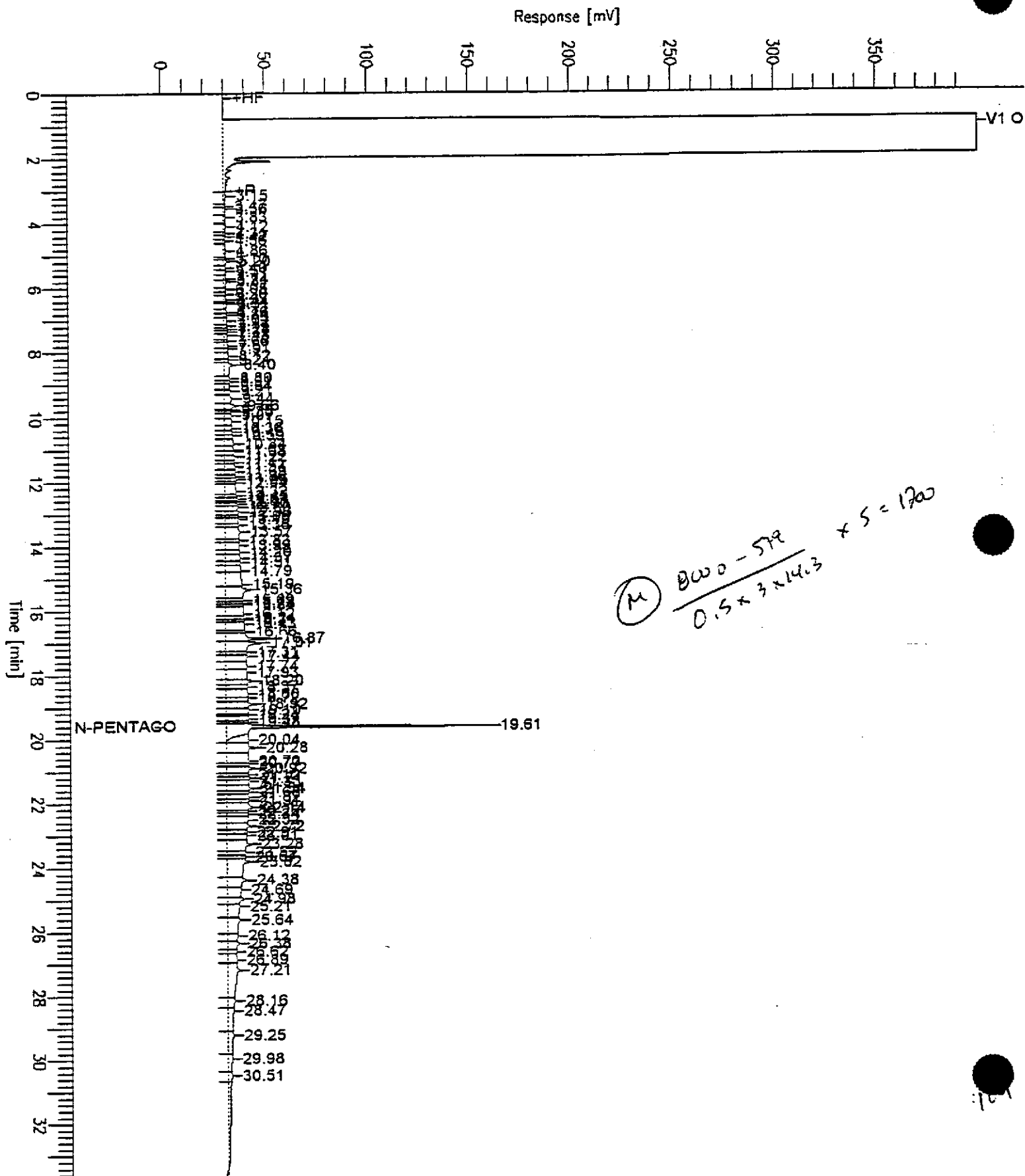
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Report stored in ASCII file: S:\GHP_21\0225\222A021.TX2

Chromatogram

Sample Name : D9602C57-5 (500:1*5) RESHOT
FileName : S:\GHP_05\0303\226B014.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: CPT4-12W
Date : 2/27/96 07:13
Time of Injection: 2/26/96 21:28
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
High Point : 400.00 mV



Software Version: 4.0<3H19>

Sample Name : D9602C57-5 (500:1*5) RESHOT Time : 2/27/96 07:13

Sample Number: CPT4-12W Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : B

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/14

Interface Serial # : NONE Data Acquisition Time: 2/26/96 21:28

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0303\226B014.RAW

Result File : S:\GHP_05\0303\226B014.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0303\226B014.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05B.mth

Calib Method : S:\GHP_05\MET_SEQ\TPH05B.mth

Sequence File : S:\GHP_05\MET_SEQ\H050226.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 5.00

EXTRACTABLE TPH GCHP_05B

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9-n-C13 Paint Thinn	503806	49.1	4.1	163.5
8.250	n-C9 to n-C17 Jet	1702578	106.6	8.9	355.5
11.165	n-C9 to n-C24 TPH-D	4983501	297.8	24.8	992.6
17.340	n-C9 to n-C40 Total	10008172	667.2	55.6	2224.0
19.785	n-C16 to n-C36 M/Oil	8000227	533.3	44.4	1777.8
		25198284	1654.0		

Report stored in ASCII file: S:\GHP_05\0303\226B014.TX0

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.152	19883	0.1	4.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	3.470		5227	0.0	1.2
3	3.561		12998	0.1	2.9
4	3.826		13382	0.1	3.0
5	4.115		14219	0.1	3.2
6	4.310		6557	0.0	1.5
7	4.422		5743	0.0	1.3
8	4.555		5830	0.0	1.3
9	4.857		21346	0.1	4.7
10	5.095		4715	0.0	1.0
11	5.195		13235	0.1	2.9
12	5.398		6739	0.0	1.5
13	5.509		9410	0.1	2.1
14	5.740		10091	0.1	2.2
15	5.807		13858	0.1	3.1
16	6.052		6570	0.0	1.5
17	6.202		5167	0.0	1.1
18	6.367		11083	0.1	2.5
19	6.442		3752	0.0	0.8
20	6.512		14612	0.1	3.2
21	6.755		10903	0.1	2.4
22	6.840		8028	0.0	1.8
23	7.023		17909	0.1	4.0
24	7.172		9907	0.1	2.2
25	7.279		9074	0.1	2.0
26	7.367		10294	0.1	2.3
27	7.482		18366	0.1	4.1
28	7.662		7878	0.0	1.8
29	7.810		17822	0.1	4.0
30	7.906		15515	0.1	3.4
31	8.121		25841	0.1	5.7
32	8.244		13787	0.1	3.1
33	8.395		69389	0.4	15.4
34	8.804		18508	0.1	4.1
35	8.906		18682	0.1	4.2
36	9.037		27486	0.2	6.1
37	9.213		28417	0.2	6.3
38	9.441		48867	0.3	10.9
39	9.656		46692	0.3	10.4
40	9.785		10539	0.1	2.3
41	9.846		15839	0.1	3.5
42	9.966		31744	0.2	7.1
43	10.146		44793	0.2	10.0
44	10.357		30194	0.2	6.7
45	10.476		27203	0.2	6.0
46	10.586		31721	0.2	7.0
47	10.838		58408	0.3	13.0
48	11.026		41556	0.2	9.2
49	11.083		32304	0.2	7.2
50	11.220		49462	0.3	11.0
51	11.405		25895	0.1	5.8
52	11.539		54701	0.3	12.2

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	11.693		44430	0.2	9.9
	11.857		36591	0.2	8.1
	11.950		34794	0.2	7.7
56	12.037		25621	0.1	5.7
57	12.320		94115	0.5	20.9
58	12.445		40024	0.2	8.9
59	12.543		33090	0.2	7.4
60	12.612		22961	0.1	5.1
61	12.702		32450	0.2	7.2
62	12.801		59599	0.3	13.2
63	12.963		52493	0.3	11.7
64	13.091		36191	0.2	8.0
65	13.186		66833	0.4	14.9
66	13.355		41246	0.2	9.2
67	13.567		148616	0.8	33.0
68	13.825		43615	0.2	9.7
69	13.993		98366	0.5	21.9
70	14.199		50880	0.3	11.3
71	14.370		93418	0.5	20.8
72	14.512		58835	0.3	13.1
73	14.787		101729	0.6	22.6
74	15.191		200661	1.1	44.6
75	15.363		211845	1.2	47.1
	15.689		47462	0.3	10.5
	15.776		48143	0.3	10.7
78	15.841		41639	0.2	9.3
79	16.116		140352	0.8	31.2
80	16.242		64473	0.4	14.3
81	16.310		36294	0.2	8.1
82	16.431		146942	0.8	32.7
83	16.658		45704	0.3	10.2
84	16.873		198429	1.1	44.1
85	17.013		217107	1.2	48.2
86	17.305		65636	0.4	14.6
87	17.441		140203	0.8	31.2
88	17.738		138951	0.8	30.9
89	17.933		189118	1.1	42.0
90	18.195		115116	0.6	25.6
91	18.374		84103	0.5	18.7
92	18.596		153587	0.9	34.1
93	18.717		85573	0.5	19.0
94	18.916		148530	0.8	33.0
95	19.098		122694	0.7	27.3
96	19.241		42903	0.2	9.5
97	19.368		95100	0.5	21.1
98	19.476		61548	0.3	13.7
	19.610	n-Pentacosane	579374	2.8	113.7
	20.037		128226	0.7	28.5
101	20.278		226115	1.3	50.2
102	20.695		189126	1.1	42.0
103	20.767		69609	0.4	15.5

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
104	20.921		154814	0.9	34.4
105	21.115		59914	0.3	13.3
106	21.213		81956	0.5	18.2
107	21.329		88055	0.5	19.6
108	21.542		136368	0.8	30.3
109	21.660		69081	0.4	15.4
110	21.818		103273	0.6	22.9
111	21.914		69161	0.4	15.4
112	22.140		163427	0.9	36.3
113	22.254		41858	0.2	9.3
114	22.344		58415	0.3	13.0
115	22.518		140157	0.8	31.1
116	22.720		126859	0.7	28.2
117	22.906		86428	0.5	19.2
118	23.014		100911	0.6	22.4
119	23.279		195226	1.1	43.4
120	23.521		71769	0.4	15.9
121	23.665		64601	0.4	14.4
122	23.822		277099	1.5	61.6
123	24.384		152823	0.8	34.0
124	24.688		124231	0.7	27.6
125	24.983		81966	0.5	18.2
126	25.214		153866	0.9	34.2
127	25.640		156390	0.9	34.8
128	26.123		71975	0.4	16.0
129	26.376		79031	0.4	17.6
130	26.622		39491	0.2	8.8
131	26.892		76198	0.4	16.9
132	27.205		274501	1.5	61.0
133	28.156		60448	0.3	13.4
134	28.466		118604	0.7	26.4
135	29.245		97645	0.5	21.7
136	29.983		63608	0.4	14.1
137	30.506		35422	0.2	7.9

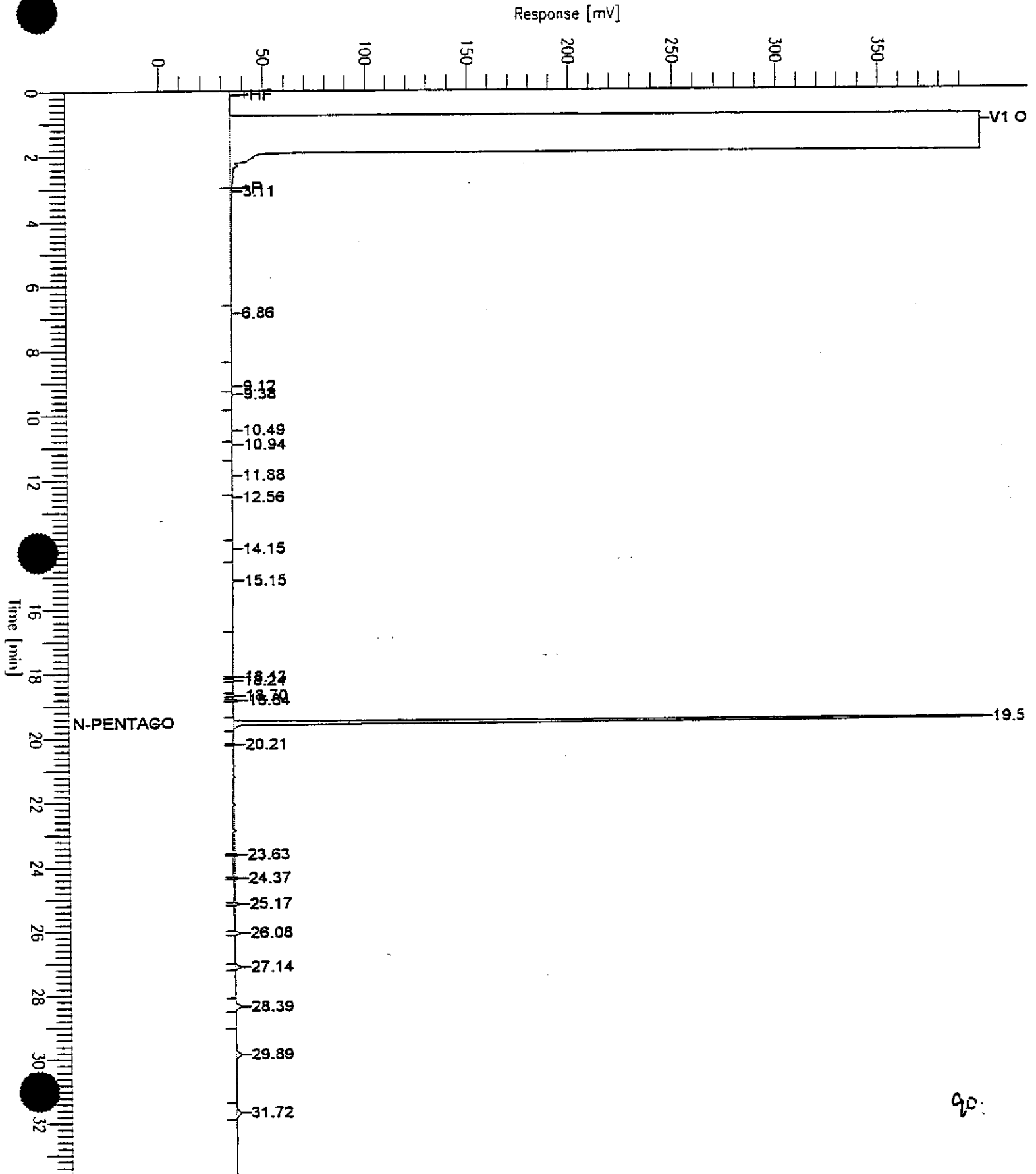
10008172

Report stored in ASCII file: S:\GHP_05\0303\226B014.TX1

Sample Name : GC0223960HBPEXA (20:1) 3550/DHS
FileName : S:\GHP_05\0225\224A006.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: BLK022396A
Date : 2/24/96 15:24
Time of Injection: 2/24/96 14:51
Low Point : 0.00 mV
High Point : 400.00 mV
Plot Scale: 400.0 mV



90

Software Version: 4.0<3H19>

Sample Name : GC0223960HBPEXA (20:1) 3550/DHS Time : 2/24/96 15:24

Sample Number: BLK022396A

Study : SAL (METH BLK)

Operator : JM

Instrument : GCHP_05

Channel : A A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/56

Interface Serial # : NONE Data Acquisition Time: 2/24/96 14:51

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0225\224A006.RAW

Result File : S:\GHP_05\0225\224A006.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0225\224A006.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	145008	9.0	0.2	6.0
8.250	n-C9 to n-C17 Jet Fuel	196639	9.2	0.2	6.1
11.015	n-C9 to n-C24 TPH-D	230153	10.7	0.2	7.2
16.950	n-C9 to n-C40 Total	2994507	199.6	3.3	133.1
19.390	n-C16 to n-C36 M/Oil	2731431	182.1	3.0	121.4
		6297737	410.7		

Report stored in ASCII file: S:\GHP_05\0225\224A006.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.108		106281	0.1	4.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	6.862		26315	0.0	1.2
	9.123		12412	0.0	0.6
	9.375		9474	0.0	0.4
5	10.494		11330	0.0	0.5
6	10.936		7679	8.5e-03	0.3
7	11.879		10212	0.0	0.5
8	12.564		12936	0.0	0.6
9	14.154		5744	6.4e-03	0.3
10	15.146		16542	0.0	0.7
11	18.130		1201	1.3e-03	0.1
12	18.242		628	7.0e-04	0.0
13	18.698		3575	4.0e-03	0.2
14	18.844		5824	6.5e-03	0.3
15	19.537	n-Pentacosane	2655154	2.3	90.3
16	20.214		1658	1.8e-03	0.1
17	23.630		3529	3.9e-03	0.2
18	24.368		5607	6.2e-03	0.2
19	25.167		7741	8.6e-03	0.3
20	26.077		11291	0.0	0.5
21	27.135		15891	0.0	0.7
22	28.385		22244	0.0	1.0
23	29.888		41238	0.0	1.8
24	31.716		27526	0.0	1.2

3022033

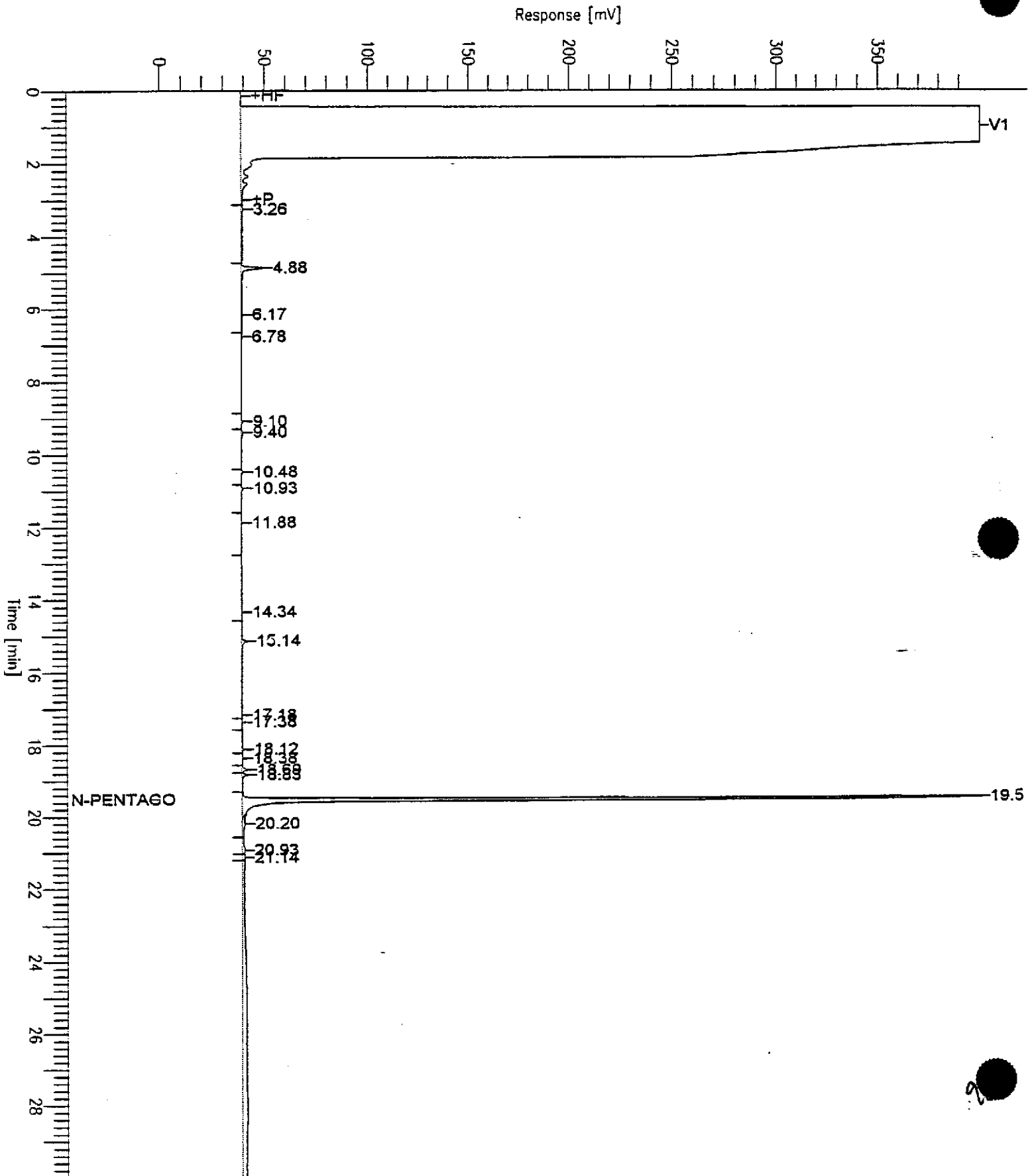
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Chromatogram

Sample Name : GC0223960HBPEXZ (500:1) 3520
FileName : S:\GHP_04\0225\224A026.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: BLK022396X
Date : 2/25/96 02:36
Time of Injection: 2/25/96 02:03
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : GC0223960HBPXZ (500:1) 3520 Time : 2/25/96 02:36

Sample Number: BLK022396X

Study : SAL (METH BLK)

Operator : JM

Instrument : GCHP_04

Channel : A A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/76

Interface Serial # : NONE Data Acquisition Time: 2/25/96 02:03

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0225\224A026.RAW

Result File : S:\GHP_04\0225\224A026.RST

Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0225\224A026.RST

Proc Method : S:\GHP_04\MET_SEQ\TPH04A

Calib Method : S:\GHP_04\MET_SEQ\TPH04A

Sequence File : S:\GHP_04\MET_SEQ\H040224.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	243402	12.8	0.2	8.5
11.000	n-C9 to n-C24 TPH-D	380781	21.4	0.4	14.2
16.950	n-C9 to n-C40 Total	2874205	191.6	3.2	127.7
19.350	n-C16 to n-C36 M/Oil	2630804	175.4	2.9	116.9
		6129192	401.2		

Report stored in ASCII file: S:\GHP_04\0225\224A026.TX0

Peak	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.263		57890	0.1	2.6
2	4.882		77499	0.1	3.4

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
3	6.173		17093	0.0	0.8
4	6.777		36008	0.0	1.6
5	9.099		8906	9.9e-03	0.4
6	9.396		17095	0.0	0.8
7	10.477		7160	8.0e-03	0.3
8	10.926		9931	0.0	0.4
9	11.877		11819	0.0	0.5
10	14.339		19805	0.0	0.9
11	15.140		33100	0.0	1.5
12	17.177		16206	0.0	0.7
13	17.376		6270	7.0e-03	0.3
14	18.119		15504	0.0	0.7
15	18.375		10711	0.0	0.5
16	18.688		13355	0.0	0.6
17	18.831		22429	0.0	1.0
18	19.521	n-Pentacosane	2410819	2.4	96.0
19	20.197		39462	0.0	1.8
20	20.933		29519	0.0	1.3
21	21.138		13624	0.0	0.6

2874205

Report stored in ASCII file: S:\GHP_04\0225\224A026.TXT1



Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek

Lab Proj. ID: 9602E84

Sampled: 02/17/96
Received: 02/20/96
Analyzed: see below

Attention: Andy Safford

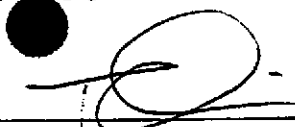
Reported: 03/01/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602E84-01 Sample Desc: LIQUID,CPT6-11W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602E84-03 Sample Desc: LIQUID,CPT6-28W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602E84-04 Sample Desc: LIQUID,CPT3-11W				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602E84-05 Sample Desc: SOLID,CPT3-10S				
Arsenic	mg/Kg	02/27/96	5.0	N.D.
Lab No: 9602E84-06 Sample Desc: LIQUID,CPT3-37W				
Arsenic	mg/L	02/29/96	0.0050	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erier & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Lab Proj. ID: 9602E84	Sampled: Received: 02/20/96 Analyzed: see below Reported: 03/01/96
Attention: Andy Safford		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9602E84-07 Sample Desc: LIQUID, Method Blank				
Arsenic	mg/L	02/29/96	0.0050	N.D.
Lab No: 9602E84-08 Sample Desc: SOLID, Method Blank				
Arsenic	mg/Kg	02/27/96	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT6-11W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-01	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/26/96 Reported: 02/29/96
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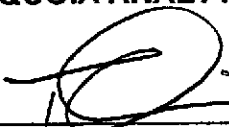
QC Batch Number: GC022696BTEX01A
Instrument ID: GCHP01

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	98

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

SEQUOIA ANALYTICAL - ELAP #1210



Olive
Project Manager





Eler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT6-11W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-01	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/27/96 Reported: 02/29/96
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QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	120 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 105

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

SEQUOIA ANALYTICAL - ELAP #1210


Tom Olive
Project Manager





Erlar & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Attention: Andy Safford

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT6-11W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602E84-01

Sampled: 02/17/96
Received: 02/20/96
Extracted: 02/24/96
Analyzed: 02/27/96
Reported: 02/29/96

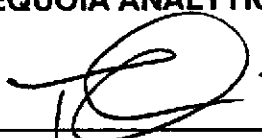
QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	105

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Eder & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT6-11W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602E84-01	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/28/96 Reported: 02/29/96
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QC Batch Number: GC022896801008A
Instrument ID: GCHP8

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.
Dichloroethane	0.50	1.3
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.
Freon 113	1.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT6-28W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-03	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

QC Batch Number: GC022696BTEX01A
Instrument ID: GCHP01

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	99

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erlar & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT6-28W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9602E84-03

Sampled: 02/17/96
Received: 02/20/96
Extracted: 02/24/96
Analyzed: 02/27/96
Reported: 02/29/96

QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	220 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	97

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

SEQUOIA ANALYTICAL - ELAP #1210

T. Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT6-28W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-03	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/27/96 Reported: 02/29/96
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QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	97

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Orze
Project Manager





Eler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: CPT6-28W
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602E84-03

Sampled: 02/17/96
Received: 02/20/96
Analyzed: 02/28/96
Reported: 02/29/96

QC Batch Number: GC022896801008A
Instrument ID: GCHP8

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.
Dichloroethane	0.50	N.D.
Dichloroethane	0.50	2.1
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.
Freon 113	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

T. Olive
Plant Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-11W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-04	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/27/96 Reported: 02/29/96
Attention: Andy Safford		


QC Batch Number: GC022796BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	1800
Benzene	10	11
Toluene	10	N.D.
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	8.7
Chromatogram Pattern: Weathered Gas		C7-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	77

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-11W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-04	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/27/96 Reported: 02/29/96
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QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	10,000	270,000 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-11W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-04	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/27/96 Reported: 02/29/96
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QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	100,000	350,000
Chromatogram Pattern: Unidentified HC		C16-C36
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotech
Sample Descript: CPT3-11W
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9602E84-04

Sampled: 02/17/96
Received: 02/20/96
Analyzed: 02/28/96
Reported: 02/29/96

QC Batch Number: GC022896801008A
Instrument ID: GCHP8

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.3	N.D.
Bromoform	1.3	N.D.
Bromomethane	2.5	N.D.
Carbon Tetrachloride	1.3	N.D.
Chlorobenzene	1.3	40
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	1.3	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.3	N.D.
1,2-Dichlorobenzene	1.3	11
1,3-Dichlorobenzene	1.3	4.2
1,4-Dichlorobenzene	1.3	15
1,1-Dichloroethane	1.3	N.D.
1,2-Dichloroethane	1.3	N.D.
1,1-Dichloroethene	1.3	N.D.
cis-1,2-Dichloroethene	1.3	N.D.
trans-1,2-Dichloroethene	1.3	N.D.
1,2-Dichloropropane	1.3	N.D.
cis-1,3-Dichloropropene	1.3	N.D.
trans-1,3-Dichloropropene	1.3	N.D.
Methylene chloride	13	N.D.
1,1,1,2-Tetrachloroethane	1.3	N.D.
Tetrachloroethene	1.3	N.D.
1,1,1-Trichloroethane	1.3	N.D.
1,1,2-Trichloroethane	1.3	N.D.
Trichloroethene	1.3	N.D.
Trichlorofluoromethane	1.3	N.D.
Vinyl chloride	2.5	N.D.
Freon 113	2.5	N.D.

Surrogates
1-Chloro-2-fluorobenzene

Control Limits %
70 130

% Recovery
91

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

SEQUOIA ANALYTICAL - ELAP #1210

T. Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-10S Matrix: SOLID Analysis Method: EPA 8010 Lab Number: 9602E84-05	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/27/96 Analyzed: 02/28/96 Reported: 02/29/96
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QC Batch Number: GC0223968010EXA
Instrument ID: GCHP8

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Freon 113	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	88

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-10S Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-05	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/26/96 Analyzed: 02/27/96 Reported: 02/29/96
Attention: Andy Safford		

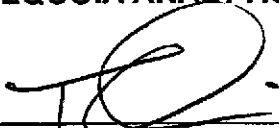
QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	17 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	326 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Plant Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT3-10S Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-05	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/26/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

QC Batch Number: GC022696BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: CPT3-10S Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-05	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/26/96 Analyzed: 02/27/96 Reported: 02/29/96
Attention: Andy Safford		


QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil Chromatogram Pattern: Unidentified HC	10	54 C16-C36
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 326 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Plant Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-37W Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-06	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

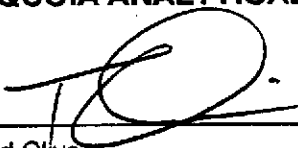
QC Batch Number: GC022696BTEX01A
Instrument ID: GCHP01

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	98

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402 Attention: Andy Safford	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-37W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-06	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/26/96 Reported: 02/29/96
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QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	320 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 150 98

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Plant Manager





Erler & Kallnowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-37W Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-06	Sampled: 02/17/96 Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	590
Chromatogram Pattern: Unidentified HC		C16-C36
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	98

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager

Page:





Ertler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: CPT3-37W Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602E84-06	Sampled: 02/17/96 Received: 02/20/96 Analyzed: 02/28/96 Reported: 02/29/96
Attention: Andy Safford		

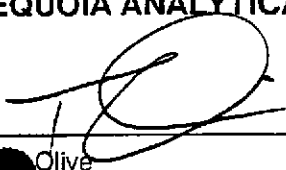
QC Batch Number: GC022896801008A
Instrument ID: GCHP8

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.
Dichloroethane	0.50	N.D.
Dichloroethane	0.50	0.75
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.
Freon 113	1.0	N.D.
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


T. Olive
Product Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9602E84-07	Sampled: Received: 02/20/96 Analyzed: 02/28/96 Reported: 02/29/96
Attention: Andy Safford		

QC Batch Number: GC022896801008A
Instrument ID: GCHP8

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-Dichloroethane	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.
Freon 113	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9602E84-07	Sampled: Received: 02/20/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

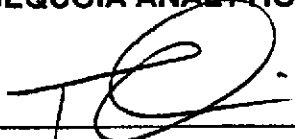
QC Batch Number: GC022696BTEX01A
 Instrument ID: GCHP01

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	104

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-07	Sampled: Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		

QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP5A

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	97

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-07	Sampled: Received: 02/20/96 Extracted: 02/24/96 Analyzed: 02/26/96 Reported: 02/29/96
Attention: Andy Safford		


QC Batch Number: GC0224960HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 97

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

SEQUOIA ANALYTICAL - ELAP #1210



 Olive
 Project Manager





Erlar & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotek Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8010 Lab Number: 9602E84-08	Sampled: Received: 02/20/96 Extracted: 02/27/96 Analyzed: 02/28/96 Reported: 02/29/96
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QC Batch Number: GC0223968010EXA
Instrument ID: GCHP8


Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Freon 113	10	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	60 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402

Client Proj. ID: 930040.02/Ekotek
Sample Descript: Method Blank
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9602E84-08

Sampled:
Received: 02/20/96
Extracted: 02/26/96
Analyzed: 02/26/96
Reported: 02/29/96

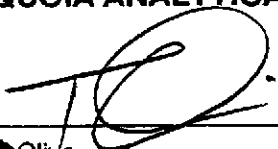
QC Batch Number: GC022696BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	80

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

SEQUOIA ANALYTICAL - ELAP #1210



Tom Olive
Plant Manager





Erier & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-08	Sampled: Received: 02/20/96 Extracted: 02/26/96 Analyzed: 02/27/96 Reported: 02/29/96
Attention: Andy Safford		


QC Batch Number: GC0223960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	72

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

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Erler & Kalinowski, Inc. 1730 South Amphlett, Ste 320 San Mateo, CA 94402	Client Proj. ID: 930040.02/Ekotech Sample Descript: Method Blank Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9602E84-08	Sampled: Received: 02/20/96 Extracted: 02/26/96 Analyzed: 02/27/96 Reported: 02/29/96
Attention: Andy Safford		


QC Batch Number: GC0223960HBPEXA
 Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable HC as Motor Oil Chromatogram Pattern:	10	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	72

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tom Olive
 Project Manager





Sequoia
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FAX (916) 921-0100

COPY

Erler & Kalinowski, Inc.
1730 South Amphlett, Ste 320
San Mateo, CA 94402
Attention: Andy Safford

Client Proj. ID: 930040.02/Ekotek

Lab Proj. ID: 9602E84

Received: 02/20/96

Reported: 03/01/96

LABORATORY NARRATIVE

TEPH Note: Q= Surrogate diluted out for sample CPT3-11W.
Q= Surrogate coeluted with sample matrix for sample CPT3-10S.
The total extractable petroleum hydrocarbon and fuel fingerprint chromatogram patterns for samples CPT6-11, CPT6-28, and CPT3-37W do not resemble a petroleum product. The quantitated values are most likely due to some other type of organic matter in the water samples.

SEQUOIA ANALYTICAL


Todd Olive
Project Manager





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotech
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT3-10S
 Attention: Andy Safford Work Order #: 9602E84 05, 08 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0226966010MDE	ME0226966010MDE	ME0226966010MDE	ME0226966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9602E84-05-MSD	9602E84-05-MSD	9602E84-05-MSD	9602E84-05-MSD
Sample Conc.:	N.D.	N.D.	95	200
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/27/96	02/27/96	02/27/96	02/27/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	95	100	180	260
MS % Recovery:	95	100	85	60
Dup. Result:	94	99	170	280
MSD % Recov.:	94	99	75	80
RPD:	1.1	1.0	5.7	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	LCS022696-LCS	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/27/96	02/27/96	02/27/96	02/27/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	110	100	100
LCS % Recov.:	100	110	100	100

MS/MSD	LCS	LCS	LCS	LCS
Control Limits	75-125	75-125	75-125	75-125

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SEQUOIA ANALYTICAL

[Signature]
 Todd Olive
 Project Manager

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

9602E84.ERL <1>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: CPT-1-11W
Work Order #: 9602E84 01, 03, 04, 06, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Arsenic
QC Batch#: ME0229967000MDC
Analy. Method: EPA 206.2
Prep. Method: EPA 3020

Analyst: W.Thant
MS/MSD #: 9602C85-02-MSD
Sample Conc.: 0.017
Prepared Date: 02/29/96
Analyzed Date: 02/29/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

Result: 0.068
MS % Recovery: 102

Dup. Result: 0.070
MSD % Recov.: 106

RPD: 2.9
RPD Limit: 0-30

LCS #: LCS022996-LCS

Prepared Date: 02/29/96
Analyzed Date: 02/29/96
Instrument I.D.#: MTJA1
Conc. Spiked: 0.050 mg/L

LCS Result: 0.046
LCS % Recov.: 92

**MS/MSD
LCS Control Limits** 75-125

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager

Please Note:
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9602E84.ERL <2>





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

Client Project ID: 930040.02/Ekotech
Matrix: LIQUID
Sample Descript: LCS
Work Order #: 9602E84 01, 03, 04, 06, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC0224960HBPEXZ
Analy. Method: EPA 8015M
Prep. Method: EPA 3520

Analyst: J. Minkel
MS/MSD #:
Sample Conc.:
Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

Result:
MS % Recovery:

Dup. Result:
MSD % Recov.:

RPD:
RPD Limit: 0-50

LCS #: LCS022496-LCS

Prepared Date: 02/24/96
Analyzed Date: 02/26/96
Instrument I.D.#: GCHP5A
Conc. Spiked: 1000 µg/L

LCS Result: 960
LCS % Recov.: 96

MS/MSD
LCS 50-150
Control Limits

Please Note:

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602E84.ERL <3>





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

Client Project ID: 930040.02/Ekotek
Matrix: SOLID
Sample Descript: CPT4-10.5S
Work Order #: 9602E84 05, 08

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC0223960HBPEXA
Analy. Method: EPA 8015M
Prep. Method: EPA 3550/DHS

Analyst: J. Minkel
MS/MSD #: 9602C57-04-MSD
Sample Conc.: N.D.
Prepared Date: 02/23/96
Analyzed Date: 02/24/96
Instrument I.D.#: GCHP5A
Conc. Spiked: 25 mg/Kg

Result: 23
MS % Recovery: 92

Dup. Result: 20
MSD % Recov.: 80

RPD: 14
RPD Limit: 0-50

LCS #: LCS022396-LCS
Prepared Date: 02/26/96
Analyzed Date: 02/27/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/Kg
LCS Result: 16
LCS % Recov.: 64

**MS/MSD
LCS
Control Limits** 50-150

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602E84.ERL <4>





Erler & Kalinowski, Inc. 1730 So. Amphlett Blvd., Suite 320 San Mateo, CA 94402 Attention: Andy Safford	Client Project ID: 930040.02/Ekotech Matrix: LIQUID Sample Descript: CPT6-11W Work Order #: 9602E84 01, 03, 06, 07	Reported: Mar 1, 1996
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022696BTEX01A	GC022696BTEX01A	GC022696BTEX01A	GC022696BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9602E84-01-MSD	9602E84-01-MSD	9602E84-01-MSD	9602E84-01-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.6	9.8	9.8	29
MS % Recovery:	96	98	98	97
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	4.1	2.0	2.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	30
LCS % Recov.:	100	100	100	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602E84.ERL <5>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: XSD
Work Order #: 9602E84 04

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022796BTEX20A	GC022796BTEX20A	GC022796BTEX20A	GC022796BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Lee	R. Lee	R. Lee	R. Lee
MS/MSD #:	9602E58-05-XSD	9602E58-05-XSD	9602E58-05-XSD	9602E58-05-XSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/27/96	02/27/96	02/27/96	02/27/96
Analyzed Date:	02/27/96	02/27/96	02/27/96	02/27/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	9.8	9.8	29
MS % Recovery:	99	98	98	97
Dup. Result:	12	9.2	9.2	27
MSD % Recov.:	120	92	92	90
RPD:	19	6.3	6.3	7.1
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022796-LCS	LCS022796-LCS	LCS022796-LCS	LCS022796-LCS
Prepared Date:	02/27/96	02/27/96	02/27/96	02/27/96
Analyzed Date:	02/27/96	02/27/96	02/27/96	02/27/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.9	9.8	9.8	30
LCS % Recov.:	99	98	98	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602E84.ERL <6>





Erler & Kalinowski, Inc. Client Project ID: 930040.02/Ekotek
 1730 So. Amphlett Blvd., Suite 320 Matrix: SOLID
 San Mateo, CA 94402 Sample Descript: CPT3-10S
 Attention: Andy Safford Work Order #: 9602E84 05, 08 Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022696BTEXEXA	GC022696BTEXEXA	GC022696BTEXEXA	GC022696BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Maralit	A. Maralit	A. Maralit	A. Maralit
MS/MSD #:	9602E84-05-MSD	9602E84-05-MSD	9602E84-05-MSD	9602E84-05-MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.18	0.19	0.19	0.57
MS % Recovery:	90	95	95	95
Dup. Result:	0.19	0.19	0.19	0.58
MSD % Recov.:	95	95	95	97
RPD:	5.4	0.0	0.0	1.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS	LCS022696-LCS
Prepared Date:	02/26/96	02/26/96	02/26/96	02/26/96
Analyzed Date:	02/26/96	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.20	0.20	0.20	0.59
LCS % Recov.:	100	100	100	98

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

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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

9602E84.ERL <7>





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

Client Project ID: 930040.02/Ekotek
Matrix: LIQUID
Sample Descript: CPT6-11W
Work Order #: 9602E84 01, 03, 04, 06, 07

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC022895801008A	GC022895801008A	GC022895801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. LI	A. LI	A. LI
MS/MSD #:	9602E84-01-MSD	9602E84-01-MSD	9602E84-01-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/28/96	02/28/96	02/28/96
Analyzed Date:	02/28/96	02/28/96	02/28/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	26	26	24
MS % Recovery:	104	104	96
Dup. Result:	25	22	21
MSD % Recov.:	100	88	84
RPD:	3.9	17	13
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022896-LCS	LCS022896-LCS	LCS022896-LCS
Prepared Date:	02/28/96	02/28/96	02/28/96
Analyzed Date:	02/28/96	02/28/96	02/28/96
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	24	22
LCS % Recov.:	100	96	88

MS/MSD LCS Control Limits	30-140	40-130	40-130
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SEQUOIA ANALYTICAL


Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

Client Project ID: 930040.02/Ekotech
Matrix: SOLID
Sample Descript: CPT4-10.5S
Work Order #: 9602E84 05, 08

Reported: Mar 1, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC0223968010EXA	GC0223968010EXA	GC0223968010EXA
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Li	A. Li	A. Li
MS/MSD #:	9602C57-04-MSD	9602C57-04-MSD	9602C57-04-MSD
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg

Result:	16	19	16
MS % Recovery:	64	76	64

Dup. Result:	18	22	19
MSD % Recov.:	72	88	76

RPD:	12	15	17
RPD Limit:	0-50	0-50	0-50

LCS #:	LCS022396-LCS	LCS022396-LCS	LCS022396-LCS
Prepared Date:	02/23/96	02/23/96	02/23/96
Analyzed Date:	02/26/96	02/26/96	02/26/96
Instrument I.D.#:	GCHP16	GCHP16	GCHP16
Conc. Spiked:	25 µg/Kg	25 µg/Kg	25 µg/Kg
LCS Result:	29	26	22
LCS % Recov.:	116	104	88

MS/MSD LCS Control Limits	30-140	40-130	40-130
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:

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

9602E84.ERL <9>



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory: Sequoia

Project Number: EKI 930040.02

Date Sampled: 2/17/96

Project Name: EXOTEC

Sampled By: Bert Lamb

Source of Samples: PIPP

Report Results To: Andy Safford

Location: OAKLAND, CA.

9602E84

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)
01	CPT6-11W	WATER	4 VOA & 1 liter Amber	9:40	2015, TPH-d, TPH-g, BTEX	Normal
02	TB#2	"	4 VOA & 1 V	9:40	Fuel FINGER PRINT AS Motor Oil	Normal
03	CPT6-20W	"	4 VOA & 1 liter Amber	10:30	VOC - 8010, ARSENIC - 7060	Normal
04	CPT3-11W	"	"	11:50	↓	Normal
05	CPT3-10S	SOIL	1 LINER	11:45		Normal
	CPT3-10.5S	SOIL	"	11:45		HUP
06	CPT3-32W	WATER	4 VOA & 1 liter Amber	12:25		Normal

Special Instructions:

Relinquished By:
Name / Signature / Affiliation

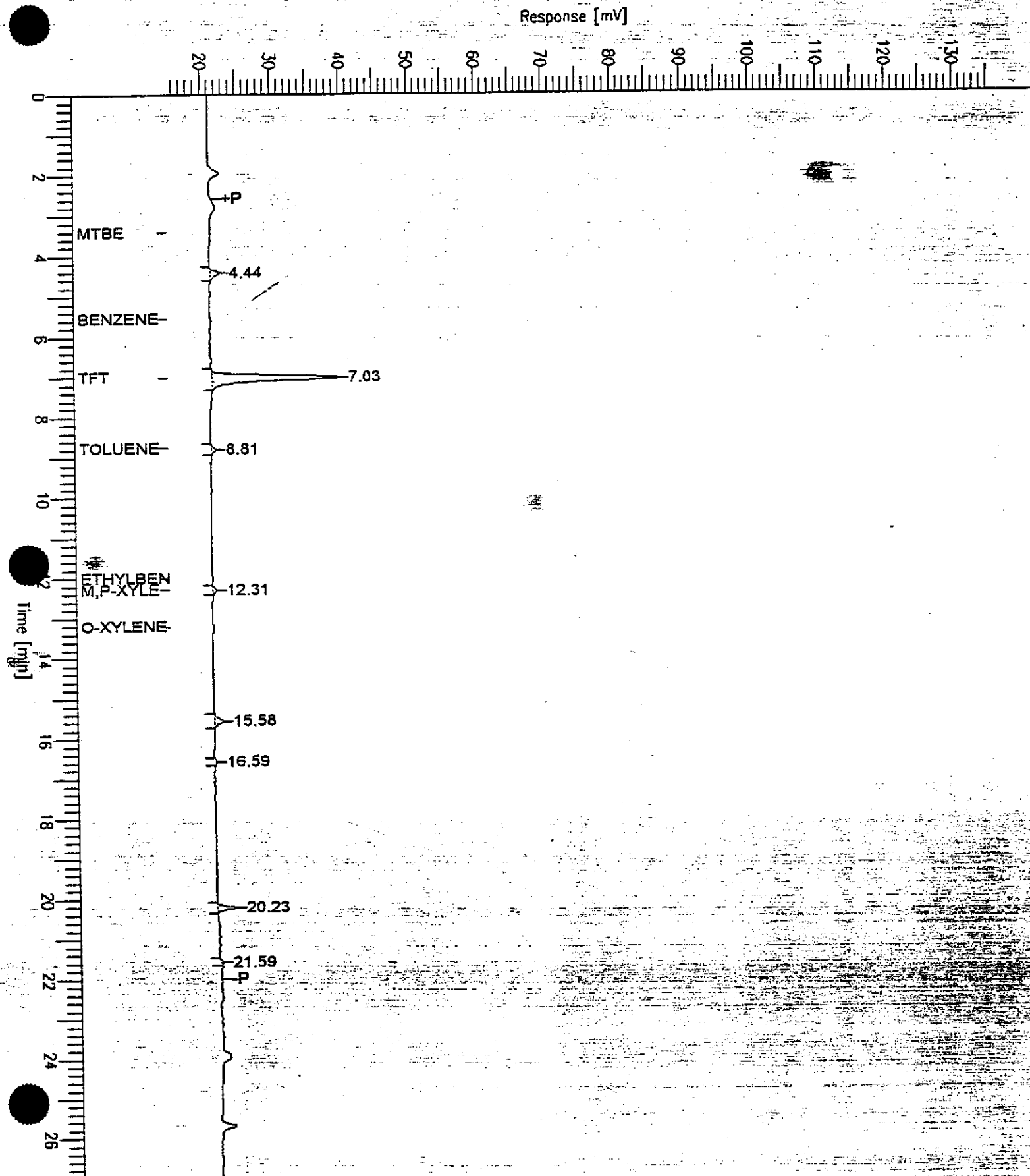
Received By:
Name / Signature / Affiliation

<u>Bert Lamb / Bert Lamb</u> / EKI	Date	Time	Name / Signature / Affiliation
	<u>2/17/96</u>	<u>10:40A</u>	<u>Andy Safford / Sequoia</u>

Sample Name : GBLK022696A
FileName : S:\GHP_18\0303\226B003.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.99 min
Plot Offset: 15 mV

Sample #: MET BLK
Date : 2/26/96 15:43
Time of Injection: 2/26/96 15:15
Low Point : 15.16 mV
High Point : 135.16 mV
Plot Scale: 120.0 mV



Software Version: -4.0<3H19>
 Sample Name : GBLK022696A
 Sample Number: MET BLK
 Operator :

Time : 2/26/96 15:43
 Study : SAL

Instrument : GCHP_18 Channel : B A/D mV Range : 1024
 AutoSampler : NONE
 Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 15:15
 Delay Time : 0.00 min.
 End Time : 26.99 min.
 Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0303\226B003.RAW
 Result File : S:\GHP_18\0303\226B003.RST
 Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0303\226B003.RST
 Proc Method : S:\GHP_18\MET_SEQ\BTEX
 Calib Method : S:\GHP_18\MET_SEQ\BTEX
 Sequence File : S:\GHP_18\MET_SEQ\H180226.SEQ

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

BTEX REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (ug/L)	Raw Amt. (ng)
1	4.439	11427		0.0000	0.0011	0.0114
2	7.028	170092	TFT	0.1609	8.0448	80.4479
3	8.814	4376	Toluene	0.0016	0.0821	0.8213
4	12.309	3813	m,p-Xylenes	0.0014	0.0681	0.6807
5	15.579	11186		0.0000	0.0011	0.0112
6	16.592	1612		3.2248e-06	0.0002	0.0016
7	20.225	16329		0.0000	0.0016	0.0163
8	21.589	1915		3.8306e-06	0.0002	0.0019
Total				0.1640	8.1992	81.9924

Missing Component Report

Component	Expected Retention (Calibration File)
MTBE	3.432
Benzene	5.563
Ethylbenzene	12.017

o-Xylene

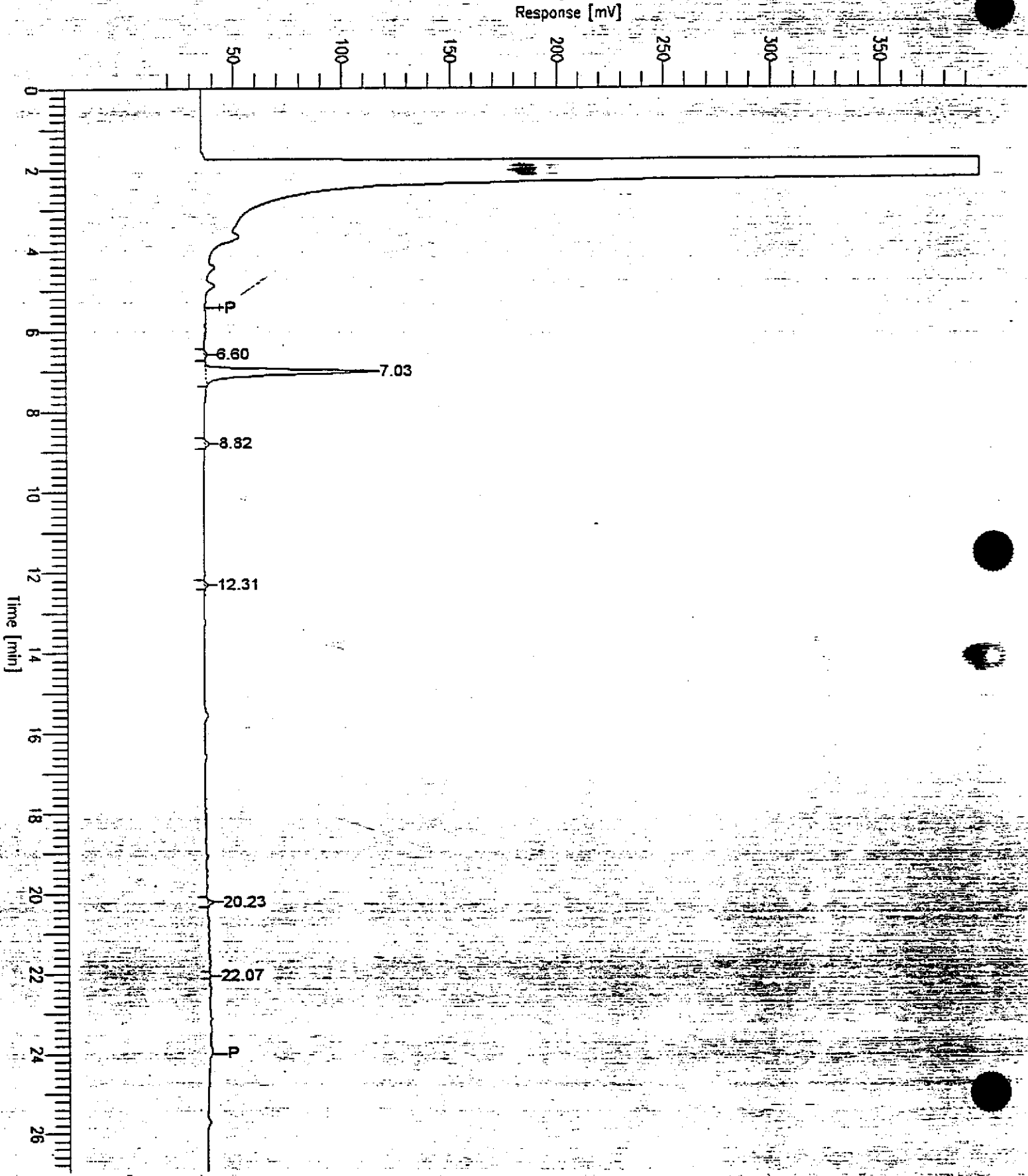
13.216

Report stored in ASCII file: S:\GHP_18\0303\226B003.TX0

Sample Name : GBLK022696A
FileName : S:\GHP_18\0303\226A003.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 26.99 min
Plot Offset : 16 mV

Sample #: MET BLK
Date : 2/26/96 15:43
Time of Injection: 2/26/96 15:15
Low Point : 16.07 mV
Plot Scale : 380.0 mV
High Point : 396.07 mV



Sample Name : GBLK022696A

Time : 2/26/96 15:42

Sample Number: MET BLK

Study : SAL

Operator :

Instrument : GCHP_18

Channel : A A/D mV Range : 1024

Sampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 15:15

Delay Time : 0.00 min.

End Time : 26.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_18\0303\226A003.RAW

Result File : S:\GHP_18\0303\226A003.RST

Inst Method : S:\GHP_18\MET_SEQ\TPH from S:\GHP_18\0303\226A003.RST

Proc Method : S:\GHP_18\MET_SEQ\TPH

Calib Method : S:\GHP_18\MET_SEQ\TPH

Sequence File : S:\GHP_18\MET_SEQ\H180226.SEQ

Sample Volume : 1.0000

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	6.225	9348	TPH-1	0.0030	0.1486	1.4862
	15.775	44054	TPH-2	0.0140	0.7004	7.0038
		53402		0.0170	0.8490	8.4900

EXPANDED REPORT GCHP_18

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	6.597	9348.14	1.23	B
2	7.030	708032.50	92.99	B
3	8.818	15715.65	2.06	B

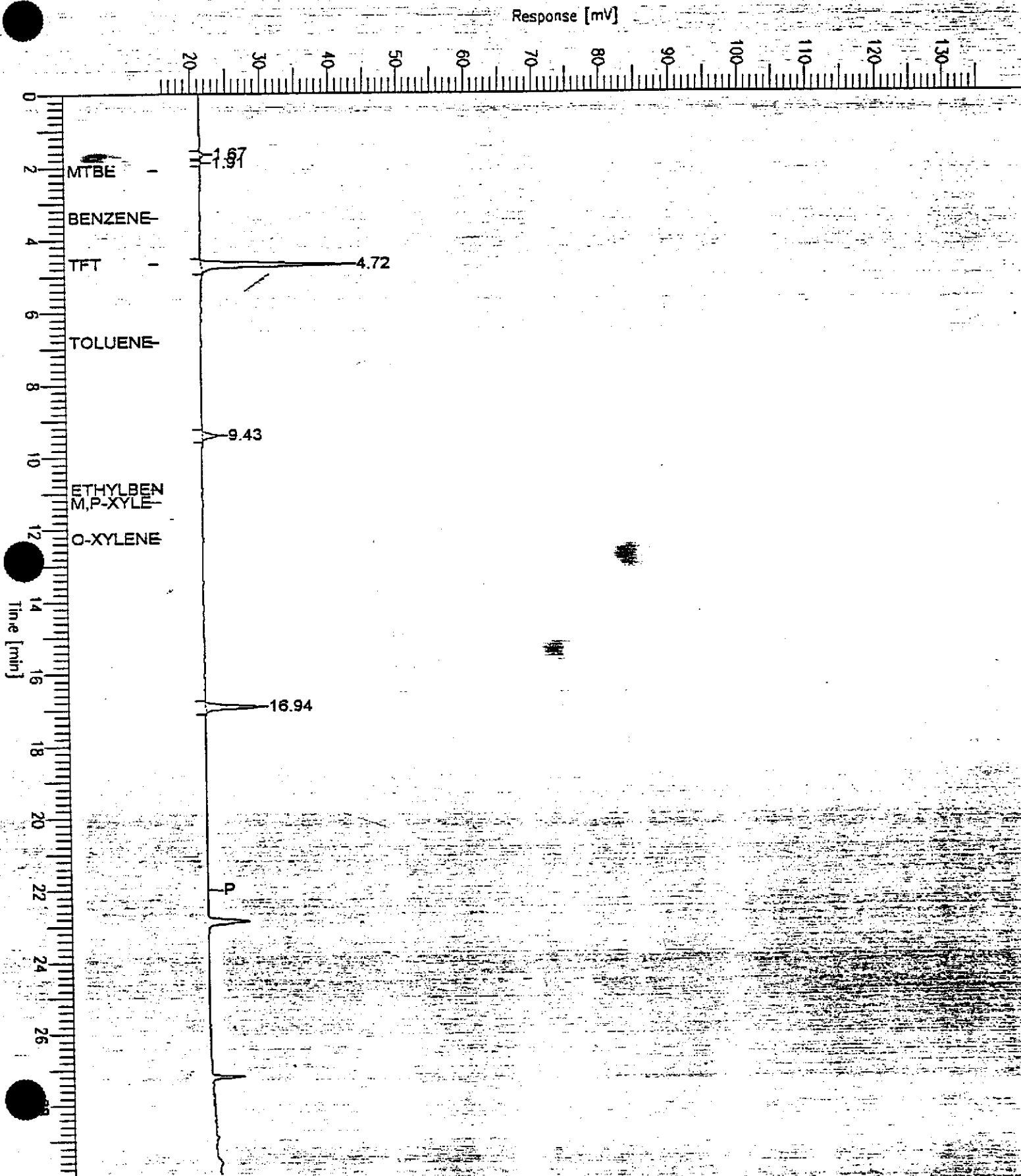
Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
4	12.309	8737.26	1.15	B
5	20.226	17126.10	2.25	B
6	22.069	2474.71	0.33	B

761434.35 100.00

Sample Name : GBLK022696A
FileName : S:\GHP_01\0303\226B005.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 29.99 min
Plot Offset: 15 mV

Sample #: METH BLK
Date : 2/26/96 10:36
Time of Injection: 2/26/96 10:06
Low Point : 15.25 mV
Plot Scale: 120.0 mV



Software Version: 4.0<3H19>

Sample Name : GBLK022696A

Time : 2/26/96 10:36

Sample Number: METH BLK

Study : SAL

Operator :

Instrument : GCHP_01

Channel : B

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 10:06

Delay Time : 0.00 min.

End Time : 29.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226B005.RAW

Result File : S:\GHP_01\0303\226B005.RST

Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226B005.RST

Proc Method : S:\GHP_01\MET_SEQ\btex

Calib Method : S:\GHP_01\MET_SEQ\btex

Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000

Area Reject : 300.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (ug/L)	Raw Amt. (ng)
1	1.672	2986		5.9721e-06	0.0003	0.0030
2	1.905	615		1.2308e-06	0.0001	0.0006
3	4.717	140858	TFT	0.2072	10.3597	103.5971
4	9.427	16538		0.0000	0.0017	0.0165
5	16.944	55080		0.0001	0.0055	0.0551
		216077		0.2073	10.3672	103.6723

104%

Missing Component Report

Component Expected Retention (Calibration File)

MTBE	2.123
Benzene	3.417
Toluene	6.843
Ethylbenzene	10.916
m,p-xylenes	11.278
o-xylene	12.275

Report stored in ASCII file: S:\GHP_01\0303\226B005.TX0

Sample Name : GBLK022696A

Sample #: METH BLK

Page 1 of 1

FileName : S:\GHP_01\0303\226A005.raw

Date : 2/26/96 10:36

Method : TPH

Time of Injection: 2/26/96 10:06

Start Time : 0.00 min

End Time : 29.99 min

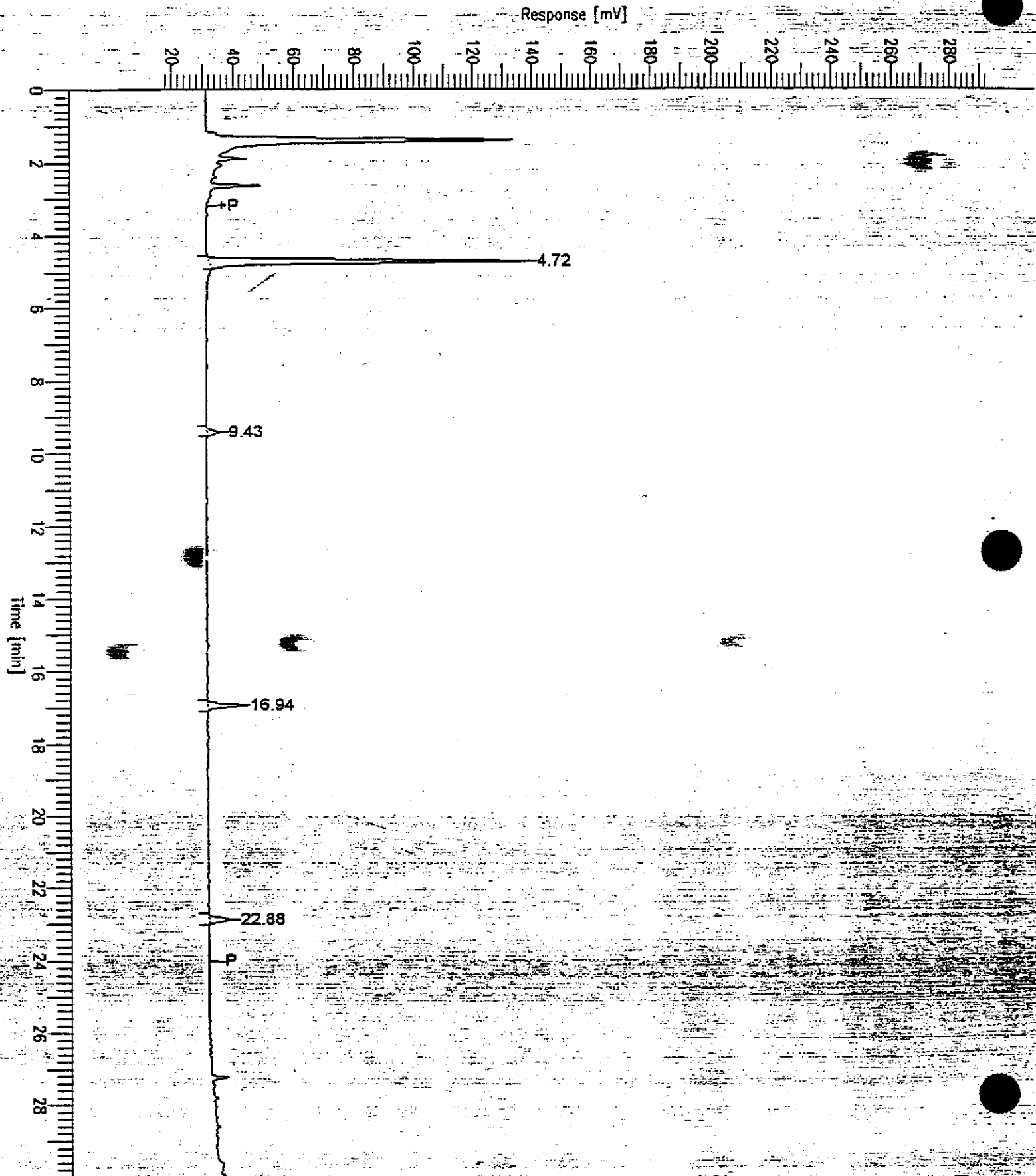
Low Point : 17.22 mV

High Point : 292.22 mV

Scale Factor: -1.0

Plot Offset: 17 mV

Plot Scale: 275.0 mV



Sample Name : GBLK022696A
Sample Number: METH BLK
Operator :

Time : 2/26/96 10:36
Study : SAL

Instrument : GCHP_01 Channel : A A/D mV Range : 1024
Sampler : NONE
Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 10:06
Delay Time : 0.00 min.
End Time : 29.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226A005.RAW
Result File : S:\GHP_01\0303\226A005.RST
Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226A005.RST
Proc Method : S:\GHP_01\MET_SEQ\TPH
Calib Method : S:\GHP_01\MET_SEQ\TPH
Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000 Area Reject : 20000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

TPH REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	14.465	152247	TPH-2	0.0490	2.4516	24.5164
		152247		0.0490	2.4516	24.5164

EXPANDED REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
1	4.717	702975	82.20	B
	9.429	26395	3.09	B
3	16.944	73884	8.64	B
4	22.881	51969	6.08	B

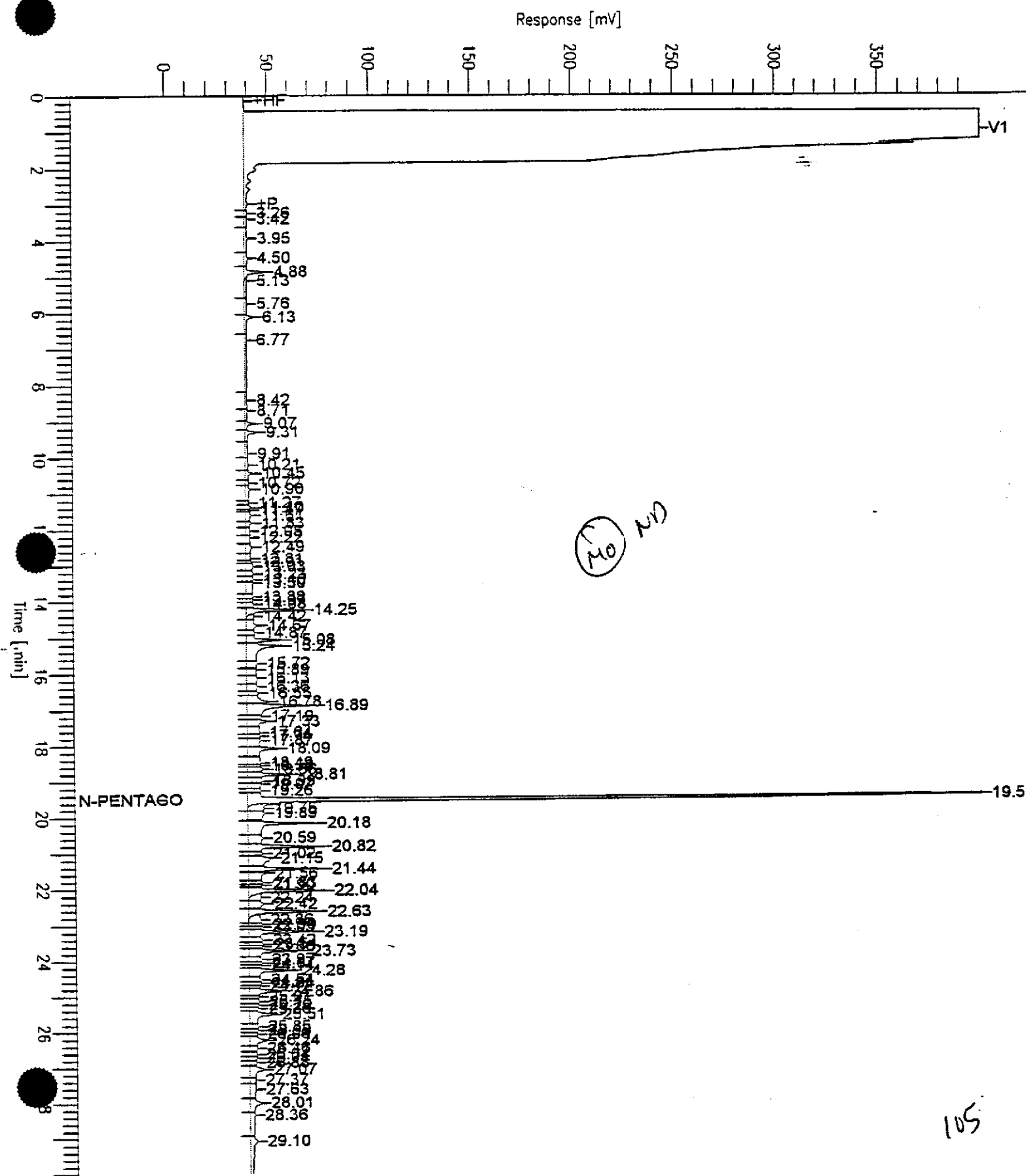
Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
--------	------------	---------------	----------	----

		855222	100.00	
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CPT6-11W

Sample Name : D9602E84 (500:1) RESHOT
 FileName : S:\GHP_04\0303\226A024.raw
 Method : TPH04A
 Start Time : 0.00 min
 Scale Factor: 0.0

Sample #: ~~CPT6-11W~~
 Date : 2/27/96 12:18
 Time of Injection: 2/27/96 11:44
 Low Point : 0.00 mV
 Plot Scale: 400.0 mV
 High Point : 400.00 mV
 End Time : 30.00 min
 Plot Offset: 0 mV



105

Software Version: 4.0<3H19>

Sample Name : D9602E84-4 (500:1) RESHOT
Sample Number: CPT3-11W
Operator : JM

Time : 2/27/96 12:18
Study : EKI

Instrument : GCHP_04 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/74

Interface Serial # : NONE Data Acquisition Time: 2/27/96 11:44
Delay Time : 0.00 min.
End Time : 33.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0303\226A024.RAW
Result File : S:\GHP_04\0303\226A024.RST
Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0303\226A024.RST
Proc Method : S:\GHP_04\MET_SEQ\TPH04A
Calib Method : S:\GHP_04\MET_SEQ\TPH04A
Sequence File : S:\GHP_04\MET_SEQ\H040226.SEQ

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

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	916205	50.8	0.8	33.9
11.000	n-C9 to n-C24 TPH-D	3163344	184.1	3.1	122.7
16.950	n-C9 to n-C40 Total	9701404	646.8	10.8	431.2
19.350	n-C16 to n-C36 M/Oil	8243797	549.6	9.2	366.4
		22024750	1431.2		

Report stored in ASCII file: S:\GHP_04\0303\226A024.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.257		14267	0.0	0.6
2	3.419		22109	0.0	1.0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
3	3.954		52618	0.1	2.3
	4.498		32449	0.0	1.4
	4.878		57878	0.1	2.6
6	5.125		37369	0.0	1.7
7	5.761		30078	0.0	1.3
8	6.134		44808	0.0	2.0
9	6.774		93274	0.1	4.1
10	8.421		27208	0.0	1.2
11	8.710		20740	0.0	0.9
12	9.066		26056	0.0	1.2
13	9.307		38414	0.0	1.7
14	9.906		30483	0.0	1.4
15	10.211		28511	0.0	1.3
16	10.451		29674	0.0	1.3
17	10.719		13082	0.0	0.6
18	10.897		44242	0.0	2.0
19	11.271		10996	0.0	0.5
20	11.395		15760	0.0	0.7
21	11.469		8585	9.5e-03	0.4
22	11.614		36132	0.0	1.6
23	11.826		22207	0.0	1.0
24	12.048		28046	0.0	1.2
25	12.218		28599	0.0	1.3
26	12.489		40634	0.0	1.8
	12.812		28795	0.0	1.3
	12.905		13452	0.0	0.6
28	13.030		39739	0.0	1.8
30	13.234		32580	0.0	1.4
31	13.398		33239	0.0	1.5
32	13.497		65464	0.1	2.9
33	13.875		25677	0.0	1.1
34	13.969		21339	0.0	0.9
35	14.081		30601	0.0	1.4
36	14.247		121205	0.1	5.4
37	14.417		30541	0.0	1.4
38	14.671		72602	0.1	3.2
39	14.873		31491	0.0	1.4
40	15.075		97202	0.1	4.3
41	15.238		213178	0.2	9.5
42	15.719		60035	0.1	2.7
43	15.894		57935	0.1	2.6
44	16.126		68224	0.1	3.0
45	16.364		59896	0.1	2.7
46	16.548		39433	0.0	1.8
47	16.782		101218	0.1	4.5
48	16.889		254824	0.3	11.3
	17.185		49343	0.1	2.2
	17.331		86418	0.1	3.8
51	17.637		79608	0.1	3.5
52	17.737		45076	0.1	2.0
53	17.867		85688	0.1	3.8

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
54	18.087		129709	0.1	5.8
55	18.490		88529	0.1	3.9
56	18.562		26891	0.0	1.2
57	18.664		62999	0.1	2.8
58	18.810		107635	0.1	4.8
59	18.988		68561	0.1	3.0
60	19.074		56781	0.1	2.5
61	19.257		45953	0.1	2.0
62	19.507	n-Pentacosane	2488326	2.6	104.6
63	19.752		106982	0.1	4.8
64	19.891		119460	0.1	5.3
65	20.175		247521	0.3	11.0
66	20.585		98150	0.1	4.4
67	20.821		183752	0.2	8.2
68	21.017		50496	0.1	2.2
69	21.151		150331	0.2	6.7
70	21.443		158869	0.2	7.1
71	21.560		100062	0.1	4.4
72	21.827		44647	0.0	2.0
73	21.896		31430	0.0	1.4
74	22.044		176134	0.2	7.8
75	22.238		59918	0.1	2.7
76	22.415		83476	0.1	3.7
77	22.625		156073	0.2	6.9
78	22.855		71948	0.1	3.2
79	22.985		36980	0.0	1.6
80	23.051		29966	0.0	1.3
81	23.187		156990	0.2	7.0
82	23.420		61152	0.1	2.7
83	23.535		39602	0.0	1.8
84	23.599		30505	0.0	1.4
85	23.731		145596	0.2	6.5
86	23.965		53347	0.1	2.4
87	24.074		29773	0.0	1.3
88	24.143		32452	0.0	1.4
89	24.278		135905	0.2	6.0
90	24.539		45215	0.1	2.0
91	24.638		37512	0.0	1.7
92	24.719		25013	0.0	1.1
93	24.863		99827	0.1	4.4
94	25.008		26447	0.0	1.2
95	25.153		42361	0.0	1.9
96	25.255		25937	0.0	1.2
97	25.355		28337	0.0	1.3
98	25.510		120361	0.1	5.3
99	25.854		37641	0.0	1.7
100	25.954		26566	0.0	1.2
101	26.064		24760	0.0	1.1
102	26.242		83698	0.1	3.7
103	26.464		39187	0.0	1.7
104	26.639		28484	0.0	1.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
105	26.740		25096	0.0	1.1
106	26.877		28640	0.0	1.3
107	27.069		83053	0.1	3.7
108	27.365		28055	0.0	1.2
109	27.630		70156	0.1	3.1
110	28.013		79460	0.1	3.5
111	28.355		92088	0.1	4.1
112	29.099		141682	0.2	6.3
113	30.358		115907	0.1	5.2
114	31.822		79203	0.1	3.5
115	33.529		21597	0.0	1.0

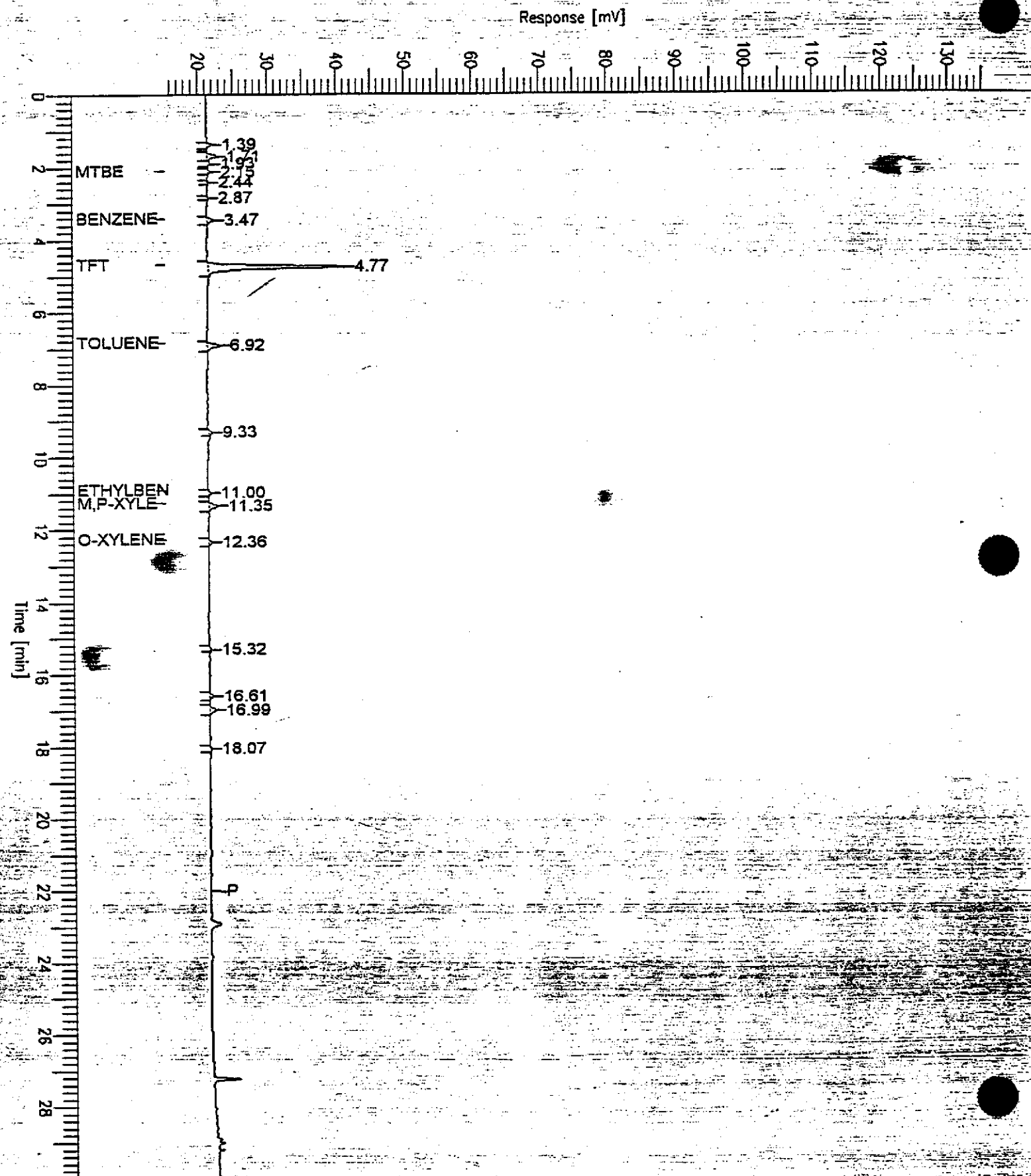
9802204

Report stored in ASCII file: S:\GHP_04\0303\226A024.TX1

Sample Name : 9602E84-03A
FileName : S:\GHP_01\0303\226B010.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 29.99 min
Plot Offset : 15 mV

Sample #: CPT6-28W
Date : 2/26/96 14:37
Time of Injection: 2/26/96 14:07
Low Point : 15.28 mV
High Point : 135.28 mV
Plot Scale: 120.0 mV



Sample Name : 9602E84-03A

Time : 2/26/96 -14:37

Sample Number: CPT6-28W

Study : EKI

Operator :

Instrument : GCHP_01

Channel : B

A/D mV Range : 1024

Sampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 14:07

Delay Time : 0.00 min.

End Time : 29.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226B010.RAW

Result File : S:\GHP_01\0303\226B010.RST

Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226B010.RST

Proc Method : S:\GHP_01\MET_SEQ\btex

Calib Method : S:\GHP_01\MET_SEQ\btex

Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000

Area Reject : 300.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

BTEX REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
1	1.391	3186		6.3723e-06	0.0003	0.0032
2	1.714	9017		0.0000	0.0009	0.0090
3	1.926	2484		4.9686e-06	0.0002	0.0025
4	2.147	1819	MTBE	0.0116	0.5819	5.8190
5	2.438	429		8.5804e-07	0.0000	0.0004
6	2.869	563		1.1251e-06	0.0001	0.0006
7	3.472	5370	Benzene	0.0029	0.1443	1.4429
8	4.768	134613	TFT	0.1980	9.9004	99.0040
9	6.923	11237	Toluene	0.0066	0.3313	3.3131
10	9.329	3004		6.0078e-06	0.0003	0.0030
11	11.000	1989	Ethylbenzene	0.0013	0.0673	0.6733
12	11.353	9267	m,p-xylenes	0.0052	0.2591	2.5914
13	12.356	3118	o-xylene	0.0021	0.1068	1.0680
14	15.317	1069		2.1385e-06	0.0001	0.0011
15	16.610	3292		6.5846e-06	0.0003	0.0033
16	16.994	6139		0.0000	0.0006	0.0061
17	18.067	1297		2.5949e-06	0.0001	0.0013

197893

0.2279

11.3942 113.9421

Missing Component Report

Component

Expected Retention (Calibration File)

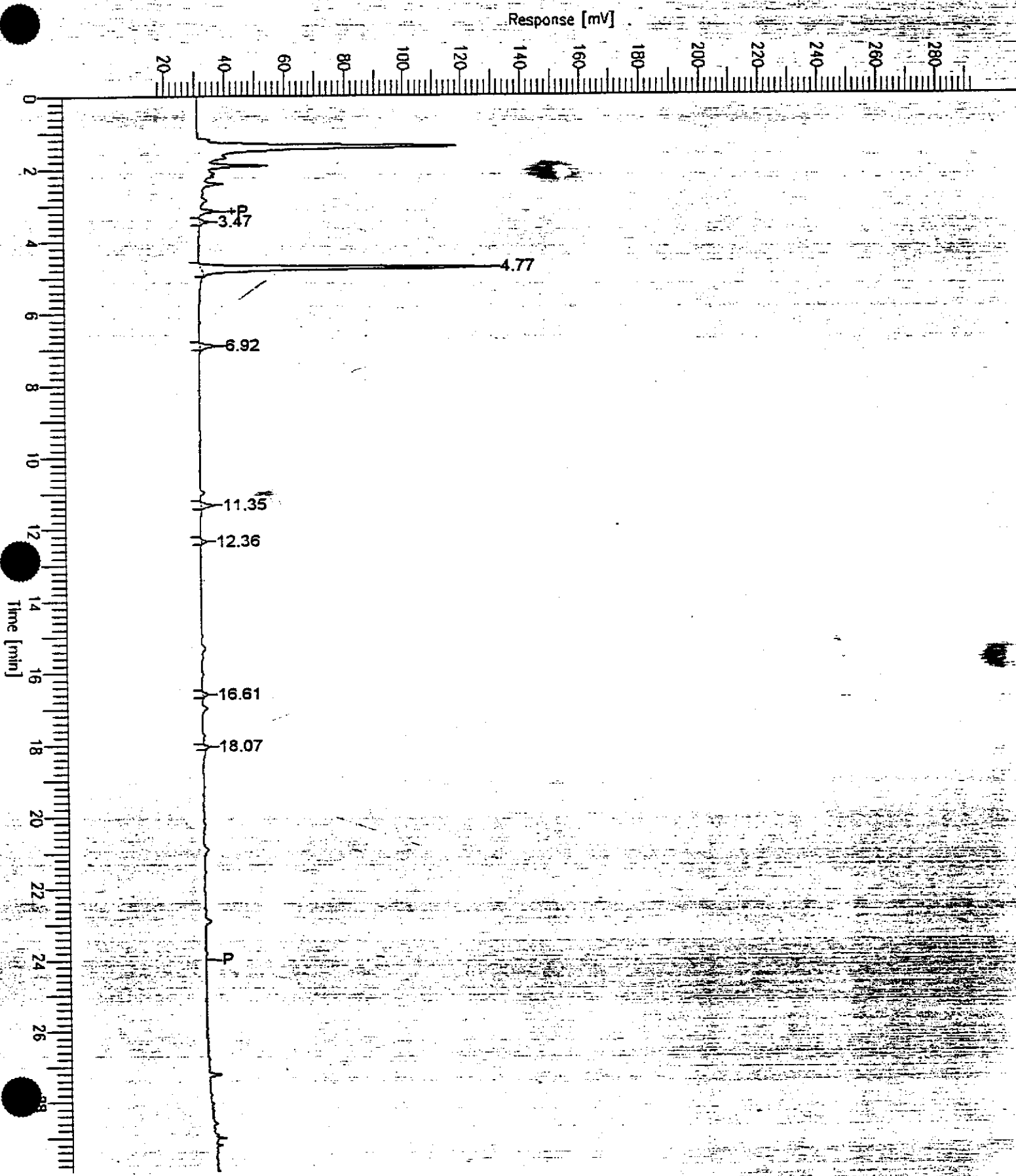
All components were found

Report stored in ASCII file: S:\GHP_01\0303\226B010.TX0

Sample Name : 9602E84-03A
FileName : S:\GHP_01\0303\226A010.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 29.99 min
Plot Offset : 17 mV

Sample #: CPT6-28W
Date : 2/26/96 14:37
Time of Injection: 2/26/96 14:07
Low Point : 17.12 mV
Plot Scale : 275.0 mV
High Point : 292.12 mV



Software Version: 4.0<3H19>

Sample Name : 9602E84-03A

Time : 2/26/96 14:37

Sample Number: CPT6-28W

Study : EKI

Operator :

Instrument : GCHP_01

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 14:07

Delay Time : 0.00 min.

End Time : 29.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226A010.RAW

Result File : S:\GHP_01\0303\226A010.RST

Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226A010.RST

Proc Method : S:\GHP_01\MET_SEQ\TPH

Calib Method : S:\GHP_01\MET_SEQ\TPH

Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000

Area Reject : 20000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	14.465	83056	TPH-2	0.0267	1.3375	13.3746
		83056		0.0267	1.3375	13.3746

EXPANDED REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
2	4.768	655100	92.10	B
3	6.923	31808	4.47	B
4	11.352	24371	3.43	B

711279 100.00

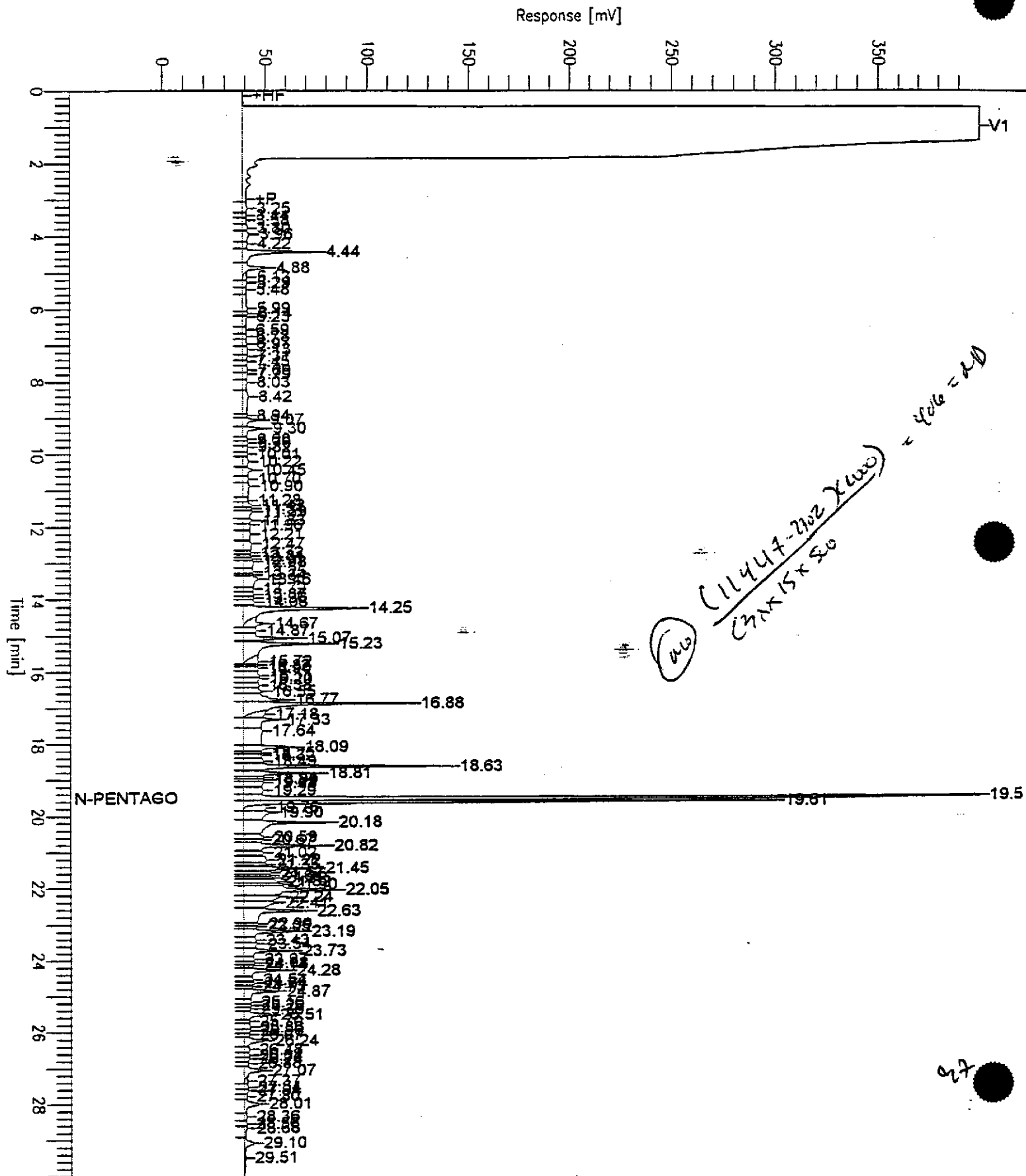
Chromatogram

Sample Name : D9602E84-3 (500:1) RESHOT
FileName : S:\GHP_04\0303\226A022.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 30.00 min
Plot Offset: 0 mV

Sample #: CPT6-28W
Date : 2/27/96 10:56
Time of Injection: 2/27/96 10:22
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV

Page 1 of 1



Software Version: 4.0<3H19>

Sample Name : D9602E84-3 (500:1) RESHOT

Time : 2/27/96 10:56

Sample Number: CPT6-28W

Study : EKI

Operator : JM

Instrument : GCHP_04
AutoSampler : HP7673A
Rack/Vial : 0/72

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 2/27/96 10:22

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0303\226A022.RAW
Result File : S:\GHP_04\0303\226A022.RST
Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0303\226A022.RST
Proc Method : S:\GHP_04\MET_SEQ\TPH04A
Calib Method : S:\GHP_04\MET_SEQ\TPH04A
Sequence File : S:\GHP_04\MET_SEQ\H040226.SEQ

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

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	1738684	96.5	1.6	64.3
11.000	n-C9 to n-C24 TPH-D	5704419	331.9	5.5	221.3
16.950	n-C9 to n-C40 Total	13335601	889.0	14.8	592.7
19.350	n-C16 to n-C36 M/Oil	11447487	763.2	12.7	508.8
		32226191	2080.6		

Report stored in ASCII file: S:\GHP_04\0303\226A022.TX0

Peak	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.252		33808	0.0	1.5
2	3.442		14975	0.0	0.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
3	3.579		17022	0.0	0.8
4	3.799		24006	0.0	1.1
5	3.958		47319	0.1	2.1
6	4.217		24040	0.0	1.1
7	4.440		198355	0.2	8.8
8	4.880		75238	0.1	3.3
9	5.133		23790	0.0	1.1
10	5.287		21921	0.0	1.0
11	5.480		21289	0.0	0.9
12	5.994		53576	0.1	2.4
13	6.139		16656	0.0	0.7
14	6.233		31063	0.0	1.4
15	6.588		18392	0.0	0.8
16	6.779		15585	0.0	0.7
17	6.971		20960	0.0	0.9
18	7.126		32455	0.0	1.4
19	7.308		18753	0.0	0.8
20	7.453		17647	0.0	0.8
21	7.691		25074	0.0	1.1
22	7.793		25750	0.0	1.1
23	8.026		33360	0.0	1.5
24	8.417		88631	0.1	3.9
25	8.943		12963	0.0	0.6
26	9.067		54157	0.1	2.4
27	9.300		63979	0.1	2.8
28	9.600		15790	0.0	0.7
29	9.701		18923	0.0	0.8
30	9.817		24192	0.0	1.1
31	10.013		18113	0.0	0.8
32	10.215		42343	0.0	1.9
33	10.452		47736	0.1	2.1
34	10.695		26705	0.0	1.2
35	10.899		66485	0.1	3.0
36	11.278		20334	0.0	0.9
37	11.422		32715	0.0	1.5
38	11.507		20216	0.0	0.9
39	11.591		52874	0.1	2.3
40	11.827		33572	0.0	1.5
41	11.955		38123	0.0	1.7
42	12.212		57558	0.1	2.6
43	12.472		66578	0.1	3.0
44	12.723		24178	0.0	1.1
45	12.814		18734	0.0	0.8
46	12.906		21032	0.0	0.9
47	12.976		61721	0.1	2.7
48	13.248		42239	0.0	1.9
49	13.336		19916	0.0	0.9
50	13.455		109863	0.1	4.9
51	13.719		35812	0.0	1.6
52	13.872		40352	0.0	1.8
53	13.964		29278	0.0	1.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
54	14.081		47488	0.1	2.1
55	14.249		392683	0.4	17.5
	14.665		93885	0.1	4.2
57	14.865		55646	0.1	2.5
58	15.071		150416	0.2	6.7
59	15.227		353422	0.4	15.7
60	15.723		72692	0.1	3.2
61	15.819		28726	0.0	1.3
62	15.896		52542	0.1	2.3
63	16.114		85641	0.1	3.8
64	16.196		61160	0.1	2.7
65	16.377		67282	0.1	3.0
66	16.548		80335	0.1	3.6
67	16.774		175642	0.2	7.8
68	16.883		472673	0.5	21.0
69	17.180		83902	0.1	3.7
70	17.332		181444	0.2	8.1
71	17.641		251793	0.3	11.2
72	18.088		144618	0.2	6.4
73	18.251		43098	0.0	1.9
74	18.315		57917	0.1	2.6
75	18.487		76994	0.1	3.4
76	18.625		398859	0.4	17.7
77	18.811		171050	0.2	7.6
	18.936		40059	0.0	1.8
	18.992		48306	0.1	2.1
80	19.079		82681	0.1	3.7
81	19.289		112027	0.1	5.0
82	19.510	n-Pentacosane	2301803	2.4	96.8
83	19.609		823919	0.9	36.6
84	19.762		93928	0.1	4.2
85	19.897		163895	0.2	7.3
86	20.177		339264	0.4	15.1
87	20.586		73932	0.1	3.3
88	20.666		50268	0.1	2.2
89	20.823		222543	0.2	9.9
90	21.017		75299	0.1	3.3
91	21.222		120979	0.1	5.4
92	21.345		61591	0.1	2.7
93	21.445		176953	0.2	7.9
94	21.567		73957	0.1	3.3
95	21.644		42037	0.0	1.9
96	21.721		69364	0.1	3.1
97	21.824		102084	0.1	4.5
98	21.899		90816	0.1	4.0
99	22.048		382182	0.4	17.0
100	22.239		142008	0.2	6.3
	22.406		147114	0.2	6.5
102	22.626		268623	0.3	11.9
103	22.985		33435	0.0	1.5
104	23.052		30874	0.0	1.4

Peak #	Time [min]	Component Name	Area [µV·s]	Soil [mg/kg]	Water [µg/L]
105	23.189		150293	0.2	6.7
106	23.430		56493	0.1	2.5
107	23.537		58478	0.1	2.6
108	23.732		129951	0.1	5.8
109	23.969		44172	0.0	2.0
110	24.076		28860	0.0	1.3
111	24.144		22584	0.0	1.0
112	24.280		122078	0.1	5.4
113	24.541		35338	0.0	1.6
114	24.640		30353	0.0	1.3
115	24.726		22650	0.0	1.0
116	24.865		108352	0.1	4.8
117	25.159		30972	0.0	1.4
118	25.259		19608	0.0	0.9
119	25.355		20686	0.0	0.9
120	25.512		86545	0.1	3.8
121	25.701		15418	0.0	0.7
122	25.857		28868	0.0	1.3
123	25.955		21480	0.0	1.0
124	26.067		16801	0.0	0.7
125	26.242		76814	0.1	3.4
126	26.479		23576	0.0	1.0
127	26.640		19907	0.0	0.9
128	26.744		20039	0.0	0.9
129	26.875		15487	0.0	0.7
130	27.069		77644	0.1	3.5
131	27.365		17045	0.0	0.8
132	27.542		16844	0.0	0.7
133	27.637		16120	0.0	0.7
134	27.795		11213	0.0	0.5
135	28.013		67289	0.1	3.0
136	28.363		15659	0.0	0.7
137	28.560		10734	0.0	0.5
138	28.683		18368	0.0	0.8
139	29.100		46172	0.1	2.1
140	29.507		17782	0.0	0.8
141	30.359		28930	0.0	1.3
142	31.822		13379	0.0	0.6
143	33.529		6855	7.6e-03	0.3

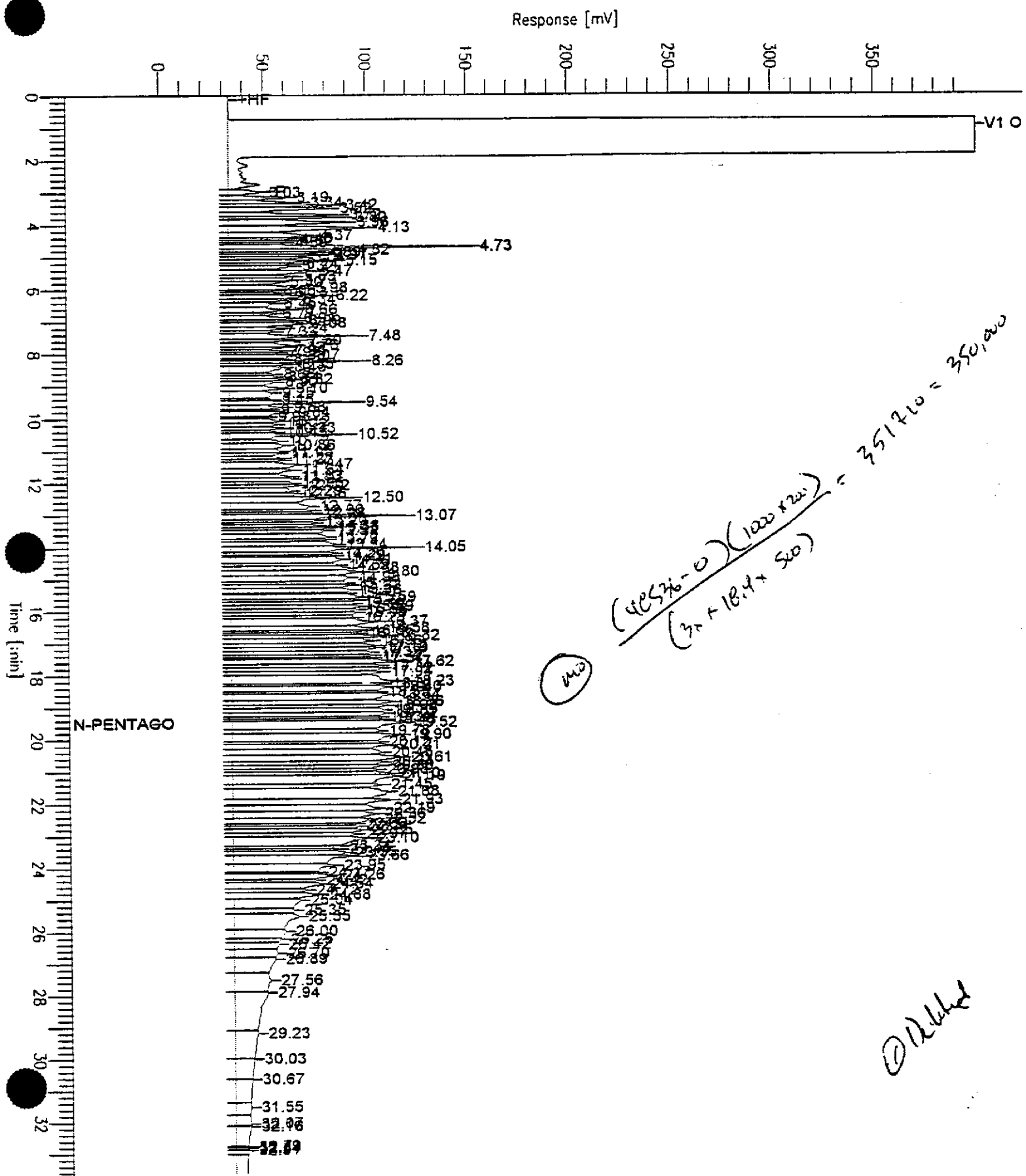
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CPT3-11W

Sample Name : D9602E84-1 (500:1*200) RESHOT
FileName : S:\GHP_05\0303\226A034.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: ~~001-11W~~
Date : 2/27/96 13:18
Time of Injection: 2/27/96 12:44
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
End Time : 33.65 min
Plot Offset: 0 mV
High Point : 400.00 mV



$$\frac{(46576 - 0)(1000 \times 22)}{(37 + 18.4 \times 510)} = 351710 = 350,000$$

umd

② 12/1/96

Software Version: 4.0<3H19>

Sample Name : D9602E84-1 (500:1*200) RESHOT Time : 2/27/96 13:18

Sample Number: CPT-11W

Study : EKI

Operator : JM

Instrument : GCHP_05

Channel : A

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/84

Interface Serial # : NONE Data Acquisition Time: 2/27/96 12:44

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0303\226A034.RAW

Result File : S:\GHP_05\0303\226A034.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0303\226A034.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05A

Calib Method : S:\GHP_05\MET_SEQ\TPH05A

Sequence File : S:\GHP_05\MET_SEQ\H050226.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 200.00

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9 to n-C13 Paint Th	10750621	673.3	2244.2	89767.1
8.250	n-C9 to n-C17 Jet Fuel	18173291	1000.2	3334.0	133358.7
11.015	n-C9 to n-C24 TPH-D	38957542	2060.7	6869.1	274765.2
16.950	n-C9 to n-C40 Total	67238437	4482.6	14941.9	597675.0
19.390	n-C16 to n-C36 M/Oil	48536212	3235.7	10785.8	431433.0
		2e+08	11452.5		

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Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.028		113633	25.3	1010.1

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	3.188		139251	30.9	1237.8
3	3.342		178648	39.7	1588.0
4	3.416		253871	56.4	2256.6
5	3.523		295672	65.7	2628.2
6	3.723		289720	64.4	2575.3
7	3.800		236720	52.6	2104.2
8	3.958		459543	102.1	4084.8
9	4.131		509735	113.3	4531.0
10	4.369		336155	74.7	2988.0
11	4.455		113751	25.3	1011.1
12	4.522		111030	24.7	986.9
13	4.585		100575	22.4	894.0
14	4.725		573727	127.5	5099.8
15	4.817		265994	59.1	2364.4
16	4.892		160016	35.6	1422.4
17	4.968		191838	42.6	1705.2
18	5.039		149810	33.3	1331.6
19	5.146		238254	52.9	2117.8
20	5.240		133941	29.8	1190.6
21	5.315		205140	45.6	1823.5
22	5.468		300434	66.8	2670.5
23	5.629		152660	33.9	1357.0
24	5.734		182481	40.6	1622.1
25	5.801		141939	31.5	1261.7
26	5.984		238401	53.0	2119.1
27	6.062		83450	18.5	741.8
28	6.129		102984	22.9	915.4
29	6.221		278208	61.8	2473.0
30	6.335		162317	36.1	1442.8
31	6.454		171592	38.1	1525.3
32	6.655		234140	52.0	2081.2
33	6.765		113258	25.2	1006.7
34	6.909		179547	39.9	1596.0
35	6.991		143569	31.9	1276.2
36	7.078		243351	54.1	2163.1
37	7.237		161774	35.9	1438.0
38	7.334		95492	21.2	848.8
39	7.477		362753	80.6	3224.5
40	7.599		170089	37.8	1511.9
41	7.759		203668	45.3	1810.4
42	7.822		107825	24.0	958.4
43	7.932		113229	25.2	1006.5
44	7.986		91150	20.3	810.2
45	8.069		223096	49.6	1983.1
46	8.188		82114	18.2	729.9
47	8.258		234262	52.1	2082.3
48	8.348		137769	30.6	1224.6
49	8.445		280796	62.4	2496.0
50	8.658		79990	17.8	711.0
51	8.735		122473	27.2	1088.7
52	8.816		131098	29.1	1165.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
53	8.904		152889	34.0	1359.0
54	9.096		214796	47.7	1909.3
55	9.246		258482	57.4	2297.6
56	9.450		77439	17.2	688.3
57	9.536		262752	58.4	2335.6
58	9.681		169376	37.6	1505.6
59	9.767		62850	14.0	558.7
60	9.839		226910	50.4	2017.0
61	9.982		57422	12.8	510.4
62	10.116		183335	40.7	1629.6
63	10.220		148552	33.0	1320.5
64	10.329		140894	31.3	1252.4
65	10.446		99833	22.2	887.4
66	10.522		323195	71.8	2872.8
67	10.729		157877	35.1	1403.4
68	10.859		264928	58.9	2354.9
69	11.050		168486	37.4	1497.7
70	11.111		140467	31.2	1248.6
71	11.269		145357	32.3	1292.1
72	11.326		113663	25.3	1010.3
73	11.467		338050	75.1	3004.9
74	11.638		253801	56.4	2256.0
75	11.834		206352	45.9	1834.2
76	11.907		208101	46.2	1849.8
77	12.051		164599	36.6	1463.1
78	12.117		190354	42.3	1692.0
79	12.288		225229	50.1	2002.0
80	12.363		220664	49.0	1961.5
81	12.501		477295	106.1	4242.6
82	12.769		455838	101.3	4051.9
83	12.899		183393	40.8	1630.2
84	12.982		159356	35.4	1416.5
85	13.070		555105	123.4	4934.3
86	13.199		161413	35.9	1434.8
87	13.269		159948	35.5	1421.8
88	13.377		245247	54.5	2180.0
89	13.429		216108	48.0	1921.0
90	13.512		319129	70.9	2836.7
91	13.718		433446	96.3	3852.9
92	13.792		219958	48.9	1955.2
93	13.942		429128	95.4	3814.5
94	14.053		620092	137.8	5511.9
95	14.203		274415	61.0	2439.2
96	14.290		160038	35.6	1422.6
97	14.406		617555	137.2	5489.4
98	14.592		284645	63.3	2530.2
99	14.676		443774	98.6	3944.7
100	14.803		609085	135.4	5414.1
101	14.982		579745	128.8	5153.3
102	15.148		310568	69.0	2760.6
103	15.215		399932	88.9	3555.0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
104	15.361		497117	110.5	4418.8
105	15.471		135911	30.2	1208.1
106	15.593		581125	129.1	5165.6
107	15.694		281181	62.5	2499.4
108	15.798		375877	83.5	3341.1
109	15.887		393178	87.4	3494.9
110	15.982		387359	86.1	3443.2
111	16.076		381528	84.8	3391.4
112	16.225		332638	73.9	2956.8
113	16.365		919562	204.3	8173.9
114	16.575		572920	127.3	5092.6
115	16.650		251687	55.9	2237.2
116	16.731		247536	55.0	2200.3
117	16.817		443032	98.5	3938.1
118	16.963		625526	139.0	5560.2
119	17.124		485714	107.9	4317.5
120	17.186		489620	108.8	4352.2
121	17.319		481981	107.1	4284.3
122	17.423		326091	72.5	2898.6
123	17.511		219010	48.7	1946.8
124	17.617		713959	158.7	6346.3
125	17.741		396894	88.2	3527.9
126	17.816		514915	114.4	4577.0
127	17.937		506682	112.6	4503.8
128	18.227		1183843	263.1	10523.1
129	18.305		290446	64.5	2581.7
130	18.404		765566	170.1	6805.0
131	18.550		285819	63.5	2540.6
132	18.636		871492	193.7	7746.6
133	18.855		656797	146.0	5838.2
134	18.981		467733	103.9	4157.6
135	19.126		585336	130.1	5203.0
136	19.223		587323	130.5	5220.7
137	19.344		286287	63.6	2544.8
138	19.425		293454	65.2	2608.5
139	19.521	n-Pentacosane	1159823	211.0	8440.4
140	19.782		568080	126.2	5049.6
141	19.901		1138579	253.0	10120.7
142	20.119		343087	76.2	3049.7
143	20.213		691633	153.7	6147.8
144	20.450		738954	164.2	6568.5
145	20.609		918517	204.1	8164.6
146	20.735		516015	114.7	4586.8
147	20.857		505834	112.4	4496.3
148	20.979		390893	86.9	3474.6
149	21.104		477106	106.0	4240.9
150	21.192		1167102	259.4	10374.2
151	21.453		552778	122.8	4913.6
152	21.676		1433957	318.7	12746.3
153	21.925		783350	174.1	6963.1
154	22.189		814328	181.0	7238.5

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
155	22.355		786691	174.8	6992.8
156	22.516		670879	149.1	5963.4
157	22.661		238427	53.0	2119.3
158	22.740		337071	74.9	2996.2
159	22.848		482413	107.2	4288.1
160	22.971		418435	93.0	3719.4
161	23.103		972310	216.1	8642.8
162	23.344		287119	63.8	2552.2
163	23.443		202924	45.1	1803.8
164	23.546		422767	93.9	3757.9
165	23.663		827076	183.8	7351.8
166	23.951		632138	140.5	5619.0
167	24.171		131877	29.3	1172.2
168	24.261		493506	109.7	4386.7
169	24.421		222564	49.5	1978.3
170	24.537		466241	103.6	4144.4
171	24.722		246891	54.9	2194.6
172	24.878		436058	96.9	3876.1
173	25.037		534739	118.8	4753.2
174	25.351		277445	61.7	2466.2
175	25.547		801738	178.2	7126.6
176	26.002		403733	89.7	3588.7
177	26.251		176768	39.3	1571.3
178	26.419		270122	60.0	2401.1
179	26.700		327801	72.8	2913.8
180	26.889		524571	116.6	4662.9
181	27.557		580096	128.9	5156.4
182	27.943		952162	211.6	8463.7
183	29.225		533424	118.5	4741.5
184	30.029		330796	73.5	2940.4
185	30.667		339681	75.5	3019.4
186	31.550		166469	37.0	1479.7
187	32.067		146383	32.5	1301.2
188	32.155		245942	54.7	2186.2
189	32.787		18782	4.2	166.9
190	32.841		23275	5.2	206.9
191	32.905		50561	11.2	449.4

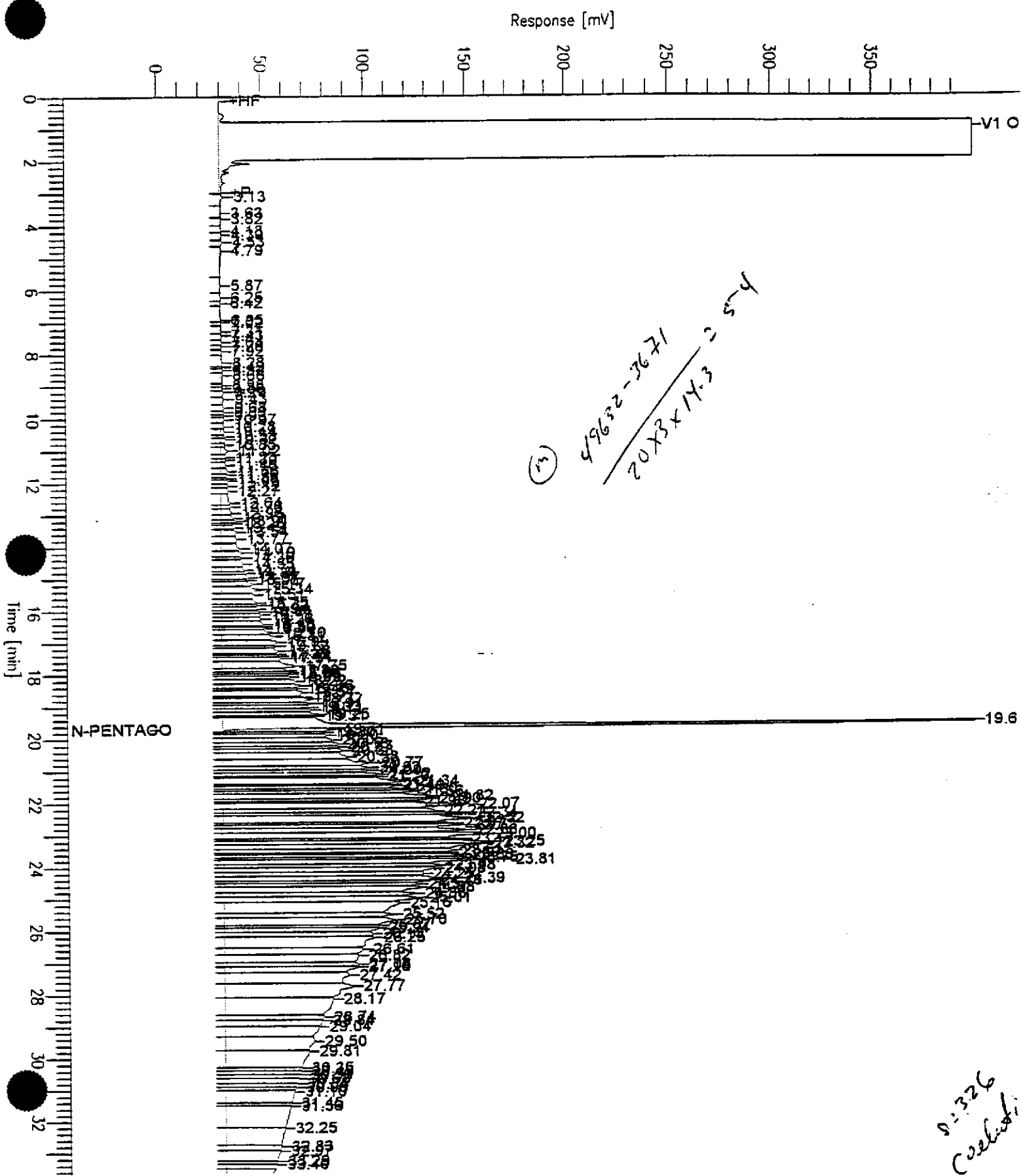
67889849

Report stored in ASCII file: S:\GHP_05\0303\226A034.TX1

Sample Name : D9602E94-5 (20:1) RESHOT
FileName : S:\GHP_05\0303\226B039.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: CPT3-105
Date : 2/27/96 16:46
Time of Injection: 2/27/96 16:11
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



Software Version: 4.0<3H19>

Sample Name : D9602E84-5 (20:1) RESHOT

Time : 2/27/96 16:46

Sample Number: CPT3-105

Study : EKI

Operator : JM

Instrument : GHP_05

Channel : B

A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/39

Interface Serial # : NONE Data Acquisition Time: 2/27/96 16:11

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0303\226B039.RAW

Result File : S:\GHP_05\0303\226B039.RST

Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0303\226B039.RST

Proc Method : S:\GHP_05\MET_SEQ\TPH05B

Calib Method : S:\GHP_05\MET_SEQ\TPH05B

Sequence File : S:\GHP_05\MET_SEQ\H050226.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 2.00

EXTRACTABLE TPH GHP_05B

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
6.100	n-C9-n-C13 Paint Thinn	177927	17.3	0.6	23.1
8.250	n-C9 to n-C17 Jet	859150	53.8	1.8	71.8
11.165	n-C9 to n-C24 TPH-D	8663266	517.7	17.3	690.2
17.340	n-C9 to n-C40 Total	63779224	4251.9	141.7	5669.3
19.785	n-C16 to n-C36 M/Oil	4963108	3308.8	110.3	4411.7
		1e+08	8149.5		

Report stored in ASCII file: S:\GHP_05\0303\226B039.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	3.132		17734	0.0	1.6

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	3.633		12316	0.0	1.1
	3.818		7784	0.0	0.7
	4.178		6290	0.0	0.6
5	4.300		9302	0.0	0.8
6	4.527		8476	0.0	0.8
7	4.793		16677	0.0	1.5
8	5.874		4109	9.1e-03	0.4
9	6.245		3254	7.2e-03	0.3
10	6.422		1842	4.1e-03	0.2
11	6.947		7106	0.0	0.6
12	7.017		3008	6.7e-03	0.3
13	7.305		6752	0.0	0.6
14	7.433		5888	0.0	0.5
15	7.635		4701	0.0	0.4
16	7.764		4020	8.9e-03	0.4
17	7.921		5210	0.0	0.5
18	8.283		14754	0.0	1.3
19	8.416		3353	7.5e-03	0.3
20	8.518		7099	0.0	0.6
21	8.676		17471	0.0	1.6
22	8.984		4893	0.0	0.4
23	9.084		5885	0.0	0.5
24	9.204		13136	0.0	1.2
25	9.429		15007	0.0	1.3
	9.683		14460	0.0	1.3
27	9.828		9885	0.0	0.9
28	9.934		6746	0.0	0.6
29	10.065		14542	0.0	1.3
30	10.282		14614	0.0	1.3
31	10.441		16519	0.0	1.5
32	10.577		9758	0.0	0.9
33	10.669		18852	0.0	1.7
34	10.845		12734	0.0	1.1
35	11.018		32955	0.1	2.9
36	11.226		15465	0.0	1.4
37	11.297		13052	0.0	1.2
38	11.455		22117	0.0	2.0
39	11.663		31561	0.1	2.8
40	11.758		19408	0.0	1.7
41	11.876		10810	0.0	1.0
42	11.945		23522	0.1	2.1
43	12.116		22711	0.1	2.0
44	12.273		31934	0.1	2.8
45	12.643		76013	0.2	6.8
46	12.762		30936	0.1	2.7
47	12.955		50182	0.1	4.5
48	13.116		50222	0.1	4.5
	13.210		36410	0.1	3.2
50	13.280		21493	0.0	1.9
51	13.415		46178	0.1	4.1
52	13.544		86204	0.2	7.7

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
53	13.774		95952	0.2	8.5
54	14.070		107128	0.2	9.5
55	14.190		100739	0.2	9.0
56	14.357		52901	0.1	4.7
57	14.547		133053	0.3	11.8
58	14.739		92488	0.2	8.2
59	14.843		64001	0.1	5.7
60	14.968		107689	0.2	9.6
61	15.050		39255	0.1	3.5
62	15.173		133328	0.3	11.9
63	15.339		208948	0.5	18.6
64	15.508		156143	0.3	13.9
65	15.752		152367	0.3	13.5
66	15.826		80725	0.2	7.2
67	15.937		106953	0.2	9.5
68	16.039		101266	0.2	9.0
69	16.130		132792	0.3	11.8
70	16.255		134086	0.3	11.9
71	16.428		186075	0.4	16.5
72	16.496		47645	0.1	4.2
73	16.557		96066	0.2	8.5
74	16.701		213430	0.5	19.0
75	16.814		228774	0.5	20.3
76	16.993		265900	0.6	23.6
77	17.116		122462	0.3	10.9
78	17.276		271326	0.6	24.1
79	17.377		84294	0.2	7.5
80	17.436		109523	0.2	9.7
81	17.507		222714	0.5	19.8
82	17.745		396907	0.9	35.3
83	17.883		195742	0.4	17.4
84	17.943		129152	0.3	11.5
85	17.997		127078	0.3	11.3
86	18.086		206759	0.5	18.4
87	18.223		304825	0.7	27.1
88	18.364		292696	0.7	26.0
89	18.456		144945	0.3	12.9
90	18.571		392764	0.9	34.9
91	18.712		123237	0.3	11.0
92	18.772		357399	0.8	31.8
93	18.909		198434	0.4	17.6
94	19.027		265333	0.6	23.6
95	19.106		272272	0.6	24.2
96	19.252		318782	0.7	28.3
97	19.307		143565	0.3	12.8
98	19.609		3671129	8.2	326.3
99	19.711	n-Pentacosane	323300	0.6	25.4
100	19.802		196325	0.4	17.5
101	19.895		359388	0.8	31.9
102	20.046		459125	1.0	40.8
103	20.177		396661	0.9	35.3

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
2	3.559		16339	0.0	0.7
3	3.856		33754	0.0	1.5
4	4.425		18281	0.0	0.8
5	5.012		55214	0.1	2.5
6	6.205		3275	3.6e-03	0.1
7	6.808		4865	5.4e-03	0.2
8	9.055		21838	0.0	1.0
9	9.294		9532	0.0	0.4
10	9.814		3013	3.3e-03	0.1
11	10.429		6273	7.0e-03	0.3
12	10.873		7897	8.8e-03	0.4
13	11.113		3293	3.7e-03	0.1
14	11.442		2744	3.0e-03	0.1
15	11.615		2826	3.1e-03	0.1
16	11.810		4431	4.9e-03	0.2
17	12.031		2292	2.5e-03	0.1
18	12.222		2439	2.7e-03	0.1
19	12.562		3225	3.6e-03	0.1
20	12.899		3784	4.2e-03	0.2
21	12.985		5196	5.8e-03	0.2
22	13.192		2531	2.8e-03	0.1
23	13.379		10939	0.0	0.5
24	13.959		3903	4.3e-03	0.2
25	14.070		3528	3.9e-03	0.2
26	14.256		3834	4.3e-03	0.2
27	14.601		8644	9.6e-03	0.4
28	14.846		4971	5.5e-03	0.2
29	15.055		27023	0.0	1.2
30	15.799		14924	0.0	0.7
31	16.533		1975	2.2e-03	0.1
32	16.641		5445	6.1e-03	0.2
33	17.315		11950	0.0	0.5
34	18.067		3164	3.5e-03	0.1
35	18.124		6307	7.0e-03	0.3
36	18.635		3943	4.4e-03	0.2
37	18.784		9562	0.0	0.4
38	19.247		374	4.2e-04	0.0
39	19.478	n-Pentacosane	2668917	2.4	97.1
40	20.155		4085	4.5e-03	0.2
41	20.812		2463	2.7e-03	0.1
42	21.016		550	6.1e-04	0.0
43	21.161		788	8.8e-04	0.0

3022380

Report stored in ASCII file: s:\GHP_05\0303\226A007.TX1

Software Version: 4.0<3H19>
 Sample Name : GC0224960HBPEXZ (500:1) 3520 Time : 2/26/96 17:14
 Sample Number: BLK022496X Study : SAL (METH BLK)
 Operator : JM

Instrument : GCHP_05 Channel : A A/D mV Range : 1000
 AutoSampler : HP7673A
 Rack/Vial : 0/57

Interface Serial # : NONE Data Acquisition Time: 2/26/96 16:40
 Delay Time : 0.00 min.
 End Time : 33.65 min.
 Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\0303\226A007.RAW
 Result File : S:\GHP_05\0303\226A007.RST
 Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\0303\226A007.RST
 Proc Method : S:\GHP_05\MET_SEQ\TPH05A
 Calib Method : S:\GHP_05\MET_SEQ\TPH05A
 Sequence File : S:\GHP_05\MET_SEQ\H050226.SEQ

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

EXTRACTABLE TPH GCHP_05A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g/L}$]
6.100	n-C9 to n-C13 Paint Th	165613	10.3	0.2	6.9
8.250	n-C9 to n-C17 Jet Fuel	236030	13.0	0.2	8.7
11.015	n-C9 to n-C24 TPH-D	345203	18.3	0.3	12.2
16.950	n-C9 to n-C40 Total	3022380	201.5	3.4	134.3
19.390	n-C16 to n-C36 M/Oil	2814464	187.6	3.1	125.1
		6583690	430.7		

Report stored in ASCII file: S:\GHP_05\0303\226A007.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
1	3.326		12046	0.0	0.5

Software Version: 4.0<3H19>

Sample Name : GC0223960HBPEXA (20:1) 3550

Time : 2/27/96 02:13

Sample Number: BLK022396

Study : SAL (MTH BLK)

Operator : NH

Instrument : GCHP_04

Channel : A A/D mV Range : 1000

AutoSampler : HP7673A

Rack/Vial : 0/64

Interface Serial # : NONE Data Acquisition Time: 2/27/96 01:37

Delay Time : 0.00 min.

End Time : 33.65 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_04\0303\226A014.RAW

Result File : S:\GHP_04\0303\226A014.RST

Inst Method : S:\GHP_04\MET_SEQ\TPH04A from S:\GHP_04\0303\226A014.RST

Proc Method : S:\GHP_04\MET_SEQ\TPH04A

Calib Method : S:\GHP_04\MET_SEQ\TPH04A

Sequence File : S:\GHP_04\MET_SEQ\H040226.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

EXTRACTABLE TPH GCHP_04A

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt (ng)	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
8.100	n-C9 to n-C17 Jet	1933	0.1	1.8e-03	0.1
11.000	n-C9 to n-C24 TPH-D	66803	3.9	0.1	2.6
16.950	n-C9 to n-C40 Total	2607894	173.9	2.9	115.9
19.350	n-C16 to n-C36 M/Oil	2299358	153.3	2.6	102.2
		4975988	331.1		

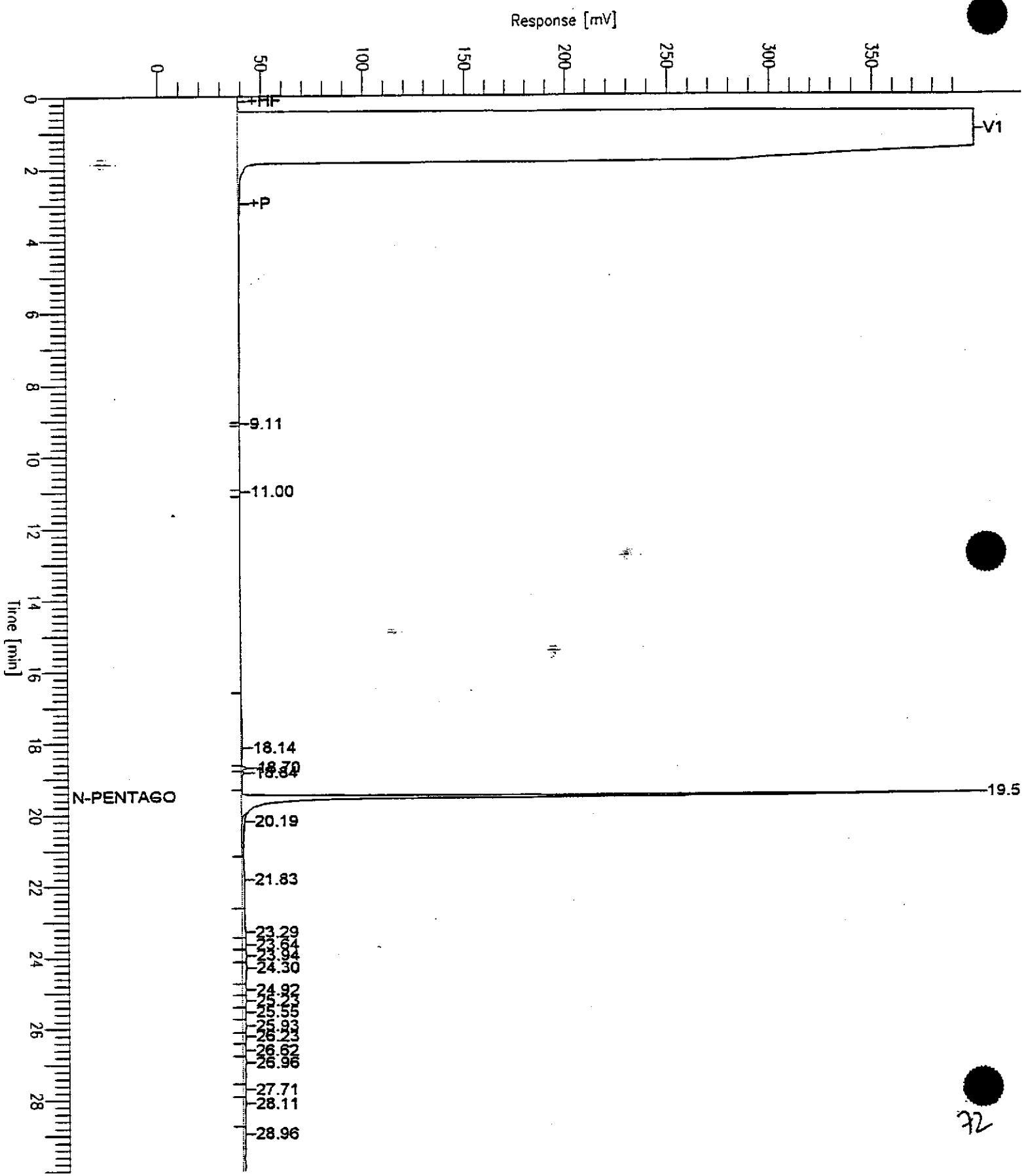
Report stored in ASCII file: S:\GHP_04\0303\226A014.TX0

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
1	9.107		396	4.4e-04	0.0
2	10.997		1537	1.7e-03	0.1

Chromatogram

Sample Name : GC0223960HBPEXA (20:1) 3550
FileName : S:\GHP_04\0303\226A014.raw
Method : TPH04A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: BLK022396
Date : 2/27/96 02:13
Time of Injection: 2/27/96 01:37
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



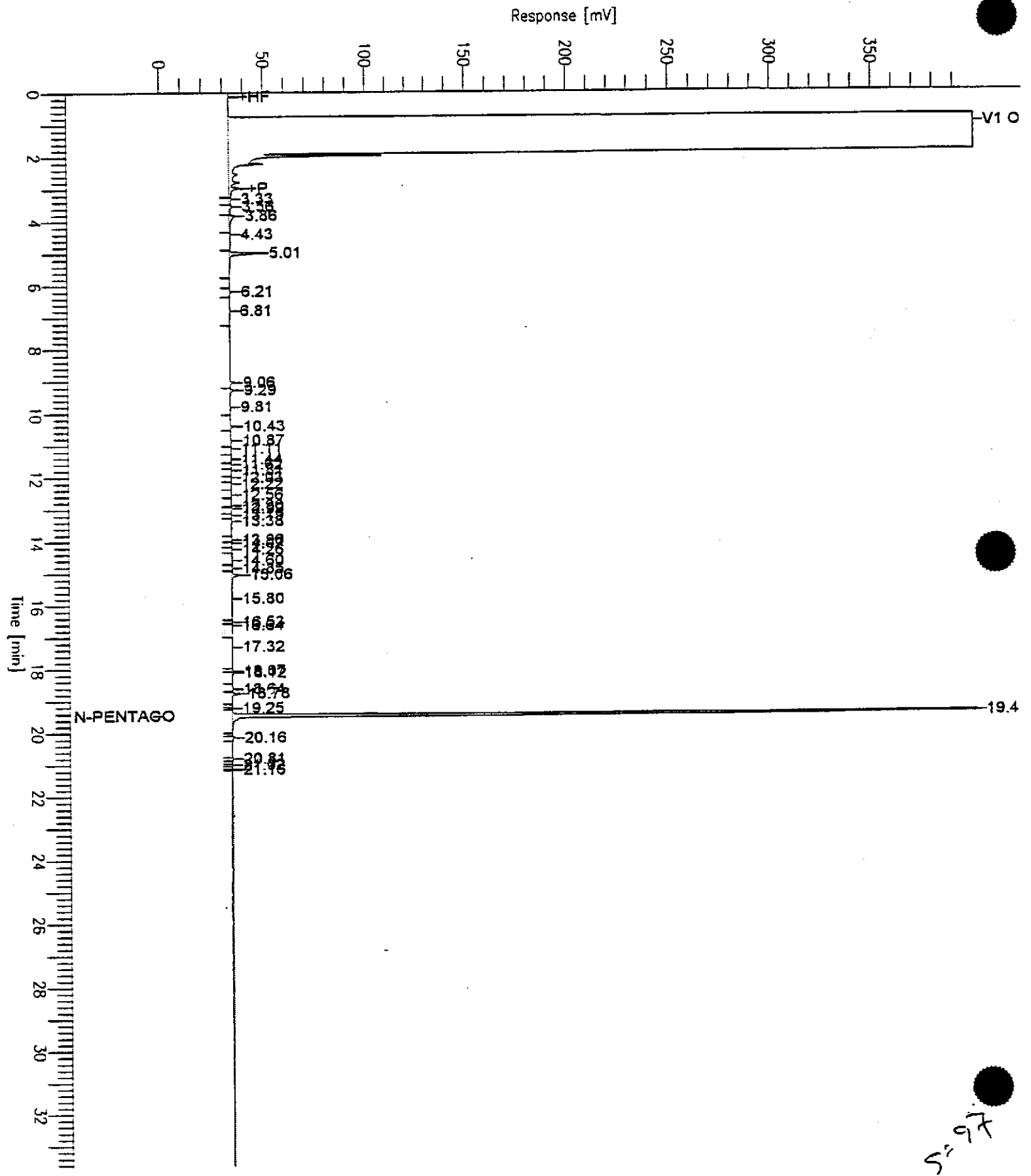
72

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g/L}$]
3	18.140		38135	0.0	1.7
4	18.695		12505	0.0	0.6
	18.839		14230	0.0	0.6
6	19.518	n-Pentacosane	1701118	1.8	71.5
7	20.191		75361	0.1	3.3
8	21.825		98455	0.1	4.4
9	23.292		66182	0.1	2.9
10	23.640		34768	0.0	1.5
11	23.943		39202	0.0	1.7
12	24.297		64775	0.1	2.9
13	24.920		30955	0.0	1.4
14	25.226		33655	0.0	1.5
15	25.552		28688	0.0	1.3
16	25.929		34729	0.0	1.5
17	26.225		26599	0.0	1.2
18	26.621		28428	0.0	1.3
19	26.957		62774	0.1	2.8
20	27.710		28974	0.0	1.3
21	28.109		58111	0.1	2.6
22	28.956		109687	0.1	4.9
23	30.801		18628	0.0	0.8
			2607894		

Report stored in ASCII file: S:\GHP_04\0303\226A014.TX1

Sample Name : GC0224960HBPEXZ (500:1) 3520
FileName : S:\GHP_05\0303\226A007.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: BLK022496X
Date : 2/26/96 17:14
Time of Injection: 2/26/96 16:40
Low Point : 0.00 mV
Plot Scale: 400.0 mV
End Time : 33.65 min
Plot Offset: 0 mV
High Point : 400.00 mV



5-97

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
10	13.551	30763	2.22	B
11	14.014	21595	1.56	B
15	15.092	38522	2.78	B
16	17.000	242657	17.51	B
19	19.108	28326	2.04	B
20	20.269	29093	2.10	B
23	22.933	183185	13.21	B

1386192 100.00

Software Version: 4.0<3H19>

Sample Name : 9602E84-06A

Time : 2/26/96 16:05

Sample Number: CPT3-37W

Study : EKI

Operator :

Instrument : GCHP_01

Channel : A

A/D mV Range : 1024

AutoSampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 15:35

Delay Time : 0.00 min.

End Time : 29.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226A012.RAW

Result File : S:\GHP_01\0303\226A012.RST

Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226A012.RST

Proc Method : S:\GHP_01\MET_SEQ\TPH

Calib Method : S:\GHP_01\MET_SEQ\TPH

Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000

Area Reject : 20000.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

TPH REPORT GCHP_01

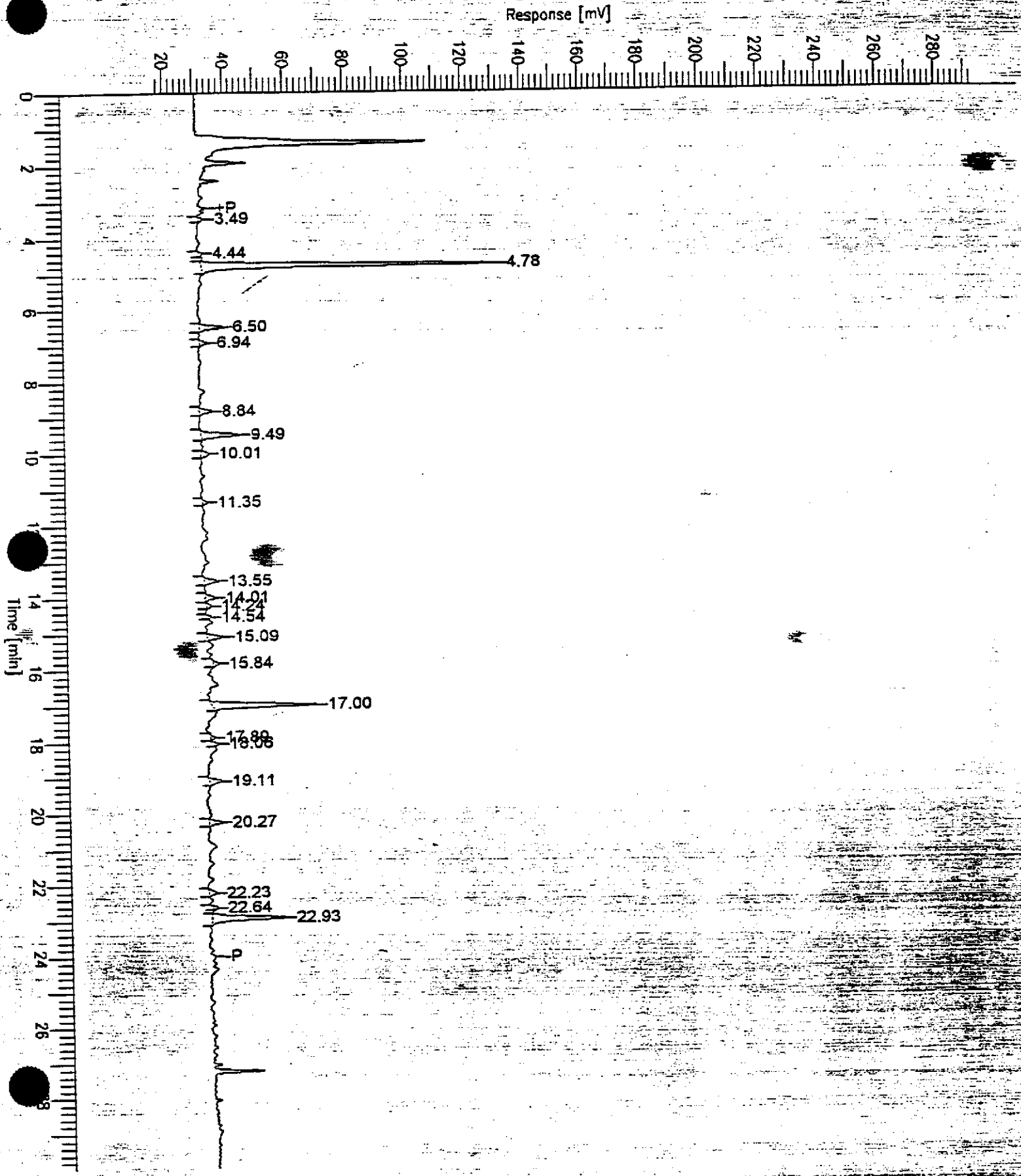
Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/Kg)	LIQUID (ug/L)	RAW (ng)
	14.465	866097	TPH-2	0.2789	13.9468	139.4682
		866097		0.2789	13.9468	139.4682

EXPANDED REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Area [%]	BL
3	4.779	640890	46.23	B
4	6.500	51004	3.68	B
6	8.839	25183	1.82	B
7	9.492	94973	6.85	B

Sample Name : 9602E84-06A
FileName : S:\GHP_01\0303\226A012.raw
Method : TPH
Start Time : 0.00 min
Scale Factor : -1.0

Sample #: CPT3-37W
Date : 2/26/96 16:06
Time of Injection: 2/26/96 15:35
Low Point : 17.03 mV
Plot Scale: 275.0 mV
Page 1 of 1
End Time : 29.99 min
High Point : 292.03 mV
Plot Offset: 17 mV



Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
19	13.020	1352		2.7045e-06	0.0001	0.0014
20	13.556	3992		7.9849e-06	0.0004	0.0040
21	14.012	4756		9.5121e-06	0.0005	0.0048
22	14.537	1739		3.4772e-06	0.0002	0.0017
23	14.682	1617		3.2341e-06	0.0002	0.0016
24	15.094	9907		0.0000	0.0010	0.0099
25	15.312	4322		8.6446e-06	0.0004	0.0043
26	15.589	1164		2.3275e-06	0.0001	0.0012
27	15.848	2229		4.4588e-06	0.0002	0.0022
28	16.227	2307		4.6137e-06	0.0002	0.0023
29	16.423	6372		0.0000	0.0006	0.0064
30	16.998	188329		0.0004	0.0188	0.1883
31	17.887	3201		6.4029e-06	0.0003	0.0032
32	18.055	1122		2.2448e-06	0.0001	0.0011
33	19.108	8354		0.0000	0.0008	0.0084
34	20.268	7537		0.0000	0.0008	0.0075
35	20.943	3588		7.1754e-06	0.0004	0.0036
36	21.404	2551		5.1010e-06	0.0003	0.0026
37	21.851	2182		4.3649e-06	0.0002	0.0022
		503692		0.2046	10.2291	102.2909

Missing Component Report

Component	Expected Retention (Calibration File)
MTBE	2.123
Ethylbenzene	10.916

Report stored in ASCII file: S:\GHP_01\0303\226B012.TX0

Software Version: -4.0<3H19>

Sample Name : 9602E84-06A

Sample Number: CPT3-37W

Operator :

Time : 2/26/96 16:06

Study : EKI

Instrument : GCHP_01

Channel : B

A/D mV Range : 1024

Sampler : NONE

Rack/Vial : -28927/1

Interface Serial # : NONE Data Acquisition Time: 2/26/96 15:35

Delay Time : 0.00 min.

End Time : 29.99 min.

Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_01\0303\226B012.RAW

Result File : S:\GHP_01\0303\226B012.RST

Inst Method : S:\GHP_01\MET_SEQ\TPH from S:\GHP_01\0303\226B012.RST

Proc Method : S:\GHP_01\MET_SEQ\btex

Calib Method : S:\GHP_01\MET_SEQ\btex

Sequence File : S:\GHP_01\MET_SEQ\H010226.SEQ

Sample Volume : 1.0000

Area Reject : 300.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

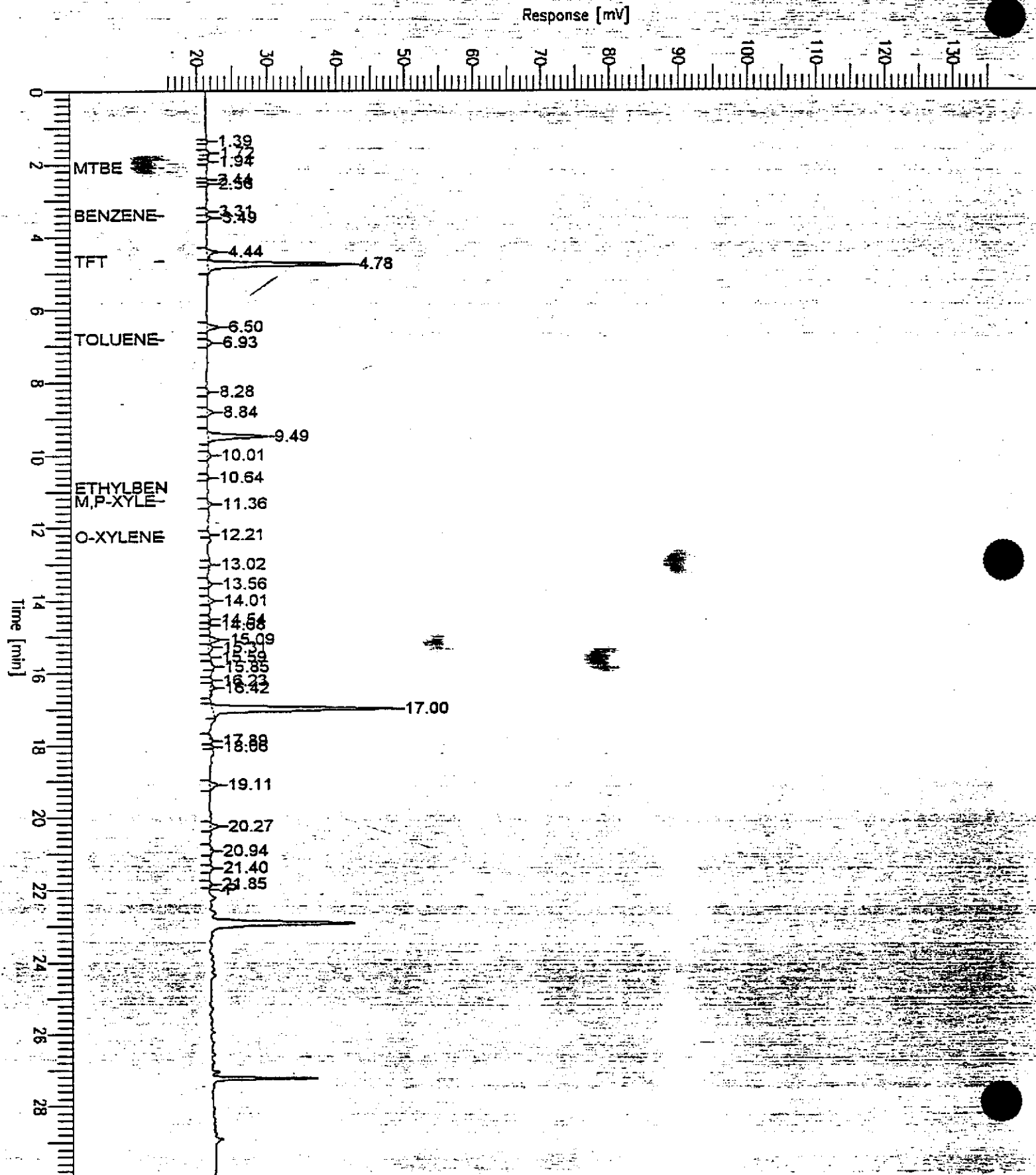
BTEX REPORT GCHP_01

Peak #	Time [min]	Area [uV*sec]	Component Name	SOIL (mg/kg)	LIQUID (µg/L)	Raw Amt. (ng)
1	1.389	632		1.2638e-06	0.0001	0.0006
2	1.717	1645		3.2891e-06	0.0002	0.0016
3	1.944	665		1.3304e-06	0.0001	0.0007
4	2.444	551		1.1020e-06	0.0001	0.0006
5	2.563	935		1.8693e-06	0.0001	0.0009
6	3.308	1786		3.5715e-06	0.0002	0.0018
7	3.488	3926	Benzene	0.0021	0.1055	1.0548
8	4.437	11091		0.0000	0.0011	0.0111
9	4.778	133460	TFT	0.1963	9.8156	98.1563
10	6.500	10701		0.0000	0.0011	0.0107
11	6.933	4691	Toluene	0.0028	0.1383	1.3832
12	8.279	2286		4.5718e-06	0.0002	0.0023
13	8.837	5245		0.0000	0.0005	0.0052
14	9.490	60029		0.0001	0.0060	0.0600
15	10.012	3630		7.2608e-06	0.0004	0.0036
16	10.635	1148		2.2951e-06	0.0001	0.0011
17	11.356	4024	m,p-xylenes	0.0023	0.1125	1.1251
18	12.209	626	o-xylene	0.0004	0.0214	0.2145

Sample Name : 9602E84-06A
FileName : S:\GHP 01\0303\226B012.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 29.99 min
Plot Offset: 15 mV

Sample #: CPT3-37W
Date : 2/26/96 16:06
Time of Injection: 2/26/96 15:35
Low Point : 15.31 mV
High Point : 135.31 mV
Plot Scale: 120.0 mV

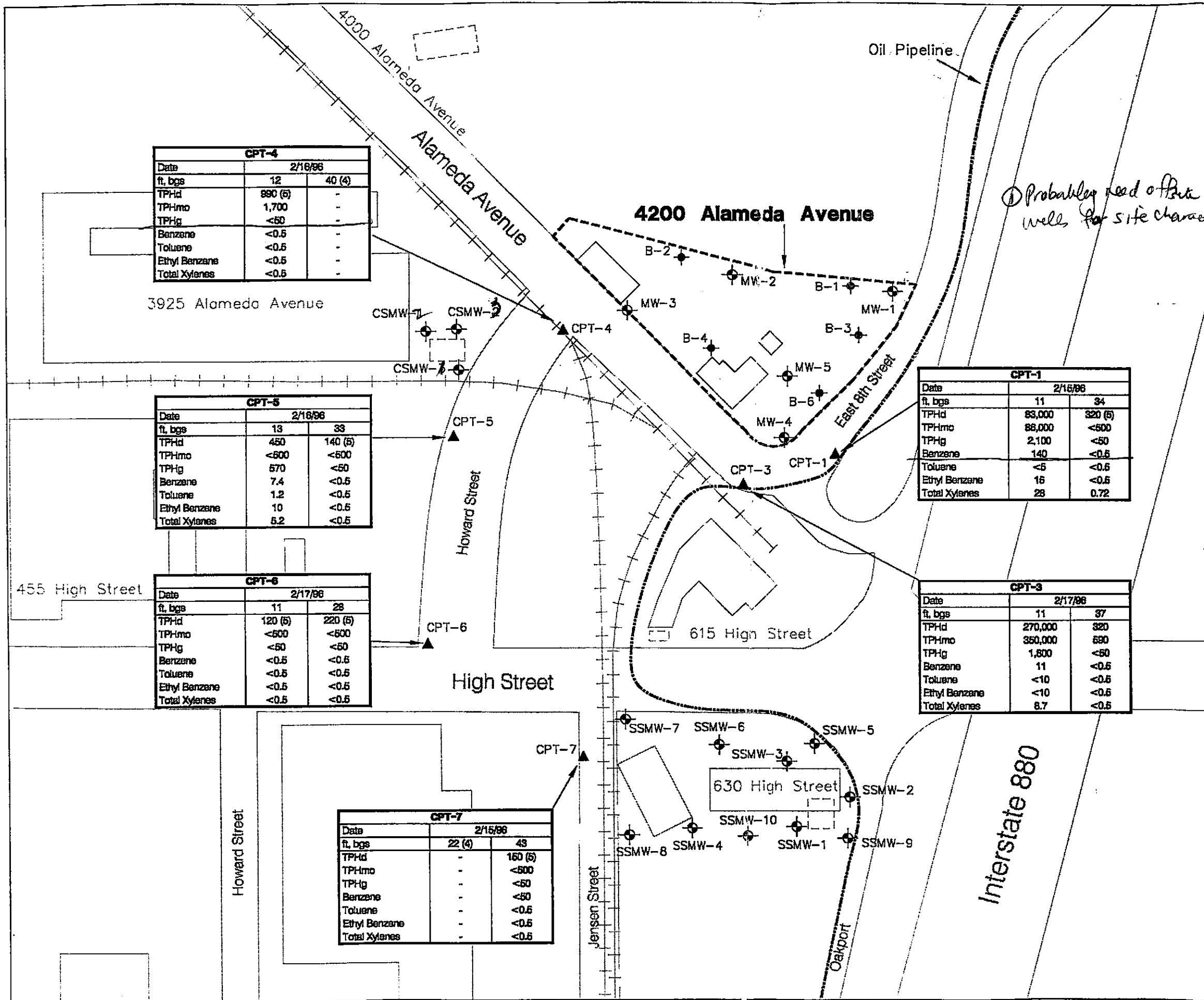


Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
104	20.268		269672	0.6	24.0
105	20.381		410950	0.9	36.5
106	20.581		705246	1.6	62.7
107	20.765		841156	1.9	74.8
108	20.915		493538	1.1	43.9
109	21.004		388836	0.9	34.6
110	21.119		467908	1.0	41.6
111	21.198		239590	0.5	21.3
112	21.341		914119	2.0	81.3
113	21.438		262453	0.6	23.3
114	21.491		458837	1.0	40.8
115	21.600		347937	0.8	30.9
116	21.656		500239	1.1	44.5
117	21.815		929182	2.1	82.6
118	21.897		469170	1.0	41.7
119	21.983		298236	0.7	26.5
120	22.071		1184450	2.6	105.3
121	22.271		650979	1.4	57.9
122	22.341		622622	1.4	55.3
123	22.516		1511852	3.4	134.4
124	22.669		439195	1.0	39.0
125	22.718		705386	1.6	62.7
126	22.880		979362	2.2	87.1
127	22.998		1321209	2.9	117.4
128	23.173		454856	1.0	40.4
129	23.248		807390	1.8	71.8
130	23.316		1029847	2.3	91.5
131	23.514		797528	1.8	70.9
132	23.586		349672	0.8	31.1
133	23.660		633159	1.4	56.3
134	23.750		468557	1.0	41.6
135	23.809		1006359	2.2	89.5
136	23.984		668918	1.5	59.5
137	24.075		803598	1.8	71.4
138	24.251		776169	1.7	69.0
139	24.393		914501	2.0	81.3
140	24.461		466564	1.0	41.5
141	24.567		596332	1.3	53.0
142	24.681		1023389	2.3	91.0
143	24.881		717952	1.6	63.8
144	25.014		860165	1.9	76.5
145	25.161		1694937	3.8	150.7
146	25.520		695451	1.5	61.8
147	25.695		1139386	2.5	101.3
148	25.868		361758	0.8	32.2
149	25.942		526924	1.2	46.8
150	26.128		631901	1.4	56.2
151	26.247		1495887	3.3	133.0
152	26.611		848710	1.9	75.4
153	26.816		928295	2.1	82.5
154	27.084		516394	1.1	45.9

Peak #	Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Soil [mg/kg]	Water [$\mu\text{g}/\text{L}$]
155	27.158		691944	1.5	61.5
156	27.422		1216558	2.7	108.1
157	27.773		1507795	3.4	134.0
158	28.173		1671100	3.7	148.5
159	28.742		459040	1.0	40.8
160	28.843		560889	1.2	49.9
161	29.039		886955	2.0	78.8
162	29.499		1076372	2.4	95.7
163	29.814		1272763	2.8	113.1
164	30.350		235800	0.5	21.0
165	30.454		234447	0.5	20.8
166	30.555		258184	0.6	22.9
167	30.680		334682	0.7	29.7
168	30.843		246580	0.5	21.9
169	30.962		216659	0.5	19.3
170	31.098		759139	1.7	67.5
171	31.449		177567	0.4	15.8
172	31.560		1276835	2.8	113.5
173	32.252		905562	2.0	80.5
174	32.831		276829	0.6	24.6
175	32.973		489662	1.1	43.5
176	33.293		158040	0.4	14.0
177	33.398		213798	0.5	19.0

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(Approximate Scale in Feet)

LEGEND

- Site Boundary
- ⊕ Monitoring Well
- ⊙ Soil Boring
- ▲ CPT/PIPP Sampling Location
- Approximate Location of Former Underground Storage Tanks

Notes:

1. All locations are approximate.
2. Basemap from 1993 Pacific Aerial Survey photograph.
3. Concentrations in ug/L (ppb).
4. Insufficient groundwater to allow sample collection.
5. Analytical laboratory indicates that concentration may reflect naturally-occurring organic matter present in groundwater.

Erler & Kalinowski, Inc.

Petroleum Hydrocarbons and BTEX in Groundwater

4200 Alameda Avenue
Oakland, CA
May 1996
EKI 930040.02
Figure 6