

Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

ENVIRONMENTAL
PROTECTION
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QUARTERLY GROUNDWATER SAMPLING REPORT

(Sampled August 23, 1995)

1211

PACIFIC CRYOGENIC COMPANY
2311 Magnolia Street
Oakland, CA

September 6, 1995

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I. INTRODUCTION

The subject site is the historical location of Pacific Cryogenic Company at 2311 Magnolia Street, Oakland, California. The location of the site is shown on Figure 1 (site location map).

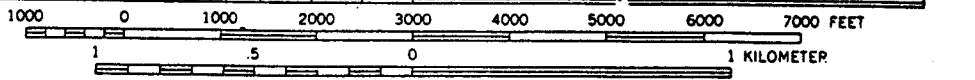
On June 30 and July 12, 1989, Geo-Environmental Technology removed three underground storage tanks from the subject site: one 8,000-gallon underground Diesel tank, one 1,000-gallon underground Gasoline tank, and one 550-gallon underground Waste Oil tank.

Due to the detection of subsurface contamination in the vicinity of the Gasoline and Waste Oil tanks, shallow groundwater monitoring well MW-1 was installed by Geo-Environmental Technology at the previous tank locations (see Figure 2). The results of shallow groundwater sampling on October 26, 1990, indicated the presence of Diesel at a concentration of 5,400 $\mu\text{g/L}$, and Benzene, Toluene, Ethylbenzene, and Total Xylenes at concentrations of 1,200 $\mu\text{g/L}$, 18 $\mu\text{g/L}$, 7.1 $\mu\text{g/L}$, and 37 $\mu\text{g/L}$, respectively.

Subsequent to the installation and sampling of monitoring well MW-1, two additional shallow groundwater monitoring wells were installed on the subject site (wells MW-2 and MW-3). No data regarding these well installations appear to be available at the present time.

On November 12, 1992, the underground piping running between the previous Gasoline and Waste Oil underground tanks and the previous dispenser pedestal were removed by Hageman-Aguilar,

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

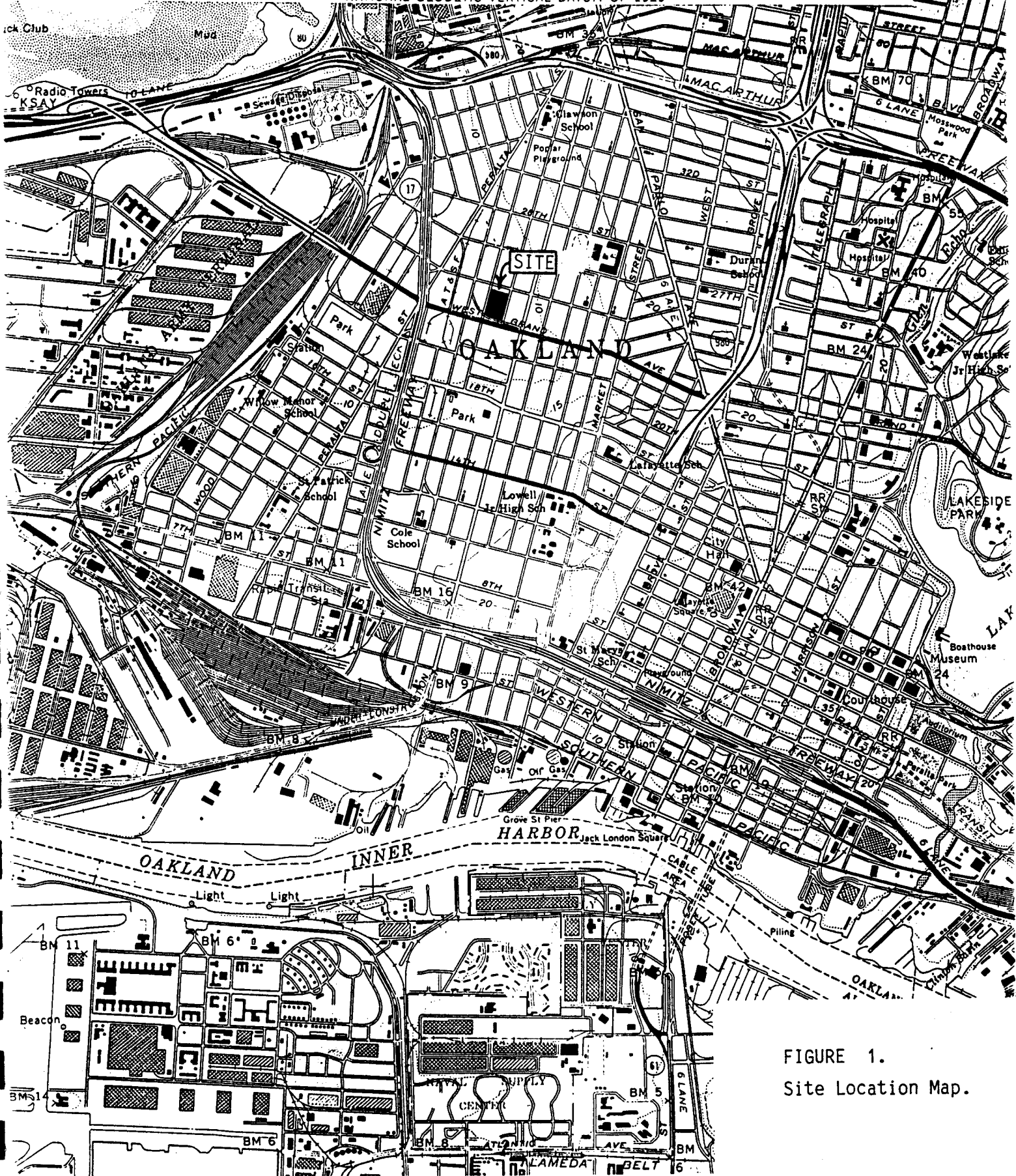
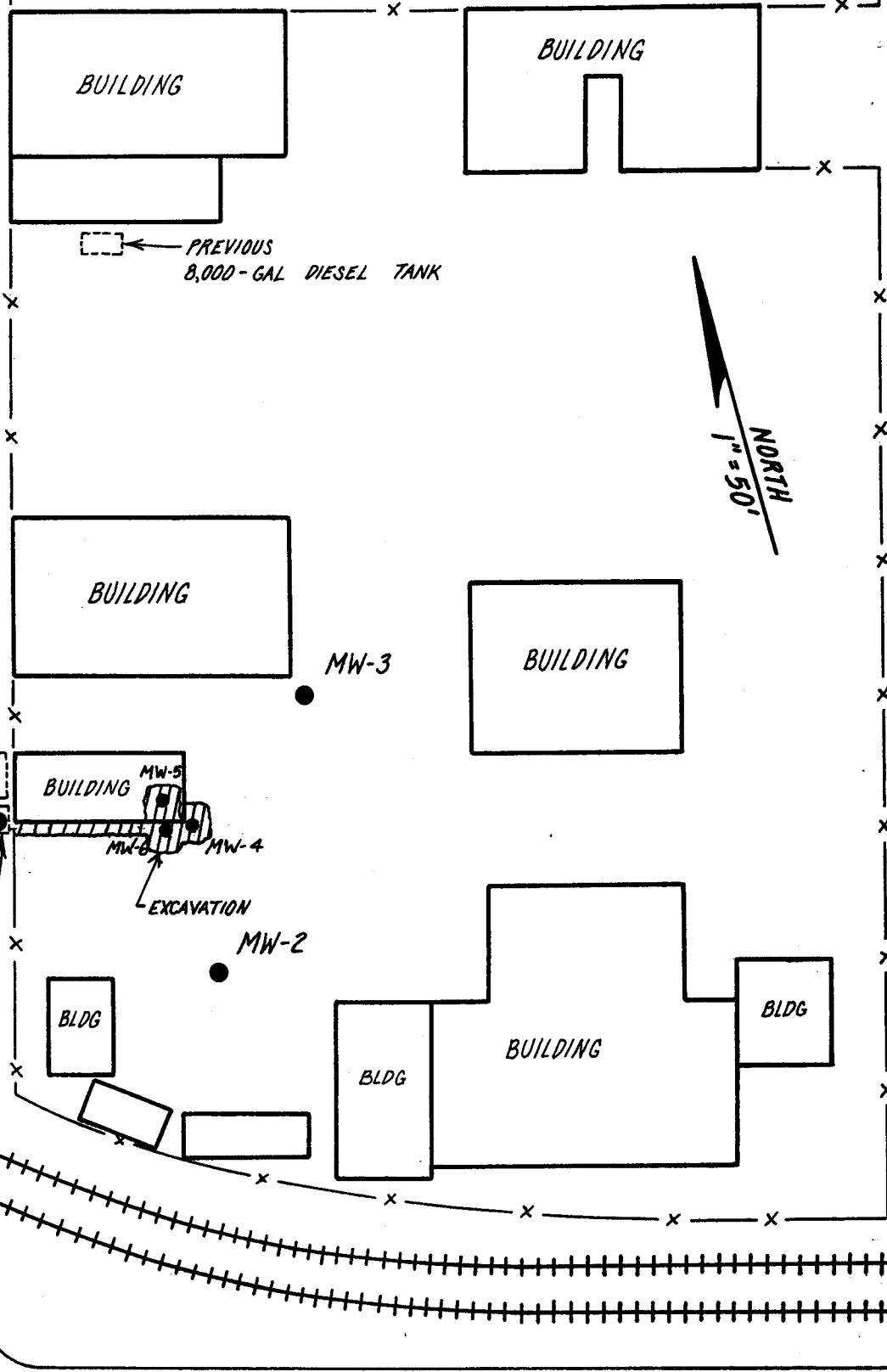


FIGURE 1.
 Site Location Map.

UNION STREET

MAGNOLIA STREET



WEST GRAND AVENUE

FIGURE 2. Site Map

Inc. (see Figure 2). During the removal process, several holes were noted in both the waste oil and the gasoline underground pipelines. At one location, significant gasoline contamination was apparent in the soil (based upon odor and color).

Subsequent to the piping removal, additional excavation was conducted on November 18, 1992. The excavation extended to a depth of approximately 15 feet below ground surface and was conducted in order to mitigate the apparent subsurface gasoline contamination. Upon completion of the soil excavation on November 18, 1992, three excavation backfill wells were installed. The locations of these monitoring wells MW-4, MW-5 and MW-6 are shown in Figure 2.

On August 23, 1995, on-site monitoring wells MW-1, MW-2, MW-3 and MW-4 were sampled for the laboratory analysis for dissolved petroleum constituents.

II. FIELD WORK

Monitoring Well Sampling

On August 23, 1995, groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, and MW-4. Prior to groundwater sampling, each well was purged by bailing approximately 5 to 10 casing volumes of water. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process proceeded, the three parameters were monitored. Purging continued until readings appeared to have reasonably stabilized. After the water level in the well had attained 80% or more of the original static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside appropriate 40 mL VOA vials and 1-liter amber bottles free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to the laboratory at the end of the work day.

At the time each monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear teflon bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample.

Copies of the well sampling logs are included as Attachment A.

Wastewater Generation

All water removed from the wells during purging and sampling was drummed and stored on-site until the results of laboratory analyses were obtained. Based upon these results, the water should be transported as a hazardous liquid waste under proper manifest to an appropriate TSD facility for treatment and disposal.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Shallow Groundwater Flow Direction

Shallow water table elevations were measured on August 23, 1995. These measurements are shown in Table 1. Figure 3 presents a contour map for the shallow groundwater table beneath the site. As shown in this figure, the data from the three monitoring wells indicate that the shallow groundwater flow was in the easterly direction during this round of groundwater sampling.

Shallow Water Table Hydraulic Gradient

Figure 3 presents the contour map for the shallow groundwater table beneath the site. As shown in this figure, the shallow groundwater table beneath the site appears to have a calculated hydraulic gradient of $dH/dL = 0.4'/83' = 0.0048$.

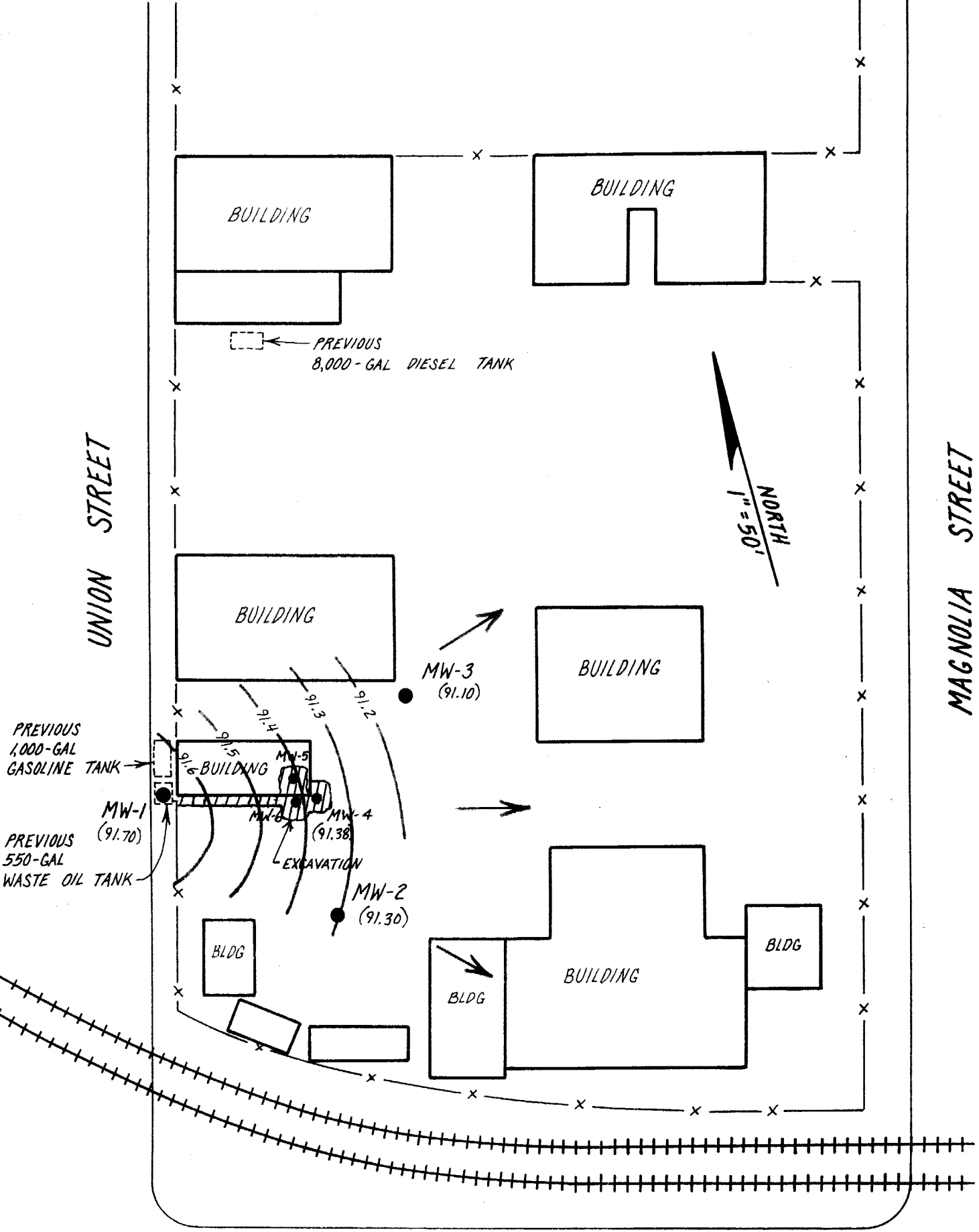
Historical Water Level Measurements

Table 2 presents the results of all water level measurements collected between April 3, 1992, and the present time.

TABLE 1.

**Shallow Water Table Elevations
August 23, 1995**

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1	99.27	7.57	91.70
MW-2	100.00	8.70	91.30
MW-3	100.02	8.92	91.10
MW-4	99.95	8.57	91.38



WEST GRAND AVENUE

FIGURE 3. Shallow Groundwater Contour Map. Measured on August 23, 1995.

TABLE 2.

**Historical Water Table Elevations
(feet)**

Well	Date of Measurement								
	4-3-92	6-16-92	10-8-92	1-7-93	4-23-93	7-16-93	11-8-93	2-2-94	5-2-94
MW-1	95.58	92.01	91.11	97.17	95.17	92.07	91.78	94.42	93.55
MW-2	93.25	91.60	90.83	94.24	92.69	91.46	91.04	92.55	92.19
MW-3	92.52	91.87	90.65	94.43	92.64	91.21	91.14	92.21	91.94
MW-4	---	---	---	---	---	91.48	91.16	92.67	92.37
Flow Direction	SE	SE	E	SE	SE	E	SE	E	E

Well	Date of Measurement								
	8-3-94	8-3-94	11-4-94	3-14-95	8-23-95				
MW-1	---	90.96	90.96	96.33	91.70				
MW-2	91.25	90.77	90.77	95.08	91.30				
MW-3	91.00	90.57	90.57	94.96	91.10				
MW-4	91.26	90.74	90.74	95.60	91.38				
Flow Direction	E	E	E	E	E				

IV. SHALLOW GROUNDWATER SAMPLING RESULTS

Laboratory Analysis

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures (Priority Environmental Labs, Milpitas, CA). All Groundwater samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (EPA method 8015), and for Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA method 602).

The past rounds of sampling included analysis of all groundwater samples for Total Petroleum Hydrocarbons as Diesel, Kerosene, Mineral Spirits and Motor Oil by EPA method 8015. As directed by Jennifer Eberle of the Alameda County Environmental Health Department, these analyses were not conducted during this round of quarterly groundwater sample collection.

Results of Groundwater Sampling

Tables 3 and 4 present the results of the laboratory analysis of the groundwater samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-4.

As shown in Table 3, Gasoline, Benzene, Toluene, Ethyl Benzene, and Total Xylenes were detected in shallow groundwater samples collected from well MW-3 at concentrations of 12,000 $\mu\text{g}/\text{l}$ (ppb), 35 $\mu\text{g}/\text{l}$ (ppb), 8.2 $\mu\text{g}/\text{l}$ (ppb), 14 $\mu\text{g}/\text{l}$ (ppb), and 20 $\mu\text{g}/\text{l}$ (ppb), respectively.

TABLE 3.
Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
MW-1	10-26-90	---	1200	18	7.1	37
	03-04-92	460	120	9.0	16	44
	04-03-92	300	21	6.0	15	36
	06-16-92	220	54	17	29	73
	10-09-92	ND	ND	ND	ND	ND
	01-07-93	210	0.7	3.7	4.4	9.6
	04-23-93	280	0.9	1.3	2.9	6.2
	07-16-93	110	ND	ND	0.5	1.1
	11-08-93	ND	ND	ND	ND	ND
	01-28-94	190	5.7	4.9	6.7	21
	05-02-94	ND	ND	ND	ND	ND
	08-03-94	ND	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND	ND
08-23-95	ND	ND	ND	ND	ND	
MW-2	03-04-92	ND	ND	ND	ND	ND
	04-03-92	ND	ND	ND	ND	ND
	06-16-92	ND	ND	ND	ND	ND
	10-09-92	ND	ND	ND	ND	ND
	01-07-93	ND	ND	ND	ND	ND
	04-23-93	ND	ND	ND	ND	ND
	07-16-93	ND	ND	ND	ND	ND
	11-08-93	ND	ND	ND	ND	ND
	01-28-94	ND	ND	ND	ND	ND
	05-02-94	ND	ND	ND	ND	ND
	08-03-94	ND	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND	ND
08-23-95	ND	ND	ND	ND	ND	
Detection Limit		50	0.5	0.5	0.5	0.5

ND = Not Detected

**TABLE 3. (continued)
Shallow Groundwater Sampling Results**

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW-3	03-04-92	14,000	6,200	60	110	740
	04-03-92	5,200	120	32	57	180
	06-16-92	6,000	180	45	82	190
	10-09-92	11,000	87	49	94	200
	01-07-93	4,200	3.3	13	44	92
	04-23-93	21,000	23	43	49	130
	07-16-93	16,000	19	21	25	78
	11-08-93	10,000	4.3	5.7	7.9	35
	01-28-94	7,500	8.5	10	50	95
	05-02-94	22,000	69	39	60	110
	08-03-94	2,500	35	12	27	25
	11-04-94	2,900	4.0	8.1	18	27
	03-14-95	2,500	9.5	3.0	4.6	8.3
	08-23-95	12,000	35.0	8.2	14.0	20.0
MW-4	01-07-93	4,800	6.4	25	60	110
	04-23-93	2,700	8.3	11	31	59
	07-16-93	3,000	3.7	4.2	4.9	15
	11-08-93	1,400	0.6	0.8	1.1	4.8
	01-28-94	830	8.5	10	12	27
	05-02-94	900	7.3	3.2	0.5	14
	08-03-94	1,000	22	0.7	8.0	7.4
	11-04-94	160	0.6	ND	1.9	2.9
	03-14-95	120	3.6	ND	ND	3.7
08-23-95	ND	ND	ND	ND	ND	
Detection Limit		50	0.5	0.5	0.5	0.5

ND = Not Detected

TABLE 4.
Shallow Groundwater Sampling Results

Well	Date	TPH as Kerosene (ug/L)	TPH as Diesel (ug/L)	TPH as Mineral Spirits (ug/L)	TPH as Motor Oil (ug/L)
MW-1	10-26-90	---	5,400	---	---
	03-04-92	---	590	---	---
	04-03-92	ND	ND	---	ND
	06-16-92	---	730	---	---
	10-09-92	ND	ND	---	ND
	01-07-93	ND	ND	---	ND
	04-23-93	---	ND	---	---
	07-16-93	---	59	---	---
	11-08-93	---	ND	---	---
	01-28-94	ND	ND	ND	ND
	05-02-94	ND	ND	ND	ND
	08-03-94	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND
	08-23-95	---	---	---	---
MW-2	03-04-92	---	ND	---	---
	04-03-92	ND	ND	---	ND
	06-16-92	---	ND	---	---
	10-09-92	ND	ND	---	ND
	01-07-93	ND	ND	---	ND
	04-23-93	---	ND	---	---
	07-16-93	---	ND	---	---
	11-08-93	---	ND	---	---
	01-28-94	ND	ND	ND	ND
	05-02-94	ND	ND	ND	ND
	08-03-94	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND
08-23-95	---	---	---	---	
Detection Limit		50	50	50	50

ND = Not Detected

**TABLE 4. (continued)
Shallow Groundwater Sampling Results**

Well	Date	TPH as Kerosene (ug/L)	TPH as Diesel (ug/L)	TPH as Mineral Spirits (ug/L)	TPH as Motor Oil (ug/L)
MW-3	03-04-92	---	360	---	---
	04-03-92	ND	ND	---	ND
	06-16-92	---	ND	---	---
	10-09-92	ND	ND	---	ND
	01-07-93	ND	ND	---	ND
	04-23-93	---	ND	---	---
	07-16-93	---	ND	---	---
	11-08-93	---	ND	---	---
	01-28-94	ND	310	370	ND
	05-02-94	ND	ND	ND	ND
	08-03-94	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND
	08-23-95	---	---	---	---
MW-4	01-07-93	ND	ND	---	ND
	04-23-93	---	ND	---	---
	07-16-93	---	ND	---	---
	11-08-93	---	ND	---	---
	01-28-94	ND	160	180	ND
	05-02-94	ND	ND	ND	ND
	11-04-94	ND	ND	ND	ND
	03-14-95	ND	ND	ND	ND
	08-23-95	---	---	---	---
Detection Limit		50	50	50	50

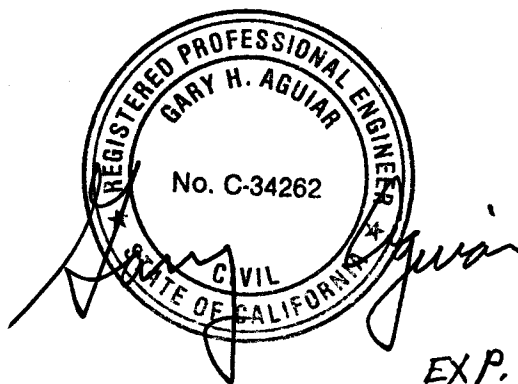
ND = Not Detected

No detectable concentrations of Gasoline, Benzene, Toluene, Ethyl Benzene, or Total Xylenes were found in shallow groundwater samples taken from wells MW-1, MW-2, and MW-4.

A copy of the laboratory certificate for the water sample analysis is included in Attachment B.

QUARTERLY GROUNDWATER SAMPLING REPORT
PACIFIC CRYOGENIC COMPANY
2311 Magnolia Street, Oakland, CA

September 6, 1995



Gary Aguiar

RCE 34262

EXP. 9-30-99

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. Pacific Oxygen Page 1 of 4
 Site Location Oakland CA Date 8/23/95
 Well No. MW-1 Time Began _____
 Weather Sunny Mid 80's Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Well Box @ Grade
 Total Sounded Depth of Well Below MP 19.24
 - Depth to Water Below MP 7.57 Diameter of Casing 2"
 = Water Column in Well 12.67
 Gallons in Casing 2.05 + Annular Space (x10) = Total Gallons 20.5
(30% porosity)
 Gallons Pumped Prior to Sampling 15.0
 Evacuation Method PVC Bailor

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: Small oil or Grease Globes, Fuel Odor, Low-Mod Turb.
(thickness to 0.1 inch, if any)

	<u>13:25</u>	<u>13:31</u>	<u>13:52</u>	<u>14:20</u>
Time				
Gals Removed	<u>5</u>	<u>10*</u>	<u>12.5</u>	<u>15.0</u>
Temperature	<u>69.5</u>	<u>69.7</u>	<u>69.8</u>	<u>69.7</u>
Conductivity	<u>1020</u>	<u>900</u>	<u>940</u>	<u>960</u>
pH	<u>6.49</u>	<u>6.61</u>	<u>6.72</u>	<u>6.84</u>
	<u>Lt Brown</u>	<u>Lt Brown</u>	<u>Lt Brown</u>	<u>Lt Brown</u>
Color / Odor	<u>Fuel Odor</u>	<u>Fuel Odor</u>	<u>Fuel Odor</u>	<u>Fuel Odor</u>
Turbidity	<u>Mod</u>	<u>Mod</u>	<u>Mod</u>	<u>Mod</u>

Comments: * Dewatered @ 10 gallons

WELL SAMPLING LOG

Project/No. Pacific Oxygen
 Site Location Oakland CA
 Well No. MW-2
 Weather Sunny Mid 80's

Page 2 of 4
 Date 8/23/95
 Time Began _____
 Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Well Box @ Grade
 Total Sounded Depth of Well Below MP 23.19
 - Depth to Water Below MP 8.70 Diameter of Casing 2"
 = Water Column in Well 14.49
 Gallons in Casing 2.35 + Annular Space (x10) = Total Gallons 23.5
(30% porosity)
 Gallons Pumped Prior to Sampling 25
 Evacuation Method PVC Bailer

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None Detected, Mod Turb., No Odor
(thickness to 0.1 inch, if any)

Time	<u>13:38</u>	<u>13:43</u>	<u>14:00</u>	<u>14:05</u>
Gals Removed	<u>5</u>	<u>10</u>	<u>20</u>	<u>25</u>
Temperature	<u>68.7</u>	<u>68.9</u>	<u>68.9</u>	<u>68.7</u>
Conductivity	<u>1450</u>	<u>1440</u>	<u>1570</u>	<u>1680</u>
pH	<u>6.64</u>	<u>6.69</u>	<u>6.78</u>	<u>6.91</u>
Color / Odor	<u>Lt Brown No Odor</u>	<u>Lt Brown No Odor</u>	<u>Lt Brown No odor</u>	<u>Lt Brown No Odor</u>
Turbidity	<u>Mod</u>	<u>Mod</u>	<u>Mod</u>	<u>Mod</u>

Comments: _____

WELL SAMPLING LOG

Project/No. Pacific Oxygen
Site Location Oakland CA
Well No. MW-3
Weather Sunny mid 80's

Page 3 of 4
Date 8/23/95
Time Began _____
Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Well Box @ Grade
Total Sounded Depth of Well Below MP 22.70
- Depth to Water Below MP 8.92 Diameter of Casing 2"
= Water Column in Well 13.78
Gallons in Casing 2.2 + Annular Space (x10) = Total Gallons 22
(30% porosity)
Gallons Pumped Prior to Sampling 9
Evacuation Method PVC Bailer

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None Detected, Fuel Odor, High Turb.
(thickness to 0.1 inch, if any)

Time	<u>14:14</u>	<u>14:47</u>	<u>15:13</u>	_____
Gals Removed	<u>4*</u>	<u>7</u>	<u>9</u>	_____
Temperature	<u>69.3</u>	<u>69.2</u>	<u>69.1</u>	_____
Conductivity	<u>1230</u>	<u>1310</u>	<u>1300</u>	_____
pH	<u>6.61</u>	<u>6.85</u>	<u>6.83</u>	_____
Color / Odor	<u>Gray, Fuel Odor</u>	<u>Gray, Fuel Odor</u>	<u>Gray, Fuel Odor</u>	_____
Turbidity	<u>Mod-High</u>	<u>Mod-High</u>	<u>Mod-High</u>	_____

Comments: * Dewatered at 4 gallons

WELL SAMPLING LOG

Project/No. Pacific Oxygen

Page 4 of 4

Site Location Oakland CA

Date 8/23/95

Well No. MW-4

Time Began _____

Weather Sunny Mid 80's

Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Well Box @ Grade

Total Sounded Depth of Well Below MP 14.12

Diameter of Casing 4"

- Depth to Water Below MP 8.57

= Water Column in Well 5.5

Gallons in Casing 3.6 + Annular Space (x4) = Total Gallons (14.4)
(30% porosity) (x10) (36)

Gallons Pumped Prior to Sampling 36

Evacuation Method PVC Bailer

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None Detected, Slight Fuel Odor
(thickness to 0.1 inch, if any)

	<u>14:26</u>	<u>14:35</u>	<u>14:42</u>	<u>14:43</u>
Gals Removed	<u>10</u>	<u>20</u>	<u>30</u>	<u>36</u>
Temperature	<u>68.9</u>	<u>68.7</u>	<u>68.8</u>	<u>68.9</u>
Conductivity	<u>750</u>	<u>730</u>	<u>720</u>	<u>720</u>
pH	<u>6.81</u>	<u>6.79</u>	<u>6.76</u>	<u>6.80</u>
Color / Odor	<u>Lt Brown</u> <u>Slight Fuel Odor</u>	<u>Lt Brown</u> <u>Slight Fuel Odor</u>	<u>Lt Brown</u> <u>Slight Fuel Odor</u>	<u>Lt Brown</u> <u>Slight Fuel Odor</u>
Turbidity	<u>Low</u>	<u>Low</u>	<u>Low</u>	<u>Low</u>

Comments: _____

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 24, 1995

PEL # 9508082

HAGEMAN - AGUIAR, INC.

Attn: Mark Hainsworth

Re: Four water samples for Gasoline/BTEX analysis.

Project name: Pacific Oxygen

Project location: Magnolia St., - Oakland, CA.

Date sampled: Aug 23, 1995

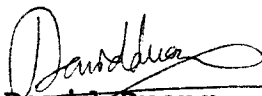
Date submitted: Aug 24, 1995

Date extracted: Aug 24, 1995

Date analyzed: Aug 24, 1995

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	12000	35	8.2	14	20
MW-4	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	109.4%	105.7%	97.0%	97.9%	91.1%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602


David Duong
Laboratory Director

CHAIN OF CUSTODY RECORD

PEL # 9508082

INV # 26282

PROJECT NAME AND ADDRESS: <i>Pacific Oxygen</i> <i>Magnolia Street</i> <i>Oakland CA</i>		SAMPLER: (Signature) 		HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)					ANALYSIS REQUESTED <i>TPH GAs / BTXE</i>					REMARKS 	
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION										
MW-1	<i>8/23/95</i>			X	<i>Monitoring Well #1</i>	X						<i>Norm TAT</i>			
MW-2	<i>8/23/95</i>			X	<i>#2</i>	X									
MW-3	<i>8/23/95</i>			X	<i>#3</i>	X									
MW-4	<i>8/23/95</i>			X	<i>#4</i>	X									

RELINQUISHED BY: (Signature) <i>Mark Heimowitz</i>	DATE <i>8/24/95</i> TIME <i>8:14</i>	RECEIVED BY: (Signature) 	DATE _____ TIME _____
RELINQUISHED BY: (Signature) 	DATE _____ TIME _____	RECEIVED BY: (Signature) 	DATE _____ TIME _____
RELINQUISHED BY: (Signature) 	DATE _____ TIME _____	RECEIVED BY: (Signature) 	DATE _____ TIME _____
RELINQUISHED BY: (Signature) 	DATE _____ TIME _____	RECEIVED FOR LABORATORY BY: (Signature) <i>David...</i>	DATE <i>08/24/95</i> TIME <i>8:15 AM</i>