PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN EX COMPANY

May 7, 1998
Project 360-014.2B

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

Re: **Quarterly Report - First Quarter 1998**
Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Dear Mr. Buran:

This letter has been prepared for Glascock Street Properties by Pacific Environmental Group, Inc. (PEG). The following presents the results of first quarter 1998 monitoring program for the site referenced above (Figure 1).

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 PEG on March 27, 1998. 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). Wells MW-6 and MW-8 were also analyzed for volatile organic compounds (VOCs) and selected metals. Groundwater elevations, benzene, and TEPH-d concentrations for the first quarter 1998 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 elevation in site monitoring wells decreased approximately 0.83 feet compared to 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 0.020 (Figure 2). Groundwater elevations were within the historic range for the site.

GROUNDWATER QUALITY

Detectable TEPH-d concentrations were found in Wells MW-1, MW-2, and MW-6, and were characterized as weathered diesel, while TEPH-d results for Well MW-3 were characterized as unidentified hydrocarbons in the C_9 through C_{24} range. Results show a decrease in TEPH-d concentration for Wells MW-3 and MW-6, while an increase in concentrations were found in Wells MW-1 and MW-2. The highest TEPH-d concentration detected was found in Well MW-2 at 15,000 micrograms per liter (µg/L).

Unidentified hydrocarbons in the C_{16} to C_{36} ranges were detected by the analytical laboratory while performing the analysis for motor oil on samples from Wells MW-1, MW-2, and MW-6. However, the laboratory narrative at the end of the certified analytical reports indicates that the chromatograms do not match any known motor oil standard, and therefore the conclusion is that there is no detectable motor oil present in these samples.) This doesn't follow.

Wells MW-1 and MW-2 reported to have detectable TPPH-g at concentrations of 280 and 94 µg/L, respectively. Benzene and MtBE were also detected in Wells MW-1 and MW-2 this quarter. Benzene concentrations were reported as 5.0 µg/L for Well MW-1 and 1.3 µg/L for Well MW-2. MtBE concentrations increased considerably for Well MW-1 at 890 µg/L while a reading of 18 µg/L was recorded for Well MW-2.

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

Sincerely,

Pacific Environmental Group, Inc.

Erik Noolandi
Staff Engineer

Andrew D. Lehane
Project Engineer
RCE 55798

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Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, and MtBE)
- Table 3 - Groundwater Analytical Data - PCBs, Metals, and VOCs
- Figure 1 - Site Location Map
- Figure 2 - Groundwater Monitoring Map - First Quarter 1998
- Attachment A - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets

cc: Mr. Barney Chan, Alameda County Health Care Services Agency
Mr. Chuck Headlee, Regional Water Quality Control Board, S.F. Bay Region

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
	12/11/97		7.10	3.66
	03/27/98		7.50	3.26
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
	12/11/97		5.63	5.00
	03/27/98		6.50	4.13
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
	12/11/97		4.70	5.17
	03/27/98		5.15	4.72
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

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-4	01/18/96	10.64	5.60		5.04
(cont.)	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
	12/11/97		5.75		4.89
	03/27/98		6.60		4.04
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
	12/11/97		8.50		1.78
	03/27/98		10.10		0.18
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
	12/11/97		3.45		6.41
	03/27/98		3.45		6.41
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

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-8	09/29/97		8.75	1.86
(cont.)	12/11/97		7.20	3.41
	03/27/98		8.85	1.76

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, and MtBE)

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)
MW-1	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	670	5.3	ND	ND	1.1	1,900	NA	NA
	05/15/95	290	7.9	ND	ND	1.4	3,400	NA	NA
	08/28/95	250	5.4	ND	ND	1.1	1,800	NA	NA
	11/29/95	NA	NA	NA	NA	NA	ND	ND	NA
	12/06/95	770	4.8	ND	ND	1.3	39,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	23,000	NA	NA
	03/08/96	360	2,600	ND	ND	1.9	16,000	NA	24
	07/02/96	5,300 a	ND	ND	ND	ND	6,600	ND	ND
	12/17/96	540 b	3.4	ND	ND	0.83	2,800 c	1,600 d	60
	03/21/97	590	5.5	0.66	ND	ND	5,500 e	5,000 d	71
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	470 h	ND	ND	ND	ND	39,000 e	26,000 d	45
	09/29/97	510 h	2.2	ND	ND	ND	5,000 e	4,000 d	37
	12/11/97	ND	ND	ND	ND	ND	1,900 e	1,300 d	ND
	03/27/98	280 k	5.0	0.60	ND	ND	4,600 e	3,900 d	890
MW-2	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	520	2.2	1.9	ND	1.3	4,000	NA	NA
	05/15/95	310	2.3	1.9	ND	1.4	5,100	NA	NA
	08/28/95	320	2.9	2.9	ND	2.6	4,100	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	210	2.0	2.2	ND	0.57	17,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	22,000	NA	NA
	03/08/96	310	2.4	1.9	ND	1.4	56,000	NA	ND
	07/02/96	9,300 a	ND	ND	ND	ND	19,000	ND	ND
	12/17/96	140 b	1.1	2.0	ND	1.4	10,000 e	5,400 d	ND
	03/21/97	230	2.1	1.9	ND	ND	17,000 e	16,000 d	ND
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	630 h	ND	ND	ND	ND	16,000 e	13,000 d	ND
	09/29/97	300 h	1.3	0.66	ND	ND	32,000 e	20,000 d	ND
	12/11/97	ND	ND	ND	ND	ND	4,800 e	4,000 d	ND
	03/27/98	94 k	1.3	1.30	ND	ND	15,000 e	11,000 d	18
MW-3	10/06/94	NA	ND	ND	ND	ND	320	NA	NA
	01/20/95	86	ND	ND	ND	ND	460	NA	NA
	05/15/95	60	ND	ND	ND	ND	310	NA	NA
	08/28/95	ND	ND	ND	ND	ND	310	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	120	ND	ND	ND	ND	1,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	210	NA	NA
	03/08/96	67	ND	ND	ND	ND	1,000	NA	7.2
	07/02/96	230 a	ND	ND	ND	ND	640	ND	ND
	12/17/96	240 f	ND	ND	ND	ND	560 e	ND	ND
	03/21/97	760 h	ND	ND	ND	0.94	2,100 e	1900 d	5.6
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	180 h	ND	ND	ND	0.58	610 g	ND	5.3
	09/29/97	84 i	ND	ND	ND	ND	470 g	ND	ND
	12/11/97	ND	ND	ND	ND	ND	380 e	ND	ND
	03/27/98	ND	ND	ND	ND	ND	220 g	ND	ND

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

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)
MW-4	10/06/94	NA	ND	ND	ND	ND	ND	NA	NA
	01/20/95	ND	ND	ND	ND	ND	ND	NA	NA
	05/15/95	ND	ND	ND	ND	ND	ND	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/95	ND	ND	ND	ND	ND	57	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	ND	ND	ND	ND	ND	100	NA	ND
	07/02/96	ND	ND	ND	ND	ND	ND	ND	ND
	12/17/96	ND	ND	ND	ND	ND	310 g	530 d	ND
	03/21/97	ND	ND	ND	ND	ND	180 g	500 d	ND
	06/25/97	ND	ND	ND	ND	ND	120 g	ND	ND
	09/29/97	ND	ND	ND	ND	ND	130 g	ND	ND
	12/11/97	ND	ND	ND	ND	ND	57 g	ND	ND
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-5*	05/15/95	ND	ND	ND	ND	ND	490	NA	NA
	08/28/95	ND	ND	ND	ND	ND	170	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	ND	ND	ND	ND	ND	250	NA	NA
	01/18/96	NA	NA	NA	NA	NA	49	NA	NA
	03/08/96	ND	ND	ND	ND	ND	210	ND	12
	07/02/96	200 a	ND	ND	ND	ND	110	ND	ND
MW-6	05/15/95	120	5.6	0.88	ND	2.1	1,100	NA	NA
	08/28/95	140	6.1	0.77	ND	2.3	2,100	NA	NA
	11/29/95	NA	NA	NA	NA	NA	35,000	5,400	NA
	12/06/95	140	4.6	0.89	ND	1.7	38,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	59,000	NA	NA
	03/08/96	160	3.4	0.57	ND	1.9	14,000	NA	ND
	07/02/96	3,300 a	3.1	ND	ND	ND	2,300	1,300	ND
	12/17/96	150 b	3.4	0.93	ND	1.7	15,000 e	14,000 d	14
	03/21/97	300	3.5	0.91	ND	0.79	18,000 e	17,000 d	19
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	590 h	3.2	ND	ND	ND	9,300 e	7,900 d	15
	09/29/97	490 h	2.6	0.83	ND	1.5	7,900 e	7,900 d	13
	12/11/97	ND	ND	ND	ND	ND	5,600 e	5,100 j	ND
	03/27/98	ND	ND	ND	ND	ND	1,500 e	1,400 d	ND
MW-7	05/15/95	110	ND	ND	ND	ND	ND	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/95	62	ND	ND	ND	ND	ND	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	ND	ND	ND	ND	ND	ND	NA	ND
	07/02/96	ND	ND	ND	ND	ND	ND	ND	580
	12/17/96	ND	ND	ND	ND	ND	120 g	ND	100
	03/21/97	ND	ND	ND	ND	ND	79 g	ND	190
	06/25/97	ND	ND	ND	ND	ND	58 g	ND	580
	09/29/97	ND	ND	ND	ND	ND	ND	ND	310

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

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)
MW-7	12/11/97	ND	ND	ND	ND	ND	ND	ND	ND
(cont.)	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	NS	NS	NS	NS	NS	NS	NS	NS
	07/02/96	ND	0.74	0.88	ND	0.82	ND	ND	ND
	12/17/96	ND	ND	ND	ND	ND	53 g	ND	ND
	03/21/97	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/97	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/97	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/97	270	8.0	1.8	5.7	14	ND	ND	72
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND

TPPH = Total purgeable petroleum hydrocarbons
TEPH = Total extractable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
NS = Not sampled
ND = Not detected (see certified analytical reports for detection limits)
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. – possibly weathered MO.
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.
j. Chromatogram pattern is not motor oil, but unidentified hydrocarbons in the C16 to C34 range.
k. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C5.

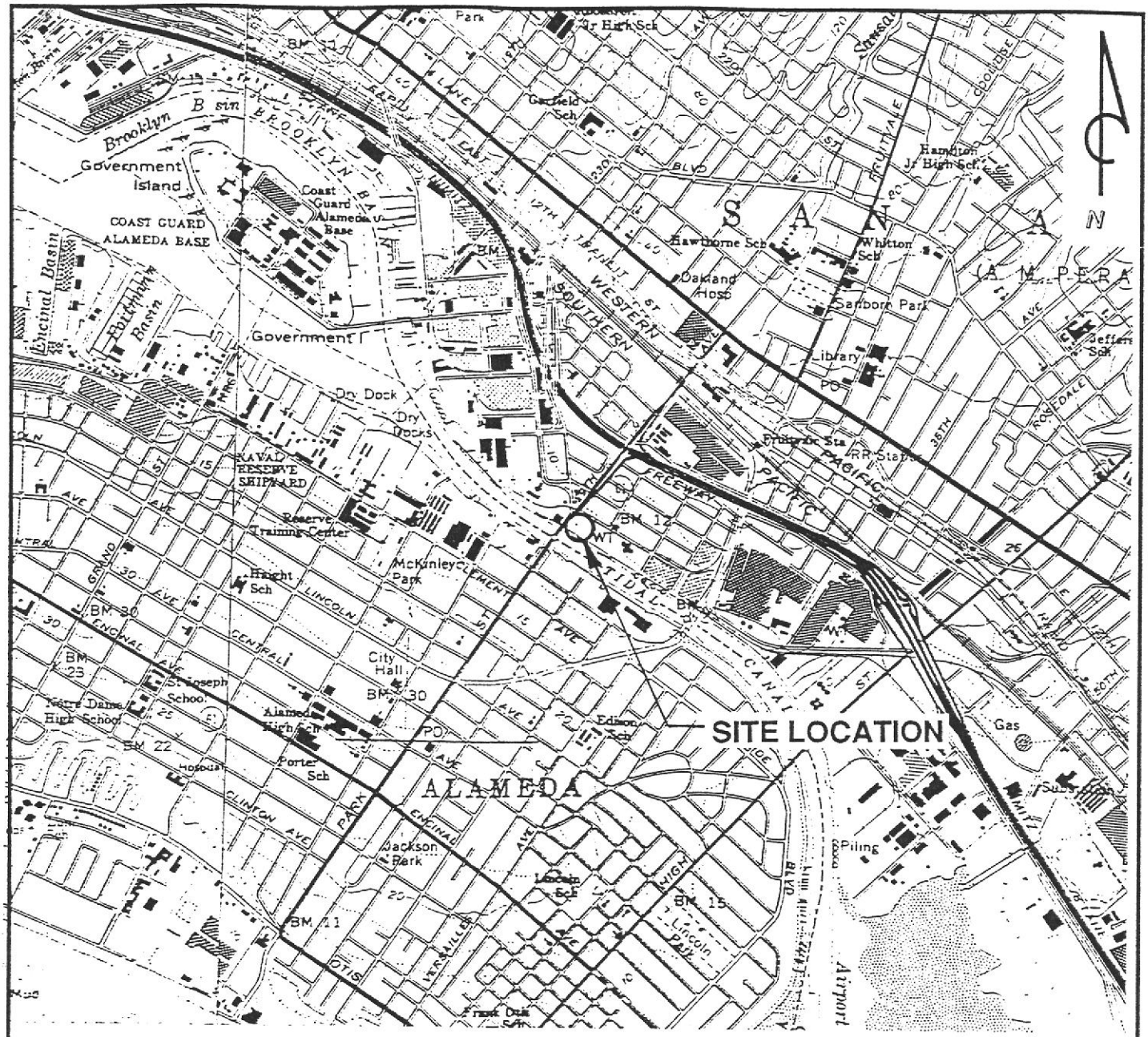
Table 3
Groundwater Analytical Data
PCBs, Metals, and VOCs

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	
	03/27/98	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	
	03/27/98	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	
	03/27/98	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	
	03/27/98	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
	03/27/98	NA	ND	ND	ND	ND	0.017	ND	e
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	
	03/27/98	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	
	03/27/98	NA	ND	0.013	ND	ND	0.02	ND	

PCBs = Polychlorinated bi-phenyls
VOCs = Volatile organic compounds
µg/L = Micrograms per liter
NA = Not analyzed
ND = Not detected (see certified analytical reports for detection limits)

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
e. 2.1 µg/L Chloroethene
   1.1 µg/L 1,1-Dichloroethane
   0.85 µg/L cis-1,2-Dichloroethene
   3.2 µg/L *trans*-1,2-Dichloroethene



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

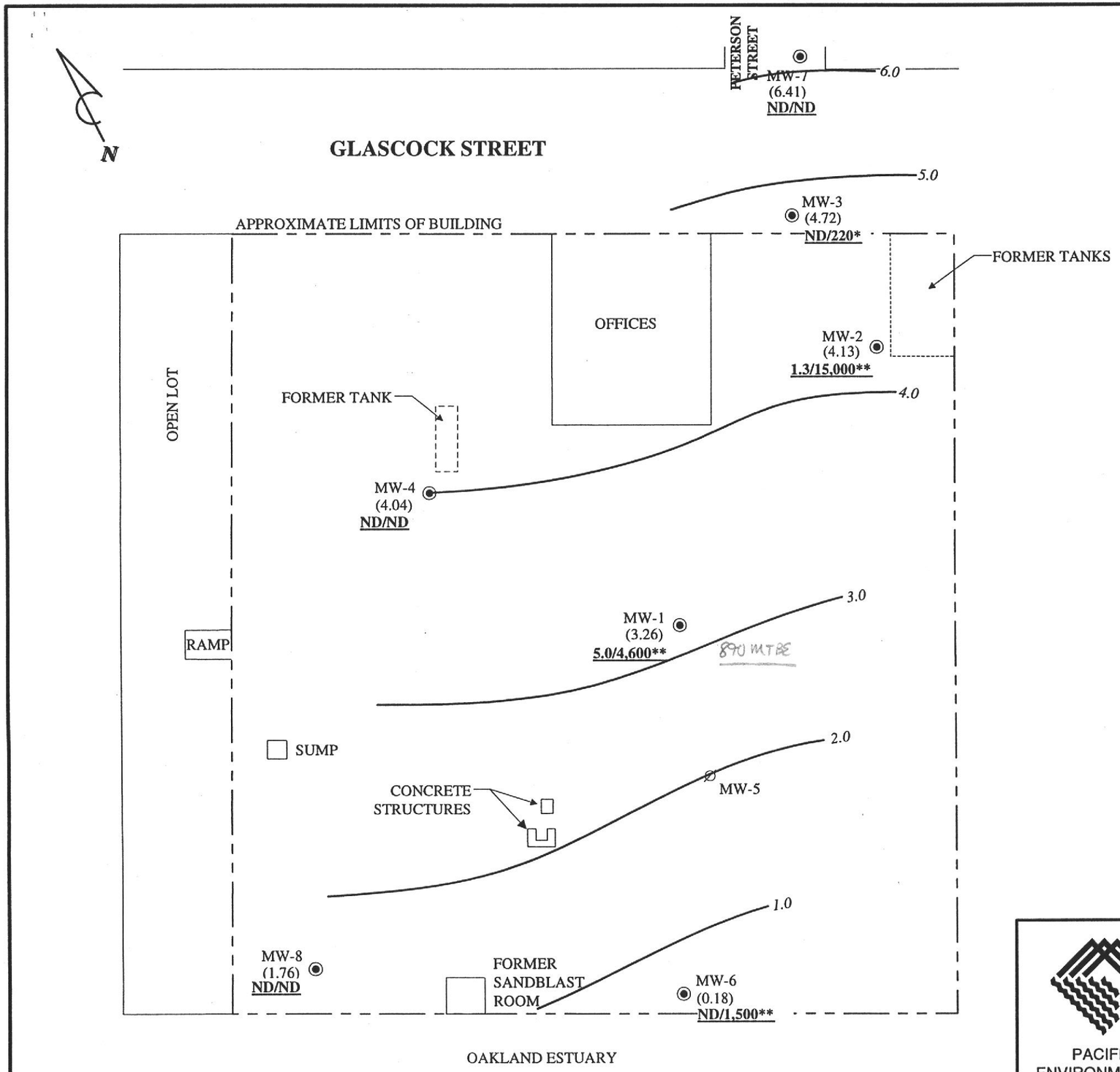
PACIFIC ENVIRONMENTAL GROUP, INC.

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

(3.26) GROUNDWATER ELEVATION IN FEET - MSL, 3-27-98

6.0 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 3-27-98

ND/1,500** BENZENE/TEPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 3-27-98

ND NOT DETECTED

* NOT DIESEL; UNIDENTIFIED HYDROCARBONS C9-C24

** WEATHERED DIESEL C9-C24

APPROXIMATE GRADIENT = 0.018

APPROXIMATE SCALE

0 40 80 FEET

PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE:

GROUNDWATER MONITORING MAP - FIRST QUARTER 1998

PREPARED FOR:

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

DATE: 5/6/98 | 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
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

APR 17 1998

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland

Lab Proj. ID: 9803J84

Sampled: 03/27/98
Received: 03/30/98
Analyzed: see below

Reported: 04/16/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9803J84-05				
Sample Desc : **LIQUID,MW-6**				
Cadmium by ICP	mg/L	04/03/98	0.010	N.D.
Chromium by ICP	mg/L	04/03/98	0.010	N.D.
Lead by ICP	mg/L	04/03/98	0.10	N.D.
Nickel by ICP	mg/L	04/03/98	0.050	N.D.
Zinc by ICP	**mg/L**	**04/03/98**	**0.010**	**0.017**
Lab No: 9803J84-07				
Sample Desc : **LIQUID,MW-8**				
Cadmium by ICP	mg/L	04/03/98	0.010	N.D.
Chromium by ICP	**mg/L**	**04/03/98**	**0.010**	**0.013**
Lead by ICP	mg/L	04/03/98	0.10	N.D.
Nickel by ICP	mg/L	04/03/98	0.050	N.D.
Zinc by ICP	**mg/L**	**04/03/98**	**0.010**	**0.020**

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	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-1	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-01	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	4600
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	126

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: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-1	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-01	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	**2000**	**3900**
Chromatogram Pattern: **Unidentified HC**		**C16-C36**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	126

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: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9803J84-02

Sampled: 03/27/98
Received: 03/30/98
Extracted: 04/01/98
Analyzed: 04/02/98
Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	15000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	200 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9803J84-02

Sampled: 03/27/98
Received: 03/30/98
Extracted: 04/01/98
Analyzed: 04/02/98
Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	5000	11000
Chromatogram Pattern: **Unidentified HC**		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	200 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9803J84-02

Sampled: 03/27/98
Received: 03/30/98

Analyzed: 04/08/98
Reported: 04/16/98

QC Batch Number: GC040898BTEX01A
Instrument ID: HP1

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**94**
Methyl t-Butyl Ether	**2.5**	**18**
Benzene	**0.50**	**1.3**
Toluene	**0.50**	**1.3**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Unidentified HC		**>C5**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	81

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

SEQUOIA ANALYTICAL - ELAP #2000

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-3	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-03	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**220**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-3	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-03	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	88

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: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-3	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/08/98
Attention: Andrew Lehane	Lab Number: 9803J84-03	Reported: 04/16/98

QC Batch Number: GC040898BTEX01A
Instrument ID: HP1

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	81

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

SEQUOIA ANALYTICAL - ELAP #2000

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-4	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/09/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/09/98
Attention: Andrew Lehane	Lab Number: 9803J84-04	Reported: 04/16/98

QC Batch Number: GC0409980HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

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	72

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-4	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/09/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/09/98
Attention: Andrew Lehane	Lab Number: 9803J84-04	Reported: 04/16/98

QC Batch Number: GC0409980HBPEXA
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	72

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: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-4	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/07/98
Attention: Andrew Lehane	Lab Number: 9803J84-04	Reported: 04/16/98

QC Batch Number: GC040798BTEX01A
Instrument ID: HP1

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	70

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

SEQUOIA ANALYTICAL - ELAP #2000

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9803J84-05

Sampled: 03/27/98
Received: 03/30/98

Analyzed: 04/01/98
Reported: 04/16/98

QC Batch Number: GC033198801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	**1.0**	**2.1**
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	**0.50**	**1.1**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	**0.50**	**0.85**
trans-1,2-Dichloroethene	**0.50**	**3.2**
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-0014.2B/Oakland Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9803J84-05	Sampled: 03/27/98 Received: 03/30/98 Extracted: 04/01/98 Analyzed: 04/02/98 Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	1500
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-6	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-05	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	1400
Chromatogram Pattern:		
Unidentified HC		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

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: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9803J84-06

Sampled: 03/27/98
Received: 03/30/98

Analyzed: 04/07/98
Reported: 04/16/98

QC Batch Number: GC040798BTEX01A
Instrument ID: HP1

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	100

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

SEQUOIA ANALYTICAL - ELAP #2000

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-0014.2B/Oakland Sample Descript: MW-7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9803J84-06	Sampled: 03/27/98 Received: 03/30/98 Extracted: 04/01/98 Analyzed: 04/02/98 Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

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	73

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9803J84-06

Sampled: 03/27/98
Received: 03/30/98
Extracted: 04/01/98
Analyzed: 04/02/98
Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	73

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: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9803J84-07

Sampled: 03/27/98
Received: 03/30/98

Analyzed: 04/07/98
Reported: 04/16/98

QC Batch Number: GC040798BTEX01A
Instrument ID: HP1

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:		N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	73

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

SEQUOIA ANALYTICAL - ELAP #2000

Tod Gra[illegible]icher
Project [illegible]anager

Sequoia Analytical

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

Attention: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9803J84-07

Sampled: 03/27/98
Received: 03/30/98

Analyzed: 04/01/98
Reported: 04/16/98

QC Batch Number: GC033198801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

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

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	97

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Gra[illegible]cher
Project [illegible]anager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 360-0014.2B/Oakland	Sampled: 03/27/98
2025 Gateway Place, Suite 440	Sample Descript: MW-8	Received: 03/30/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 04/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 04/02/98
Attention: Andrew Lehane	Lab Number: 9803J84-07	Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

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	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Gr[illegible]cher
Project [illegible]anager

Sequoia Analytical

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

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-0014.2B/Oakland Sample Descript: MW-8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9803J84-07	Sampled: 03/27/98 Received: 03/30/98 Extracted: 04/01/98 Analyzed: 04/02/98 Reported: 04/16/98

QC Batch Number: GC0401980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod [illegible]nicher
Proje[illegible]Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew/Zhane

Client Project ID: 360-0014.2B/Oakland
Matrix: LIQUID
Work Order #: 9803J84 01-07
Reported: Apr 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
Analy. Method: / Prep. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Analyst:	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi
MS/MSD #:	8040046	8040046	8040046	8040046	8040046
Prepared Date:	4/7/98	4/7/98	4/7/98	4/7/98	4/7/98
Analyzed Date:	4/7/98	4/7/98	4/7/98	4/7/98	4/7/98
Instrument I.D.#:	HP1	HP1	HP1	HP1	HP1
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	20 µg/L
MS % Recovery:	97	99	100	99	81
MSD % Recov.:	101	102	102	101	91
RPD:	4.0	3.0	2.0	2.0	12
LCS #:	LCS040798	LCS040798	LCS040798	LCS040798	LCS040798
Prepared Date:	4/7/98	4/7/98	4/7/98	4/7/98	4/7/98
Analyzed Date:	4/7/98	4/7/98	4/7/98	4/7/98	4/7/98
Instrument I.D.#:	HP1	HP1	HP1	HP1	HP1
LCS % Recov.:	104	104	103	103	96
MS/MSD Control Limits	56-128	61-125	61-127	65-128	24-129
LCS Control Limits	72-118	79-117	81-118	83-121	50-117

S[illegible]OIA ANALYTICAL
E[illegible] #2000

To[illegible]ranicher
Pr[illegible]t 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

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew/Zhane

Client Project ID: 360-0014.2B/Oakland
Matrix: LIQUID
Work Order #: 9803J84 01-07

Reported: Apr 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0401980HBPEXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510

Analyst:	D. Lockhart	
MS/MSD #:	9803J8405	
Sample Conc.:	1500	
Prepared Date:	4/1/98	
Analyzed Date:	4/2/98	
Instrument I.D.#:	GCHP4A	
Conc. Spiked:	1000 µg/L	
Result:		
MS % Recovery:	-150	
Dup. Result:		
MSD % Recov.:	-150	No MS/MSD due to matrix interference
RPD:	0.0	
RPD Limit:	0-50	

LCS #:	BLK040198
Prepared Date:	4/1/98
Analyzed Date:	4/2/98
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
LCS Result:	760
LCS % Recov.:	76

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

S 'OIA ANALYTICAL

To anicher
Pr Manager

Please Note:
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew/Zhane

Client Project ID: 360-0014.2B/Oakland
Matrix: LIQUID
Work Order #: 9803J84 01-07

Reported: Apr 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0409980HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	N. Herrera
MS/MSD #:	980422801
Sample Conc.:	120
Prepared Date:	4/9/98
Analyzed Date:	4/9/98
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
Result:	690
MS % Recovery:	57
Dup. Result:	620
MSD % Recov.:	50
RPD:	11
RPD Limit:	0-50

LCS #:	BLK040998
Prepared Date:	4/9/98
Analyzed Date:	4/9/98
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
LCS Result:	730
LCS % Recov.:	73

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: Andrew/Zhane

Client Project ID: 360-0014.2B/Oakland
Matrix: LIQUID
Work Order #: 9803J84 01-07
Reported: Apr 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0401986010MDA	ME0401986010MDA	ME0401986010MDA	ME0401986010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	S. LaBarron	S. LaBarron	S. LaBarron	S. LaBarron
MS/MSD #:	9803J4501	9803J4501	9803J4501	9803J4501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/1/98	4/1/98	4/1/98	4/1/98
Analyzed Date:	4/3/98	4/3/98	4/3/98	4/3/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	1.2	1.1	1.1
MS % Recovery:	110	120	110	110
Dup. Result:	1.1	1.1	1.1	1.1
MSD % Recov.:	110	110	110	110
RPD:	0.0	8.7	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK040198	BLK040198	BLK040198	BLK040198
Prepared Date:	4/1/98	4/1/98	4/1/98	4/1/98
Analyzed Date:	4/3/98	4/3/98	4/3/98	4/3/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.1	1.1	1.1
LCS % Recov.:	110	110	110	110
MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

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: Andrew Lehane

Client Proj. ID: 360-0014.2B/Oakland
Lab Proj. ID: 9803J84

Received: 03/30/98
Reported: 04/15/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 31 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

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. 360014.02B
Facility No. Turner Dorr Oliver Site
Facility Address: 2201 Glascock St Oakland CA
Billing Refence Number: 172
CLIENT engineer: Dennis Burnell
PACIFIC Point of Contact: Andrew/Chanie
Sampler: Todd Roth
Laboratory Name: Severn Trent

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 & motor oil	Cadmium, Chromium, Lead, Nickel, Zinc	Chlorinated Hydrocarbons (8010)
MW1	5	40ml	HCl	W	G	3/27/98	10:35	X							X		
MW2							10:55										
MW3							9:15										
MW4							9:30										
MW6	6		DP HCl				10:15									X	X
MW7	5		HCl				8:55										
MW8	6		DP HCl				9:55									X	X

Comments: 9803J84
MR 30 12 11

Fuel Fingerprint as Diesel & motor oil w/ silica gel clean up.

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	3/27/98	15:00		3/27/98	1500
	3/30/98	[illegible]		3-30-98	11:05
	3-30-98				
			Received by laboratory	3/30	1211

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 SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT) ID

WORKORDER: 9803184
DATE OF LOG-IN: 3/31/98

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*	01	A-E	mw-1	2xlamber	LIQ	3/27	
2. Custody Seal #:	Put in Remarks Section	↓	↓	↓	3xVOA	↓	↓	
3. Chain-of-Custody	(Present) / Absent*	02	A-E	mw-2	Same			
4. Traffic Reports or Packing List:	Present / (Absent)	03	↓	↓ 3	↓			
		04		↓ 4				
5. Airbill:	Airbill / Sticker (Present) / Absent	05	A-F	mw-6	2 xlamber			
6. Airbill #:		↓	↓	↓	1xlmetals			
		↓	↓	↓	3xVOA			
7. Sample Tags:	(Present) / Absent	06	A-E	mw-7	2xlamber			
Sample Tags #s:	(Listed) / Not Listed on Chain-of-Custody	↓	↓	↓	3xVOA			
8. Sample Condition:	(Intact) / Broken* / Leaking*	07	A-F	mw-8	2 xlamber			
		↓	↓	↓	1xlmetals			
9. Does information on custody reports, traffic reports and sample tags agree?	(Yes) / No*				3xVOA	↓	↓	
10. Proper Preservatives used:	(Yes) / No*							
11. Date Rec. at Lab:	3-30-98							
12. Time Rec. at Lab:	1211							
13. Temp Rec. at Lab:	5°C							

3/30/98 D. Downs

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

Revision 6/18/97
RCPTLOG.XLS

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

INVOICE FOR ANALYTICAL SERVICES

ACCOUNTS PAYABLE
PACIFIC ENVIRONMENTAL GROUP
2025 GATEWAY PLACE SUITE 440
SAN JOSE CA 95110

Invoice Number: 574801
Invoice Date: Apr 8, 1998
P.O. Number: 172
Client Code: 1202
Report Number: 9803J84
Project Manager: TG

PROJECT: 360-0014.2B/OAKLAND
REPORTED TO: ANDREW/ZHANE
SAMPLES RECEIVED 3/30

Qty	Description of Service	Unit Price	Amount
2	Halog Vol Organics (EPA 8010), 10 day	91.00	182.00
2	Cadmium by ICP, 10 day	15.40	30.80
2	Chromium (Total) by ICP, 10 day	15.40	30.80
2	Nickel by ICP, 10 day	15.40	30.80
2	Lead by ICP, 10 day	15.40	30.80
2	Zinc by ICP, 10 day	15.40	30.80
7	TPPH w/ BTEX (Purgeable), 10 day	70.00	490.00
7	TEPH as M.O., Silica Gel, 10 day	105.00	735.00

Invoice Total: $ 1,561.00

Please remit to: Sequoia Analytical, 680 Chesapeake Drive, Redwood City CA 94063. Payment is due 30 days from invoice date; overdue balances are subject to 1.5% interest per month. Questions regarding this invoice should be directed to your Project Manager. Federal Tax ID #93-074-7241.

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. 3000142B

Facility No: FORMER DORR OLIVER SITE

Facility Address: 2901 GLASCOCK ST OAKLAND CA

CLIENT engineer: DENNIS BURAN

PACIFIC Point of Contact: ANDREW/ZHANE

Sampler: PEDRO RUIZ

Billing Refence Number: 172

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 FINGER PRINT AS DIESEL & MOTOR OIL		CADMIUM, CHROMIUM, LEAD, NICKEL, ZINC	CHLORINATED HYDROCARBONS (8010)	Comments:
MW1	5	40 ML	HCL NP	W	G	52798	10:35	X							X				FUEL FINGERPRINT AS DIESEL & MOTOR OIL W/ SILICA GEL CLEAN UP.
MW2	↓	↓	↓	↓	↓	↓	10:55	↓							↓				
MW3	↓	↓	↓	↓	↓	↓	9:15	↓							↓				
MW4	↓	↓	↓	↓	↓	↓	9:30	↓							↓				
MW6	6	↓	NP HCL HNO3	↓	↓	↓	10:15	↓							↓		X	X	
MW7	5	↓	HCL NP	↓	↓	↓	8:55	↓							↓				
MW8	6	↓	NP HCL HNO3	↓	↓	↓	9:55	↓							↓		X	X	

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	52798	15:00			
Relinquished by			Received by		
Relinquished by			Received by		
Relinquished by			Received by laboratory		

Mail original Analytical Report to:
Pacific Environmental Group
- [X] 2025 Gateway Place #440 San Jose, CA 95110
- [ ] 820 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)
- [X] Standard (10 days)
- [ ] As Contracted

508

FIELD SERVICES REQUEST

APR 01 1998

SITE INFORMATION FORM

Identification

Project # 360-014.2B
Station ID Former Dorr-Olive Site
Site Address: 2901 Glascock St.
Oakland
Lab: Sequoia
County: Alameda
Project Manager: Andrew D. Lehane
Requester: Jessica Nelligan
Client: Glascock Street Properties
Client P.O.C: Dennis Buran
Date of Request: March 3, 1998

Project Type

☐ Operation & Maintenance
☐ Sampling
☐ 1st time visit
☒ Quarterly
☐ 1st ☐ 2nd ☐ 3rd ☒ 4th
☐ Monthly
☐ Semi- Monthly
☐ Weekly
☐ One time event
☐ Other:
Ideal field date: **March event**

Site Check Appropriate Category

☒ In Budget Visit
☐ Out of Budget Site Visit

Budget Hours:
Actual Hours: 8
Mob de Mob:

Site Safety Concerns

STANDARD

Field Tasks General Description

Quarterly M&S, Months 3,6,9,12

1. Contact Gary or Bill @ ICONCO, 303 Derby Ave. @ Glascock, (510) 261-1900 to arrange for site access.
2. Take groundwater DTW (TOC) measurements for Wells MW-1 through MW-4, MW-6 through MW-8.
3. Collect groundwater samples from Wells MW-1 through MW-4, MW-6 through MW-8. Take dissolved oxygen (DO) readings from MW-1, 2, and 6. Request analysis for the following on normal TAT:

Quarterly, all wells	TPPH-g, TEPH-d*, TEPH-mo*, BTEX, MtBE
Annually, MW-6 and MW-8	cadmium, chromium, lead, nickel, zinc, and chlorinated hydrocarbons (8010)

* Request on COC "Fuel Fingerprint as diesel and motor oil with silica gel clean-up"

4. Ideal sampling order: MW-4, MW-7, MW-8, MW-3, MW-6, MW-1, MW-2
5. Purge water to be disposed of at Seaport, Redwood City.
6. Replace ORC's. 100 ORCs ORDER

Comments, remarks from field staff

Task Completed
H2O purge to Seaport.

Completed By: [signature] Date: 32798

Pacific Environmental Group, Inc.

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 3600142A LOCATION: 2801 Glasscock St DATE: 3-27-98

CLIENT/STATION NO.: Former Oliver site FIELD TECHNICIAN: RF DAY OF WEEK: Fri

PROBE TYPE/ID No.

☒ Oil/Water IF/

☒ 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 (TOC circled)	Second Depth to Water (feet) TOB/TOC (TOB circled)	SEPARATE-PHASE HYDROCARBONS (SPH): SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	COLOR: Weathered	COLOR: Gas	COLOR: Oil	VISCOSITY: Lite	VISCOSITY: Medium	VISCOSITY: Heavy	LIQUID REMOVED (gallons) SPH / H_2O
	MW1	8:08	✓	✓	✓	✓	✓	19.80	7.50 / 7.50	7.70 / 7.70										
	MW2	8:32	✓	✓	✓	✓	✓	19.75	6.50 / 6.50	6.82 / 6.82										
	MW3	8:04	✓	✓	✓	✓	✓	19.80	5.15 / 5.15	5.50 / 5.50										
	MW4	8:10	✓	✓	✓	✓	✓	19.70	6.60 / 6.60	6.98 / 6.98										
	MW5		—	—	—	—		Destroyed.												
	MW6	8:21	✓	✓	✓	✓	✓	19.50	10.10 / 10.10	10.72 / 10.72										
	MW7	8:00	✓	✓	✓	✓	✓	17.75	3.45 / 3.45	3.88 / 3.88										
	MW8	8:15	✓	✓	✓	✓	✓	17.70	8.85 / 8.85	9.38 / 9.38										

Comments:

Mw6 Had [illegible], after pulling ORC's

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600142B LOCATION: 2901 Blaycock St WELL ID #: MW-1

CLIENT/STATION No.: Former Dopp River 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 7.50 = 12.3 x Gal/Linear Foot .17 = 2.09 x Number of Casings 3 = Calculated Purge 6.27

DATE PURGED: 3-27-98 START: 10:20 END (2400 hr): — PURGED BY: PR

DATE SAMPLED: 3-27-98 START: 10:35 END (2400 hr): — SAMPLED BY: PR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:24	2	7.56	1210	60.3	BRN	HEAVY	MOD
10:27	4	7.57	1200	60.9	BRN	HEAVY	MOD
10:30	6	7.58	1180	61.6	BRN	HEAVY	MOD

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: 15-10
- ☐ Dedicated: ______
- ☐ Other: ______

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	3-27-98	10:35	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NO	TPHD, TPHmo
			1	1L	Plast	HNO3	Metals

REMARKS: DO: 10.4 Before
DO: 4.4 After

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360014.28 LOCATION: 2901 Blaycock St WELL ID #: MW-2

CLIENT/STATION No.: Former Dupont Service Station 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 9.75 DTW 6.50 = 3.25 x Gal/Linear Foot .17 = .275 x Number of Casings 3 = Calculated Purge .675

DATE PURGED: 3-27-98 START: 10:42 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 3-27-98 START: 10:55 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:46	.225	7.39	1710	600	BRN	Mod	Mod
10:48	.45	7.32	1780	600.5	BRN	Mod	Mod
10:52	.675	7.09	1700	61.1	BRN	Mod	Mod

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: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: 15
- ☐ Dedicated: _____
- ☐ Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW2	3-27-98	10:55	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo
			2	1L	plast	HNO3	Metals

REMARKS: DO: 1

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600142B LOCATION: 2901 Glascock St WELL ID #: MW-3

CLIENT/STATION No.: Former Dopp 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 19.80 - DTW 5.15 = 14.65 x Gal/Linear Foot .17 = 2.49 x Number of Casings 3 = Calculated Purge 7.47

DATE PURGED: 3-27-98 START: 9:03 END (2400 hr): ______ PURGED BY: PR

DATE SAMPLED: 3-27-98 START: 9:15 END (2400 hr): ______ SAMPLED BY: PR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:06	2.5	7.30	1150	60.7	Cloudy	Mod	Faint
9:09	5	7.23	1140	60.6	Cloudy	Mod	Faint
9:12	7.5	7.21	1140	61.2	Cloudy	Mod	Faint

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-3	3-27-98	9:15	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb.	NO	TPHD, TPHMO
			1	1L	Plast	HNO3	Metals

REMARKS: DO 1.4 ppm

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600142B LOCATION: 2901 Glascock St WELL ID #: MW-4

CLIENT/STATION No.: Former Dreyer's 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 6.60 = 13.1 x Gal/Linear Foot .17 = 2.22 x Number of Casings 3 = Calculated Purge 6.68

DATE PURGED: 3-27-98 START: 9:20 END (2400 hr): ______ PURGED BY: PR
DATE SAMPLED: 3-27-98 START: 9:30 END (2400 hr): ______ SAMPLED BY: PR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:23	2.25	7.04	639	60.8	Cloudy	Light	None
9:26	4.5	7.65	622	60.9	Cloudy	Light	None
9:29	6.75	7.56	596	61.5	Cloudy	Light	None

Pumped dry Yes / No (circled)

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: 155
☐ Dedicated: ______
☐ Other: ______

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-4	3-27-98	9:30	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NO	TPHD, TPHMO
			1	1L	Plast	HNO3	Metals

REMARKS: DO: 1.2

[signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Blaycock St WELL ID #: MW-6

CLIENT/STATION No.: Former Dorothea 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 19.50 DTW 10.10 = 9.4 x Gal/Linear Foot .17 = 1.59 x Number of Casings 3 = Calculated Purge 4.79

DATE PURGED: 3-27-98 START: 10:00 END (2400 hr): _____ PURGED BY: RE

DATE SAMPLED: 3-27-98 START: 10:15 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:04	1.5	7.59	1970	59.4	Brn	Heavy	Mod
10:08	3	7.53	1960	59.2	Brn	Heavy	Mod
10:11	4.5	7.47	1970	59.9	Brn	Heavy	Mod

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: 15-9
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW6	3-27-98	10:15	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb.	ND	TPHD, TPHmo
			1	1L	plast.	HNO3	Metals

REMARKS: 10:20

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Blaycock St WELL ID #: MW-7

CLIENT/STATION No.: FORMER DuPont SITE FIELD TECHNICIAN: PEDRO RUIZ

WELL INFORMATION		CASING DIAMETER	GAL/ LINEAR FT.	SAMPLE TYPE
Depth to Liquid: ____ TOB ____ TOC		☒ 2	0.17	☒ Groundwater
Depth to water: ____ TOB ____ TOC		☐ 3	0.38	☐ Duplicate
Total depth: ____ TOB ____ TOC		☐ 4	0.66	☐ Extraction well
Date: ____ Time (2400): ____		☐ 4.5	0.83	☐ Trip blank
Probe Type and I.D. #	☐ Oil/Water interface ____	☐ 5	1.02	☐ Field blank
	☐ Electronic indicator ____	☐ 6	1.5	☐ Equipment blank
	☐ Other; ____	☐ 8	2.6	☐ Other; ____

TD 17.75 - DTW 3.46 = 14.3 x Gal/Linear Foot .17 = 2.43 x Number of Casings 3 = Calculated Purge 7.29

DATE PURGED: 3-27-98 START: 8:45 END (2400 hr): ~~~ PURGED BY: PE

DATE SAMPLED: 3-27-98 START: 8:55 END (2400 hr): ~~~ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:48	2.5	7.75	1210	59.8	Cloudy	Mod	None
8:51	5	7.64	1190	60.2	Cloudy	Mod	None
8:54	7.5	7.28	1200	62.4	Cloudy	Mod	None

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: 15-1
- ☐ Dedicated: ____
- ☐ Other: ____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	3-27-98	8:55	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo
			2	1L	plast	HNO3	Metals

REMARKS: DO: 2.4

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360014.28 LOCATION: 2901 Glacier St WELL ID #: MW8

CLIENT/STATION No.: Former Dupont 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 8.86 = 8.85 x Gal/Linear Foot .17 = 1.60 x Number of Casings 3 = Calculated Purge 4.51

DATE PURGED: 3-27-98 START: 9:40 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 3-27-98 START: 9:55 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:43	1.5	7.17	1410	60.5	Cloudy	Mod	Mod
9:46	3	7.23	1400	606	Cloudy	Mod	Mod
9:49	4.5	7.36	1430	609	Cloudy	Mod	Mod

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: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: 15
- ☐ Dedicated: _____
- ☐ Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW8	3-27-98	9:55	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo
			1	1L	plast	HNO3	Metals

REMARKS: DO: 5.2

TRANSPORT FORM #: _____

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: B. P. Oil Att: Scott Hooton

ADDRESS: 295 Southwest 41st Street

CITY,STATE,ZIP: Renton, WA, 98055 PHONE #: 206-251-0689

DESCRIPTION OF WATER: WATER GENERATED FROM GROUNDWATER MONITORING ACTIVITIES.

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261.4 (B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Todd Livingston, P.E.
GENERATOR/AUTHORIZED AGENT

SIGNATURE & DATE 3.27.98

SITE INFORMATION

	BP Station # Street Address, City	Gals
1	2901 Adeline St Oakland CA.	45
2		
3		
4		
5		
6		

TOTAL GALLONS: 45

TRANSPORTER INFORMATION

NAME: Pacific Environmental Group
ADDRESS: 2025 Gateway Place, Suite #440
CITY,STATE,ZIP: San Jose, CA 95110 PHONE #: 408-441-7500

TRUCK ID #: 10 Peter B Reis

(Typed or printed full name & signature) (Date)

RECEIVING FACILITY

NAME: Seaport Environmental
ADDRESS: 675 Seaport Blvd.
CITY,STATE,ZIP: Redwood City, CA 94063 PHONE #: (415) 364-8154

APPROVAL #: 508-147 DAVID CONTRERAS David Contreras 3-27-98

(Typed or printed full name & signature) (Date)

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. 3000148B

Facility No: Former Dorr Oliver Site | Facility Address: 2901 Glascock St Oakland CA | Billing Refence Number: 172

CLIENT engineer: Dennis Buran | PACIFIC Point of Contact: Andrew/Shane | 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/ VPH gas (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 Finger Print as Diesel & motor oil		Cadmium, Chromium, Lead, Nickel, Zinc	Chlorinated Hydrocarbons (8010)	Comments:
MW1	5	40 ml	HCl NP	W	G	5-27-98	10:35	X							X				Fuel Fingerprint as Diesel & motor oil w/ silica Gel clean up.
MW2	↓	↓	↓	↓	↓	↓	10:55	↓							↓				
MW3	↓	↓	↓	↓	↓	↓	9:15	↓							↓				
MW4	↓	↓	↓	↓	↓	↓	9:30	↓							↓				
MW6	6	↓	HCl HNO3 NP	↓	↓	↓	10:15	↓							↓		X	X	
MW7	5	↓	HCl NP	↓	↓	↓	8:55	↓							↓				
MW8	6	↓	HCl HNO3 NP	↓	↓	↓	9:55	↓							↓		X	X	

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-27-98	15:00			
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

- [X] 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)
- [X] Standard (10 days)
- [ ] As Contracted