

W. A. CRAIG, INC.
Environmental Consulting and Contracting
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Contractor and Hazardous Substances License #455752
Cal/OSHA Statewide Annual Excavation Permit 559351
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Fax: (707) 252-3385

January 15, 1996

Mr. Barney Chan
Alameda Co. Dept. Of
Environ. Health
Division of Hazardous Mats
1131 Harbor Bay Parkway-2nd Floor
Alameda, CA 94502

PROJECT NO: 3406

95 JAN 23 PM 2: 25
ENVIRONMENTAL
PROTECTION

**SUBJECT: QUARTERLY MONITORING REPORTS FOR 2901 GLASCOCK
STREET, OAKLAND, CALIFORNIA.**

Dear Mr. Chan:

Enclosed are the reports for the subject property located at 2901 Glascock Street, Oakland, CA. We apologize for the delay in your receipt of these reports, but we were not given authorization to release them until now. These reports should keep you up-to-date on the past and recent progress of events.

If you have any questions, please feel free to call me at (707) 252-3353. Thank you for your cooperation in this matter.

Sincerely,

W.A. CRAIG, INC.


William A. Craig, II
Owner, R.E.A. 01414

FORMER DORR-OLIVER SITE
OAKLAND, CA
January 9, 1996

SITE CONDITIONS

Soils:

1. PCB's elevated in one area:
 - Outside the loading ramp (sample B-12) at concentration of 130,000 ppb.
 - Low levels of PCB's inside the building
 - near the former transformer (sample MW-8) at 1,500 ppb
 - near sample EB-5 at 660 ppb
2. Metals in soils elevated (above background levels) in four areas inside the building
 - Sample B-4, Pb, and Zn
 - Sample B-3, Pb and Zn
 - Sample B-2, Pb, Ni, and Zn
 - Sample MW-8, Pb, Ni, and Zn
3. Hydrocarbons
 - Fingerprinting identified the presence of mainly heavy end hydrocarbons at the site, oil & grease, and diesel fuel

Groundwater:

1. PCB's were not identified in the groundwater
2. Metals were identified in the groundwater at concentrations exceeding MCL's for Cr, Pb, and Ni.
3. Hydrocarbons are present in the downgradient monitoring well (MW-6) at 35,000 ppb diesel fuel and 5,400 ppb oil and grease.
4. VOA compounds according to EPA Method 8010:
 - Upgradient Well MW-7 contained .79 ppb 1,1 DCA and .74 ppb Trans-1,2 DCE, both concentrations are below MCL's
 - Site Well MW-4 contained .61 ppb DCE, below MCL's
 - Site Well MW-8 contained .53 ppb Vinyl chloride (at MCL of .5) and 1.3 ppb TCE (below MCL's)

Remedial Approach

1. Soils
 - Spot excavate elevated PCB in one area (Outside ramp area near B-12). Confirm limits of excavation with a field kit prior to excavation.
 - Remove flooring and metal shavings in sw portion of the building
2. Groundwater
 - Nutrient addition to selected interior wells to enhance biodegradation for hydrocarbon remediation. New Regional Board Guidance based on SB 1764, no groundwater supply wells within 250 feet of the site, sources removed, and biotreatment of groundwater.
 - Sample upgradient Well MW-7 (need base line), and resample Wells MW-6 and MW-8 for metal concentrations.
 - Continue groundwater monitoring quarterly
 - Analysis of plume stability.
 - Based on above analysis consider effort to install additional lateral monitoring well.

Table 1
Soil Analytical Data
 (TPH as Diesel, Motor Oil, PCBs, Metals, and pH)

Former Dorr-Oliver Site
 2901 Glascock Avenue
 Oakland, California

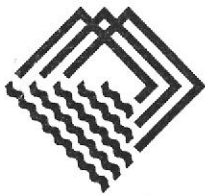
Sample ID	Sample Depth (feet)	Date Sampled	TPH-Fingerprint			Metals (ppm)					pH
			TPH as Diesel (ppm)	Motor Oil (ppm)	PCB's (ppb)	Cd	Cr	Pb	Ni	Zn	
B-2	1	11/10/95	NA	NA	660	ND	60.0	520	113	233	8.4
B-3	6	11/10/95	ND	720	NA	0.95	40.5	331	52.5	202	NA
B-4	1	11/10/95	NA	NA	30	10.7	40.7	298	59.7	788	8.3
B-5	1	11/10/95	NA	NA	ND	ND	27.3	32.4	23.4	79.2	9.0
B-6	1	11/10/95	11	22	ND	ND	30.0	26.5	29.8	86.4	8.4
	5		ND	ND	NA	NA	NA	NA	NA	NA	NA
B-7	1	11/10/95	32	45	19	ND	52.4	87.8	64.1	16.8	8.5
	5		ND	ND	NA	NA	NA	NA	NA	NA	NA
B-8	5	11/10/95	ND	ND	NA	NA	NA	NA	NA	NA	NA
B-9	5	11/13/95	12	ND	NA	NA	NA	NA	NA	NA	NA
B-10	1	11/09/95	NA	NA	44	ND	40.1	16.9	50.5	95.8	7.5
B-11	1	11/09/95	NA	NA	210	2.3	42.3	39.7	51.1	164	7.4
B-12	1	11/09/95	NA	NA	130,000	1.9	42.1	33	55.4	135	7.5
B-13	5	11/13/95	1,700	850	NA	NA	NA	NA	NA	NA	NA
B-14	5	11/10/95	ND	ND	NA	NA	NA	NA	NA	NA	NA
B-15	5	11/10/95	ND	ND	NA	NA	NA	NA	NA	NA	NA
MWV-8	1	11/16/95	NA	NA	1,500	5.4	79.8	803	109	581	9.4

ppb = Parts per billion
 ppm = Parts per million
 PCBs = Polychlorinated biphenyls (Aroclor 1260, all other PCBs were not detected)
 Cd = Cadmium
 Cr = Chromium
 Pb = Lead
 Ni = Nickel
 Zn = Zinc
 * = Results are pending
 NA = Not analyzed
 ND = Not detected

Table 2
Groundwater Analytical Data
 (TPH as Diesel, Motor Oil, PCBs, Metals, and VOCs)

Former Dorr-Oliver Site
 2901 Glascock Avenue
 Oakland, California

Well Number	Date Sampled	TPH-Fingerprint		PCB's (ppb)	Metals (ppb)					VOCs	
		Diesel (ppb)	Motor Oil (ppb)		Cd	Cr	Pb	Ni	Zn		
MW-1	11/29/95	ND	ND	NA	NA	NA	NA	NA	NA	ND	
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	ND	(1)
MW-6	11/29/95	35,000	5,400	ND	ND	822	107	1,190	851	ND	
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	ND	(2)
MW-8	11/29/95	NA	NA	ND	ND	319	42.0	381	309	ND	(3)
ppb = Parts per billion					Ni = Nickel						
PCBs = Polychlorinated biphenyls					Zn = Zinc						
Cd = Cadmium					VOCs = Volatile organic compounds						
Cr = Chromium					ND = Not detected						
Pb = Lead					NA = Not analyzed						
1. 0.61 - 1,1-Dichloroethane											
2. 0.79 - 1,1-Dichloroethane											
0.74 - <i>trans</i> -1,2-Dichloroethene											
3. 0.53 - Vinyl Chloride											
1.3 - Trichloroethene											



PACIFIC
ENVIRONMENTAL
GROUP, INC.

2.

September 10, 1996
Project 360-014.2B

Mr. Dennis Buran
Glascock Street Properties
436 14th Street, Room 305
Oakland, California 94612

Re: Quarterly Report - Third Quarter 1996
Former Dorr-Olive site
2901 Glascock Street, Oakland, California

Dear Mr. Buran:

The following presents the results of third quarter 1996 monitoring for the above referenced site (Figure 1). This letter has been prepared for Glascock Street Properties by Pacific Environmental Group, Inc. (PACIFIC).

SCOPE OF WORK

All eight groundwater monitoring wells (MW-1 through MW-8; Figure 2) were gauged and sampled by PACIFIC on July 2, 1996. The depth-to-groundwater and groundwater analytical data are presented in Tables 1 through 3. The wells were sampled for the presence of: total purgeable petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), TPH calculated as diesel (TPH-d), motor oil, and Methyl tert-Butyl Ether (MtBE). Depth-to-groundwater and hydrocarbon concentrations for the July 1996 sampling event are shown on Figure 1. The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment A.

GROUNDWATER LEVELS

Groundwater levels in site monitoring wells decreased an average 2.18 feet since the last sampling event. Groundwater flow is still southward toward the Oakland Estuary, consistent with previous measurements (Figure 2).

GROUNDWATER QUALITY

Diesel (TPH-d) remains the primary constituent found in groundwater. Diesel was quantified both as TPH-d and as a volatile portion of TPH-g (Attachment A). Highest TPH-d

ENVIRONMENTAL PROTECTION
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concentrations continue to be found in wells MW-1, MW-2, and MW-6, located down-gradient of the former underground storage tank area (Figure 2). Maximum benzene concentration in site wells was 3.1 parts per billion (ppb). MtBE was detected only in the upgradient well MW-7 at a concentration of 580 ppb.

STATUS OF REMEDIAL ACTIVITIES

A contractor has been selected to perform excavation and disposal of contaminated site soils. Soils will be removed and disposed of approximately within the next 60 days. Treatment of TPH-d impacted groundwater will be initiated in the third and fourth quarter of 1996.

RECOMMENDATIONS

Following the next quarterly event in which all parameters of concern will be tested (PCBs, metals and hydrocarbons), PACIFIC recommends that future groundwater analysis be limited to TPH-d. All other previously tested parameters have remained at low levels.

Given the absence of separate phase hydrocarbons and the significant decrease in dissolved hydrocarbon concentrations observed this quarter, PACIFIC recommends that bioslurping be suspended. PACIFIC recommends that oxygen releasing compound units be installed in wells MW-1, MW-2, MW-3, MW-5 and MW-6 to enhance biodegradation.

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

Sincerely,

Pacific Environmental Group, Inc.



Susan Willhite
Senior Geologist
C.E.G. 1272



- Attachments:
- Table 1 - Groundwater Elevation Data
 - Table 2 - Groundwater and Analytical Data -
Total Petroleum Hydrocarbons
(TPH-g, BTEX Compounds, TPH-d, Motor Oil, and
Methyl t-Butyl Ether)
 - Table 3 - Groundwater Analytical Data
Total Petroleum Hydrocarbons
(PCBs, Metals, and VOCs)
 - Figure 1 - Groundwater Monitoring Map

September 10, 1996
Page 3

Attachment A - Certified Analytical Report, Chain of Custody
Documentation, and Field Data Sheets

cc: Mr. Barney Chan, Alameda County Health Care Services Agency

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
	05/15/96		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
MW-2	10/06/94	10.62	7.17	3.45
	01/20/95		4.64	5.98
	05/15/96		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
MW-3	10/06/94	9.87	6.57	3.30
	01/20/95		4.47	5.40
	05/15/96		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
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69
	05/15/96		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
MW-5	05/15/96	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
MW-6	05/15/96	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

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-7	05/15/96	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
MW-8	01/18/96	10.61	7.15	3.46
	03/08/96		NA	NA
	07/02/96		10.80	-0.19

MSL = Mean sea level
 TOC = Top of casing
 NA = Not available

Table 2
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, Motor Oil, and Total Methyl tert-Butyl Ether)

Former Dorr-Oliver Site
 2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)	Methyl t-Butyl Ether (ppb)
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	a	ND	ND	ND	ND	6,600	ND	ND	
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	a	ND	ND	ND	ND	19,000	ND	ND	
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	a	ND	ND	ND	ND	640	ND	ND	
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	
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	a	ND	ND	ND	ND	110	ND	ND	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, Motor Oil, and Total Methyl tert-Butyl Ether)

Former Dorr-Oliver Site
 2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)	Methyl t-Butyl Ether (ppb)
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	a	3.1	ND	ND	ND	2,300	1,300	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
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

ppb = Parts per billion
 NS = Not sampled
 ND = Not detected
 NA = Not analyzed
 a = Not gasoline; volatile fraction of Diesel calculated as Gasoline. See Diesel results.

Table 3
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (PCBs, Metals, and VOCs)

Former Dorr-Oliver Site
 2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	PCB's (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Nickel (ppb)	Zinc (ppb)	VOCs (ppb)
MW-1	11/29/95	NA	NA	NA	NA	NA	NA	ND
	01/18/96	NA	ND	ND	ND	ND	ND	NA
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	ND	NA
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	51.2	NA
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND (1)
	01/18/96	NA	ND	ND	ND	ND	20.5	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
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND (2)
	01/18/96	NA	ND	ND	ND	ND	25.1	NA
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND (3)
	01/18/96	NA	ND	ND	ND	ND	ND	NA

ppb	= Parts per billion
PCBs	= Polychlorinated biphenyls
VOCs	= Volatile organic compounds
ND	= Not detected
NA	= Not analyzed
1.	0.61 - 1,1-Dichloroethane
2.	0.79 - 1,1-Dichloroethane
	0.74 - <i>trans</i> -1,2-Dichloroethene
3.	0.53 - Vinyl Chloride
	1.3 - Trichloroethene

Table 3
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (PCBs, Metals, and VOCs)

Former Dorr-Oliver Site
 2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	PCB's (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Nickel (ppb)	Zinc (ppb)	VOCs (ppb)
MW-1	11/29/95	NA	NA	NA	NA	NA	NA	ND
	01/18/96	NA	ND	ND	ND	ND	ND	NA
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	ND	NA
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	51.2	NA
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND (1)
	01/18/96	NA	ND	ND	ND	ND	20.5	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
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND (2)
	01/18/96	NA	ND	ND	ND	ND	25.1	NA
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND (3)
	01/18/96	NA	ND	ND	ND	ND	ND	NA

ppb	= Parts per billion
PCBs	= Polychlorinated biphenyls
VOCs	= Volatile organic compounds
ND	= Not detected
NA	= Not analyzed
1.	0.61 - 1,1-Dichloroethane
2.	0.79 - 1,1-Dichloroethane 0.74 - <i>trans</i> -1,2-Dichloroethene
3.	0.53 - Vinyl Chloride 1.3 - Trichloroethene



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

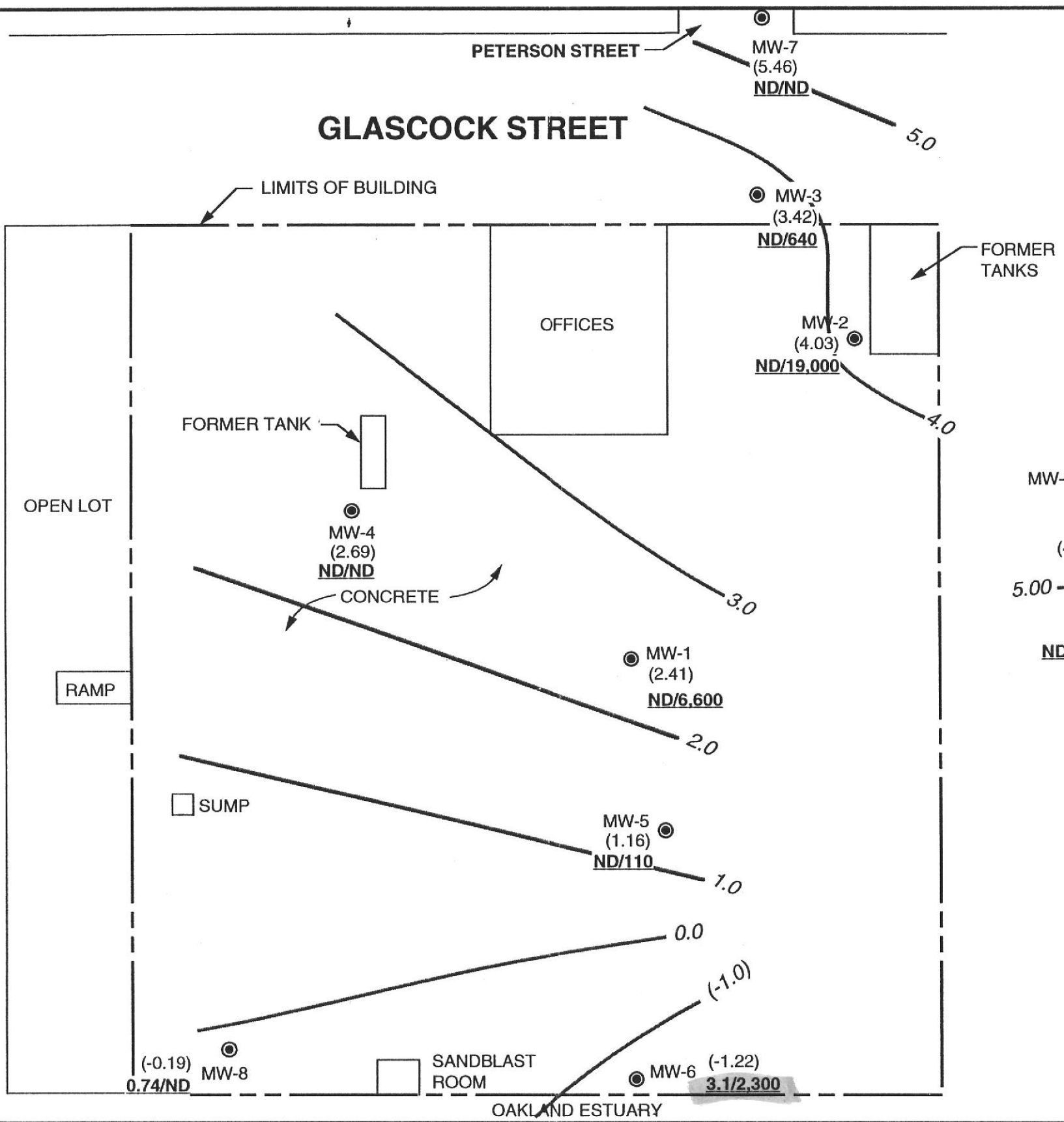


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FORMER DORR-OLIVER SITE
 2901 Glascock Street
 Oakland, California

SITE LOCATION MAP

FIGURE:
1
PROJECT:
360-014.2B



LEGEND

MW-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(4.03) GROUNDWATER ELEVATION IN FEET - MSL, 7-2-96

5.00 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 7-2-96

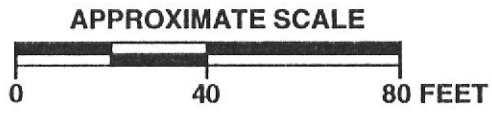
ND/110 BENZENE/TPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 7-2-96

ND NOT DETECTED

SOURCE: Map from W.A. Craig dated 6-95



PACIFIC ENVIRONMENTAL GROUP, INC.



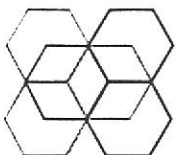
FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

GROUNDWATER MONITORING MAP

FIGURE: 2
PROJECT: 360-014.2B

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT, CHAIN OF CUSTODY
DOCUMENTATION, AND FIELD DATA SHEETS**



07/13/96

A/E4292

RHONDA DeJUNG
PACIFIC ENVIRONMENTAL GROUP, INC.
2025 GATEWAY PLACE, SUITE 440
SAN JOSE, CA 95110

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID: 360 014 2A
Date Received by Lab: 07/03/96
Total Number of Samples: 8
Sample Matrix: WATER

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.


Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

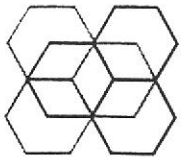
Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7, 1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 12 pages.

Reviewed and Approved:


Laurie Glantz-Murphy, Laboratory Manager



TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: 360 014 2A

Date Sampled: 07/02/96

Date Received: 07/03/96

Date Extracted: 07/03/96

Matrix: Water

Analyst: *DM*

Concentration in sample expressed as ug/L (ppb).

Sample ID	Diesel	Oil	Lab I.D.	Date Analyzed	PQL
MW-1	6600	ND	4292-01	07/05/96	1000
MW-2	19000	ND	4292-02	07/05/96	3000
MW-3	640	ND	4292-03	07/05/96	50
MW-4	ND	ND	4292-04	07/05/96	50
MW-5	110	ND	4292-05	07/05/96	50
MW-6	2300	1300	4292-06	07/05/96	300
MW-7	ND	ND	4292-07	07/05/96	50
MW-8	ND	ND	4292-08	07/05/96	50
Method Blank	ND	ND	4292-MB	07/05/96	50

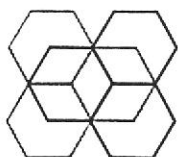
PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel.

Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil.

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 3550 is used for sample preparation.



TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE/DUPLICATE - WATER

Batch I.D. LCS: 960704-20
Date Analyzed: 07/05/96

Batch I.D. LCS/D: 960704-21
Date Analyzed: 07/05/96

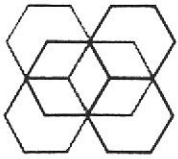
Date Extracted: 07/03/96

Laboratory ID: LCS/D WATER 7-3

Concentration of sample and spikes expressed as ug/L (ppb).

ANALYTE	Spike Added	LCS Conc	LCSD Conc	LCS %Rec	LCSD %Rec	RPD	%Rec Limits	RPD Limits
Diesel	500	495	500	99%	100%	-1%	57-116	37

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits.



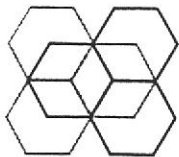
**TPH-EXTRACTABLE BY GC/FID
MATRIX SPIKE / MATRIX SPIKE DUPLICATE REPORT - WATER**

Client Project/I.D.: 360 014 2A
Laboratory I.D.: 4292-04-MS/MSD
Date Extracted: 07/03/96
Date Analyzed: 07/05/96

Concentration of sample and spikes expressed as ug/L (ppb).

ANALYTE	Sample Conc	Spike Added	Spike Conc	Spike Dup Conc	Spike %Rec	Spike Dup %Rec	RPD	%Rec Limits	RPD Limits
Diesel		50	510	545	102%	109%	-7%	57-116	37

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **360 014 2A**

Matrix: **Water**
Date Received: **07/02/96**
Analyst: *Ym*

Sample I.D.:	MW-1	MW-2	MW-3 ^b	MW-4	MW-5 ^b	MW-6	MW-7	MW-8	PQL ppb
Methyl-tert-Butyl Ether	ND	<50	ND	ND	ND	<25	580 ^c	ND	5
Benzene	ND	<5	ND	ND	ND	3.1	<5	.74	.5
Toluene	ND	<5	ND	ND	ND	<2.5	<5	.88	.5
Ethylbenzene	ND	<5	ND	ND	ND	<2.5	<5	ND	.5
Xylenes-Total	ND	<5	ND	ND	ND	<2.5	<5	.82	.5
TPH-Gasoline	5300 ^a	9300 ^a	230 ^a	ND	200 ^a	3300 ^a	<500	ND	50

Surrogate Recovery									Limits
a,a,a-TFT(FID)	90%	96%	98%	106%	94%	100%	101%	99%	64-129
4-BFB(FID)	104%	107%	103%	112%	104%	102%	112%	111%	55-151
4-BFB(PID)	115%	107%	110%	107%	115%	105%	110%	113%	68-137
Dilution Factor	5	10	1	1	1	5	10	1	
Laboratory I.D.:	4292-01	4292-02	4292-03	4292-04	4292-05	4292-06	4292-07	4292-08	
Batch I.D.:	0706-26	0706-27	0708-09	0711-06	0708-10	0708-07	0708-08	0708-11	
Date Sampled:	07/02/96	07/02/96	07/02/96	07/02/96	07/02/96	07/02/96	07/02/96	07/02/96	
Date Analyzed:	07/07/96	07/07/96	07/08/96	07/11/96	07/08/96	07/08/96	07/08/96	07/08/96	

^a Not Gasoline; volatile fraction of Diesel calculated as Gasoline. See Diesel results.

^b Sample contains significant unidentified peaks.

^c Mtbe has not been confirmed by GC/MS.

Concentration of samples expressed as ug/L (ppb).

PQL = Practical Quantitation Limit.

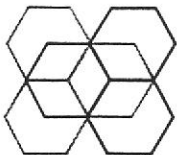
ND = Not Detected at or above the PQL.

< = Increased PQL due to sample dilution.

E - Exceeds the calibration range; use 2nd dilution result for this analyte only.

Volatiles Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Trap) is used for sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: INSTRUMENT BLANK

Batch I.D.: 0706-01.D

Date Acquired: 07/06/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

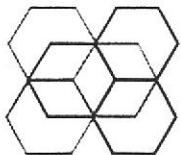
PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	105%	73-126
4-BFB(FID)	109%	67-146
4-BFB(PID)	110%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: INSTRUMENT BLANK

Batch I.D.: 0708-01.D

Date Acquired: 07/08/96

Concentration of blank expressed as ug/L (ppb).

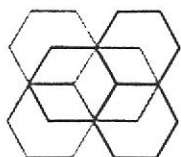
Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	105%	73-126
4-BFB(FID)	108%	67-146
4-BFB(PID)	109%	82-119

Volatiles Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: INSTRUMENT BLANK

Batch I.D.: 0711-01.D

Date Acquired: 07/11/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

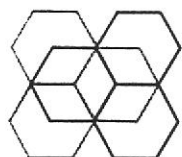
PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	107%	73-126
4-BFB(FID)	108%	67-146
4-BFB(PID)	109%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

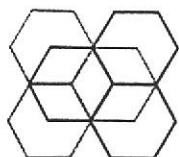
Date Acquired: 07/06/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	104%	82-113
Benzene	20.	21.	103%	84-113
Toluene	20.	22.	108%	90-110
Ethylbenzene	20.	21.	105%	89-112
m,p-Xylenes	20.	21.	107%	88-113
o-Xylene	20.	21.	103%	88-114
TPH-Gasoline	1,250.	1,263.	101%	77-130

Surrogates	LSC-8020M	Batch ID:	0706-04	
a,a,a-TFT-FID			98%	73-126
4-BFB-FID			109%	67-146
4-BFB-PID			110%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0706-05	
a,a,a-TFT-FID			87%	73-126
4-BFB-FID			123%	67-146
4-BFB-PID			112%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Date Acquired: 07/08/96

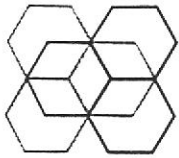
Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	41.	103%	82-113
Benzene	20.	20.	98%	84-113
Toluene	20.	21.	106%	90-110
Ethylbenzene	20.	21.	104%	89-112
m,p-Xylenes	20.	21.	106%	88-113
o-Xylene	20.	21.	105%	88-114
TPH-Gasoline	1,250.	1,309.	105%	77-130

Surrogates	LSC-8020M	Batch ID:	0708-04	
a,a,a-TFT-FID			98%	73-126
4-BFB-FID			110%	67-146
4-BFB-PID			111%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0708-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			130%	67-146
4-BFB-PID			111%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Date Acquired: 07/11/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	40.	101%	82-113
Benzene	20.	19.	95%	84-113
Toluene	20.	20.	100%	90-110
Ethylbenzene	20.	20.	100%	89-112
m,p-Xylenes	20.	20.	102%	88-113
o-Xylene	20.	20.	102%	88-114
TPH-Gasoline	1,250.	1,320.	106%	77-130

Surrogates	LSC-8020M	Batch ID:	0711-04	
a,a,a-TFT-FID			101%	73-126
4-BFB-FID			107%	67-146
4-BFB-PID			109%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0711-05	
a,a,a-TFT-FID			94%	73-126
4-BFB-FID			129%	67-146
4-BFB-PID			109%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.

PROJECT No. 360 0142A

Chain of Custody

A1E424

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

Facility No. FORMER Dorr Oliver site Facility Address: 2801 Glenrock St Oakland CA.
CLIENT engineer: DENNIS BURAN PACIFIC Point of Contact: PORTINULEV Sampler: PEDRO LUIZ Billing Reference Number: 31944

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	TPH			Total Dislvd. Metals	VOC (EPA 624/8240)	SVOC (EPA 627/8270)	HVOC (EPA 601/8010)	Comments:
								TPHgas (8015/8020)	TPH Diesel (8015)	TPH Oil and Grease (5520)					
Mw-1	16	40 mL	ACUP	W	G	7-2-96	12:50	X	X						*TPH, BTEX, TPH-D, TPH motor oil FUEL FILTER A1 motor oil by EPA 805
Mw-2							13:15								
Mw-3							10:30								
Mw-4							11:20								
Mw-5							12:05								
Mw-6							12:30								
Mw-7							10:55								
Mw-8	*	*	*	*	*	*	11:40	*	*						

Condition of Sample:		Temperature Received:		Mail original Analytical Report to:		Turnaround Time:	
Relinquished by	Date	Time	Received by	Date	Time	Pacific Environmental Group	
<i>[Signature]</i>	7-2-96	15:00	<i>[Signature]</i>	7/4/96	15:00	2025 Gateway Place #440 <input checked="" type="checkbox"/>	
Relinquished by	Date	Time	Received by	Date	Time	San Jose, CA 95110	
<i>[Signature]</i>	7/3/96	10:30	<i>[Signature]</i>	7-3-96	10:30	620 Contra Costa Blvd. #209 <input type="checkbox"/>	
Relinquished by	Date	Time	Received by	Date	Time	Pleasant Hill, CA 94523	
						25725 Jeronimo Rd. #576C <input type="checkbox"/>	
Relinquished by	Date	Time	Received by	Date	Time	Mission Viejo, CA 92622	
						4020 148th Ave NE #B <input type="checkbox"/>	
Relinquished by	Date	Time	Received by laboratory	Date	Time	Redmond, WA 98052	
						As Contracted <input checked="" type="checkbox"/>	

FIELD SERVICES / O & M REQUEST

SITE INFORMATION FORM

Project #: 360-014.2a

1st time visit

Station #: Former Dorr-Oliver Site 1st 2nd 3rd 4th

Date of Request: 6/24/96

Site Address: 2601 Glascock Street Monthly

Ideal Field Date: 6/27/96

Oakland, CA Semi-Monthly

County: Alameda County Weekly

Budget Hrs. 8

Project Manager: Ross Tinline One time Event

Actual Hrs. 8 1/2

Requestor: Ross Tinline Other. _____

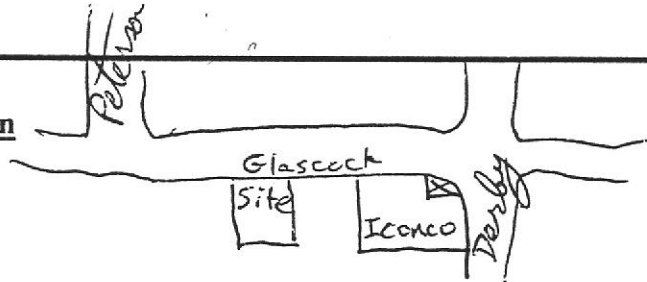
Mob de Mob _____

Client: Glascock Street Properties

Client P.O.C.: Dennis Buran

Prefield contacts: Notify Gary Martz or Bill Roland prior to work commencing: (510) 261-1901 or (510)532-1788. Pick up keys to warehouse at Iconco located at corner of Derby and Glascock Street

Field Tasks: For General Description



Comments, remarks, from Field Staff (include problems encountered)

Perform 2nd Qtr Sampling.
Set up as qtrly event

NEED to get up a water Disposal place

Completed by: [Signature] Date: 6/24

Checked by: [Signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 29016/14cock st WELL ID #: MW-1

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: PEDRO POIZ

WELL INFORMATION

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

CASING DIAMETER

<input checked="" type="checkbox"/>	2	_____	0.17
<input type="checkbox"/>	3	_____	0.38
<input type="checkbox"/>	4	_____	0.66
<input type="checkbox"/>	4.5	_____	0.83
<input type="checkbox"/>	5	_____	1.02
<input type="checkbox"/>	6	_____	1.5
<input type="checkbox"/>	8	_____	2.6

GAL/ LINEAR FT.

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

Probe Type and I.D. #
 Oil/Water interface _____
 Electronic indicator _____
 Other: _____

TD 1980 DTW 835 = 1145 Gal/Linear Foot .17 = 194 x Casings 3 Calculated = Purge 5.83

DATE PURGED: 7-2-96 START: 12:35 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 12:50 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>12:38</u>	<u>2</u>	<u>6.90</u>	<u>1120</u>	<u>65.7</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</u>
<u>12:42</u>	<u>1</u>	<u>6.93</u>	<u>1100</u>	<u>65.5</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</u>
<u>12:45</u>	<u>6</u>	<u>6.88</u>	<u>1070</u>	<u>65.4</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</u>

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: _____ Airlift Pump: _____
 Centrifugal Pump: 15 Dedicated: _____
 Other: _____

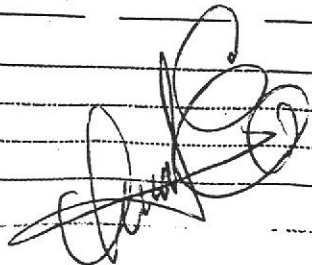
SAMPLING EQUIPMENT/I.D.

Bailer: B&P
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-1</u>	<u>7-02-96</u>	<u>12:50</u>	<u>3</u>	<u>10ml</u>	<u>UOA</u>	<u>HCC</u>	<u>TPHG, BTex</u>
_____	_____	_____	<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS: _____

small dots of pH out top of H2O



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 2901 Colascock st WELL ID #: MW-2

CLIENT/STATION No.: FORMER DORR-DIER SITE FIELD TECHNICIAN: PEDRO POIZ

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		GAL/ LINEAR FT.
DIAMETER	_____	_____
<input checked="" type="checkbox"/> 2	_____	0.17
<input type="checkbox"/> 3	_____	0.38
<input type="checkbox"/> 4	_____	0.66
<input type="checkbox"/> 4.5	_____	0.83
<input type="checkbox"/> 5	_____	1.02
<input type="checkbox"/> 6	_____	1.5
<input type="checkbox"/> 8	_____	2.6

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD 19.75 - DTW 6.60 = 13.15 Gal/Linear Foot .17 = 223 x Casings 3 = Calculated Purge 6.70

DATE PURGED: 7-2-96 START: 13:00 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 13:15 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>13:04</u>	<u>2.25</u>	<u>6.91</u>	<u>1970</u>	<u>67.8</u>	<u>Cloudy</u>	<u>Med</u>	<u>Heavy</u>
<u>13:07</u>	<u>4.5</u>	<u>7.86</u>	<u>1980</u>	<u>67.3</u>	<u>Cloudy</u>	<u>Med</u>	<u>Heavy</u>
<u>13:11</u>	<u>6.75</u>	<u>7.38</u>	<u>2010</u>	<u>66.5</u>	<u>Cloudy</u>	<u>Med</u>	<u>Heavy</u>

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D.

Bailer: _____
 Centrifugal Pump: 15
 Other: _____

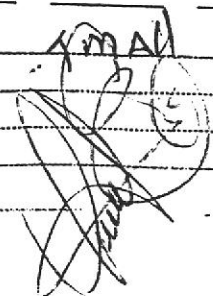
Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 15
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW2</u>	<u>7-2-96</u>	<u>13:15</u>	<u>3</u>	<u>40ml</u>	<u>WA</u>	<u>HCC</u>	<u>TPH G / BTEX</u>
			<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH D, TPH MO</u>

REMARKS: Small amt of IPA on top of water.



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/192A LOCATION: 2901 G/MCOCK ST WELL ID #: MW-3

CLIENT/STATION No.: FORMER DORR DIERSITE FIELD TECHNICIAN: PEDRO POIZ

WELL INFORMATION

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

CASING DIAMETER

<input checked="" type="checkbox"/>	2	_____	0.17
<input type="checkbox"/>	3	_____	0.38
<input type="checkbox"/>	4	_____	0.66
<input type="checkbox"/>	4.5	_____	0.83
<input type="checkbox"/>	5	_____	1.02
<input type="checkbox"/>	6	_____	1.5
<input type="checkbox"/>	8	_____	2.6

GAL/ LINEAR FT.

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

Probe Type and I.D. #
 Oil/Water interface
 Electronic indicator
 Other: _____

TD 19.80 - DTW 6.45 = 13.35 Gal/Linear Foot .17 = 2.26 x Number of Casings 3 = Calculated = Purge 6.80

DATE PURGED: 7-2-96 START: 10:30 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 10:30 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:29</u>	<u>2.25</u>	<u>6.97</u>	<u>1080</u>	<u>64.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>10:27</u>	<u>1.5</u>	<u>7.61</u>	<u>1000</u>	<u>64.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>10:30</u>	<u>6.75</u>	<u>7.61</u>	<u>9.95</u>	<u>64.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>

Pumped dry Yes / NO

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D.

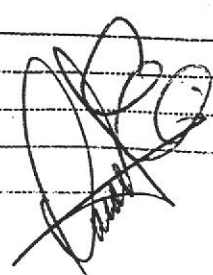
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: 15 Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 15-8
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-3</u>	<u>7-2-96</u>	<u>10:30</u>	<u>3</u>	<u>10ml</u>	<u>UOA</u>	<u>HCC</u>	<u>TPH, BTEX</u>
_____	_____	_____	<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH, TPHMO</u>

REMARKS: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 2901 Colascock st WELL ID #: MW-1

CLIENT/STATION No.: FORMER DORR/DIER SITE FIELD TECHNICIAN: PEDRO POIZ

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.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

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

TD 19.70 DTW 7.95 = 11.95 Gal/Linear Foot .17 = 1.99 x Casings 3 Calculated = Purge 599.

DATE PURGED: 7-2-96 START: 11:05 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 11:20 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:09</u>	<u>2</u>	<u>7.21</u>	<u>711</u>	<u>67.1</u>	<u>BRN</u>	<u>Mod</u>	<u>None</u>
<u>11:12</u>	<u>1</u>	<u>6.95</u>	<u>689</u>	<u>66.7</u>	<u>BRN</u>	<u>Mod</u>	<u>None</u>
<u>11:15</u>	<u>3</u>	<u>6.92</u>	<u>671</u>	<u>65.7</u>	<u>BRN</u>	<u>Mod</u>	<u>None</u>

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
<u>MW-1</u>	<u>7-2-96</u>	<u>11:20</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPHG, BTEX</u>
			<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS: _____

[Handwritten Signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 2901 BAYCOCK ST WELL ID #: MW-5

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: PEDRO POIZ

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.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

SAMPLE TYPE
 Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD 19.15 - DTW 9.15 = 10.3 Gal/Linear Foot .17 = 1.75 x Casings 3 Calculated = Purge 5.25

DATE PURGED: 7-2-96 START: 11:55 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 12:05 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:58</u>	<u>1.75</u>	<u>7.03</u>	<u>1160</u>	<u>65.7</u>	<u>BRN</u>	<u>HEAVY</u>	<u>NONE</u>
<u>12:01</u>		<u>6.93</u>	<u>1170</u>	<u>64.9</u>	<u>BRN</u>	<u>HEAVY</u>	<u>NONE</u>
<u>12:05</u>		<u>6.80</u>	<u>1180</u>	<u>64.6</u>	<u>BRN</u>	<u>HEAVY</u>	<u>W/CL</u>

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: 15-7
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW5</u>	<u>7-2-96</u>	<u>12:05</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPH, LIBTEX</u>
			<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NO</u>	<u>TPH, TPHMO</u>

REMARKS: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/192A LOCATION: 29013/14004 st WELL ID #: MW-6

CLIENT/STATION No.: FORMER DORR DIETZ FIELD TECHNICIAN: REDO POIZ

WELL INFORMATION

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

CASING DIAMETER	GAL/ LINEAR FT.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

- SAMPLE TYPE**
- Groundwater
 - Duplicate
 - Extraction well
 - Trip blank
 - Field blank
 - Equipment blank
 - Other: _____

Probe Type and I.D. #

- Oil/Water interface _____
- Electronic indicator _____
- Other: _____

TD 19.50 DTW 11.50 = 8 Gal/Linear x Foot .17 = 1.36 x Casings 3 = Purge 4.08

DATE PURGED: 7-2-96 START: 12:15 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 7-2-96 START: 12:30 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>12:19</u>	<u>1.25</u>	<u>6.83</u>	<u>1200</u>	<u>63.7</u>	<u>Clear</u>	<u>Mod</u>	<u>HEAVY</u>
<u>12:22</u>	<u>2.5</u>	<u>6.74</u>	<u>1200</u>	<u>63.3</u>	<u>Clear</u>	<u>Mod</u>	<u>strong</u>
<u>12:25</u>	<u>3.75</u>	<u>6.70</u>	<u>1200</u>	<u>63.2</u>	<u>Clear</u>	<u>Mod</u>	<u>strong</u>

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: B21004
- Dedicated: _____
- Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW6</u>	<u>7-2-96</u>	<u>12:30</u>	<u>3</u>	<u>40ml</u>	<u>WA</u>	<u>HCC</u>	<u>TPDG, BTEX</u>
_____	_____	_____	<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS:

light GREEN ON TOP OF WATER



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 29016/1400K st WELL ID #: MW-7

CLIENT/STATION No.: FORMER DORR SITE FIELD TECHNICIAN: REDRO POIZ

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.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

SAMPLE TYPE
 Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD 17.15 - DTW 1.10 = 13.35 Gal/Linear Foot .17 = 2.26 Number of Casings 3 Calculated = Purge 680

DATE PURGED: 7-2-96 START: 10:10 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 7-2-96 START: 10:55 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:13</u>	<u>2.25</u>	<u>7.30</u>	<u>1130</u>	<u>66.5</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>10:17</u>	<u>1.5</u>	<u>7.25</u>	<u>1140</u>	<u>67.1</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>10:50</u>	<u>6.75</u>	<u>7.20</u>	<u>1150</u>	<u>67.3</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>

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: 15-3
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-7</u>	<u>7-02-96</u>	<u>10:55</u>	<u>3</u>	<u>10ml</u>	<u>WBA</u>	<u>HCC</u>	<u>TPDG, BTEX</u>
			<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS: _____

[Handwritten Signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600192A LOCATION: 29016/1400K st WELL ID #: MW-8

CLIENT/STATION No.: FORMER DORPNER SITE FIELD TECHNICIAN: PEDRO POIZ

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.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other; _____

TD 17.70 DTW 10.80 = 6.9 Gal/Linear Foot .17 = 1.17 x Number of Casings 3 = Calculated Purge 3.51

DATE PURGED: 7-2-96 START: 11:30 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 7-2-96 START: 11:40 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:33</u>	<u>1</u>	<u>6.90</u>	<u>851</u>	<u>67.1</u>	<u>Brd</u>	<u>Heavy</u>	<u>None</u>
<u>11:36</u>	<u>2</u>	<u>6.96</u>	<u>1000</u>	<u>65.4</u>	<u>Brd</u>	<u>Heavy</u>	<u>None</u>
<u>11:39</u>	<u>3</u>	<u>6.87</u>	<u>965</u>	<u>64.9</u>	<u>Brd</u>	<u>Heavy</u>	<u>None</u>

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: 15-12
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW8</u>	<u>7-2-96</u>	<u>11:40</u>	<u>3</u>	<u>10ml</u>	<u>UOA</u>	<u>HCC</u>	<u>TPHG / BTEX</u>
			<u>3</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS: _____



PROJECT No. 360 0142A

Chain of Custody

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

Facility No. Former Dorr Oliver site

Facility Address: 2201 Gilmancock St Oakland CA.

Billing Reference Number: 31944

CLIENT engineer: Dennis Bureau

PACIFIC Point of Contact: Port T. Wilson

Sampler: Pedro Lopez

Laboratory Name: AU/EN

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	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)	Comments:
Mw-1	6	40 ml L	11C-11P	W	G	7-02-96	12:50	X	X						*TPH, BTEX. *TPH-D, TPH motor oil FUEL FINGER print by EPA 8015
Mw-2							13:15								
Mw-3							10:30								
Mw-4							11:23								
Mw-5							12:05								
Mw-6							12:30								
Mw-7							10:55								
Mw-8	X	X	X	X	X	X	11:40	X	X						

Condition of Sample:

Relinquished by: *[Signature]*

Temperature Received:

Mail original Analytical Report to:
 Pacific Environmental Group

Turnaround Time:

Relinquished by	Date	Time
	7-02-96	15:00
Relinquished by	Date	Time
Relinquished by	Date	Time
Relinquished by	Date	Time

Received by	Date	Time
Received by	Date	Time
Received by	Date	Time
Received by laboratory	Date	Time

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

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