PACIFIC
ENVIRONMENTAL
GROUP, INC.

1138

December 12, 1997
Project 360-014.2B

Mr. Dennis Buran
Glascock Street Properties
425 Market Street
Oakland, California 94607

Re: Quarterly Report - Third Quarter 1997
Former Dorr-Olive Site
2901 Glascock Street
Oakland, California

Dear Mr. Buran:

The following presents the results of third quarter 1997 monitoring for the site referenced above (Figure 1). This letter has been prepared for Glascock Street Properties by Pacific Environmental Group, Inc. (PACIFIC).

SCOPE OF WORK

All seven existing groundwater monitoring wells (MW–1 through MW-4, and MW-6 through MW-8; Figure 2) were gauged and sampled by PACIFIC on September 29, 1997. The depth to groundwater and groundwater analytical data are presented in Tables 1 through 3. The wells were sampled and analyzed for the presence of total purgeable petroleum hydrocarbons calculated as gasoline (TPPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), total extractable petroleum hydrocarbons calculated as diesel (TEPH-d), motor oil, and methyl tert-butyl ether (MtBE). Depth to groundwater, benzene, and TEPH-d concentrations for the third quarter 1997 sampling event are shown on Figure 2. The certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment A.

GROUNDWATER LEVELS

The average groundwater level in site monitoring wells was within 0.25 feet of the last monitoring event (Table 1). Groundwater flow is still generally to the south/southwest (toward the Oakland Estuary), consistent with previous measurements, at a gradient of approximately 0.017 (Figure 2). Groundwater elevations were within the historic range for the site.

GROUNDWATER QUALITY

Four wells (MW-1, MW-2, MW-3, and MW-6) were reported to have detectable concentrations of TPPH-g. The chromatogram for Well MW-3 showed unidentified hydrocarbons in the C_9 through C_8 range which did not match the gasoline standard. The maximum concentration of TPPH-g in site wells this quarter was reported as 510 micrograms per liter (µg/L) in Well MW-1, and was reported as a weathered gasoline. Benzene was detected in Wells MW-1, MW-2, and MW-6 at 2.2, 1.3, and 2.6 µg/L, respectively. MtBE was detected in three wells this quarter (MW-1, MW-6, and MW-7); the maximum concentration of MtBE detected was 310 µg/L in upgradient Well MW-7.

No measurable separate-phase hydrocarbons were found in site monitoring wells this quarter. TEPH-d remains the primary constituent found in groundwater. The highest TEPH-d concentrations were found in Wells MW-1, MW-2, and MW-6 (Figure 2), and was characterized as a weathered diesel. The chromatograms for two other wells, MW-3 and MW-4, contained unidentified hydrocarbons in the C_9 through C_{24} range which did not match the diesel standard (Attachment A).

No wells were reported to have detectable concentrations of motor oil. The laboratory quantified hydrocarbons in the C_{16} to C_{36} range while running the analysis for motor oil; however, the laboratory narrative at the end of the CARs specifically indicate that no motor oil was detected (Attachment A). The hydrocarbons quantified in the motor oil analysis for Wells MW-1, MW-2, and MW-6 are a combination of a portion of weathered diesel from C_{16} through C_{24} and unidentified hydrocarbons in the C_{24} through C_{36} range.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Andrew D. Lehane
Project Engineer
RCE 55798

REGISTERED PROFESSIONAL ENGINEER
ANDREW D. LEHANE
55798
EXP. 12/31/00
CIVIL
STATE OF CALIFORNIA

Table 1
Groundwater Elevation Data

Former Dorr-Oliver Site
2901 Glascock Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	10/06/94	10.76	NA	NA
	01/20/95		6.67	4.09
	05/15/95		7.08	3.68
	08/28/95		8.06	2.70
	12/06/95		8.24	2.52
	01/18/96	10.76	6.35	4.41
	03/08/96		6.52	4.24
	07/02/96		8.35	2.41
	12/17/96		6.85	3.91
	03/21/97		7.90	2.86
	06/25/97		9.20	1.56
	09/29/97		8.90	1.86
MW-2	10/06/94	10.62	7.17	3.45
	01/20/95		4.64	5.98
	05/15/95		5.66	4.96
	08/28/95		6.26	4.36
	12/06/95		7.30	3.32
	01/18/96	10.63	4.85	5.78
	03/08/96		4.38	6.25
	07/02/96		6.60	4.03
	12/17/96		5.10	5.53
	03/21/97		6.25	4.38
	06/25/97		8.01	2.62
	09/29/97		8.45	2.18
MW-3	10/06/94	9.87	6.57	3.30
	01/20/95		4.47	5.40
	05/15/95		5.08	4.79
	08/28/95		6.18	3.69
	12/06/95		6.44	3.43
	01/18/96	9.87	4.15	5.72
	03/08/96		4.76	5.11
	07/02/96		6.45	3.42
	12/17/96		4.92	4.95
	03/21/97		5.72	4.15
	06/25/97		6.35	3.52
	09/29/97		6.35	3.52
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69
	05/15/95		6.28	4.36
	08/28/95		7.38	3.26
	12/06/95		7.80	2.84
	01/18/96	10.64	5.60	5.04
	03/08/96		5.93	4.71
	07/02/96		7.95	2.69
	12/17/96		6.35	4.29
	03/21/97		7.30	3.34
	06/25/97		7.95	2.69
	09/29/97		7.65	2.99

Table 1 (continued)
Groundwater Elevation Data

Former Dorr-Oliver Site
2901 Glascock Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-5	05/15/95	10.61	7.54	3.07
	08/28/95		8.44	2.17
	12/06/95		8.34	2.27
	01/18/96	10.61	7.15	3.46
	03/08/96		7.54	3.07
	07/02/96		9.45	1.16
	12/17/96		NA a	NA
MW-6	05/15/95	10.27	7.46	2.81
	08/28/95		8.06	2.21
	12/06/95		8.78	1.49
	01/18/96	10.28	7.85	2.43
	03/08/96		8.64	1.64
	07/02/96		11.50	-1.22
	12/17/96		9.40	0.88
	03/21/97		9.00	1.28
	06/25/97		11.50	-1.22
	09/29/97		9.95	0.33
MW-7	05/15/95	9.85	3.46	6.39
	08/28/95		4.49	5.36
	12/06/95		5.04	4.81
	01/18/96	9.86	3.10	6.76
	03/08/96		3.18	6.68
	07/02/96		4.40	5.46
	12/17/96		3.45	6.41
	03/21/97		3.75	6.11
	06/25/97		4.75	5.11
	09/29/97		5.05	4.81
MW-8	01/18/96	10.61	7.15	3.46
	03/08/96		NA	NA
	07/02/96		10.80	-0.19
	12/17/96		8.52	2.09
	03/21/97		8.60	2.01
	06/25/97		10.27	0.34
	09/29/97		8.75	1.86

MSL = Mean sea level
TOC = Top of casing
NA = Not available
a. Well MW-5 was destroyed in September 1996.

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, MtBE, and Dissolved Oxygen)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)	Dissolved Oxygen (ppm)
MW-1	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
	01/20/95	670	5.3	ND	ND	1.1	1,900	NA	NA	NA
	05/15/95	290	7.9	ND	ND	1.4	3,400	NA	NA	NA
	08/28/95	250	5.4	ND	ND	1.1	1,800	NA	NA	NA
	11/29/95	NA	NA	NA	NA	NA	ND	ND	NA	NA
	12/06/95	770	4.8	ND	ND	1.3	39,000	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	23,000	NA	NA	NA
	03/08/96	360	2,600	ND	ND	1.9	16,000	NA	24	NA
	07/02/96	5,300 a	ND	ND	ND	ND	6,600	ND	ND	NA
	12/17/96	540 b	3.4	ND	ND	0.83	2,800 c	1,600 d	60	NA
	03/21/97	590	5.5	0.66	ND	ND	5,500 e	5,000 d	71	NA
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA	1
	06/25/97	470 h	ND	ND	ND	ND	39,000 e	26,000 d	45	3
	09/29/97	510 h	2.2	ND	ND	ND	5,000 e	4,000 d	37	NA
MW-2	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
	01/20/95	520	2.2	1.9	ND	1.3	4,000	NA	NA	NA
	05/15/95	310	2.3	1.9	ND	1.4	5,100	NA	NA	NA
	08/28/95	320	2.9	2.9	ND	2.6	4,100	NA	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
	12/06/95	210	2.0	2.2	ND	0.57	17,000	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	22,000	NA	NA	NA
	03/08/96	310	2.4	1.9	ND	1.4	56,000	NA	ND	NA
	07/02/96	9,300 a	ND	ND	ND	ND	19,000	ND	ND	NA
	12/17/96	140 b	1.1	2.0	ND	1.4	10,000 e	5,400 d	ND	NA
	03/21/97	230	2.1	1.9	ND	ND	17,000 e	16,000 d	ND	NA
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA	1
	06/25/97	630 h	ND	ND	ND	ND	16,000 e	13,000 d	ND	3
	09/29/97	300 h	1.3	0.66	ND	ND	32,000 e	20,000 d	ND	NA
MW-3	10/06/94	NA	ND	ND	ND	ND	320	NA	NA	NA
	01/20/95	86	ND	ND	ND	ND	460	NA	NA	NA
	05/15/95	60	ND	ND	ND	ND	310	NA	NA	NA
	08/28/95	ND	ND	ND	ND	ND	310	NA	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
	12/06/95	120	ND	ND	ND	ND	1,000	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	210	NA	NA	NA
	03/08/96	67	ND	ND	ND	ND	1,000	NA	7.2	NA
	07/02/96	230 a	ND	ND	ND	ND	640	ND	ND	NA
	12/17/96	240 f	ND	ND	ND	ND	560 e	ND	ND	NA
	03/21/97	760 h	ND	ND	ND	0.94	2,100 e	1900 d	5.6	NA
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	180 h	ND	ND	ND	0.58	610 g	ND	5.3	NA
	09/29/97	84 i	ND	ND	ND	ND	470 g	ND	ND	NA
MW-4	10/06/94	NA	ND	ND	ND	ND	ND	NA	NA	NA
	01/20/95	ND	ND	ND	ND	ND	ND	NA	NA	NA
	05/15/95	ND	ND	ND	ND	ND	ND	NA	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, MtBE, and Dissolved Oxygen)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)	Dissolved Oxygen (ppm)
MW-4	12/06/95	ND	ND	ND	ND	ND	57	NA	NA	NA
(cont.)	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA	NA
	03/08/96	ND	ND	ND	ND	ND	100	NA	ND	NA
	07/02/96	ND	ND	ND	ND	ND	ND	ND	ND	NA
	12/17/96	ND	ND	ND	ND	ND	310 g	530 d	ND	NA
	03/21/97	ND	ND	ND	ND	ND	180 g	500 d	ND	NA
	06/25/97	ND	ND	ND	ND	ND	120 g	ND	ND	NA
	09/29/97	ND	ND	ND	ND	ND	130 g	ND	ND	NA
MW-5*	05/15/95	ND	ND	ND	ND	ND	490	NA	NA	NA
	08/28/95	ND	ND	ND	ND	ND	170	NA	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
	12/06/95	ND	ND	ND	ND	ND	250	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	49	NA	NA	NA
	03/08/96	ND	ND	ND	ND	ND	210	ND	12	NA
	07/02/96	200 a	ND	ND	ND	ND	110	ND	ND	NA
MW-6	05/15/95	120	5.6	0.88	ND	2.1	1,100	NA	NA	NA
	08/28/95	140	6.1	0.77	ND	2.3	2,100	NA	NA	NA
	11/29/95	NA	NA	NA	NA	NA	35,000	5,400	NA	NA
	12/06/95	140	4.6	0.89	ND	1.7	38,000	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	59,000	NA	NA	NA
	03/08/96	160	3.4	0.57	ND	1.9	14,000	NA	ND	NA
	07/02/96	3,300 a	3.1	ND	ND	ND	2,300	1,300	ND	NA
	12/17/96	150 b	3.4	0.93	ND	1.7	15,000 e	14,000 d	14	NA
	03/21/97	300	3.5	0.91	ND	0.79	18,000 e	17,000 d	19	NA
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA	1
	06/25/97	590 h	3.2	ND	ND	ND	9,300 e	7,900 d	15	4
	09/29/97	490 h	2.6	0.83	ND	1.5	7,900 e	7,900 d	13	NA
MW-7	05/15/95	110	ND	ND	ND	ND	ND	NA	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/95	62	ND	ND	ND	ND	ND	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA	NA
	03/08/96	ND	ND	ND	ND	ND	ND	NA	ND	NA
	07/02/96	ND	ND	ND	ND	ND	ND	ND	580	NA
	12/17/96	ND	ND	ND	ND	ND	120 g	ND	100	NA
	03/21/97	ND	ND	ND	ND	ND	79 g	ND	190	NA
	06/25/97	ND	ND	ND	ND	ND	58 g	ND	580	NA
	09/29/97	ND	ND	ND	ND	ND	ND	ND	310	NA
MW-8	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA	NA
	03/08/96	NS	NS	NS	NS	NS	NS	NS	NS	NA
	07/02/96	ND	0.74	0.88	ND	0.82	ND	ND	ND	NA
	12/17/96	ND	ND	ND	ND	ND	53 g	ND	ND	NA

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, MtBE, and Dissolved Oxygen)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)	Dissolved Oxygen (ppm)
MW-8	03/21/97	ND	ND	ND	ND	ND	ND	ND	ND	NA
(cont.)	06/25/97	ND	ND	ND	ND	ND	ND	ND	ND	NA
	09/29/97	ND	ND	ND	ND	ND	ND	ND	ND	NA

TPPH = Total purgeable petroleum hydrocarbons
TEPH = Total extractable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
ppm = Parts per million
NS = Not sampled
ND = Not detected (see CARs for detection limit)
NA = Not analyzed
* = Well MW-5 was destroyed in September 1996.

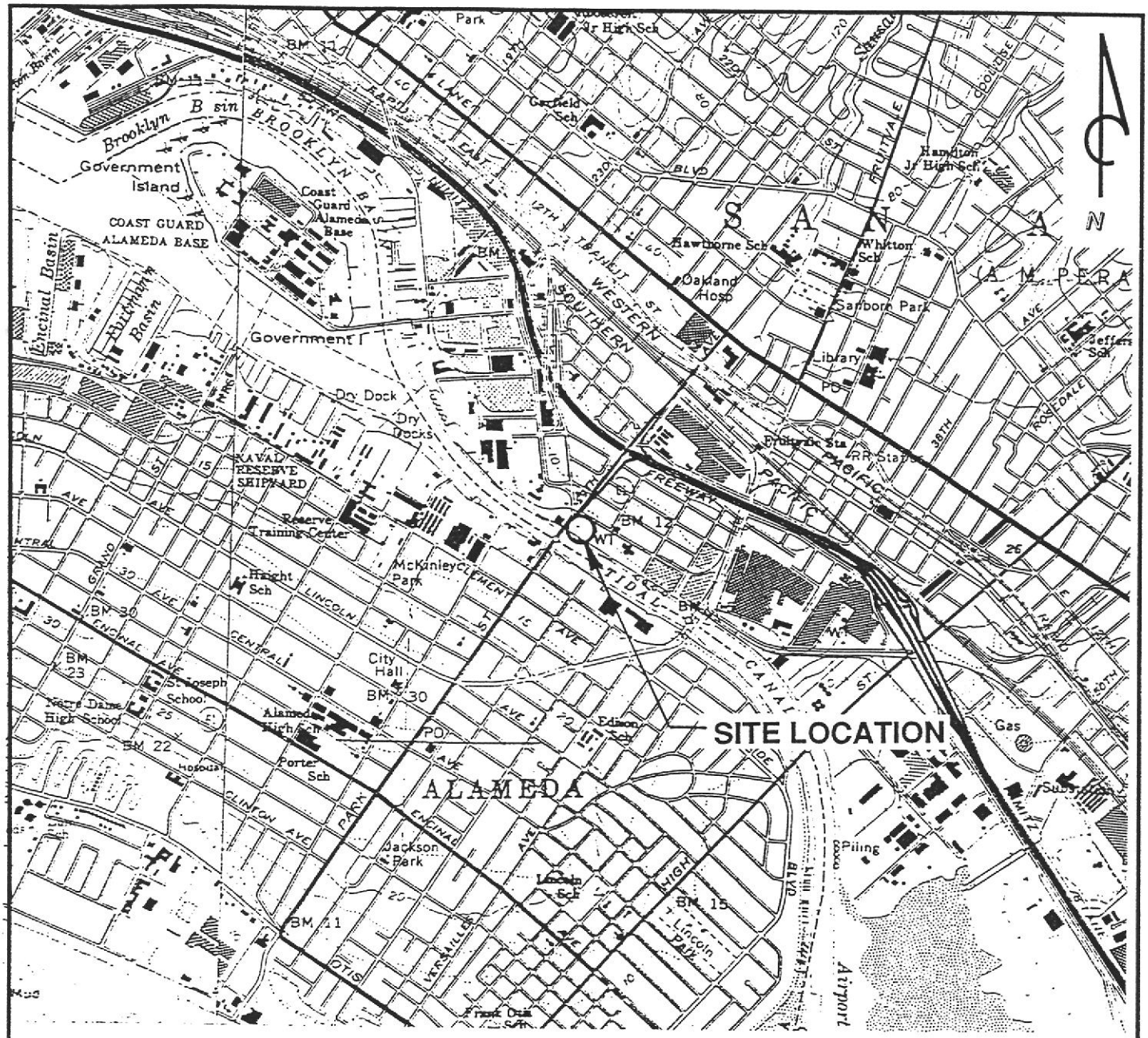
a. Chromatogram pattern is not gasoline, but volatile fraction of diesel quantified as gasoline.
b. Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C12 range.
c. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in C9 - C24 range.
d. Chromatogram pattern is not motor oil, but unidentified hydrocarbons in C16 - C36 range.
e. Chromatogram pattern is weathered diesel in C9 - C24 range.
f. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C10.
g. Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C24 range.
h. Chromatogram pattern is weathered gasoline.
i. Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C8 range.

Table 3
Groundwater Analytical Data
PCBs, Metals, and VOCs

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	PCBs (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)	VOCs (µg/L)	
MW-1	11/29/95	NA	NA	NA	NA	NA	NA	ND	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	51.2	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND	a
	01/18/96	NA	ND	ND	ND	ND	20.5	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-5	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	22.6	NA	
MW-6	11/29/95	ND	ND	822	107	1,190	851	ND	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	ND	0.14	ND	0.2	0.18	ND	d
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND	b
	01/18/96	NA	ND	ND	ND	ND	25.1	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND	c
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	ND	0.54	ND	0.69	0.42	ND	

PCBs = Polychlorinated bi-phenyls
VOCs = Volatile organic compounds
µg/L = Micrograms per liter
ND = Not detected (see CARs for detection limit)
NA = Not analyzed
a. 0.61 µg/L 1,1-Dichloroethane
b. 0.79 µg/L 1,1-Dichloroethane
0.74 µg/L *trans*-1,2-Dichloroethene
c. 0.53 µg/L Vinyl Chloride
1.3 µg/L Trichloroethene
d. 2.5 µg/L Chloroethene
0.97 µg/L 1,1-Dichloroethane
3.4 µg/L *trans*-1,2-Dichloroethene
1.4 µg/L Vinyl Chloride



QUADRANGLE LOCATION

REFERENCES:

USGS 7.5 MIN. TOPOGRAPHIC MAP
TITLED: OAKLAND EAST, CALIFORNIA
DATED: 1959 REVISED: 1980
TITLED: OAKLAND WEST, CALIFORNIA
DATED: 1959 REVISED: 1980

SCALE IN FEET

2000 0 2000

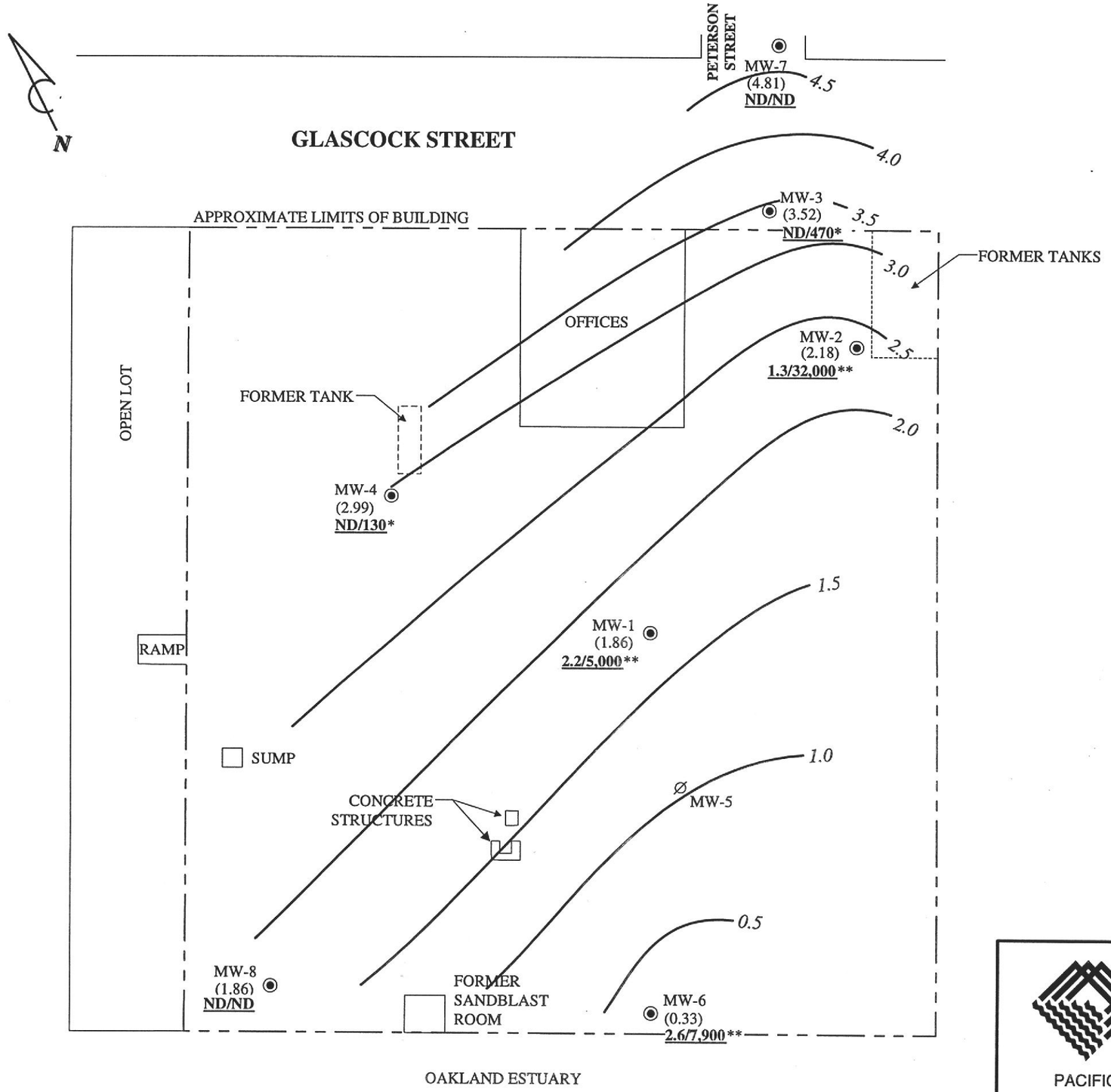
PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

SITE LOCATION MAP

FIGURE: 1

PROJECT: 360-014.2B



Reference: 360/014/Sitemp40.vsd

LEGEND

MW-4 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

MW-5 Ø DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(2.18) GROUNDWATER ELEVATION IN FEET - MSL, 9-29-97

2.0 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 9-29-97

2.2/5,000 BENZENE/TEPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 9-29-97

ND NOT DETECTED

* NOT DIESEL; UNIDENTIFIED HYDROCARBONS C9-C24

** WEATHERED DIESEL C9-C24

APPROXIMATE GRADIENT = 0.017

APPROXIMATE SCALE

0 40 80 FEET

PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE:

GROUNDWATER MONITORING MAP - THIRD QUARTER 1997

PREPARED FOR:

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

DATE: 5-1-97 | PROJECT: 360-014.2B | FIGURE: 2

ATTACHMENT A

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 92[illegible]

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-01

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	5000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	147

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-01

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	2000	4000
Chromatogram Pattern: **Unidentified HC**		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	147

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

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Pacific Environmental Group
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Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9709F01-01

Sampled: 09/29/97
Received: 09/30/97

Analyzed: 10/13/97
Reported: 10/17/97

QC Batch Number: GC101397BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**510**
Methyl t-Butyl Ether	**2.5**	**37**
Benzene	**0.50**	**2.2**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-02

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	2500	32000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

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

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

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-02

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	25000	20000
Chromatogram Pattern:		
Unidentified HC		C16-C36

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

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9709F01-02

Sampled: 09/29/97
Received: 09/30/97

Analyzed: 10/13/97
Reported: 10/17/97

QC Batch Number: GC101397BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**300**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**1.3**
Toluene	**0.50**	**0.66**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-03

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	470
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	101

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-3	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-03	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	101

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-3	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/10/97
Attention: Denise Buran	Lab Number: 9709F01-03	Reported: 10/17/97

QC Batch Number: GC101097BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**84**
Methyl t-Butyl Ether	**2.5**	**J**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Unidentified HC		**C6-C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-04

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	130
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	104

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

SEQUOIA ANALYTICAL - ELAP #1210

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9709F01-04

Sampled: 09/29/97
Received: 09/30/97
Extracted: 10/09/97
Analyzed: 10/15/97
Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	104

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

SEQUOIA ANALYTICAL - ELAP #1210

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9709F01-04

Sampled: 09/29/97
Received: 09/30/97

Analyzed: 10/09/97
Reported: 10/17/97

QC Batch Number: GC100997BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Denise Buran	Client Proj. ID: 360-014.2A/Oakland Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709F01-05	Sampled: 09/29/97 Received: 09/30/97 Extracted: 10/09/97 Analyzed: 10/15/97 Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	250	7900
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	189 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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

Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-6	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-05	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	2500	7900
Chromatogram Pattern:		
Unidentified HC		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	189 Q

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

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-6	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/13/97
Attention: Denise Buran	Lab Number: 9709F01-05	Reported: 10/17/97

QC Batch Number: GC101397BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**490**
Methyl t-Butyl Ether	**2.5**	**13**
Benzene	**0.50**	**2.6**
Toluene	**0.50**	**0.83**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**1.5**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	103

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-7	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-06	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.

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

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-7	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-06	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

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

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-7	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/10/97
Attention: Denise Buran	Lab Number: 9709F01-06	Reported: 10/17/97

QC Batch Number: GC101097BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**310**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-8	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-07	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	83

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-8	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 10/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 10/15/97
Attention: Denise Buran	Lab Number: 9709F01-07	Reported: 10/17/97

QC Batch Number: GC1009970HBPEXZ
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 09/29/97
2025 Gateway Place, Suite 440	Sample Descript: MW-8	Received: 09/30/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/10/97
Attention: Denise Buran	Lab Number: 9709F01-07	Reported: 10/17/97

QC Batch Number: GC101097BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Project ID: 360-014.2A/Oakland
Matrix: LIQUID
Work Order #: 9709F01 01-07

Reported: Oct 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC100997BTEX22A	GC100997BTEX22A	GC100997BTEX22A	GC100997BTEX22A	GC100997BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9709H2102	9709H2102	9709H2102	9709H2102	9709H2102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/9/97	10/9/97	10/9/97	10/9/97	10/9/97
Analyzed Date:	10/9/97	10/9/97	10/9/97	10/9/97	10/9/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	7.9	8.0	8.2	23	50
MS % Recovery:	79	80	82	77	83
Dup. Result:	7.7	7.8	7.9	23	48
MSD % Recov.:	77	78	79	77	80
RPD:	2.6	2.5	3.7	0.0	4.1
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK100997	BLK100997	BLK100997	BLK100997	BLK100997
Prepared Date:	10/9/97	10/9/97	10/9/97	10/9/97	10/9/97
Analyzed Date:	10/9/97	10/9/97	10/9/97	10/9/97	10/9/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.0	8.1	8.3	24	51
LCS % Recov.:	80	81	83	80	85
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Project ID: 360-014.2A/Oakland
Matrix: LIQUID
Work Order #: 9709F01 01-07

Reported: Oct 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101097BTEX06A	GC101097BTEX06A	GC101097BTEX06A	GC101097BTEX06A	GC101097BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	971025104	971025104	971025104	971025104	971025104
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Analyzed Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.4	8.6	9.0	27	57
MS % Recovery:	84	86	90	90	95
Dup. Result:	8.3	8.5	9.0	27	57
MSD % Recov.:	83	85	90	90	95
RPD:	1.2	1.2	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK101097	BLK101097	BLK101097	BLK101097	BLK101097
Prepared Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Analyzed Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.7	9.0	9.5	30	59
LCS % Recov.:	87	90	95	100	98
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Project ID: 360-014.2A/Oakland
Matrix: LIQUID
Work Order #: 9709F01 01-07

Reported: Oct 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101097BTEX07A	GC101097BTEX07A	GC101097BTEX07A	GC101097BTEX07A	GC101097BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	971025103	971025103	971025103	971025103	971025103
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Analyzed Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	7.9	8.0	8.2	24	54
MS % Recovery:	79	80	82	80	90
Dup. Result:	8.5	8.2	8.7	26	61
MSD % Recov.:	85	82	87	87	102
RPD:	7.3	2.5	5.9	8.0	12
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK101097	BLK101097	BLK101097	BLK101097	BLK101097
Prepared Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Analyzed Date:	10/10/97	10/10/97	10/10/97	10/10/97	10/10/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.4	8.3	8.6	26	57
LCS % Recov.:	84	83	86	87	95
MS/MSD LCS Control Limits	60-140 70-130	60-140 70-130	60-140 70-130	60-140 70-130	60-140 70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Project ID: 360-014.2A/Oakland
Matrix: LIQUID
Work Order #: 9709F01 01-07

Reported: Oct 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101397BTEX06A	GC101397BTEX06A	GC101397BTEX06A	GC101397BTEX06A	GC101097BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	971024002	971024002	971024002	971024002	971024002
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/13/97	10/13/97	10/13/97	10/13/97	10/13/97
Analyzed Date:	10/13/97	10/13/97	10/13/97	10/13/97	10/13/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.0	8.3	8.6	26	55
MS % Recovery:	80	83	86	87	92
Dup. Result:	8.1	8.4	8.9	26	55
MSD % Recov.:	81	84	89	87	92
RPD:	1.2	1.2	3.4	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK101397	BLK101397	BLK101397	BLK101397	BLK101397
Prepared Date:	10/13/97	10/13/97	10/13/97	10/13/97	10/13/97
Analyzed Date:	10/13/97	10/13/97	10/13/97	10/13/97	10/13/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.1	8.3	8.7	26	54
LCS % Recov.:	81	83	87	87	90
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Please Note:
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Project ID: 360-014.2A/Oakland
Matrix: LIQUID
Work Order #: 9709F01 01

Reported: Oct 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC1009970HBPEXZ
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3520
Analyst:	G. Fish
MS/MSD #:	9709F0102
Sample Conc.:	32000
Prepared Date:	10/9/97
Analyzed Date:	10/15/97
Instrument I.D.#:	GCHP5A
Conc. Spiked:	1000 µg/L
Result:	
MS % Recovery:	
Dup. Result:	No MS/MSD recovery
MSD % Recov.:	due to matrix interference
RPD:	
RPD Limit:	

LCS #:	BLK100997
Prepared Date:	10/9/97
Analyzed Date:	10/15/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
LCS Result:	980
LCS % Recov.:	98

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

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland

Lab Proj. ID: 9709F01

Received: 09/30/97

Reported: 10/17/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 29 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PES
REC. BY (PRINT) TD

WORKORDER: 9709F01
DATE OF LOG-IN: 10/6/97

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s) — Present / (Absent) Intact / Broken*
2. Custody Seal #: — Put in Remarks Section
3. Chain-of-Custody — (Present) / Absent*
4. Traffic Reports or Packing List: — Present / (Absent)
5. Airbill: — Airbill / Sticker Present / (Absent)
6. Airbill #: ———
7. Sample Tags: — (Present) / Absent
   Sample Tags #s: — (Listed) / Not Listed on Chain-of-Custody
8. Sample Condition: — (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? — Yes / No*
10. Proper Preservatives used: — (Yes) / No*
11. Date Rec. at Lab: 9/30/97
12. Time Rec. at Lab: 1124
13. Temp Rec. at Lab: 9°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01	A-E	MW-1	3 VOA 2x1 Liter Amber Lig		9/29	
02		MW-2				
03		MW-3				
04		MW-4				
05		MW-6				
06		MW-7				
07		MW-8				

J. Downs 9/30/97

*if Circled, contact Project Manager and attach record of resolution.

Revision 6/18/97
RCPTLOG.XLS

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 3600 014 2A

Facility No. Former Oliver Site

Facility Address: 2901 Glascock St Oakland CA

Billing Refence Number: 34953

CLIENT engineer: Denise Duran

PACIFIC Point of Contact: Andrew Lemaire

Sampler: Pedro Ruiz

Laboratory Name: Sequoia

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc., C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020) MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Fuel Fingerprint as Diesel & Motoroil
1 MW1	5	40/1L	HCl	W	G	9-29-97	12:20	X							X
2 MW2							12:35								
3 MW3							11:10								
4 MW4							11:25								
5 MW6							12:05								
6 MW7							12:55								
7 MW8							11:40								

Comments:

SP 30

SP 30

Fuel Fingerprint as Diesel & Motoroil

9709F01

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	9-29-97	16:30	Krissy Flesoras	9/30/97	755
Krissy Flesoras	9/30/97	101		9/30/97	1000
	9/30/97				
			Received by laboratory: I. Downs	9/30/97	1124

Mail original Analytical Report to:

Pacific Environmental Group

- 2025 Gateway Place #440, San Jose, CA 95110 [X]
- 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 [ ]
- 25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622 [ ]
- 4020 148th Ave NE #B, Redmond, WA 98052 [ ]

Turnaround Time:

- Priority Rush (1 day) [ ]
- Rush (2 days) [ ]
- Expedited (5 days) [ ]
- Standard (10 days) [X]
- As Contracted [ ]

Sequoia Analytical

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

Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9709F01-03

Sampled: 09/29/97
Received: 09/30/97

Analyzed: 10/10/97
Reported: 10/27/97

QC Batch Number: GC101097BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	84
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Unidentified HC		C6-C8

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Denise Buran

Client Proj. ID: 360-014.2A/Oakland

Lab Proj. ID: 9709F01

Received: 09/30/97

Reported: 10/27/97

LABORATORY NARRATIVE

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TEPH note: Chromatograms for samples in this set conform to a weathered diesel pattern, and show evidence of additional non-diesel components. The chromatographic images display no evidence of a known motor oil pattern. Consequently, it appears that these samples contain no detectable quantities of motor oil.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Sonny

FIELD SERVICES / O&M REQUEST OCT 03 1997 Work Order # 6366

SITE INFORMATION FORM

Identification	Project Type	
Project # 360-014, 2A	☐ 1st Time Visit	Client P.O.C.: [illegible]
Station # — N.A. —	☒ Quarterly	Date of Request [illegible]
Site Address: 2901 Glascock St, Oakland, CA	☒ 1st (97) ☒ 2nd (97) ☐ 3rd ☒ 4th (96)	Ideal field date(s): [illegible]
	☐ Monthly	
County: Alameda	☐ Semi-Monthly	**Check Appropriate Category**
Project Manager: ANDREW L.	☐ Weekly	Budget Hrs.
Requestor: ANDREW L.	☐ One time event	Actual Hrs. 9 1/2
Client: GLASCOCK STREET PROPERTIES	☐ Other:	Mob de Mob

Field Tasks: For General Description

circle one:

Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

(1) CONTACT GARY OR BILL @ ICONCO, [illegible] PERRY AVE @ GLASCOCK [illegible] 261-1900 TO ARRANGE FOR ACCESS TO SITE.

(2) TAKE GROUNDWATER ~~[illegible]~~ DTW MEASUREMENTS FOR WELLS MW-1 THROUGH MW-8 (SEE ATTACHED FIGURE). NOTE THAT MW-5 HAS BEEN REMOVED. (USE TOC FOR DTW)

(3) COLLECT GROUNDWATER SAMPLES FROM WELLS MW-1 THROUGH MW-8 (EXCEPT MW-5). SAMPLES TO BE ANALYZED BY SEQUOIA ANALYTICAL ON NORMAL TURN AROUND. ANALYSIS REQUIRED: QUARTERLY FOR ALL WELLS: TPH-g TPH-d TPH-mo BTEX MTBE - ANNUALLY FOR MW-6 & MW-7 (FIRST QUARTER [illegible]): [illegible] LEAD, NICKEL, ZINC [illegible]

(4) [illegible] SAMPLING [illegible]

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

(5) [illegible] BE DISPOSED [illegible]

[illegible]

TASK COMPLETED.

ORC'S WERE INSTALL ON MW6, 1, 2.

☒ Samples taken ☐ Samples not required ☐ Soil Vapor ☐ Groundwater

☐ Weekly ☐ Semi-Monthly ☐ Monthly ☐ Quarterly ☐ Semi-Annual

PACIIFIC ENVIRONMENTAL GROUP, INC.

Completed by: 9-29-97 [signature] Date:

Checked by:

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 360044.2A LOCATION: 2601 Glascock St DATE: 9-29-97

CLIENT/STATION NO.: Former Oliver site FIELD TECHNICIAN: RE DAY OF WEEK: Mon

PROBE TYPE/ID No.
- [x] Oil/Water IF/ _____
- [x] H_2O level indicator _____
- [ ] Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	SEPARATE-PHASE HYDROCARBONS (SPH) COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH / H_2O
	MW1	10:24	✓	✓	✓	✓		19.80	8.90 / 8.90	9.13 / 9.13										
	MW2	10:28	✓	✓	✓	✓	✓	19.75	8.45 / 8.45	8.70 / 8.70										
	MW3	10:05	✓	✓	✓	✓	✓	19.80	6.55 / 6.35	6.70 / 6.70										
	MW4	10:10	✓	✓	✓	✓	✓	19.70	7.05 / 7.05	8.05 / 8.05										
	MW5							DESTROYED.												
	MW6	10:20	✓	✓	✓	✓	✓	19.50	9.95 / 9.95	10.55 / 10.55										
	MW7	10:00	✓	✓	✓	✓	✓	19.75	5.05 / 5.05	5.19 / 5.17										
	MW8	10:17	✓	✓	✓	✓	✓	19.70	8.75 / 8.75	9.30 / 9.30										

Comments: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blanco St WELL ID #: MW-1

CLIENT/STATION No.: Former Beverages FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.80 DTW 8.90 = 10.9 x Gal/Linear Foot .17 = 1.85 x Number of Casings 3 = Calculated Purge 5.55

DATE PURGED: 9-29-97 START: 1208 END (2400 hr): _____ PURGED BY: JE

DATE SAMPLED: 9-29-97 START: 1210 END (2400 hr): _____ SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1211	1.75	7.49	1150	70.0	BRN	Mod	Strong
1214	3.5	7.45	1160	70.7	BRN	Mod	Strong
1217	5.25	7.40	1140	69.6	BRN	Mod	Strong

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: Bapos
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	9-29-97	1210	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blalock 57 WELL ID #: MW-2

CLIENT/STATION No.: Former Doppelmeyer Site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.75 - DTW 8.46 = 11.3 x Gal/Linear Foot .17 = 1.92 x Number of Casings 3 = Calculated Purge 5.76

DATE PURGED: 9-29-97 START: 12:23 END (2400 hr): _____ PURGED BY: DE

DATE SAMPLED: 9-29-97 START: 12:35 END (2400 hr): _____ SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:27	2	7.68	1780	70.1	Brn	Mod	Strong
12:30	4	7.55	1790	70.8	Brn	Heavy	Strong
12:33	6	7.49	1790	69.6	Brn	Heavy	Strong

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: ~~PP~~ 15-10
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-2	9-29-97	12:35	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHMO

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360012.2A LOCATION: 2901 Blanco St WELL ID #: MW-3

CLIENT/STATION No.: Former Doppler Site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.80 DTW 6.35 = 13.45 x Gal/Linear Foot .17 = 2.28 x Number of Casings 3 = Calculated Purge 6.85

DATE PURGED: 9-29-97 START: 10:58 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 9-29-97 START: 10:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1101	2.25	9.35	1080	72.7	Cloudy	Mod	Faint
1104	4.5	7.47	1090	72.1	Cloudy	Mod	Faint
1107	6.75	7.50	1070	71.3	Cloudy	Mod	Faint

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-8
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-3	9-29-97	11:10	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.25 LOCATION: 2901 Blanco St WELL ID #: MW-4

CLIENT/STATION No.: Former Doppelt Site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.70 DTW 7.65 = 12.05 x Gal/Linear Foot .17 = 2.04 x Number of Casings 3 = Calculated Purge 6.14

DATE PURGED: 9-29-97 START: 11:14 END (2400 hr): _____ PURGED BY: JE

DATE SAMPLED: 9-29-97 START: 11:25 END (2400 hr): _____ SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:18	2	7.11	759	70.7	Cloudy	Mod	Mod
11:21	4	7.08	760	71.1	Cloudy	Mod	Mod
11:24	6	7.07	745	69.5	Cloudy	Mod	Mod

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-11
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-4	9-29-97	11:25	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS:

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 2901 Glascock St WELL ID #: MW-6

CLIENT/STATION No.: Former Doppelmayer site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: ______ TOB ______ TOC
Depth to water: ______ TOB ______ TOC
Total depth: ______ TOB ______ TOC
Date: ______ Time (2400): ______

Probe Type and I.D. #
☐ Oil/Water interface ______
☐ Electronic indicator ______
☐ Other; ______

CASING DIAMETER	GAL/ LINEAR FT.
☒ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
☒ Groundwater
☐ Duplicate
☐ Extraction well
☐ Trip blank
☐ Field blank
☐ Equipment blank
☐ Other; ______

TD 19.60 DTW 9.95 = 9.55 x Gal/Linear Foot .17 = 1.62 x Number of Casings 3 = Calculated Purge 4.86

DATE PURGED: 9-29-97 START: 11:50 END (2400 hr): — PURGED BY: PR
DATE SAMPLED: 9-29-97 START: 12:05 END (2400 hr): — SAMPLED BY: PR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:53	1.5	7.70	1300	69.3	BRN	HEAVY	STRONG
11:56	3	7.62	1370	69.9	BRN	HEAVY	STRONG
12:00	4.5	7.52	1280	68.3	BRN	HEAVY	STRONG
					Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	Strong Moderate Faint None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: ______ TOB/TOC

PURGING EQUIPMENT/I.D. #
☐ Bailer: ______
☒ Centrifugal Pump: 15
☐ Other: ______
☐ Airlift Pump: ______
☐ Dedicated: ______

SAMPLING EQUIPMENT/I.D. #
☒ Bailer: Dispos
☐ Dedicated: ______
☐ Other: ______

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW6	9-29-97	12:05	3	40ml	VOA	HCL	TPHG/BTEX/MTBE
			2	1L	Amb	NP	TPHD, TPHMO

REMARKS: ______

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 2901 Glascock St WELL ID #: MW-7

CLIENT/STATION No.: Former Dorr Oliver Site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: ______ TOB ______ TOC
Depth to water: ______ TOB ______ TOC
Total depth: ______ TOB ______ TOC
Date: ______ Time (2400): ______

Probe Type and I.D. #
☐ Oil/Water interface ______
☐ Electronic indicator ______
☐ Other; ______

CASING DIAMETER	GAL/ LINEAR FT.
☒ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
☒ Groundwater
☐ Duplicate
☐ Extraction well
☐ Trip blank
☐ Field blank
☐ Equipment blank
☐ Other; ______

TD 17.75 DTW 5.05 = 12.7 x Gal/Linear Foot .17 = 2.15 x Number of Casings 3 = Calculated Purge 6.47

DATE PURGED: 9-29-97 START: 10:43 END (2400 hr): ______ PURGED BY: PE

DATE SAMPLED: 9-29-97 START: 10:55 END (2400 hr): ______ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
10:46	2	7.80	1210	75.8	Cloudy	Mod	None
10:49	4	7.63	1300	76.1	Cloudy	Mod	None
10:52	6	7.52	1280	76.0	Cloudy	Mod	None

Pumped dry Yes / (No)

COLOR: Cobalt 0-100 — Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200 — Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: ______ TOB/TOC ______

PURGING EQUIPMENT/I.D. #
☐ Bailer: ______
☒ Centrifugal Pump: 15
☐ Other: ______
☐ Airlift Pump: ______
☐ Dedicated: ______

SAMPLING EQUIPMENT/I.D. #
☒ Bailer: 15-3
☐ Dedicated: ______
☐ Other: ______

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	9-29-97	10:55	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHMO

REMARKS: ______

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blalock St WELL ID #: MW-8

CLIENT/STATION No.: Former Depot Service Site FIELD TECHNICIAN: Pedro Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 17.70 - DTW 8.76 = 8.96 x Gal/Linear Foot .17 = 1.48 x Number of Casings 3 = Calculated Purge 4.46

DATE PURGED: 9-29-97 START: 11:28 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 9-29-97 START: 11:40 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
11:31	1.5	7.28	2750	68.9	Cloudy	Heavy	Odor
11:34	3	7.39	2760	69.2	Cloudy	Heavy	Odor
11:37	4.5	7.35	2810	68.5	Cloudy	Heavy	Odor

Pumped dry Yes / (No)

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-7
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW8	9-29-97	11:40	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: _____

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 3600 01/ 02

Facility No. FORMER OLIVER SITE | Facility Address: 2901 Glascock St Oakland CA | Billing Refence Number: 34953

CLIENT engineer: DENISE BUREAU | PACIFIC Point of Contact: ANDREW LEMIRE | Sampler: PEDRO P.O.C. | Laboratory Name: SEQUOIA

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc., C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	FUEL FINGER PRINT AS DIESEL & MOTOR OIL	Comments
MW1	5	40/1L	HCl/NP	W	G	9-29-97	12:00	X							X	FUEL FINGER PRINT AS DIESEL & MOTOR OIL SILICA GEL CLEANUP
MW2							12:35									
MW3							11:10									
MW4							11:25									
MW6							12:05									
MW7							12:55									
MW8							11:40									

MTBE

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	9-29-97	16:30			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time

Mail original Analytical Report to:

Pacific Environmental Group

- 2025 Gateway Place #440, San Jose, CA 95110 ☒
- 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 ☐
- 25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622 ☐
- 4020 148th Ave NE #B, Redmond, WA 98052 ☐

Turnaround Time:

- Priority Rush (1 day) ☐
- Rush (2 days) ☐
- Expedited (5 days) ☐
- Standard (10 days) ☒
- As Contracted ☐