## Soil and Groundwater Investigation Report

Unocal Service Station 5430 1935 Washington Avenue at Castro Street San Leandro, California

Prepared for

**Unocal Corporation** 

June 21,1995

### Prepared by

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440 San Jose, California 95110

Project 310-038.1C



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## PROFESSIONAL CERTIFICATION Soil and Groundwater Investigation Report

Unocal Service Station 5430
1935 Washington Avenue at Castro Street
San Leandro, California
June 21, 1995

Pacific Environmental Group, Inc. (PACIFIC) has performed a soil and groundwater investigation for Unocal Corporation, at Unocal Service Station 5430, located at 1935 Washington Avenue at Castro Street, California.

The Soil and Groundwater Investigation Report has been prepared by the staff of PACIFIC under the professional supervision of the project geologist whose seal and signature appear hereon.

JOSEPH J. MUZZIO No. 1672 CERTIFIED ENGINEERING

Joseph Muzzid C Project Geologist

CEG 1672

### **EXECUTIVE SUMMARY**

This report has been prepared by Pacific Environmental Group, Inc. (PACIFIC) to document the findings of a soil and groundwater investigation performed at Unocal Service Station 5430, located at 1935 Washington Avenue in San Leandro, California. A summary of the site investigation is as follows:

- The site is an operating Unocal retail service station that has been active since 1965. Unleaded gasoline products are currently stored in two 10,000-gallon underground fiberglass gasoline storage tanks, located in a common excavation in the north-central portion of the property. A 280-gallon underground waste oil storage tank is installed in a separate excavation in the southwest portion of the site.
- The current investigation conducted at the site by PACIFIC included the drilling, logging, and sampling of four borings on February 21 and 22, 1995 to a depth of 42 feet below ground surface (bgs). Groundwater Monitoring Wells U-4, U-5, U-6, and U-7 were installed in the four boring locations.
- The site is underlain primarily by clay, and silty clay, with interbeds of sand, sandy clays and clayey sands, from the ground surface to the maximum depth explored of 42 feet bgs.
- Groundwater was encountered during drilling at between 29 and 30 feet bgs, and stabilized at approximately 26 to 27 feet bgs. Groundwater gradient is approximately 0.03 and flows to the southwest.
- Soil analytical data from the borings showed total petroleum hydrocarbons calculated as gasoline (TPH-g) concentrations ranging from non-detectable to 100 parts per million (ppm). The highest concentration was noted at a depth of 35 feet bgs in a sample collected from boring U-6, downgradient of the product islands. Benzene was also detected at a depth of 35 feet in Boring U-6 at a concentration o 0.088 ppm.
- Groundwater analytical data from Wells U-1 through U-7 showed TPH-g ranging from non-detectable to 14,000 parts per billion (ppb) and benzene

ranging from non-detectable to 860 ppb. The highest concentration of TPH-g was detected in Well U-6, located at the southern property boundary. The highest concentration of benzene was detected in Well U-3, located south of the product islands.

- The maximum extent of dissolved-phase hydrocarbons appears to be limited to the eastern and southern portions of the site in the vicinity of the product islands, which suggests that the product islands are the probable source of petroleum hydrocarbon impact.
- PACIFIC recommends quarterly groundwater monitoring and sampling of all wells to further evaluate trends in groundwater chemistry and flow beneath the site. Additional groundwater investigations may be warranted south of the Unocal site to delineate the downgradient extent of petroleum hydrocarbons in groundwater.

### 1.0 INTRODUCTION

This report prepared by Pacific Environmental Group, Inc. (PACIFIC) for Union Oil Company of California (d.b.a. Unocal) presents the findings of a soil and groundwater investigation conducted at Unocal Service Station 5430, located at 1935 Washington Avenue at Castro Street in San Leandro, California (Figure 1). The investigation was performed to further delineate the extent of petroleum hydrocarbon impact to groundwater beneath the site. The work was performed as described in a PACIFIC Work Plan dated December 27, 1994. Four soil borings were drilled, logged, and sampled. Groundwater monitoring wells were installed in all of the borings. This report includes discussions of the site background, a description of the scope of work performed, the results of the current investigation, and conclusions and recommendations.

### 2.0 BACKGROUND

### 2.1 Site History

The site has been an active Unocal service station since 1965. Unleaded gasoline products are currently stored in two 10,000-gallon underground fiberglass gasoline storage tanks, located in a common excavation in the north-central portion of the property (Figure 2). These tanks were installed in 1981, to replace the tanks originally installed at the time of construction of the service station. The new tanks were installed in the same excavation which contained the original gasoline tanks. During station construction in 1965, a 280-gallon underground waste oil storage tank was installed in a separate excavation in the southwest portion of the site. This waste oil storage tank is apparently still in use at the site. There are two product islands located in the east-central portion of the site, and two service bays located within the station building in the western portion of the site.

### 2.2 Previous Investigations

Five exploratory soil borings and three groundwater monitoring wells were installed in August 1993. The results of the investigation are presented in a PACIFIC Soil and Groundwater Investigation Report, dated December 2, 1994. Soil analytical results were non-detect for total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), except beneath the product island area, where TPH-g concentrations of up to 200 parts per million were detected in capillary fringe zone soils at depths of about 30 feet.

Groundwater has been monitored since August 1993. Depth to water has fluctuated between approximately 28 and 33 feet below ground surface, and groundwater flow has been generally westerly to southerly at a shallow gradient. TPH-g concentrations in site wells have ranged from non-detect to 23,000 parts per billion (ppb). Benzene concentrations in site wells have ranged from non-detect to 1,000 ppb. Well U-3, which is in the vicinity of the pump islands, has consistently had the greatest concentrations of TPH-g and benzene. Well U-1 has had the lowest concentrations of TPH-g and benzene.

### 2.3 Regional Setting and Hydrogeology

The site is located on the San Leandro alluvial cone in the gently bayward-sloping alluvial plain of Alameda County. San Leandro Creek is located approximately 3,500 feet north of the site. The area is bounded on the north by the Oakland alluvial plain, on the east by the foothills of the Diablo Range, on the south by the San Lorenzo and Niles alluvial cones, and on the west by the southern end of San Francisco Bay. The geologic structure of the area is dominated by northwest trending, steeply dipping faults such as the Hayward fault. The Hayward fault zone is a well recognized groundwater barrier which lies near the base of the East Bay hills and traverses the alluvial deposits of the San Leandro cone.

The San Leandro alluvial cone is composed of water-bearing Pliocene-Pleistocene alluvial sediments consisting of a mixture of gravels, sands, and clays. Aquifers in the area are composed of gently westward-sloping sand and gravel beds and can be segregated into five distinct zones: (1) shallow aquifers within 50 feet of the land surface, (2) aquifers between approximately 30 and 100 feet below ground surface (bgs), (3) aquifers between 130 and 220 feet bgs, (4) aquifers between 250 and 400 feet bgs, and (5) aquifers deeper than 400 feet bgs. Most of the shallow aquifers exist under perched conditions, though some are confined by thin clay beds. The water-bearing material in the shallow aquifers is usually silty sand deposits. Groundwater recharge to the shallow aquifers occurs by direct infiltration of precipitation, and from irrigation, and streamflow. During periods of drought some of the perched sand lenses may not yield water to wells. In general, regional groundwater flows from the east to the west, toward San Francisco Bay.

#### 3.0 SCOPE OF WORK

The purpose of the investigation was to further delineate the extent of hydrocarbon-impacted soil and groundwater at the site. The scope of work included the following:

- Subsurface soil and groundwater conditions were explored by drilling, logging, and sampling four borings on February 21 and 22, 1995 to a maximum depth of 42 feet bgs.
- The borings were converted to three on-site Groundwater Monitoring Wells U-4, U-5 and U-6, and one off-site Groundwater Monitoring Well U-7. The wells were constructed of 2-inch diameter well casing and installed to a depth of 40 feet bgs. The wells were developed on February 23, 1995.
- Soil samples were collected from each of the borings in depth intervals of 5 feet, preserved and stored following EPA and DHS guidelines, and submitted to a state-certified laboratory for analysis. Soil samples were selected for analysis of total petroleum hydrocarbons calculated as gasoline (TPH-g) by EPA Modified Method 8015/5030, total petroleum hydrocarbons calculated as diesel (TPH-d) by EPA Modified Method 8015/3550, and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) by EPA Method 8020/5030.
- Groundwater samples were collected from Wells U-1 through U-7 on March 14, 1995, by MPDS Services Inc. (MPDS), a Unocal sampling contractor. The samples were submitted to a state-certified laboratory and analyzed for TPH-g by EPA Method 8015/5030, and BTEX compounds by EPA Method 8020.
- Wells U-4, U-5, U-6, and U-7 were surveyed for location and elevation relative to mean sea level from a datum with an accuracy of +/- 0.01 foot. Surveying was performed by a state-licensed surveyor. Depth to water measurements collected during groundwater sampling were combined with well elevations to prepare a groundwater elevation contour map.

### 4.1 Subsurface Conditions

The site is underlain by thick sequence of clays and silts with laterally and vertically discontinuous sand horizons to the maximum depth drilled of 42 feet. The sand horizons generally range from 1 to 10 feet in thickness, and comprise primarily fine- and medium-grained sand with subangular gravels. Generalized subsurface conditions are shown on Geologic Cross-Sections A-A' and B-B', Figures 3 and 4, respectively. Aquifer materials beneath the site consist of clay with interbedded sand and clayey sand horizons. Field and laboratory procedures are presented as Appendix A. Boring logs, well construction details, and well survey data are presented as Appendix B.

Groundwater in the borings was first encountered during drilling at depths of between approximately 28 and 30 feet bgs. Groundwater stabilized at approximately 26 to 27 feet bgs. Groundwater elevation data for the March 14, 1995 monitoring event are presented in Table 2, and shown on Figure 5. As shown on Figure 5, a northwest trending hydraulic mound occurred beneath the product islands and underground storage tank complex between Wells U-3 and U-2. This hydraulic mounding maybe caused by variations in lithology and hydraulic conductivity across the well screen intervals. Groundwater at the site generally flowed in a southwesterly direction at a gradient of approximately 0.03 feet/feet (Figure 5).

### 4.2 Soil Analytical Results

Soil samples were collected at 5-foot depth intervals from Borings U-4, U-5, U-6, and U-7. Soil samples taken at 5-, 15-, 20-, 25-, 30-, and 35-foot depth intervals were analyzed for TPH-g, TPH-d, and BTEX compounds.

TPH-g and BTEX compounds were reported for the 35-foot sample from Boring U-6, located south of the product islands in the southern portion of the site. In this sample TPH-g and benzene were detected at 100 ppm and 0.088 ppm, respectively. In Boring U-7 a low level of xylene was detected at 0.009 ppm from a sample taken at the 15-foot depth interval. All other samples analyzed were at non-detectable levels. Low levels of TPH-d were detected in all the well borings with the exception of U-5. Soil analytical data are presented in Table 1. Selected soil analytical data are shown on the geologic cross-sections (Figures 3 and 4). Certified

analytical reports, chain-of-custody documentation, and field data sheets are presented as Appendix C.

### 4.3 Groundwater Analytical Results

Groundwater samples were collected from Wells U-1 through U-7 on March 14, 1995 and analyzed for TPH-g and BTEX compounds. A sample taken from Well U-1 on March 14, 1995 was also analyzed for TPH-d.

Concentrations of TPH-g in groundwater ranged from 89 to 14,000 parts per billion (ppb) with the exception of Wells U-5 and U-7, which contained non-detectable levels. Wells U-3 and U-6 had the greatest concentrations of TPH-g at 13,000 and 14,000 ppb, respectively. Concentrations of benzene ranged from non-detectable to 170 ppb with the exception of U-3, which contained 860 ppb. Concentrations of TPH-d were detected in the sample taken from Well U-1 at 71 ppb. Groundwater analytical data is presented on Table 3. TPH-g and benzene concentrations are shown on Figure 6. Certified analytical reports, chain-of-custody documentation, and field data sheets are presented in a MPDS Quarterly Data Report, dated April 14, 1995.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

The principle conclusions drawn from the information collected during this and previous investigations are as follows:

- Groundwater occurs at depths of between 26 to 30 feet bgs and flows toward the southwest. Local variations in site lithology appear to cause a slight groundwater mounding in the eastern portion of the site beneath the product islands.
- Hydrocarbon-impacted vadose-zone soils have not been detected beneath the site.
   Concentrations of hydrocarbons have been detected only in soils at the approximate depth of the groundwater surface.
- Newly installed wells U-4 through U-7 have further delineated the dissolved hydrocarbon plume beneath the site. Initial groundwater analytical data from Wells U-7 and U-5 suggest that groundwater in the upgradient (east) and crossgradient (north) directions has not been impacted. Groundwater analytical data from Wells U-1 and U-4 demonstrate that dissolved hydrocarbon concentrations attenuate significantly away from the product islands, toward the west. Initial groundwater analytical data from Well U-6 indicates that petroleum hydrocarbon impact has not been delineated in the downgradient direction, south of the site.
- The maximum extent of dissolved-phase hydrocarbons appears to be limited to the eastern and southern portions of the site in the vicinity of the product islands, which suggests that the product islands are the probable source of petroleum hydrocarbon impact.

PACIFIC recommends quarterly groundwater monitoring and sampling of all wells to further evaluate trends in groundwater chemistry and flow beneath the site. Additional groundwater investigations may be warranted south of the Unocal site to delineate the downgradient extent of petroleum hydrocarbons in groundwater.

Although hydrocarbon impacted groundwater was detected at the western property boundary, additional assessment activities west of the site are not considered feasible due to the density of residential structures.

### REFERENCES

Alameda County Flood Control and Water Conservation District, Groundwater in the San Leandro and San Lorenzo Alluvial Cones of the East Bay Plain of the Alameda County, 1984.

Pacific Environmental Group Inc., Soil and groundwater Investigation Report, Unocal Service Station 5430, 1935 Washington Avenue, San Leandro, California, December 2, 1993.

3100381C\REPORT2 June 21, 1995

## Table 1 Soil Analytical Data Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)

	Sample		TPH as			Ethyl-		TPH as
Boring	Depth	Date	Gasoline	Benzene	Toluene	benzene	<b>Xylenes</b>	Diesel
Number	(feet)	Sampled	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
U-1	9.5-11	08/04/93	<1.0	<0.005	0,079	<0.005	<0,005	<0.00
	19.5 - 21		<1.0	<0.005	0.20	<0.005	<0.005	<0.00
	29.5 - 31		<1.0	<0.005	0.029	<0,005	<0.005	<0.00
U-2	9.5 - 11	08/05/93	<1.0	<0.005	0.041	<0.005	<0.005	<0.00
	19.5 - 21		<1.0	<0.005	0.1	< 0.005	<0.005	< 0.00
	29.5 - 31		<1.0	<0.005	<0.005	<0.005	<0.005	<0.00
U-3	9.5 - 11	08/05/93	<1.0	<0.005	0.040	<0.005	<0.005	<0.00
	19.5 - 21		<1.0	<0.005	0,059	<0.005	<0.005	<0.00
	29.5 - 31		<1.0	0.006	0.007	0.034	<0.005	<0.00
U-4	5 - 5.5	02/21/95	<1.0	<0.005	<0.005	<0.005	<0.005	<1
	15 - 15.5		<1.0	< 0.005	< 0.005	<0.005	<0.005	<1
	25 - 25.5		<1.0	<0.005	< 0.005	<0.005	<0.005	<1
	30 - 30.5		<1.0	< 0.005	< 0.005	<0.005	<0.005	<1
	35 - 35.5		<1.0	<0.005	<0.005	<0.005	<0.005	1
U-5	5 - 5.5	02/21/95	<1.0	<0.005	<0.005	<0.005	<0.005	<1
	15 - 15.5		<1.0	<0.005	< 0.005	< 0.005	< 0.005	<1
	25 - 25.5		<1.0	<0.005	< 0.005	< 0.005	< 0.005	<1
	30 - 30.5		<1.0	< 0.005	<0.005	<0.005	<0.005	<1
	35 - 35.5		<1.0	<0.005	<0.005	<0.005	<0.005	2
U-6	5 - 5.5	02/21/95	<1.0	<.0.005	<0.005	<0.005	<0.005	<1
	15 - 15.5		<1.0	<0.005	<0.005	<0.005	<0.005	<1
	20 - 20.5		<1.0	< 0.005	<0.005	<0.005	<0.005	<1
	25 - 25.5		<1.0	<0.005	<0.005	<0.005	<0.005	<1
	30 - 30.5		<1.0	<0.005	<0.005	<0.005	<0.005	<1
	35 - 35.5		100	0.088	0.36	1,7	2.4	2
U-7	5`- 5.5	02/21/95	<1.0	<0.005	<0.005	<0.005	<0.005	
	15 - 15.5		<1.0	<0.005	<0.005	< 0.005	0.009	<1
	20 - 20.5		<1.0	<0.005	<0.005	< 0.005	0.009	<1
	25 <b>-</b> 25.5		<1.0	<0.005	<0.005	< 0.005	<0.005	<1
	30 - 30.5		<1.0	<0.005	<0.005	<0.005	<0.005	<1
	35 - 35.5		<1.0	<0.005	<0.005	<0.005	<0.005	<1
U-A	9,5 - 11	08/04/93	<1.0	<0.005	0.008	<0.005	<0.005	<0.00
	19 5 - 21		<1.0	<0.005	0.025	<0.005	<0.005	<0.00
	29 5 - 31		53	0.80	0.62	1.5	5.3	5
U-B	9.5 - 11	08/04/93	<1.0	< 0.005	0.09	<0.005	<0.005	<0.00
	19 5 - 21		<1.0	<0.005	0.16	<0.005	< 0.005	<0.00
	29.5 - 31		<1.0	<0.005	0.14	<0.005	<0.005	<0.0
U-C	9.5 - 11	08/04/93	<1.0	< 0.005	0.03	<0.005	<0.005	<0.00
	19.5 - 21		<1.0	< 0.005	0.082	<0.005	<0.005	<0.00
	29.5 - 31		200	0.78	13	4.2	20	V 18

# Table 1 (continued) Soil Analytical Data Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)

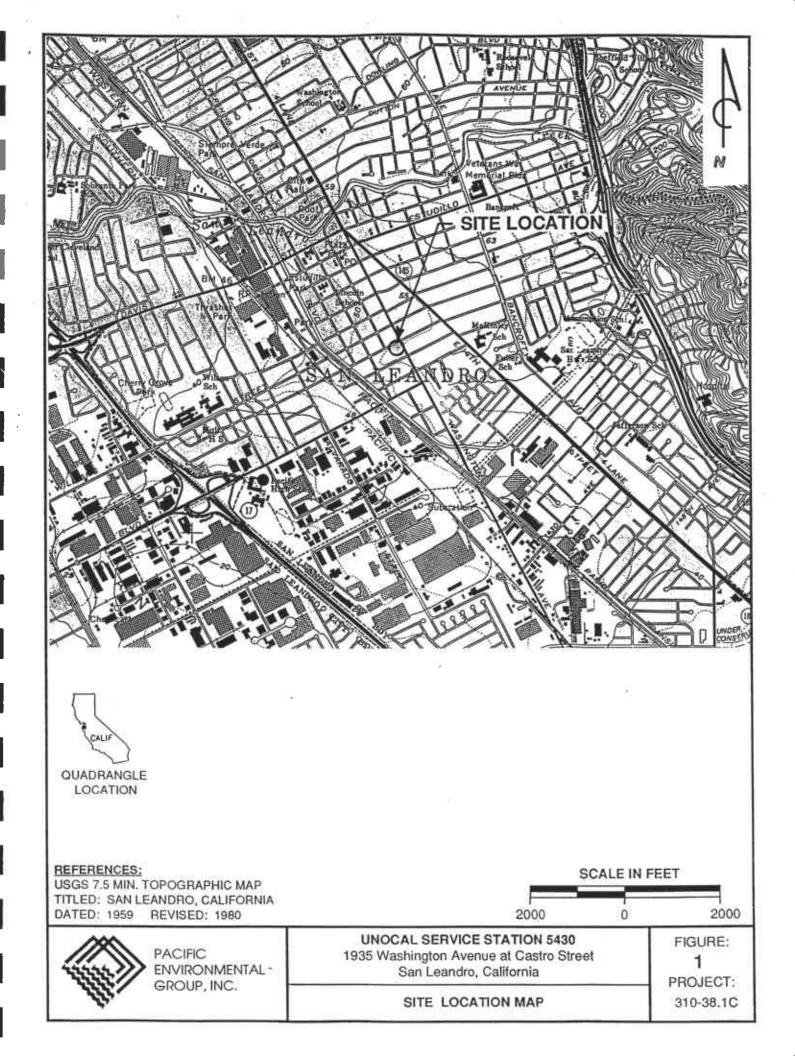
feet)	Sampled	(ppm)	(ppm)	Toluene (ppm)	(ppm)	Xylenes (ppm)	Diesel (ppm)
5 - 11	08/04/93	<1.0	< 0.005	0.049	< 0.005	<0.005	< 0.005
5-21		<1.0	< 0.005	0.13	<0,005	<0.005	< 0.005
5 - 31		<1.0	<0.005	0.01	<0.005	<0.005	<0.005
5 - 11	08/04/93	<1.0	<0.005	0.077	<0.005	<0.005	<0.005
5 - 21		<1.0	<0.005	0.18	< 0.005	< 0.005	< 0.005
5 - 31		<1.0	<0.005	0.028	< 0.005	< 0.005	< 0.008
	5 - 11 5 - 21 5 - 31 5 - 11 5 - 21	5 - 11 08/04/93 5 - 21 5 - 31 5 - 11 08/04/93 5 - 21	5-11 08/04/93 <1.0 5-21 <1.0 5-31 <1.0 5-11 08/04/93 <1.0 5-21 <1.0	5-11 08/04/93 <1.0 <0.005 5-21 <1.0 <0.005 5-31 <1.0 <0.005 5-11 08/04/93 <1.0 <0.005 5-21 <1.0 <0.005	5-11 08/04/93 <1.0 <0.005 0.049 5-21 <1.0 <0.005 0.13 5-31 <1.0 <0.005 0.01 5-11 08/04/93 <1.0 <0.005 0.077 5-21 <1.0 <0.005 0.18	5-11 08/04/93 <1.0 <0.005 0.049 <0.005 5-21 <1.0 <0.005 0.13 <0.005 5-31 <1.0 <0.005 0.01 <0.005 5-11 08/04/93 <1.0 <0.005 0.077 <0.005 5-21 <1.0 <0.005 0.18 <0.005	5-11 08/04/93 <1.0 <0.005 0.049 <0.005 <0.005 5-21 <1.0 <0.005 0.13 <0.005 <0.005 5-31 <1.0 <0.005 0.01 <0.005 <0.005 5-11 08/04/93 <1.0 <0.005 0.077 <0.005 <0.005 5-21 <1.0 <0.005 0.18 <0.005 <0.005

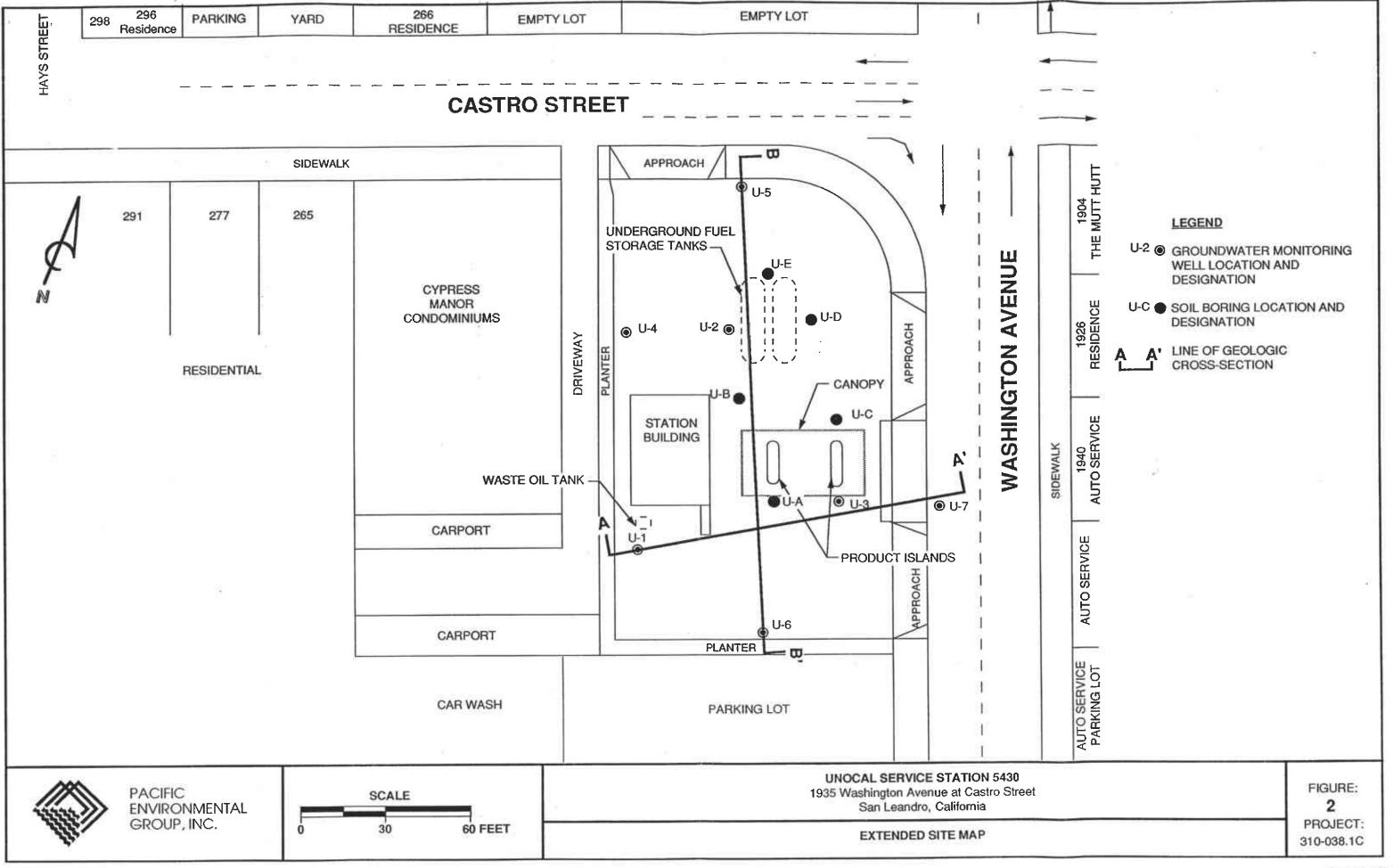
### Table 2 Groundwater Elevation Data

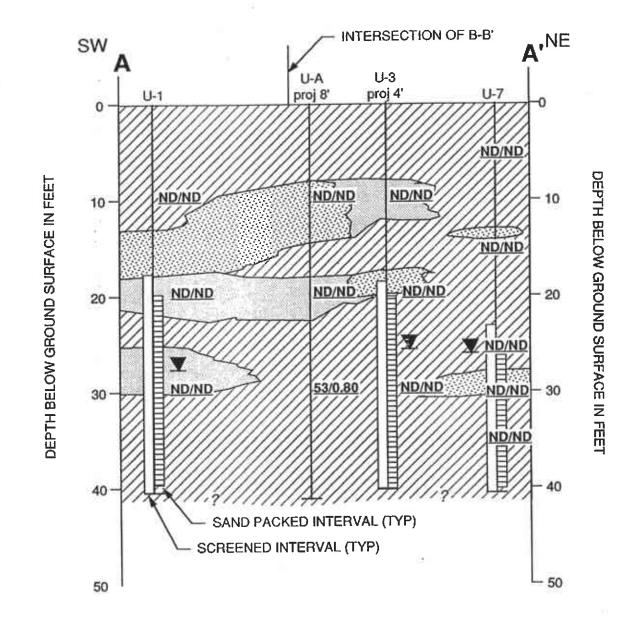
Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
U-1	03/14/95	56.09	27.86	28.23
U-2	03/14/95	55,29	26.36	28.93
U-3	03/14/95	55.23	25.44	29.79
U-4	03/14/95	55.39	26.52	28.87
U-5	03/14/95	54.18	25.20	28.98
U-6	03/14/95	55.36	26.94	28.42
U-7	03/14/95	55.05	26.13	28.92

# Table 3 Groundwater Analytical Data Total Petroleum Hydrocarbons (TPH as Gasoline, BTEX Compounds, and TPH as Diesel)

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)
U-1	3/14/95	380	20	ND	ND	10	71
U-2	3/14/95	89	ND	ND	ND	1.2	NA
U-3	3/14/95	13,900	860	120	1,300	1,700	NA NA
U-4	3/14/95	490	3.2	2.1	0.79	1.2	N.A
U-5	3/14/95	ND	ND	ND	ND	1.2	N/
U-6	3/14/95	14,000	170	36	790	1,500	N/
	3/14/95	ND	ND	ND	ND	ND	NA







### **LEGEND**

FINE GRAINED DEPOSITS - CLAY AND SILT

MEDIUM GRAINE DEPOSITS - SILTY, CLAYEY SAND

COARSE GRAINED DEPOSITS - SAND

U-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

U-A SOIL BORING LOCATION AND DESIGNATION

proj PROJECTED ONTO LINE OF SECTION IN FEET

▼ STATIC GROUNDWATER LEVEL

53/0.80 TPH-g/BENZENE CONCENTRATION IN SOIL, IN PARTS PER MILLION, 8-4-93, 8-5-93 and 2-21-95

NOT DETECTED

**PACIFIC ENVIRONMENTAL** GROUP, INC.

<u>SCALE</u>

HORIZONTAL: 1" = 30'

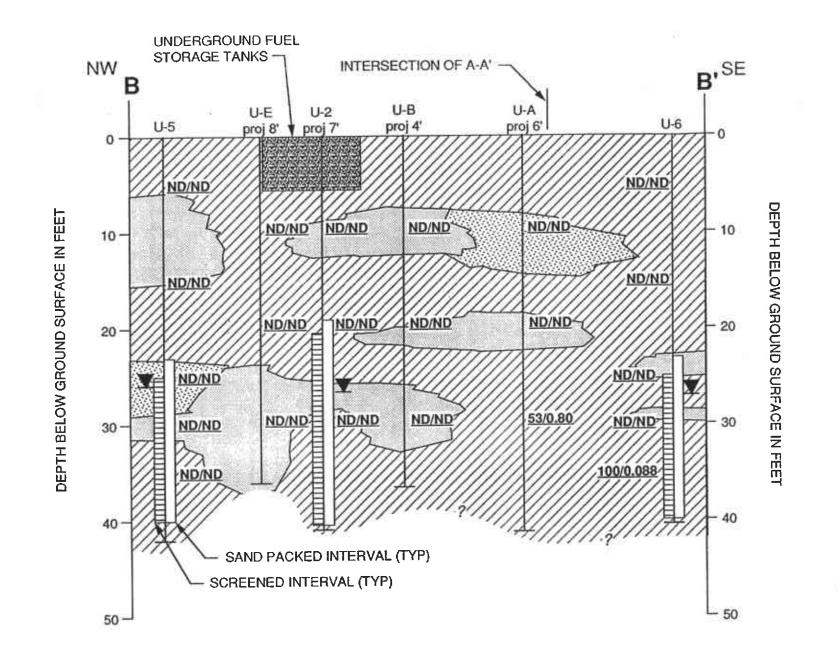
VERTICAL: 1" = 10"

**UNOCAL SERVICE STATION 5430** 1935 Washington Avenue at Castro Street San Leandro, California

GEOLOGIC CROSS-SECTION A-A'

FIGURE: 3

PROJECT: 310-038.1C



**LEGEND** 

TANK BACKFILL

FINE GRAINED DEPOSITS - CLAY AND SILT

MEDIUM GRAINE DEPOSITS - SILTY, CLAYEY SAND

COARSE GRAINED DEPOSITS - SAND

U-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

U-A SOIL BORING LOCATION AND DESIGNATION

proj PROJECTED ONTO LINE OF SECTION IN FEET

▼ STATIC GROUNDWATER LEVEL

53/0.80 TPH-g/BENZENE CONCENTRATION IN SOIL, IN PARTS PER MILLION, 8-4-93, 8-5-93 and 2-21-95

ND NOT DETECTED



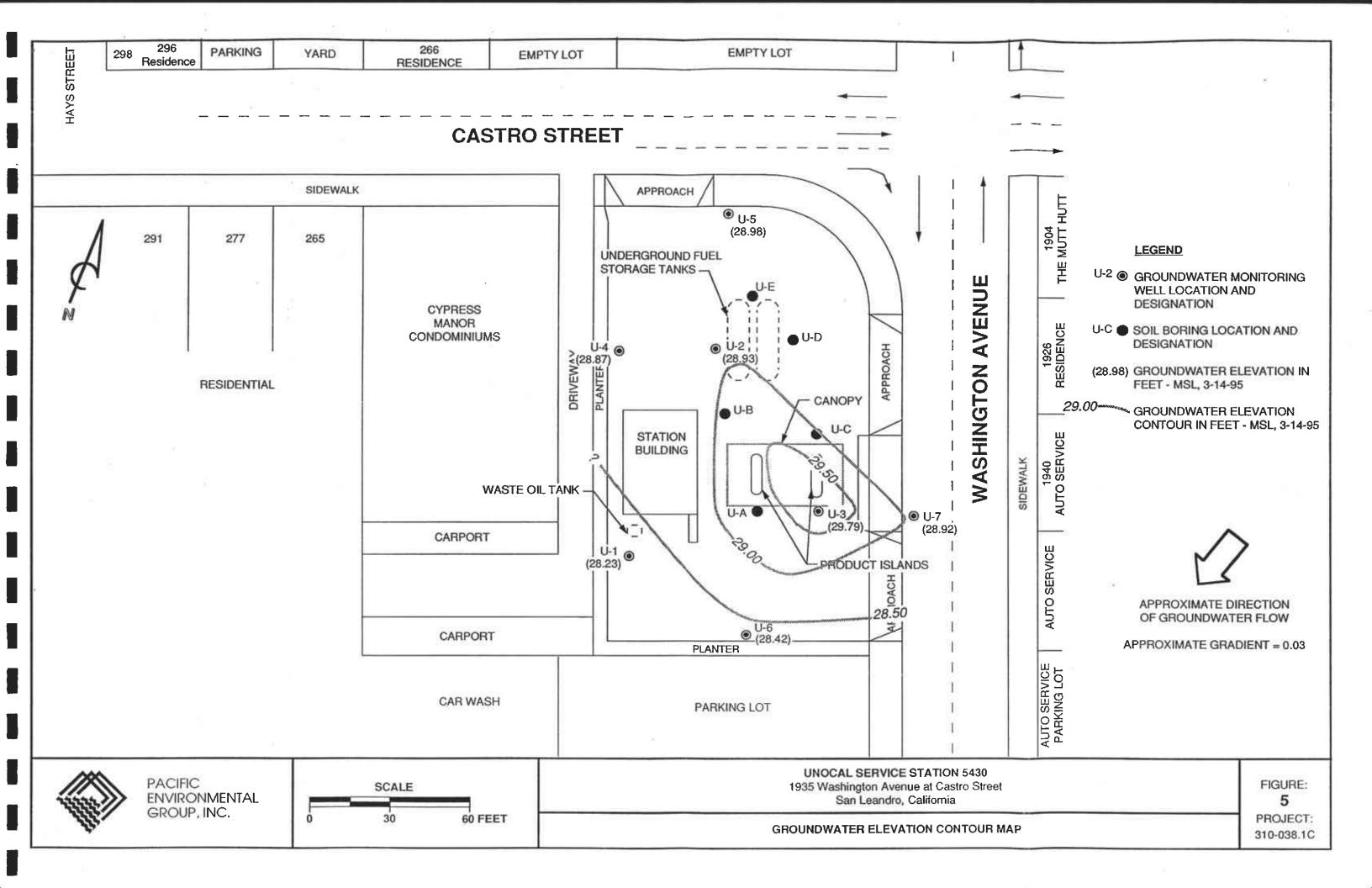
**SCALE** 

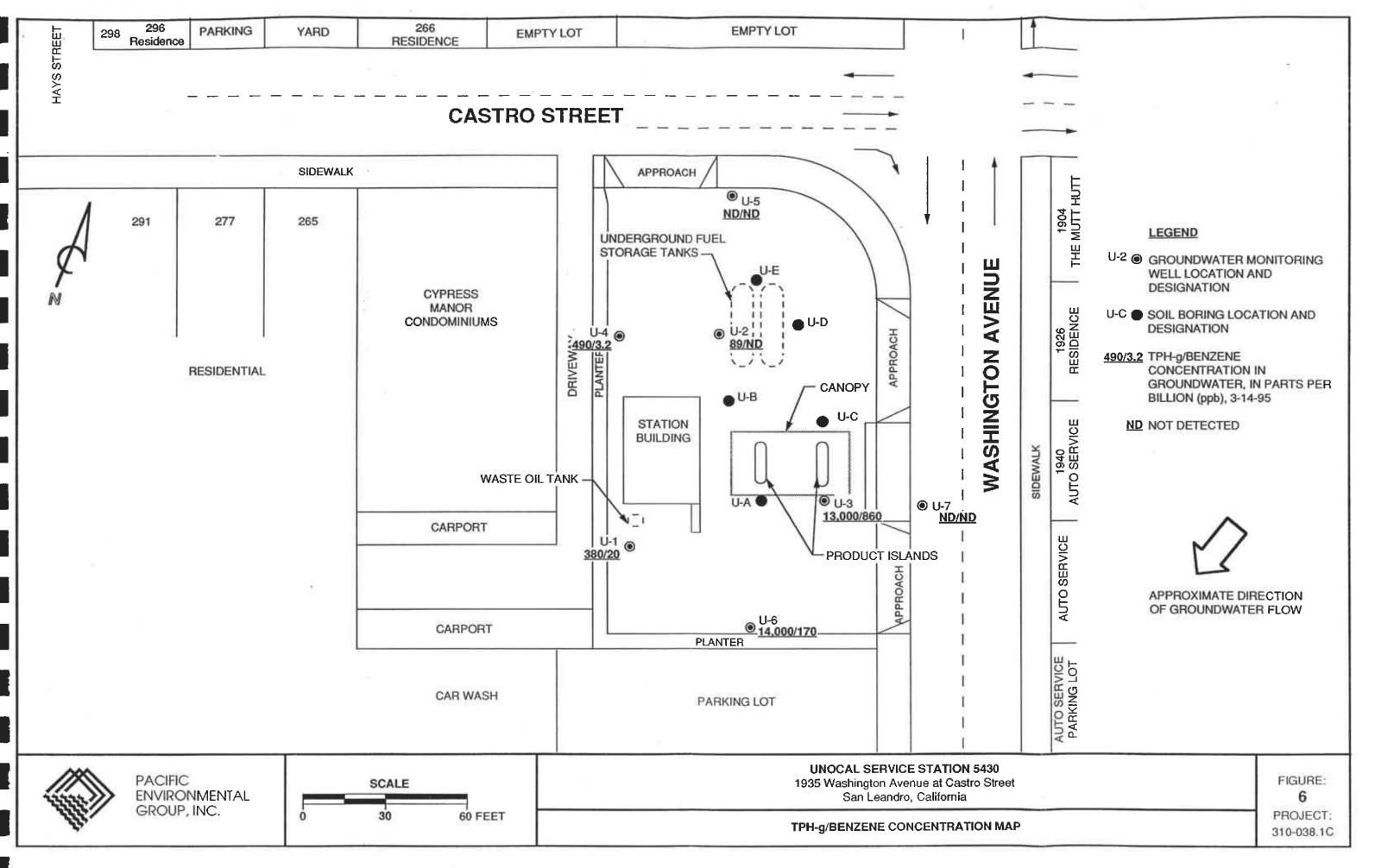
HORIZONTAL: 1" = 30' VERTICAL: 1" = 10' UNOCAL SERVICE STATION 5430
1935 Washington Avenue at Castro Street
San Leandro, California

GEOLOGIC CROSS-SECTION B-B'

FIGURE:

PROJECT: 310-038.1C





# APPENDIX A FIELD AND LABORATORY PROCEDURES

### APPENDIX A FIELD AND LABORATORY PROCEDURES

### **Exploratory Soil Boring and Monitoring Well Installation Procedures**

The soil borings were drilled using 8-inch diameter hollow-stemmed auger drilling equipment, and logged by a Pacific Environmental Group, Inc. geologist using the Unified Soil Classification System and standard geologic techniques. Soil samples for logging and chemical analysis were collected at maximum depth intervals of 5 feet by advancing a California-modified split-spoon sampler with brass sample liners into undisturbed soil beyond the tip of the auger. The sampler was driven a maximum of 18 inches using a 140-pound hammer with a 30-inch drop. Soil samples for chemical analysis were retained in the brass liners, capped with Teflon sheets and plastic end caps, and sealed in plastic bags. Selected samples were placed on ice and transported to the laboratory accompanied by the appropriate chain-of-custody documentation. The drilling equipment was steam-cleaned prior to, and following the drilling of the boring.

The soil borings were converted to groundwater monitoring wells by the installation of 2-inch diameter flush-threaded Schedule 40 PVC casing with 0.020-inch factory-slotted screen. The screened interval is 25 to 40 feet bgs. Graded 2/12 sand pack was placed in the annular space across the screened interval of each well, and extending approximately 2 feet above the top of the screened interval. A two foot thick bentonite seal was placed above the sand pack. A neat cement seal was placed from the bentonite to ground surface. A locking cap and protective vault box were installed on the top of each well. Boring logs and well construction are included in Attachment B

Following well completion, the wells were developed through surging and pumping repeatedly until water removed from the wells was relatively free of sediments. The well elevations were surveyed to the nearest 0.01 foot relative to mean sea level datum by a licensed surveyor. Survey data is included in Attachment A. Field data sheets are included in Attachment C.

### Organic Vapor Analysis

Soil samples collected during drilling were analyzed in the field for ionizable organic compounds using the HNU Model PI-101 photo-ionization detector with a 10.2 eV lamp. The test procedure involves measuring approximately 30 grams from an undisturbed soil sample, placing this subsample in a clean glass jar, and sealing the jar with aluminum foil secured under a ring-type threaded lid. The jar is warmed for approximately 20 minutes, then the foil is pierced and the head-space within the jar is tested for total organic vapor, measured in parts per million as benzene (ppm; volume/volume). The instrument was previously calibrated using a 100-ppm isobutylene standard (in air) and a sensitivity factor of 0.55, which relates the photo-ionization sensitivity of benzene (10.0 ppm) to the ionization potential of isobutylene (5.5 ppm). Results of these tests were used to assist in selection of samples for laboratory analysis.

### **Groundwater Sampling Procedures**

The groundwater sampling was performed using techniques approved by the Regional Water Quality Control Board. The sampling procedure consists of first measuring the water level in each well, and checking each well for the presence of separate-phase hydrocarbons (SPH) using an optic probe or a clear Teflon bailer. If no SPH are detected, the wells are purged of a minimum of four casing volumes of water, or until dryness. During purging, temperature, pH, and electrical conductivity are monitored in order to ensure that a representative sample is obtained. After the water levels partially recover, groundwater samples are collected using a Teflon bailer and placed into appropriate EPA-approved containers. The samples are labeled, and transported on ice to the laboratory, accompanied by appropriate chain-of-custody documentation.

### **Laboratory Procedures**

Selected soil and groundwater samples were analyzed in the laboratory for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g), total petroleum hydrocarbons calculated as diesel (TPH-d), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Extraction was performed by the purge and trap technique, EPA Method 5030. Analysis of TPH-g was performed according to the DHS LUFT method, and analysis for BTEX compounds was by EPA Method 8020. Final detection was by gas chromatography using a flame-ionization detector and photo-ionization detector. All analyses were performed by a California State-certified laboratory.

### APPENDIX B

# BORING LOGS, WELL CONSTRUCTION DETAILS AND WELL SURVEY DATA

					2	
Primary (	Divisions	Syr		oup /Graj	phic Typical Names	
COARSE GRAINED SOILS	GRAVELS half of	GRAVELS GW		000	Well graded gravels, gravel-sand mixtures; little or no fines	
more than half is larger than #200 sieve	coarse fraction larger than	(less than 5% fines)	GP	000	Poorly graded gravels or gravel-sand mixtures; little or no fines	
	#4 sieve	GRAVEL WITH	GM	000	Silty gravels, gravel-sand-silt mixtures	
	ie.	FINES	GC		Clayey gravels, gravel-sand-clay mixtures	
	SANDS half of	CLEAN SANDS	sw		Well graded sands, gravelly sands, little or no fines	
	coarse fraction smaller than #4 sieve	coarse fraction smaller than #4	(less than 5% fines)	SP		Poorly graded sands or gravelly sands; little or no fines
o.			SANDS WITH	sм		Silty sands, sand-silt mixtures
		FINES	sc		Clayey sands, sand-clay mixtures, plastic fines	
FINE GRAINED	SILTS AND CLAYS liquid limit less than 50% SILTS AND CLAYS		ML		Inorganic silts and very fine sand, rock flour, silty or clayey fine sands or clayey silts, with slight plasticity	
SOILS more than			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
half is smaller than			OL		Organic silts and organic silty clays of low plasticity	
#200 sieve			МН		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		d limit nan 50%	СН		Inorganic clays of high plasticity, fat clays	
			ОН		Organic clays of medium to high plasticity, organic silts	
HIGHL	Y ORGANIC	SOILS	Pt	$\otimes$	Peat and other highly organic soils	



Unified Soil Classification System

### WELL LOG **KEY TO ABBREVIATIONS**

#### **Drilling Method**

**Gravel Pack** 

HSA - Hollow stem auger

CA - Coarse aquarium sand

CFA - Continous flight auger Air - Reverse air circulation

### Sampling Method

Cal. Mod. - California modified split-spoon sampler (2" inner diameter) driven 18" by a

140-pound hammer having a 30" drop. Where penetration resistance is

designated "P", sampler was instead pushed by drill rig.

Disturbed - Sample taken from drill-return materials as they surfaced.

Shelby - Shelby Tube thin-walled sampler (3" diameter), where sampler is pushed by drill-rig.

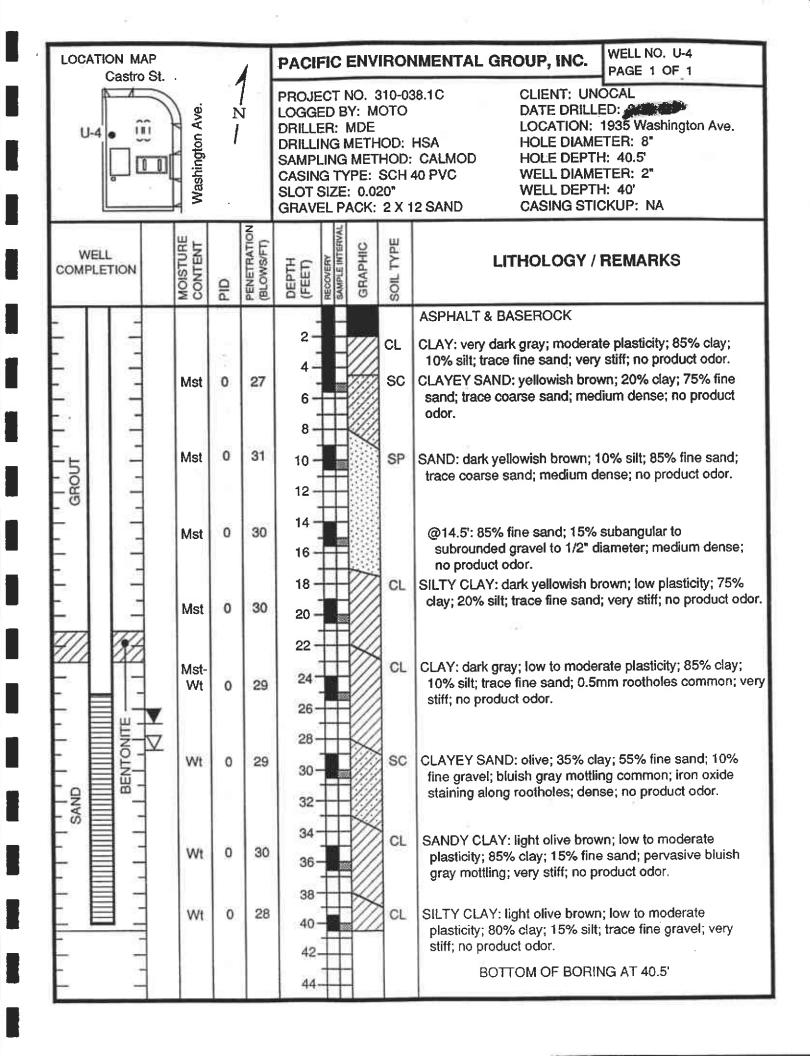
<b>Molsture Content</b>	Sorting	<u>Plasticity</u>	H-NU (ppm)
Dry - Dry	PS - Poorly sorted	L - Low	ND - No detection
Dp - Damp	MS - Moderately sorted	M - Moderate	
Mst - Moist	WS - Well sorted	H - High	
Wt - Wet			
Sat - Saturated	,:4	2	Sample Preserved for Laboratory Testing
Symbols	_		
→ First encountered	sampied_/ =	sample	
Static ground water	er level interval		
Density (Blows/Foot -	Cal Mod Sampler)		
Sands and gravels		Silts and Clays	
0 - 5 - Very Lo	ose	0 - 2 - Ver	y Soft
5 - 13 - Loose		2 - 4 - Soft	
13 - 38 - Mediun	n dense	4-9 -Firm	1 <sup>-</sup>
38 - 63 - Dense		9-17 - Stiff	
over 63 - Very de	∍nse	17 - 37 - Ver	y Stiff
		37 - 72 - Hard	t t
		over 72 - Very	Hard
		~	

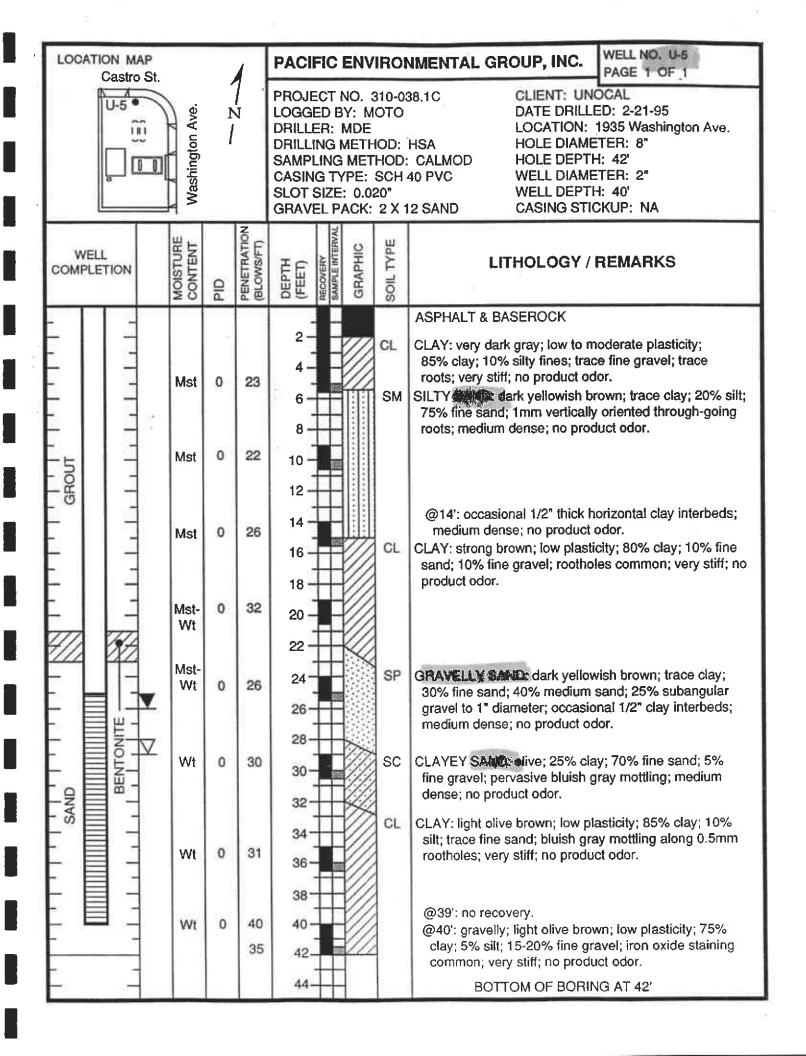
**GRAIN - SIZE SCALE** 

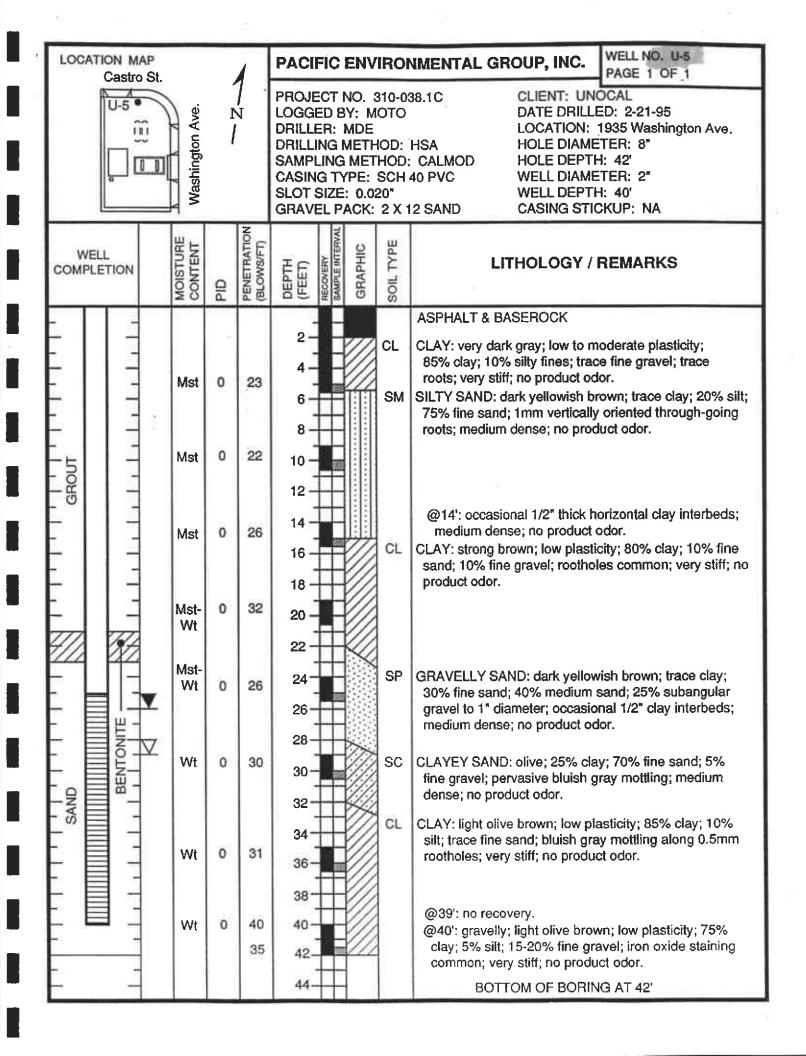
### **GRADE LIMITS** U.S. Standard

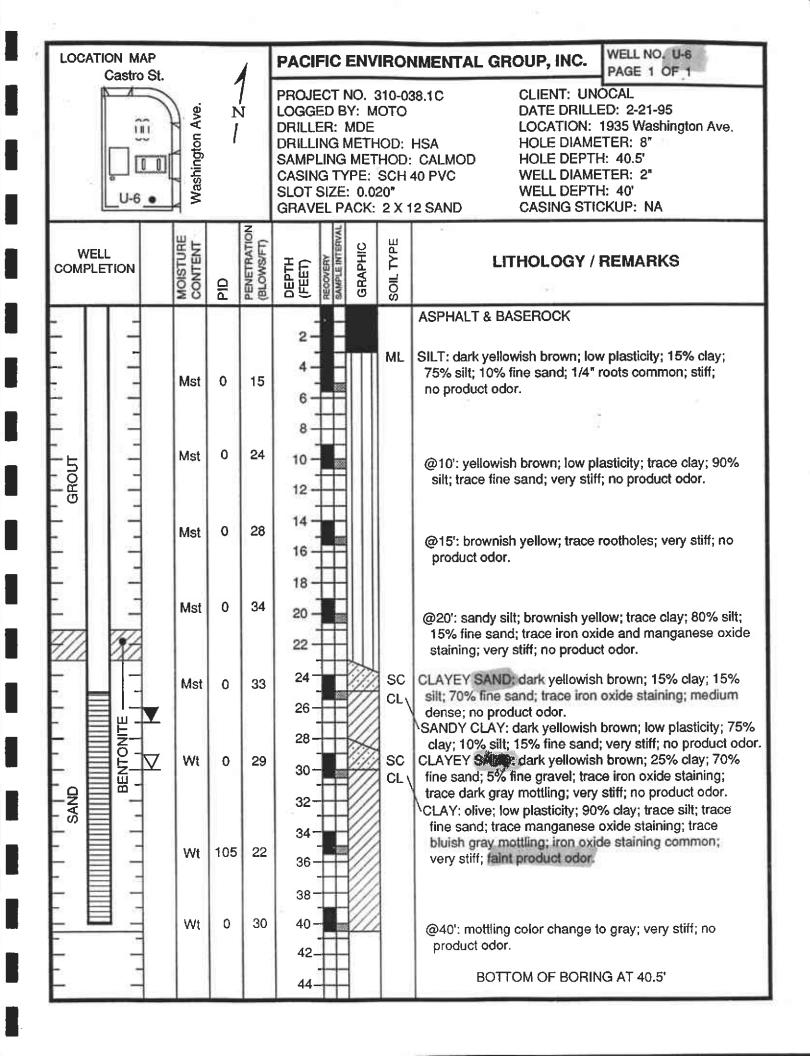
GRADE NAME

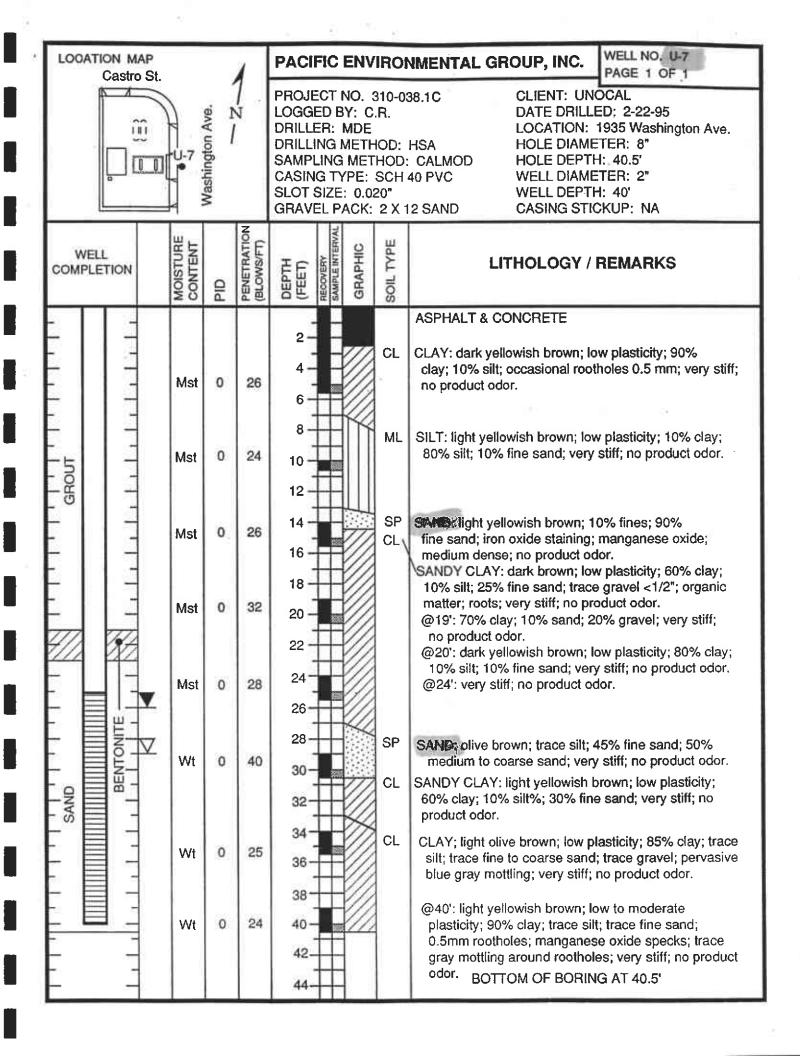
inch	sieve size			
—- 12.0  —			Boulders	
3.0	3.0 in		Cobbles	
	No. 4		Gravels	_
—- 0.08 —·		coarse		
	No. 40	medium	Sand	
	—- No. 200 ———-	fine		
	110. 200		Silt	

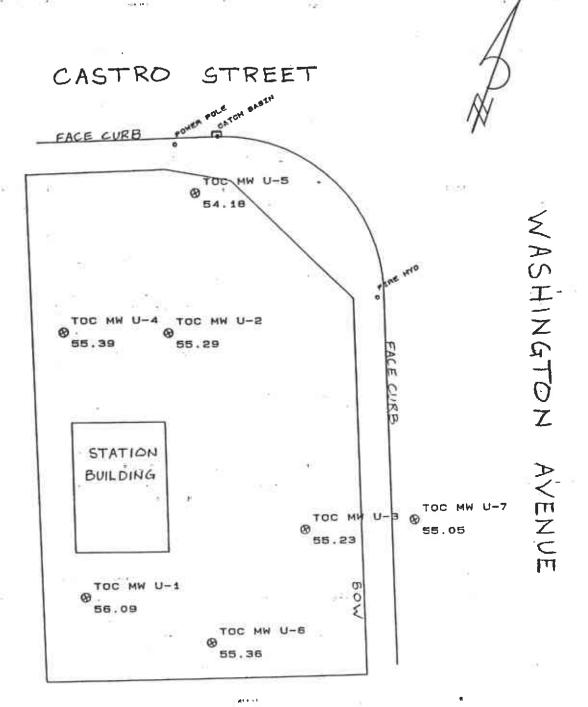












UNOCAL SERVICE STATION 5430 1935 WASHINGTON AVENUE AT CASTRO STREET SAN LEANDRO, CALIFORNIA



MISSION ENGINEERS, INC.

RESPONSIVE, RELIABLE RESULTS SINCE 1953
2978 Scott Blvd., Santa Clara, Calif 95054 (408) 727-8262 FAX: (408) 727-8285

SCALE: I"=30'
DATE 16 MAR 95
DWN KA/TR
CH'KD
JOB NO. 9503'7
DWG. NO.

#### MISSION ENGINEERS, INC. 2978 SCOTT BLVD SANTA CLARA, CALIFORNIA 95054 (408)727-8262 FAX(408)727-8285

Date: 03-16-95 Time: 8:29:13

Page: 1

Coordinate File: 95037.CRD List of Coordinate Points

\* Denotes Contouring Masspoint

Point ID	NORTH -	EAST .	ELEV	Descriptor
18	382.17	460.18	, 56 <b>.</b> Ø9	TOC MW U-1
1B	382.54	459.97	56.57	TOB MW U-1
2A	468.82	461.98	55.29	TOC MW U-2
28	469.29	461.B6	55.77	TOB MW U-2
3A	421.58	519.51	55.23	TOC MW U-3
3B	422.06	519.39	55.65	TOB MW U-3
4A	460.19	430.88	55.39	TOC MW U-4
4B	460.43	430.77	56.Ø1	TOB MW U-4
5A	513.72	457.81	54.18	TOC MW U-5
5B	513.94	457.78	54.75	TOB MW U-5
6A	379.21	501.30	<b>55.36</b>	TOC MW U-6
6B	379.44	501.21	56.19	TOB MW U-6
7A	433.60	'551 <b>.</b> 27	55.05	TOC MW U-7
7B	433.85	551.24	55.37	TOB MW U-7

LOCAL COORDINATE BASIS ONLY.

BENCHMARK PROVIDED BY CITY SAN LEANDRO,

CITY ENGINEERS OFFICE, DATUM 1929

USGS ADJUSTED.

## APPENDIX C

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS

## WELL DEVELOPMENT DATA SHEET

oroject#:	310.00	3810		il #:	21 90	(700)	77 50	(TOP		opment Method Used:
Site Addr	ess: <u>193</u> DANIGA			vv (feet): _ L (feet):		(TOC)_ (TOC)_	<u> </u>	(TOB (TOB		2 JUNOIS DUCK
	- 110110	100/20		ge Vol (10			76	(, O, D		Hor BANKA # 17-2
		70	Di	B:	39.11 7		39.60	706	3	:
Ti	me		pth		lons			ements .		Comments: (odor, clarity, grain size, etc.)
begin	end	to water	to bottom	1	total	рН	cond	temp	turbity	-
1237	1245			460 /	RST SUR	lbECO.	MPLES	E		
1245	1253	27,09	39.30	4.5	4.5	706	1803	63.4	7200	(FAINT, BRN-HUY, SILTY)
1253	1258	<i>/</i>		2NO	SURO	E CON	1 Peter	2		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1258	1306	27.03	29.20	4.5	9.0	7.06	1752	54.5	7200	(4)
1306	1312		<u> </u>	3RD =	SURGE	COMI	PUTE			
1312	1317	27.10	39.25	4.5	13.5	704	1810	645	7200	("
1317	1324		- 4	BSU	ROF C	MPU	AG			
1324	/330	27.10	39.25	4.5	18.0	706	1820	64.4	7200	(u)
1330	1335			5 SUR	f Col	MAKT	E -			
1335	1342	27.09	39.25	4.5	22.50	704	1850	64.4	720	(1, ")
7-0										
	· -									<del></del>
			L		Comple	ted by:	JM	ONNIER		date: 2-23-95

## WELL DEVELOPMENT DATA SHEET

	: <u>3100</u>			ell #:	V-5				_ Deve	lopment M	lethod Used	d:	·
Site Add	ress: 193			W (feet): _	2564	_ (TOC)_	26.25	TOE		<u> 2"</u>	SURGE 1	3 oct	
	SANLA	ANDRO	DT	L (feet):		_ (TOC)_		(TOE				-	
<del></del>					Casings):_					HUER 1	3-2 WK	NERM	05
	•			TB 39	<u>es</u>	(TOC)			3)				
	ime	1	epth	İ	lons	1		rements		Comments:	(odor, clarity,	grain size, etc.	.)
begin	end ·	to water	to bottom	pumped	total	pН	cond	temp	turbity			····	
1120	1/27		FIKIT	SURC	E COI	MUS	E		<u> </u>				
1127	1/36	25.87	39.84	5.0	5.0	7.10	1618	624	77-20	/NONE.	BROWN	. aRITTY	)
1/36	1143		SECO	ND SUK	OF COP	MES			<b>_</b>			7	
1143	1147	25.81	\$39.9	05.0	100	7.10	1700	619	7200	11	CI	V	)
1147	1154		THIR	SURCE	E Camp	LETE	<u> </u>			Ĺ			
1154	1203	25.84	3991	5.0	18/5.0	7.10	1760	620	7200	14		i ,	
1203	1211		FOUR	TH SUR	UE CO	MRET	1E-					,	
1211	1218	25.86	39.41	5,0	20.0	7.06	1	619	7200	(10		11	$\int$
1218	1219		FIFT	4 SUR	ce Cor	PLET	E -		1				
1229	1237	25.84	3990	5.0	25,0	707	1840	62.0	7200	(4		ソ	,
			Ì										
				·									
								. ,					1,
												5 2.8	
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Completed by: J. MNNN date: 2-23-95

## WELL DEVELOPMENT DATA SHEET

•	: 3100				V-6	<u> </u>	Z8.00			elopment Method Used:
	Site Address: 1936 WASHINGTON DTW (feet): 27,18 (TOC)									Z"SURGE BLOCK
AVE SANUFANDRO DTL (feet): (TOC) (TOB)										
<del>, , . in</del>		<del></del>		rge Vol (10	) Casings):_ <i>015</i>		22.05	(ga		Ellan BANGE 13-3
Ti	ime	I De	epth	/(I) —	llons	10C	40.97	- Tou	<u>B</u>	I Co (all and all all all all all all all all all al
		i .	•	1				_		Comments: (odor, clarity, grain size, etc.) activity
begin	end	to water	to bottom	pumped	total	рН	cond	temp	turbity	
1400	1408	4300	HRIT	SURO	E CO,	MPLE	7E-	<del> </del>	<u></u>	
1400	1828/4/6	28.66	40.05	4,5	4.5	7.11	3090	65.1	>200	(FAINT, BRN-HUY, SILTU)
14/6	1422		SEC	NSUR	DE CO	MPLE	<b>F</b> —		,	1
422	1431	28.70	40.10	4.5	9.0	7.06	3160	65,1	7200	(R ( 5)
1431	1437		T 17/1	MD 10	KUZ !	comi	P21/29			
1437	1443	28.71	40.10	4.5	13.5	706		65.3	>200	[11 " " " " " " " " " " " " " " " " " "
143	1449		- Lour	TH WR	04 CO.	7	1			
1449	1454	Z869	40.11	4.5	18.0	7.05		65.5	>200	(11 11 11
1454	1500		FIA	THI VA	RE a	MPLA				
1500	1507	28,90	4011	4.5	22.5	7.06	3190	65.4	7200	(a b . a
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Completed his J. Mon Aler

-dara 7-13-97

# 39,14-1.2

## WELL DEVELOPMENT DATA SHEET

<sup>o</sup> roject#:	: 310-1	138.1C		ell #:	U-7			, <u>.</u>	_ Deve	lopment M	ethod Used	:
	ress: <u>193</u>			W (feet): _	26,46	_ (TOC)_	26.79	(TOE		2"50	ROEB	OCK
HVE	E, SAND	FAMIRO		L (feet):		(TOC)_		(TOE				
	<i>j</i>		Pur	ge Vol (10	Casings):_	19.52	2855	(ga	1) _ <i>[5]</i>	1/46R /	-5 USEV	FOR PURCE
· · · · · · · · · · · · · · · · · · ·	ime	<u> </u>	anth.		37.44 Ions	786	14000	- TOB	,	l constant		
		ToC to water	epth			-		rements		activity	lodor, clarity,	grain size, etc.)
begin	end	to water	to bottom		total	рН	cond	temp	turbity			<del></del>
<u>945</u>	755		- 1-	KST 50	PRUE C	MPUL	12-	*				
955	1003	27.35	38,20	4.0	4.0	715	3620	62.1	7200	NOODER	BROWN,	G-RHTTY
1003	1011		- 54	COND	SURO	(0)					<del>)''''                                 </del>	
IDIL	1016	27,20	37.95	4.0	3.0	7//	3760	62.0	7204	11	······································	11
1016	1024	,	—	HIRD.	WRGE	COMF	RETE	7		,	, ,	
1024	1034	26.97	38,10	4.0	1Z.0	7.11	4040	63,4	7200	11		11
1034	1042	نه		OWRTH	SURGE	COM	RET.					
1042	1050	2714	37.95	4.0	16.0	711	4380	630	7200	(l	W.	11
1050	1057		A	-IFTH	WEE	COM	ALTI					
1057	1105	27/0	3791	4.0	20.0	7.08	4410	62.9	(יטבר	1/	il	и
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*		af L			Comple	ted by: _	ゴ	Northin	ER	dat	e: 2-25-	95



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 \*\* (916) 921-960

FAX (415) 364-9233 FAX (510) 686-9689

MAR 1 3 1995

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sample Descript: U-4@5-5.5 Matrix: SOLID

Analysis Method: EPA 8015 Mod

Lab Number: 9502G38-01

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95

Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5A

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

mg/Kg

Sample Results mg/Kg

1.0

**Detection Limit** 

N.D.

Surrogates n-Pentacosane (C25)

Chromatogram Pattern:

TEPH as Diesel

**Control Limits %** 

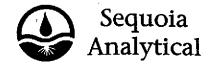
% Recovery

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

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning roject Manager

Page:



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

 ■ Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-4@5-5.5

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/01/95

Matrix: SOLID

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-01

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP18

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 106

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

**SÉQUØIA ANALYTICAL** - ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 \*FAX (510) 686-9689 FAX (916) 921-0100

# Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-4@15-15.5

Sampled: 02/21/95 Received: 02/24/95

# Attention: Maree Doden

Matrix: SOLID Analysis Method: EPA 8015 Mod Extracted: 03/03/95 Analyzed: 03/06/95

Lab Number: 9502G38-02

Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

nstrument 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 n-Pentacosane (C25)

**Control Limits %** 50

150

% Recovery 103

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

EQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-4@15-15.5

Sampled: 02/21/95 Received: 02/24/95

San Jose, CA 95110

Attention: Maree Doden

Matrix: SOLID Analysis Method: 8015Mod/8020 Extracted: 03/01/95 Analyzed: 03/01/95

Lab Number: 9502G38-02

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

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

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

SEQUÓIA ANALYTICAL - ELAP #1210

Eileen Manning Project Manager

Page:



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX=(510) 686-9689 FAX (916) 921-0100

2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-4@25-25.5

Matrix: SOLID

Analysis Method: EPA 8015 Mod

Lab Number: 9502G38-03

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

strument ID: GCHP5A

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Analyte

1.0 TEPH as Diesel Chromatogram Pattern:

N.D.

Sample Results

mg/Kg

Surrogates n-Pentacosane (C25)

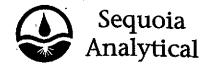
**Control Limits %** 50

mg/Kg

% Recovery 97

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

EQÚOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-4@25-25.5

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-03

Analyzed: 03/01/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

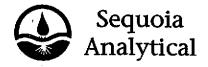
nstrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Anaiyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 100

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

SEQUÓIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sample Descript: U-4@30-30.5 Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-04

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95

Reported: 03/10/95

QC Batch Number: GC0303950HBPEXA

nstrument ID: GCHP5A

Attention: Maree Doden

## Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte **Detection Limit** 

TEPH as Diesel Chromatogram Pattern: mg/Kg

Sample Results mg/Kg

1.0

N.D.

Surrogates n-Pentacosane (C25)

**Control Limits %** 50

150

% Recovery

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

**EQUÓIA ANALYTICAL** - ELAP #1210



Redwood City, CA 94063

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-4@30-30.5

Sampled: 02/21/95

Matrix: SOLID

Received: 02/24/95 Extracted: 03/01/95

**Attention: Maree Doden** 

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-04

Analyzed: 03/01/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 100

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

QUOLA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

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 ■ Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID:

310-038.1C/5430, San Leandro

Sample Descript: U-4@35-35.5

Matrix: SOLID

Analysis Method: EPA 8015 Mod

Lab Number: 9502G38-05

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95

Reported: 03/10/95

C Batch Number: GC0303950HBPEXA

hstrument ID: GCHP5A

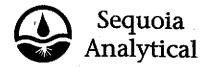
Attention: Maree Doden

## Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.2
Discrete Peaks	••••••	
Surrogates	Control Limits %	% Recovery
Surrogates n-Pentacosane (C25)	50	150 111

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

EQUOTA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

 ■ Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Sample Descript: U-4@35-35.5
Matrix: SOLID
Analysis Matrix

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-05

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/01/95 Reported: 03/10/95

DC Batch Number: GC030195BTEXEXB nstrument ID: GCHP01

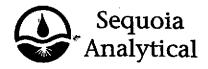
Attention: Maree Doden

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 101

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

QUOIA ANALYTICAL - ELAP #12<u>10</u>



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 68649689 FAX (916) 921-0100

# Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Proj. ID: Sample Descript: U-5@5-5.5

310-038.1C/5430, San Leandro

Sampled: 02/21/95 Received: 02/24/95

San Jose, CA 95110

Matrix: SOLID

Analysis Method: EPA 8015 Mod

Extracted: 03/03/95 Analyzed: 03/06/95

Lab Number: 9502G38-06

Reported: 03/10/95

C Batch Number: GC0303950HBPEXA

strument ID: GCHP5A

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

Surrogates n-Pentacosane (C25)

**Control Limits %** 50

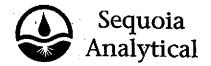
150

% Recovery

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

QUOIA ANALYTICAL -

ELAP #1210



Redwood City, CA 94063

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: Sample Descript: U-5@5-5.5

310-038.1C/5430, San Leandro

Matrix: SOLID

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-06

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/01/95

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP01

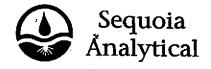
Attention: Maree Doden

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 95

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

SEQUØIA/ANALYTICAL - ELAP #1210



Redwood City, CA 94063

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2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sample Descript: U-5@15-15.5 Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-07

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95

Reported: 03/10/95

QC Batch Number: GC0303950HBPEXA

nstrument ID: GCHP5A

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Analyte

mg/Kg

Sample Results

TEPH as Diesel Chromatogram Pattern: 1.0

mg/Kg

N.D.

Surrogates n-Pentacosane (C25)

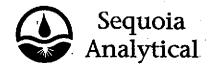
**Control Limits %** 50

150

% Recovery

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

SEQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

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2025 Gateway Place, Suite 440

310-038.1C/5430, San Leandro Client Proj. ID:

Sampled: 02/21/95 Received: 02/24/95

San Jose, CA 95110

Sample Descript: U-5@15-15.5 Matrix: SOLID

Extracted: 03/01/95 Analyzed: 03/02/95

Analysis Method: 8015Mod/8020

Reported: 03/10/95

Attention: Maree Doden

Lab Number: 9502G38-07

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates. Trifluorotoluene	Control Limits % 70 130	% Recovery 95

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-5@25-25.5

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9502G38-08

Analyzed: 03/06/95 Reported: 03/10/95

Attention: Maree Doden C Batch Number: GC0303950HBPEXA

nstrument 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 n-Pentacosane (C25) **Control Limits %** 

% Recovery

112

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

EQUOJA ANALYTICAL -

ELAP #1210



680 Chesapeake Drive

Redwood City, CA 94063 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: Sample Descript: U-5@25-25.5

310-038.1C/5430, San Leandro

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95

Matrix: SOLID

Analysis Method: 8015Mod/8020

Analyzed: 03/02/95

Attention: Maree Doden

Lab Number: 9502G38-08

Reported: 03/10/95

PC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 82

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

QUOIA ANALYTICAL -\_ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-5@30-30.5

Sampled: 02/21/95 Received: 02/24/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9502G38-09

Extracted: 03/03/95 Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXA

nstrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Sample Results Analyte mg/Kg mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

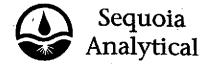
Surrogates n-Pentacosane (C25)

**Control Limits %** 150 50

% Recovery 103

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

SEQUOIA ANALYTICAL 🕝 ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

# Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-5@30-30.5

Sampled: 02/21/95 Received: 02/24/95

nstrument ID: GCHP01

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-09

Extracted: 03/01/95 Analyzed: 03/02/95

Reported: 03/10/95

Attention: Maree Doden

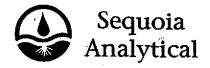
QC Batch Number: GC030195BTEXEXB

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 92

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Proj. !D: 310-038.1C/5430, San Leandro Sample Descript: U-5@35-35.5

Sampled: 02/21/95

San Jose, CA 95110 Attention: Maree Doden Matrix: SOLID

Received: 02/24/95 Extracted: 03/03/95

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-10

Analyzed: 03/07/95 Reported: 03/10/95

QC Batch Number: GC0303950HBPEXB

nstrument ID: GCHP4A

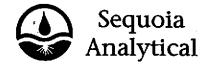
## Total Extractable Petroleum Hydrocarbons (TEPH)

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

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

SEQUOIA ANALYTICAL -

ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

 ■ Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sample Descript: U-5@35-35.5 Matrix: SOLID

Analysis Method: 8015Mod/8020

Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/02/95 Reported: 03/10/95

Sampled: 02/21/95

Attention: Maree Doden

Lab Number: 9502G38-10

QC Batch Number: GC030195BTEXEXB

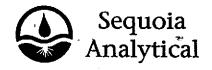
nstrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte .	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 87

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

EQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Fracific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-6@5-5.5

Sampled: 02/21/95 Received: 02/24/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: EPA 8015 Mod Extracted: 03/03/95 Analyzed: 03/06/95

Lab Number: 9502G38-11

Reported: 03/10/95

QC Batch Number: GC0303950HBPEXA

nstrument ID: GCHP4A

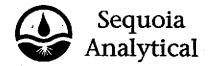
n-Pentacosane (C25)

## Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Sample Results Analyte mg/Kg mg/Kg 1.0 N.D. TEPH as Diesel Chromatogram Pattern: **Control Limits %** % Recovery Surrogates 150 84

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

EQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-038.1C/5430, San Leandro

Sampled: 02/21/95 Received: 02/24/95

Sample Descript: U-6@5-5.5 Matrix: SOLID Analysis Method: 8015Mod/8020

Extracted: 03/01/95 Analyzed: 03/02/95

Attention: Maree Doden

Lab Number: 9502G38-11

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

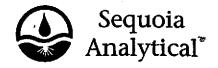
nstrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

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

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

QUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-6@15-15.5

Sampled: 02/21/95 Received: 02/24/95

Matrix: SOLID

Extracted: 03/03/95 Analyzed: 03/07/95

Analysis Method: EPA 8015 Mod

Reported: 03/10/95

Attention: Maree Doden

Lab Number: 9502G38-12

C Batch Number: GC0303950HBPEXB

nstrument 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 n-Pentacosane (C25)

**Control Limits %** 50

% Recovery

150

88

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

SEQUOJA ANALYTICAL -

**ELAP #1210** 



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

# Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-6@15-15.5

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-12

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95

Analyzed: 03/02/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

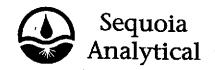
Attention: Maree Doden

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 85

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

SEQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: Sample Descript: U-6@20-20.5

310-038.1C/5430, San Leandro

Sampled: 02/21/95 Received: 02/24/95

Matrix: SOUD

Extracted: 03/03/95 Analysis Method: EPA 8015 Mod Analyzed: 03/06/95

Reported: 03/10/95

Attention: Maree Doden

Lab Number: 9502G38-13

QC Batch Number: GC0303950HBPEXB

nstrument 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 n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 82

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

EQUOIA ANALYTICAL -ELAP #1210



Redwood City, CA. 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) x686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sample Descript: U-6@20-20.5 Matrix: SOLID

Analysis Method: 8015Mod/8020

Lab Number: 9502G38-13

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/02/95 Reported: 03/10/95

2C Batch Number: GC030195BTEXEXB

nstrument ID: GCHP01

Attention: Maree Doden

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 75

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

SEQÜOIA ANALYTICAL - ELAP #1210



1900 Bates Avenue, Suite L Concord, CA 94520

Redwood City, CA 94063 819 Striker Avenue, Suite B Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-6@25-25.5

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95

**Attention: Maree Doden** 

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9502G38-14

Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

strument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

Surrogates n-Pentacosane (C25)

**Control Limits %** 50

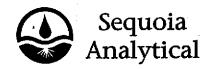
150

% Recovery

91

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

QUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686:9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

 ■ Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Proj. iD: 310-038.1C/5430, San Leandro Sample Descript: U-6@25-25.5

Sampled: 02/21/95 Received: 02/24/95

San Jose, CA 95110

Attention: Maree Doden

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-14

Extracted: 03/01/95 Analyzed: 03/02/95

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 88

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

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-6@30-30.5 Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-15

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95 Reported: 03/10/95

QC Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5B

Chromatogram Pattern:

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Sample Results Analyte mg/Kg mg/Kg TEPH as Diesel N.D. 1.0

Surrogates **Control Limits %** % Recovery n-Pentacosane (C25) 50 150 90

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

EQUOIA ANALYTICAL -ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

**Pacific Environmental Group** 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-6@30-30.5 Matrix: SOLID

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-15

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/02/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

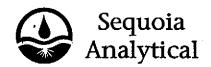
Attention: Maree Doden

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 87

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

EQUOIA ANALYTICAL - ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID:

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/03/95

Attention: Maree Doden

Sample Descript: U-6@35-35.5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9502G38-16

Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

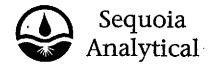
hstrument ID: GCHP5B

# Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Lim mg/Kg	nit	Sample Result mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	•••••	2.0
Non Diesel Mix	•••••		C9-C14
Surrogates n-Pentacosane (C25)	Control Limits	%	% Recovery
n-Pentacosane (C25)	50	150	90

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

QUQÍA ANALYTICAL 🕒



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID:

Sampled: 02/21/95

310-038.1C/5430, San Leandro Sample Descript: U-6@35-35.5 Matrix: SOLID

Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/02/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-16

Reported: 03/16/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP01

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte		De	etection Limit mg/Kg		Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:			10 0.050 0.050 0.050 0.050		0.088 0.36 1.7 2.4
Surrogates Trifluorotoluene	y	Coi 70	ntrol Limits %	130	6 Recovery 85

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

QÚÓIA ANALYTICAL - ELAP #1210



680 Chesapcake Drive 1900 Bates Avenue, Suite L

Redwood City, CA 94063 Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-6@35-35.5

Matrix: SOLID Analysis Method: 8015Mod/8020

Lab Number: 9502G38-16

Sampled: 02/21/95 Received: 02/24/95 Extracted: 03/01/95

Analyzed: 03/02/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

Instrument ID: GCHP01

Attention: Maree Doden

#### Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

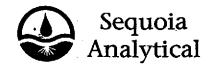
Analyte	Detection Limit	Sample Results
-	mg/Kg	mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	0.050 0.050	0.0088 0.36 1.7 2.4 Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	85

0.088 Collecto)

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

EQUOIA ANALYTICAL -

ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-7@5-5.5 Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-17

Sampled: 02/22/95 Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95 Reported: 03/10/95

DC Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5B

Attention: Maree Doden

#### Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	S	ample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0		27 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	150	Recovery 193 Q

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

EQUOIA ANALYTICAL - ELAP #1210

Eileen Manning roject Manager

Page:



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-7@5-5.5

Sampled: 02/22/95 Received: 02/24/95 Extracted: 03/01/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-17

Analyzed: 03/01/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP18

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 107

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

EQUÓIA ANALYTICAL -



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: Sample Descript: U-7@15-15.5

310-038.1C/5430, San Leandro

Sampled: 02/22/95 Received: 02/24/95 Extracted: 03/03/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: EPA 8015 Mod

Analyzed: 03/06/95

Lab Number: 9502G38-18

Reported: 03/10/95

QC Batch Number: GC0303950HBPEXB

nstrument ID: GCHP4A

# Total Extractable Petroleum Hydrocarbons (TEPH)

50

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

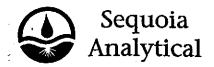
Surrogates n-Pentacosane (C25) **Control Limits %** 

% Recovery

150

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

SEQUÓIA ANALYTICAL - ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L. «Concord, CA 94520 819 Striker Avenue, Suite 8 - Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID:

310-038.1C/5430, San Leandro

Sampled: 02/22/95 Received: 02/24/95

Sample Descript: U-7@15-15.5 Maxrx: SOLID

Analysis Method: 8015Mod/8020

Extracted: 03/01/95 Analyzed: 03/01/95

Attention: Maree Doden

Lab Number: 9502G38-18

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP18

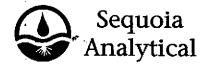
# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0050	N.D. N.D. N.D. N.D. <b>0.0090</b>
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 107

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

SEQUOIA ANALYTICAL -

ELAP\_#1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) -686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 68649689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-7@20-20.5

Sampled: 02/22/95 Received: 02/24/95

Matrix: SOLID

Extracted: 03/03/95 Analyzed: 03/06/95

Attention: Maree Doden

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-19

Reported: 03/10/95

QC Batch Number: GC0303950HBPEXB

Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

**Detection Limit** Sample Results **Analyte** mg/Kg mg/Kg

TEPH as Diesel 1.0 N.D. Chromatogram Pattern:

Surrogates Control Limits % % Recovery 150 n-Pentacosane (C25)

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

SEQUOIA ANALYTICAL -

ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (918) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

310-038.1C/5430, San Leandro Client Proj. ID: Sample Descript: U-7@20-20.5

Sampled: 02/22/95 Received: 02/24/95

Attention: Maree Doden

Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9502G38-19

Extracted: 03/01/95 Analyzed: 03/01/95 Reported: 03/10/95

DC Batch Number: GC030195BTEXEXB

nstrument ID: GCHP18

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.	
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 112	

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

EQUÓIA ANALYTICAL -

ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-7@25-25.5

Sampled: 02/22/95 Received: 02/24/95

Matrix: SOLID

Extracted: 03/03/95

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-20

Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5B

Attention: Maree Doden

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

Surrogates n-Pentacosane (C25)

**Control Limits %** 50

150

% Recovery

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

SEQUOIA ANALYTICAL -

ELAP #1210



Redwood City, CA 94063 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro

Sample Descript: U-7@25-25.5 Matrix: SOLID

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-20

Sampled: 02/22/95 Received: 02/24/95 Extracted: 03/01/95 Analyzed: 03/01/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXB

hstrument ID: GCHP18

Attention: Maree Doden

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte :	Detection Limit mg/Kg	Sample Results mg/Kg	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D.	
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 106	

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

EQUØIA ANALYTICAL

**ELAP #1210** 



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Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 \*\* FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-7@30-30.5

Matrix: SOLID

Analysis Method: EPA 8015 Mod

Lab Number: 9502G38-21

Sampled: 02/23/95

Received: 02/24/95 Extracted: 03/03/95 Analyzed: 03/06/95 Reported: 03/10/95

C Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5B

Attention: Maree Doden

# Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern:

1.0

N.D.

Surrogates n-Pentacosane (C25) Control Limits %

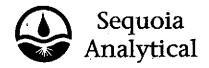
150

% Recovery

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

EQUÓJA ANALYTICAL 🕒

ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Concord, CA 94520

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-7@30-30.5

Sampled: 02/23/95 Received: 02/24/95

San Jose, CA 95110

Attention: Maree Doden

Matrix: SOLID

Extracted: 03/01/95

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-21

Analyzed: 03/01/95 Reported: 03/10/95

QC Batch Number: GC030195BTEXEXA

Instrument ID: GCHP18

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 107

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

SEQUOJÁ ANALYTICAL - ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Proj. ID: 310-038.1C/5430, San Leandro Sample Descript: U-7@35-35.5

Sampled: 02/23/95 Received: 02/24/95

San Jose, CA 95110

Matrix: SOLID

Extracted: 03/03/95

Attention: Maree Doden

Analysis Method: EPA 8015 Mod Lab Number: 9502G38-22

Analyzed: 03/06/95 Reported: 03/10/95

QC Batch Number: GC0303950HBPEXB

nstrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit** mg/Kg

Sample Results mg/Kg

TEPH as Diesel Chromatogram Pattern: 1.0

N.D.

Surrogates n-Pentacosane (C25)

**Control Limits %** 50

% Recovery

150

94

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

**EQUOÍA ANALYTICAL** - ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Concord, CA 94520

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Proj. ID: Sample Descript: U-7@35-35.5

310-038.1C/5430, San Leandro

Sampled: 02/23/95 Received: 02/24/95

San Jose, CA 95110

Matrix: SOLID

Extracted: 03/01/95 Analyzed: 03/01/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9502G38-22

Reported: 03/10/95

QC Batch Number: GC030195BTEXEXA Instrument ID: GCHP18

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 108

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

SEQUÕIA ANALYTICAL -

ELAP #1210



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Maree Doden Attention:

Client Proj. ID: 310-038.1C/5430, San Leandro

Received: 02/24/95

Lab Proj. ID: 9502G38

Reported: 03/10/95

#### LABORATORY NARRATIVE

- Co-elution confirmed.

EQUOIA ANALYTICAL



Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-038.1C/5430, San Leandro

Matrix:

SOLID

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9502G38

01-03, 10, 12-22

Reported:

Mar 13, 1995

COC #:

#### QUALITY CONTROL DATA REPORT

Analyte:

Diesel

QC Batch#: GC0303950HBPEXB Analy. Method: Prep. Method:

**EPA 8015M EPA 3550** 

Analyst: MS/MSD #: B. Ali

Sample Conc.: Prepared Date: 9502G3802 N.D. 3/3/95

Analyzed Date:

3/6/95

Instrument I.D.#: Conc. Spiked:

GCHP5 15 mg/Kg

Result: MS % Recovery: 13 87

Dup. Result: MSD % Recov.:

12 80

RPD:

8.0

RPD Limit:

0-50

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#:

Conc. Spiked:

LCS Result: LCS % Recov.:

MS/MSD

LCS

38-122

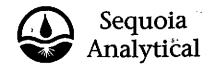
Control Limits

\$€QUOIA ANALYTICAL

Eileen A. Manning 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.



Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX: (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

San Jose, CA 95110

Attention: Maree Doden

Client Project ID: 310-038.1C/5430, San Leandro

Matrix: SOLID

Work Order #:

9502G38 04-09, 11 Reported:

Mar 13, 1995

COC #:

#### QUALITY CONTROL DATA REPORT

Analyte:

Diesel

QC Batch#: GC0303950HBPEXA Analy. Method: Prep. Method:

**EPA 8015M** 

EPA 3550

Analyst:

B. Ali

MS/MSD #:

9502G3822

Sample Conc.:

N.D.

Prepared Date:

3/3/95

Analyzed Date:

3/6/95

Instrument I.D.#: Conc. Spiked:

GCHP5

15 mg/Kg

Result: MS % Recovery:

15 100

Dup. Result:

MSD % Recov.:

15 100

RPD:

0.0

**RPD Limit:** 

0-50

LCS #:

Prepared Date:

Analyzed Date:

Instrument I.D.#:

Conc. Spiked:

LCS Result:

LCS % Recov.:

MS/MSD

LCS

38-122

**Control Limits** 

SEQUOIA ANALYTICAL

Eileen A. Manning 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

9502G38.PPP <2>



Redwood City, CA 94063 Concord, CA 94520 \* Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-038.1C/5430, San Leandro

Matrix:

SOLID

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9502G38 01-20 Reported:

Mar 13, 1995

#### **QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
	GC030195BTEXEXB	GC030195BTEXEXB	GC030195BTEXEXB	GC030195BTEXEXB	:
Analy. Method:		EPA 8020	EPA 8020	EPA 8020	:
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan	
MS/MSD #:		9502G0706	9502G0706	9502G0706	
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:	3/1/95	3/1/95	3/1/95	3/1/95	
Analyzed Date:	3/1/95	3/1/95	3/1/95	3/1/95	
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
Result:	0.18	0.19	0.20	0.58	
MS % Recovery:	90	95	100	97	
Dup. Result:	0.18	0.19	0.19	0.57	
MSD % Recov.:		95	95	95	
RPD:	0.0	0.0	5.1	1.7	
RPD Limit:		0-50	0-50	0-50	
******************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#:

Conc. Spiked:

LCS Result: LCS % Recov.:

MS/MSD
LCS
Control Limits

55-145

47-149

47-155

SEQUOIA ANALYTICAL

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.



Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-038.1C/5430, San Leandro

Matrix:

SOLID

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9502G38 2

21-22

Reported:

Mar 13, 1995

#### **QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
		÷	Benzene		
QC Batch#:	GC030195BTEXEXA	GC030195BTEXEXA	GC030195BTEXEXA	GC030195BTEXEXA	ĺ
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020 .	i
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	
MS/MSD #:		9502F7218	9502F7218	9502F7218	
Sample Conc.:		. N.D.	N.D.	N.D.	
Prepared Date:		3/1/95	3/1/95	3/1/95	
Analyzed Date:		3/1/95	3/1/95	3/1/95	
Instrument I.D.#:		GCHP1	GCHP1	GCHP1	
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
Result:	0.20	0.21	0.22	0.64	
MS % Recovery:	100	105	110	107	
Dup. Result:	0.19	0.20	0.20	0.61	
MSD % Recov.:		100	100	102	•
RPD:	5.1	4.9	9.5	4.8	
RPD Limit:		0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

LOC Beauty

LCS Result: LCS % Recov.:

MS/MSD LCS Control Limits

55-145

47-149

47-155

56-140

SECUCIA ANALYTICAL

Eileen A. Manning 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.

	S S	EQUOIA ANAL)	TICAL	SA	MPLE	RECEIPT LOG								
CLIENT NAME: REC. BY (PRINT):	PEG- CA		•			ORDER: DF LOG-IN:	9	15620 1127	93 145	8				-
CIRCLE THE APPROPRIA	TE RESPONSE	LAB SAMPLE	DASH	1	<u> </u>	CLIENT		TAINER	l	APLE TOLY	DAT		REMARKS CONDITION(E	
1. Custody Seal(s)	Present Ansent	#	#	-				RIPTION		TRIX			CONDITION	<u>, U.)</u>
	Intact / Broken*	01	A	10	-4	@5-S,5	10	ORE	<u>&gt;c</u>	14	2/2	3_		
2. Custody Seal Nos.:	Put in Remarks Section	02	_	$\prod$		15-15.5	<u> </u>	1						
3. Chain-of-Custody	•	03		$\downarrow \downarrow$		25 -25.5	1	<u> </u>		<del>                                     </del>	-			
1	Present Absent	04	_ _			30 - 30,5	I	<del> </del>	<del>                                     </del>	-				
4. Traffic Reports or		05		4	<u> </u>	<u> </u>		<u> </u>	<del>                                     </del>					
Packing List:	Present FAbsent	06	1-1-	$\bot$	<u>-5</u>	@ 5-5,5	<u> </u>	<del> </del>	<del> </del>					
-5. Airbili:	. Airbill / Sticker	07	$\bot \downarrow$	$\downarrow \downarrow$		15-15.5			-	<del> </del>	-			
	Present /Absen	08	<del>                                     </del>	-  -		25-255	<del> </del>	<b> </b>			╁┼	<del></del>	,	
6. Airbill No.:		59	<u> </u>	_  _		<u> 30 - 30,5</u> '	<u>                                      </u>	<del> </del>	-		++			
7. Sample Tags:	Present / Absent*	10	1 -	-  -	<u> </u>			<del>\</del>	<del>  </del>	· · · · · ·	┼┼			
Sample Tag Nos.:	Listed & Not Listed	11		$\parallel$	<u>-60</u>	D 5-5,5	<del> </del>	<del> </del>	+		╁┼			
	on Chain-of-Custody	12	<del>                                     </del>		-	15-15.5		<del>-                                    </del>	+		┼╂			
8. Sample Condition:	dnlacty Broken* / Leaking*	13	11	$\parallel$	-	20-20,5	<del> </del>					<u>,</u>		
9. Does information on	custody	14	11_	_   -	_	25-25,5	-		-	ļ <u>.</u>	┦╂			
reports, traffic report		15		_  _		30 - 30,5	<del> </del>	_	-	<del> </del> -	++			
sample tags agree?		16		_   _	Ψ	<u> 35- 35.5</u>	<del> </del>	_	<del> </del>	<del>                                     </del>	+			
10. Proper preservatives		17		$\parallel$	<u>-7(</u>	985-55	<del> </del>	_	-	<del> </del>	┤┤┤			
used:	<b>€</b> \$1 No*	183		_	_	15-15.5			-	<del>                                     </del>	╂			
44 Data Pag at Lab	2-24-95	19				20-205		<u> </u>	1.	<del>//_</del>		<del> </del>		

11. Date Rec. at Lab:

12. Temp. Rec. at Lab:

2-24-95

13°C

1610

<sup>13.</sup> Time Rec. at Lab: \* if Circled, contact Project manager and attach record of resolution

CLIENT NAME:	PEG			WORKOR DATE OF		950 21	RG38 27/95	}	-
REC. BY (PRINT):	CA		·	·		CONTAINED	SAMPLE	DATE	REMARKS:
CIRCLE THE APPROPRIAT	TE RESPONSE	LAB SAMPLE			LIENT	CONTAINER		i l	CONDITION(ETC.)
1. Custody Seal(s)	Present / Absent>	#	#			DESCRIPTION ICORE	Sold	2/23	55115111511(21.57)
	Intact / Broken*	21	A	<del></del>	130-305	V	7010	V	
2. Custody Seal Nos.:	Put in Remarks Section	22	4	4	3535.5			-	****
3. Chain-of-Custody	·								
Records: C	Present/ Absent*		-	<u> </u>			. /		
4. Traffic Reports or			<u> </u>	<u> </u>					
Packing List:	Present / Absent			<u> </u>		. 7		<del>                                     </del>	
5. Airbill:	Airbill / Sticker		ļ <u> </u>			107			
	Present / Absent				- \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	13			
6. Airbill No.:					787				
7. Sample Tags:	Present / Absent*		<del> </del>		-4/-				
Sample Tag Nos.:	Listed / Not Listed			_ n	J/				
	on Chain-of-Custody		<del>                                     </del>						
<b>3</b> , 32,	Intact / Broken* / Leaking*		1						
9. Does information on			1.3						
reports, traffic reports	_	1							
sample tags agree?			7						
10. Proper preservatives									
used:	(e)/No* 2-24-95		1						
11. Date Rec. at Lab:	1302	1	1				<b>—</b>	<u> </u>	-
12. Temp. Rec. at Lab:	1610	, <del>L</del>							

<sup>\*</sup> if Circled, contact Project manager and attach record of resolution

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" OIA			W

⊔ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600

☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

⊔ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800 .

·		<u>-</u>
Company Name: Pacific Environmental group	Project Name: Unicel - 1935 Washington SAN Can	, aro
Address: 2025 gatinay Place # 440	UNOCAL Project Manager: DAVE CAMITU	
City: SAN JOSE State: CA Zip Code: 95110	Release #: 310 - 038 /C	<u> </u>
Telephone: 408 441- 7500 FAX #408 441 7539	_   /	Client
Telephone. 7.00		\ <u>`</u>
	Drinking Water Analyses Requested	<u>j</u>
	Waste Water Asylvania	
	Other 7	
Client Date/Time Matrix # of Cont. Labora	atory 9507/63/8 Comments	
Sample I.D. Sampled Desc. Cont. Type Sample	- ' <b>//\</b> \\ / \/ / / / \/\\\\\\\\\\\\\\\\\\	1
1.11-4 05-5.5 2/21/95 3 1 2x6	X X -01	- l aboratory
2.4-4 @ 15-15.5	102	
34-4825-25.5	- 3	
4.U-4P 30-30-5	+64	
5.U-4@35-35.5	-65	
6U-5@5-5.5 2/21/95	-06	
7.4-5 @15-15.51	101	
	-08	
8U-5 @ 35-255 9U-5 @ 30-305 /	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1041 50 35 355	1 10	
10. U-5@35-355 V V V		
Relinquished By: CJ NotoSicky Date: 2495 Time: 0	1700 Received By: 1 ) State 24/95 Time: 0800	<u> </u>
	4/1/1/2016 2:25	
Relinquished By. Date: 124 AS Time: 15		
Relinquished By: Date: 2/24 Time: 4	1/0 Received By Lab: Charle Ou Date: 2/24 Time: 1610	<u>,                                    </u>
Were Samples Received in Good Condition? Yes □ No Samples on	n Ice? ♣ Yes ☐ No Method of Shipment Page L of	2
To be completed upon receipt of report:		
I I I I I I I I I I I I I I I I I I I	Yes I No If no, what analyses are still needed? —————————————————————————————————	
	Company: Date:	
Approved by: Signature:		

# UNOCAL 76

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☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

6-9600 U 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800 •

	<del>.</del>
ompany Name: Pacific ENVIRONMENTAL Group Project Name: 1935 WAShington SAN C	Midro
Idress: 2025 Gateway P1 #440 UNOCAL Project Manager: DAVE CAMITLE	
ty: 5m Jose State: CA zip Code: 95/10 Release #: 310 - 038 . 1C	
elephone: 408 441 7500 FAX#: 408 441 7537 Site #: 5430	į
To accome at the do Clark	Level A
urnaround 🖼 10 Work Days 🚨 5 Work Days 🚨 3 Work Days 💢 Drinking Water Analyses Requested	Ċ
Ime: 🔲 2 Work Days 🔲 1 Work Day 🔲 2-8 Hours 🔲 Waste Water	<del></del>
CODE:   Misc.   Detect.   Eval.   Remed.   Demol.   Closure   Other	
Client Date/Time Matrix # of Cont. Laboratory	Comments
U-6@5-5.5 2/21/95 S 1 2x/6 X 1	
4-6815-155 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4-6@ 20-25	
U-6@ 25-255 -14	
U-6@30-305 /, -15	
u-6@35-35.5-V	
4-705-55 2/22/95	
187 @15-15-5 1 -18	
4-7-820-20.5/	
0.4-7@25-25.5	
	<del></del>
Relinquished By: ( ) 1051 Clay Date: 2/14/95 Time: 0700 Received By: ( ) CX 2 Date 2/14/95 Time:	
Relinquished By: Date 24/15 Time: 1520 Received By: Date 27/25 Time:	3:25
Relinquished By: Date: 2/24 Time: 4:10 Received By Lab: Chers Un Date: 2/24/20 Time:	1610
	je <u>Z</u> of <b>3</b> —
o be completed upon receipt of report:	
1) Were the analyses requested on the Chain of Custody reported?   Yes  No If no, what analyses are still needed?   Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time?	
pproved by:Company:D	

# UNOCAL 76

- Q 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- 1900 Bates Ave., Suite LM Concord, CA 94520 (510) 686-9600
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200 \*
- 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800 •

Company Name: Pacific Environ mental from Project Name: 1935 Washing fon Ave SAN leandn
Address: 2025 gateury P1 # 440 UNOCAL Project Manager: DAVE CAMUILE
C. 1-7 - 1 Co 9 - 9 - 10 - 0 - 20 10
City: 5/10 Jose State: 04 Zip Code: 15/10 Release #: 510 0 58. (C)  Telephone: 408 441-7500 FAX #: 408 441, 77-90 Site #: 5430
Report To: Jue Muzzia Sampler: CJ Motosicky QC Data: WLevel D (Standard) Level C Level B Level A
Turnaround (1) 0 Work Days
Time:
CODE:   Misc.   Detect Eval.   Remed.   Demol.   Closure   Other
Client Date/Time Matrix # of Cont. Laboratory Sample I.D. Sampled Desc. Cont. Type Sample # Comments
1.11-7-630-305 2 23/95 5 1 2×6 XXX -21
1. U-7-G3-305 7 73/95 5 1 2×6 2. U-7-C35-355 V V V V V V V V V V V V V V V V V V
4.
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A Profession / 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Relinquished By: Totology Date: 2/24/9/Time: 0 700 Received By: Date: 24/98 Time: 0800
Relinquished By: Date: 240 STime: 1520 Received By: Date2/24 Time: 3, 25
Relinquished By: Mate: 2/24 Time: 4:10 Received By Lab: Challe Date: 2/24 Time: 1610
Were Samples Received in Good Condition? Yes \(\mathbb{\text{No.}}\) No Samples on Ice? Yes \(\mathbb{\text{No.}}\) Method of Shipment Page 3 of 3
To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported?   Yes  No If no, what analyses are still needed?  Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time?
Approved by:Signature:Company:Date: