



*Environmental & Water Resources Engineering
Groundwater Consultants*

ENVIRONMENTAL
PROTECTION
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April 13, 2000

#191

Barney M. Chan
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

**Quarterly Groundwater Monitoring
Golden Gate Petroleum
421 23rd Avenue
Oakland, California**

Dear Mr. Chan:

The enclosed report documents the results of the most recent quarterly groundwater monitoring at the site performed on March 28, 2000 (First Quarter 2000).

If you have any questions, please call me at 510/620-0891.

Sincerely,

Hageman-Aguiar, Inc.

**Kenneth B. Alexander, RG, CH
Principal Hydrogeologist**

cc: Dennis O'Keefe/Golden Gate Petroleum, Concord, California



HAGEMAN-AGUIAR, INC.

*Environmental & Water Resources Engineering
Groundwater Consultants*

**QUARTERLY MONITORING
REPORT**

(Sampled March 28, 2000)

GOLDEN GATE PETROLEUM

421 23rd Avenue
Oakland, California

April 13, 2000

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I. INTRODUCTION

The subject site is the Golden Gate Petroleum Cardlock at 421 23rd Avenue in Oakland, California. The location of the site is shown in Figure 1. The site is located at the northwest corner of the intersection of Kennedy Street and 23rd Avenue. Figure 2 shows a map of the property and surrounding properties.

This report presents the results of water level measurements and groundwater sampling performed on March 28, 2000. In November 1999, Hageman-Aguiar, Inc. installed four monitoring wells at the site. On November 11, 1999, Hageman-Aguiar, Inc. sampled the four monitoring wells and two recovery casings located in the backfill of the existing underground storage tanks. The work described in this report has been conducted in accordance with the Alameda County Environmental Health Services (ACEHS) requirements.

II. FIELD WORK

Monitoring Well Sampling

On March 28, 2000, the four onsite groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4) and two backfill casings (CASING-1 and CASING-2) were sampled. The locations of the wells are shown in Figure 3. Prior to sampling, several casing volumes of water were removed from each well. Field conductivity, temperature, and pH were monitored during purging. Purging continued until these parameters stabilized. Groundwater samples were subsequently collected using new, disposable sampling bailers. The water samples were placed inside appropriate 40-ml VOA vials 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 workday.

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) observation of any floating product, sheen, or odor prior to purging, using a clear Teflon bailer, (3) pH, (4) temperature, and (5) specific conductance. Copies of the well sampling logs are included in Attachment A.

Wastewater Generation

All water and other liquid waste removed from the well during purging was drummed and stored onsite. The water and liquid waste is periodically picked up by a licensed waste hauler and transported under manifest to an appropriate recycling and disposal facility.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Groundwater Flow Direction and Hydraulic Gradient

Water level measurements were measured on March 28, 2000 (Table 1). Figure 3 presents a contour map for the groundwater beneath the site. As shown in Figure 3, the water level data indicate that the direction of groundwater flow in March 2000 was generally toward the southwest.

The calculated hydraulic gradient for March 2000 was approximately 0.0026 feet/foot (14 feet per mile).

IV. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were performed by Entech Analytical Labs, Inc., of Sunnyvale, California, a California State Department of Health Services-certified laboratory. All samples were analyzed in accordance with U.S. EPA recommended procedures.

All groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as Gasoline (modified EPA Method 8015)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA Method 8020)
- Methyl Tertiary Butyl Ether (MTBE) (EPA Method 8020)
- Total Petroleum Hydrocarbons as Diesel (modified EPA Method 8015)

Analytical Results: Groundwater

Table 2 presents the analytical results for the groundwater samples collected from monitoring wells MW-1, MW-2, MW-3, and MW-4 and backfill casings CASING-1 and CASING-2. Copies of the laboratory reports and chain-of-custody records are provided in Attachment B.

As shown in Table 2, gasoline was detected at a maximum concentration of 2,500 $\mu\text{g/L}$ (ppb) in the groundwater sample from well MW-2. MTBE was detected at a maximum concentration of 1,800 $\mu\text{g/L}$ (ppb) in the groundwater sample from well MW-2. Diesel was detected at a maximum concentration of 1,800 $\mu\text{g/L}$ in the groundwater sample from well MW-2.

V. DATA ANALYSIS

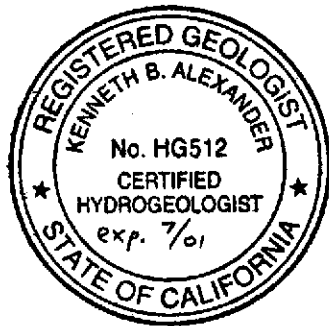
Figures 4, 5, and 6 show lines of equal concentration for gasoline, MTBE, and diesel, respectively, using analytical data from the March 28, 2000 groundwater sampling event. As shown by these plots, the plumes appear to extend southward under Kennedy Street. Currently, Hageman-Aguiar, Inc. is in the process of obtaining encroachment permits for installing three downgradient monitoring wells along the south side of Kennedy Street.

QUARTERLY MONITORING REPORT

Golden Gate Petroleum

421 23rd Avenue, Oakland, California

April 13, 2000



K.B. Alexander

Kenneth B. Alexander, RG, CH
Principal Hydrogeologist
Hageman-Aguiar, Inc.

#HG 512

TABLES

TABLE 1.

Groundwater Elevation Measurements
 Golden Gate Petroleum
 421 23rd Avenue, Oakland, California

Date	MW-1		MW-2		MW-3		MW-4		Casing-1		Casing-2	
	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev
	MP Elev = 9.81 feet		MP Elev = 9.22 feet		MP Elev = 9.39 feet		MP Elev = 9.72 feet		MP Elev = 10.77 feet		MP Elev = 9.98 feet	
November 11, 1999	8.61	1.20	8.25	0.97	8.48	0.91	8.86	0.86	9.65	1.12	8.87	1.11
March 28, 2000	8.36	1.45	8.00	1.22	8.31	1.08	8.75	0.97	9.37	1.40	8.58	1.40

General Notes

- (a) Depth measurements cited in units of feet below measuring point (MP). MP is top of well box.
- (b) Elevation measurements cited in units of feet above Mean Sea Level and referenced to City of Oakland benchmark at 333 23rd Avenue. Benchmark elevation is 7.91 feet above Mean Sea Level.

TABLE 2.

Groundwater Analytical Results
 Golden Gate Petroleum
 421 23rd Avenue, Oakland, California

Well Number	Date	TPH as Diesel (µg/L)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	November 11, 1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	March 28, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	November 11, 1999	220	6,800	<50	<50	<50	<50	13,000*
	March 28, 2000	1,800	2,500	<25	<25	<25	<25	1,800
MW-3	November 11, 1999	<50	1,600	<12.5	<12.5	<12.5	<12.5	2,500*
	March 28, 2000	<50	280	<2.5	<2.5	<2.5	<2.5	610
MW-4	November 11, 1999	<50	650	<5	<5	<5	<5	540*
	March 28, 2000	<50	430	<2.5	<2.5	<2.5	<2.5	800
CASING-1	October 8, 1999	<50	<50	<0.5	<0.5	<0.5	<0.5	9.2
	November 11, 1999	<50	<250	<2.5	<2.5	<2.5	<2.5	350
	March 28, 2000	69	<500	<5	<5	<5	<5	760
CASING-2	October 8, 1999	83	680	6.3	<2.5	5.4	72	1,200
	November 11, 1999	<50	150	<1	<1	<1	<1	320*
	March 28, 2000	<50	270	<2.5	<2.5	<2.5	<2.5	520

TABLE 2. (continued)

Groundwater Analytical Results
Golden Gate Petroleum
421 23rd Avenue, Oakland, California

Drinking Water Criteria	100 (T&O)	5 (T&O)	1 (MCL)	150 (MCL)	700 (MCL)	1,750 (MCL)	13 (proposed MCL)
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General Notes

- (a) "<" = parameter below laboratory method reporting limit.
- (b) * = result confirmed by EPA Method 8260.
- (c) Drinking water criteria is for comparison purposes only. Source: Jon B. Marshack, *A Compilation of Water Quality Goals*, Central Valley Regional Water Quality Control Board, Sacramento, CA, March 1998. T&O = Taste and Odor Threshold. MCL = California Primary Maximum Contaminant Level.
- (d) Concentrations exceeding the drinking water criteria in **bold**.

FIGURES

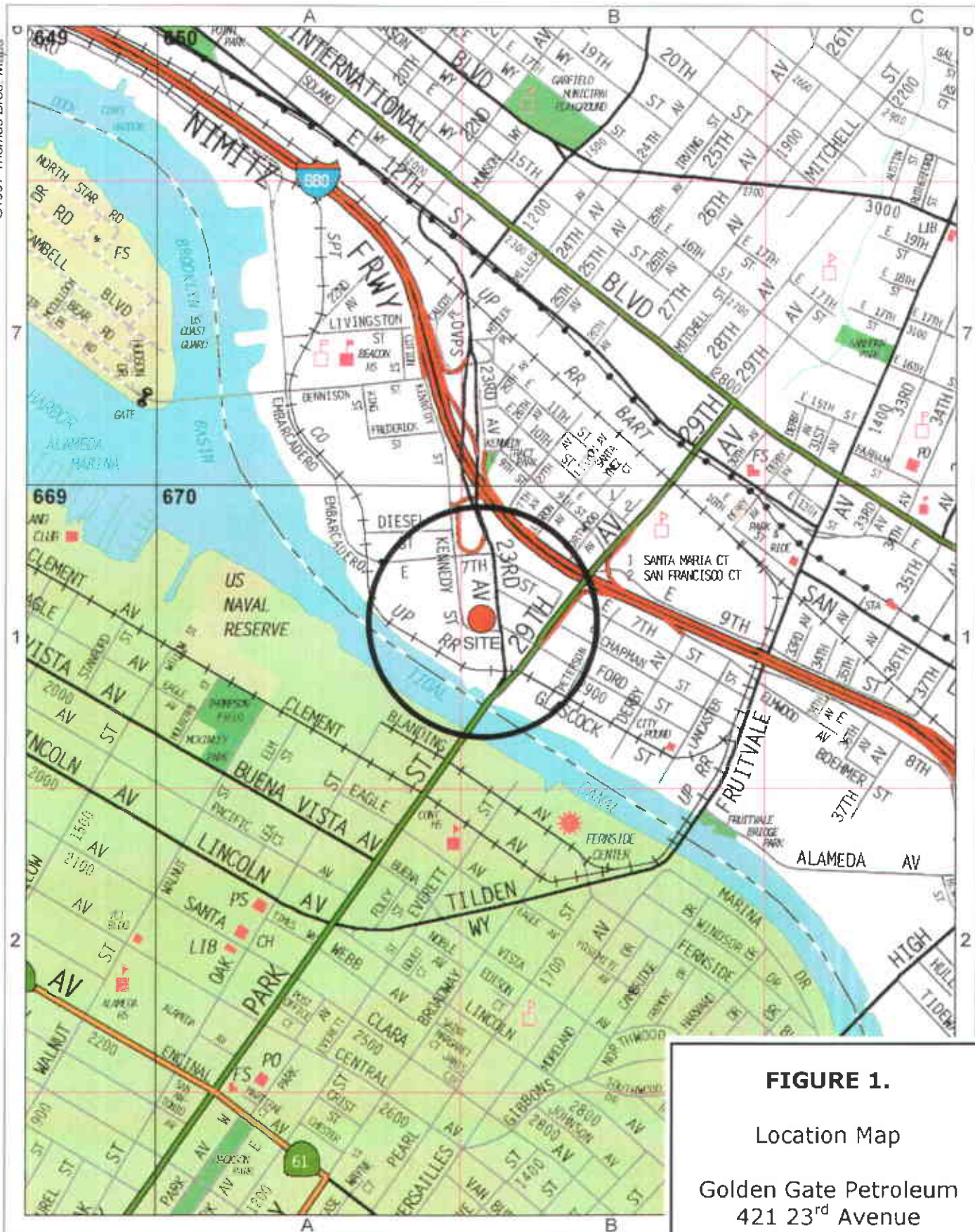


FIGURE 1.
Location Map
Golden Gate Petroleum
421 23rd Avenue
Oakland, California

● SITE: 421-23rd Ave, Oakland, CA, Page & Grid 670 B1

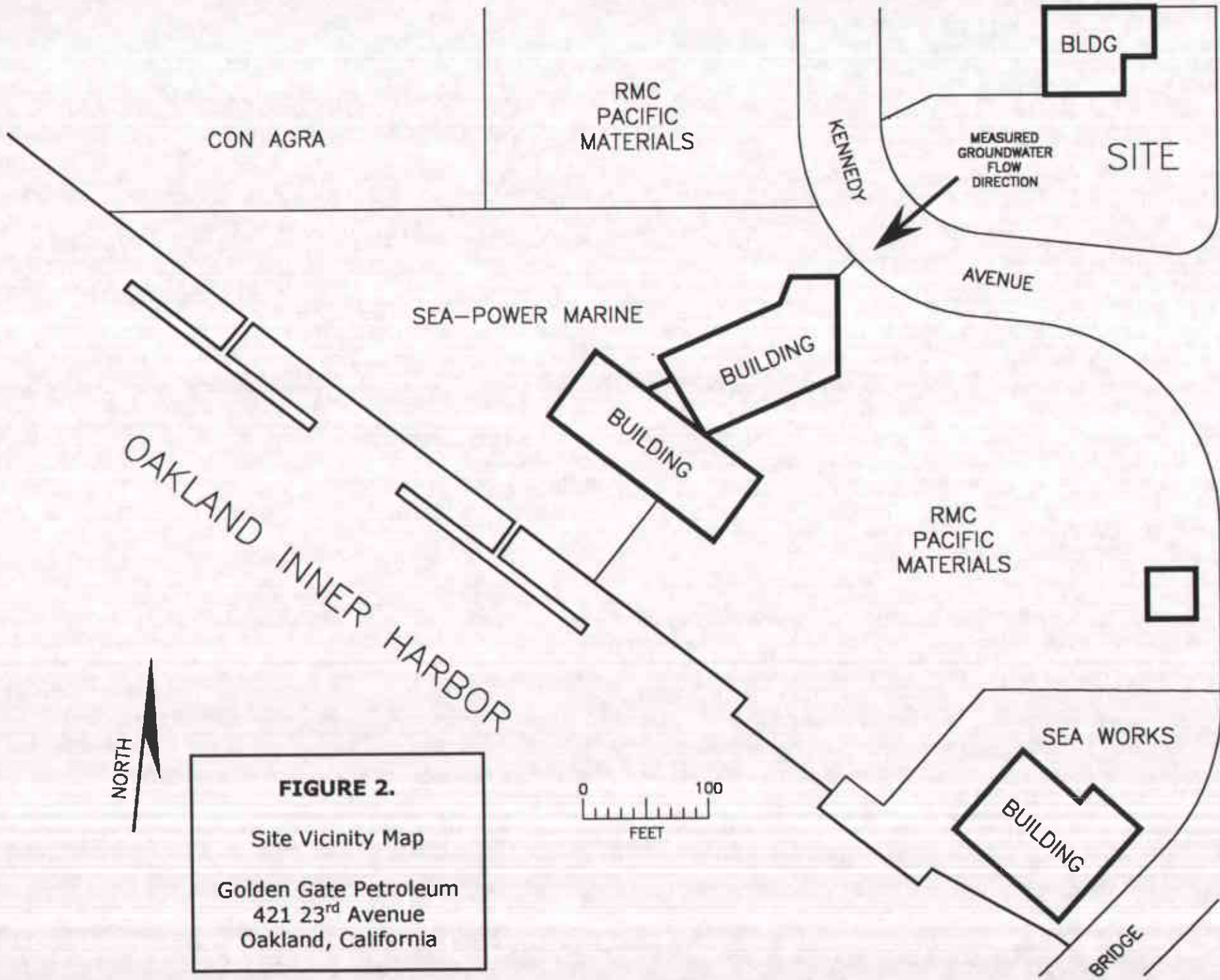
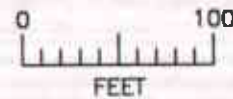


FIGURE 2.
 Site Vicinity Map
 Golden Gate Petroleum
 421 23rd Avenue
 Oakland, California



23RD AVENUE

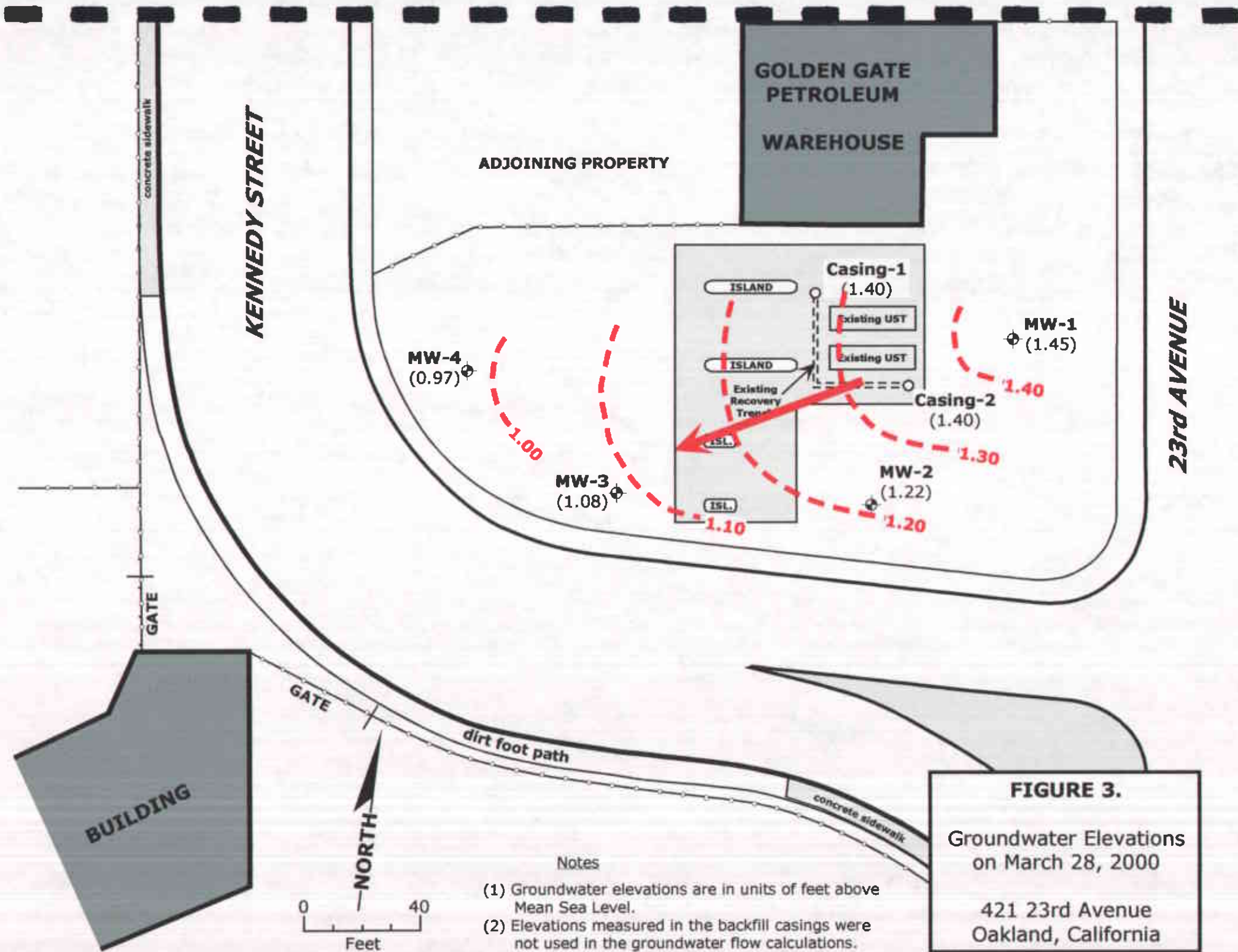


FIGURE 3.
 Groundwater Elevations
 on March 28, 2000
 421 23rd Avenue
 Oakland, California

Notes

- (1) Groundwater elevations are in units of feet above Mean Sea Level.
- (2) Elevations measured in the backfill casings were not used in the groundwater flow calculations.

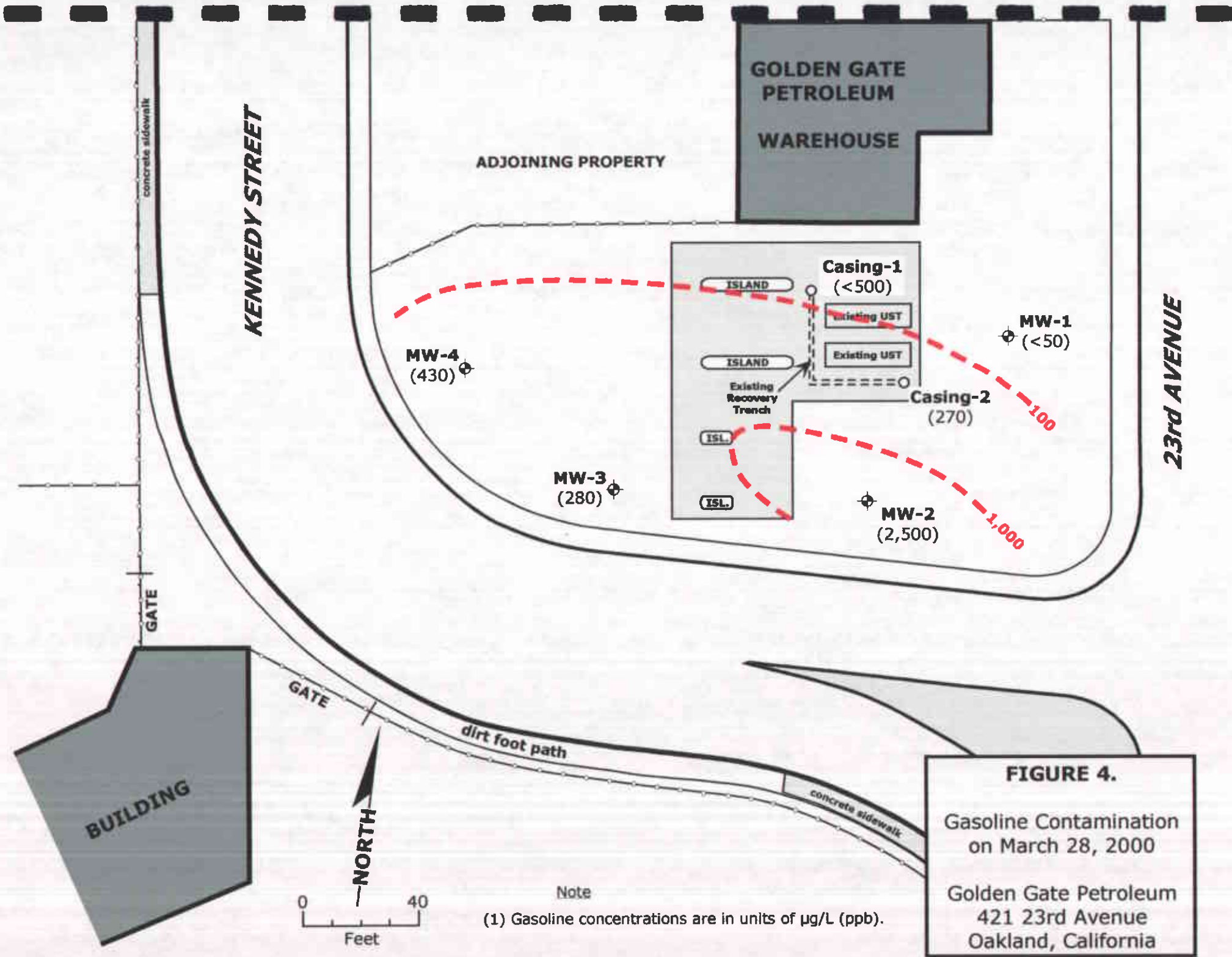


FIGURE 4.
 Gasoline Contamination
 on March 28, 2000
 Golden Gate Petroleum
 421 23rd Avenue
 Oakland, California

Note
 (1) Gasoline concentrations are in units of $\mu\text{g/L}$ (ppb).

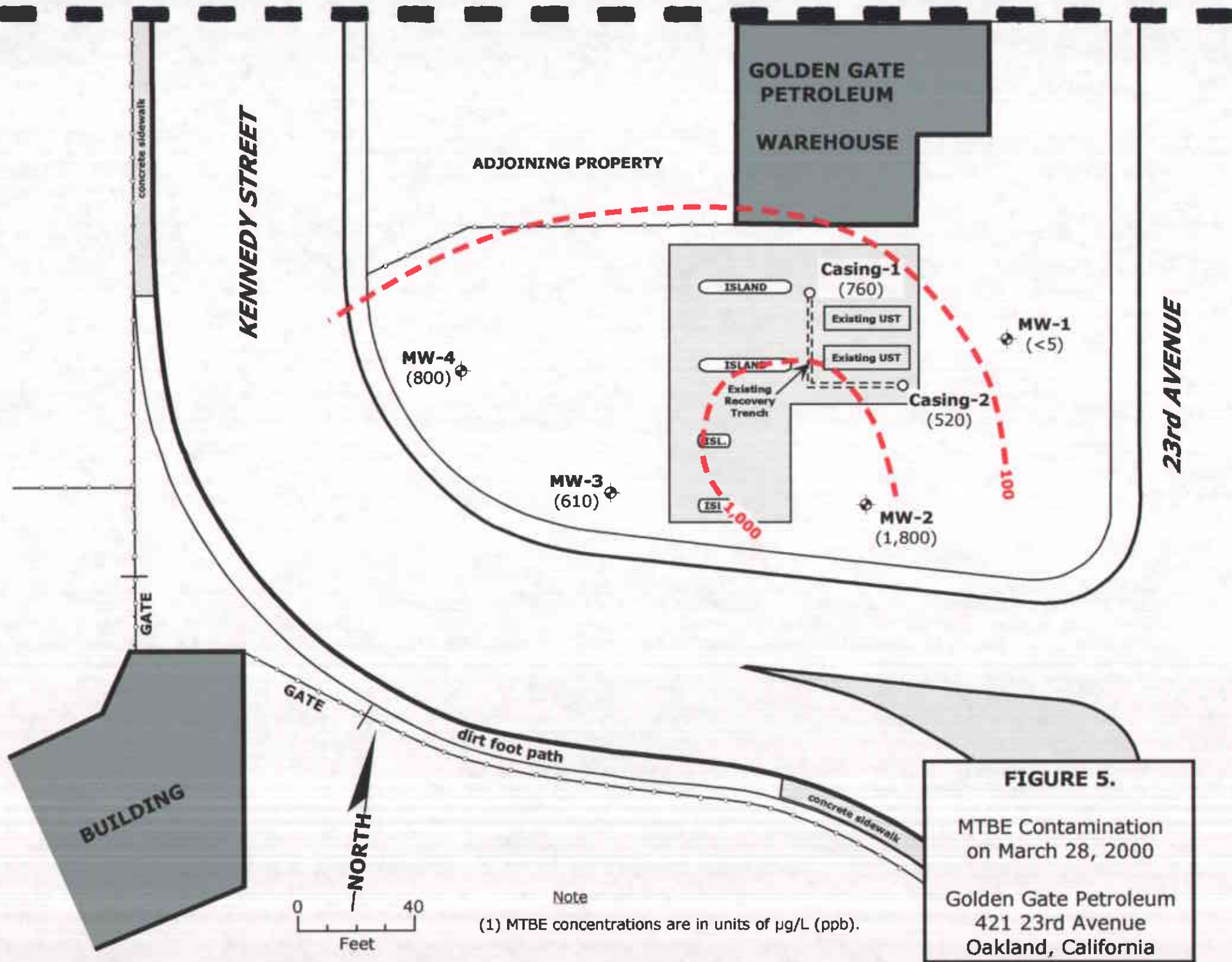


FIGURE 5.
 MTBE Contamination
 on March 28, 2000
 Golden Gate Petroleum
 421 23rd Avenue
 Oakland, California

Note
 (1) MTBE concentrations are in units of $\mu\text{g/L}$ (ppb).

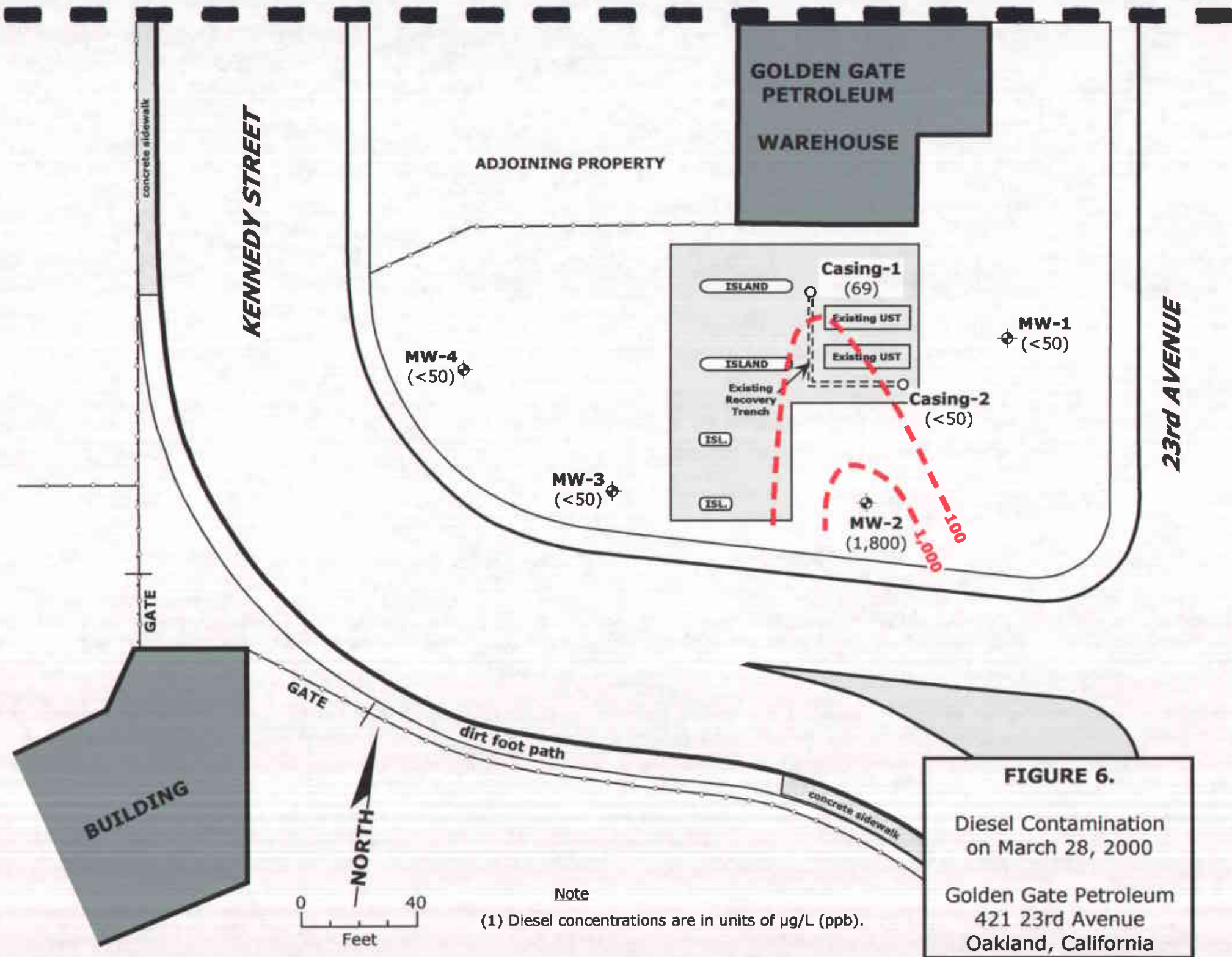


FIGURE 6.
 Diesel Contamination
 on March 28, 2000
 Golden Gate Petroleum
 421 23rd Avenue
 Oakland, California

Note
 (1) Diesel concentrations are in units of $\mu\text{g/L}$ (ppb).

ATTACHMENT A

Well Sampling Logs

WELL SAMPLING LOG

Site Location Golden Gate Pet. - 23rd Ave Page 1 of 6
 Well Number MW-4 Date 03/28/2000
 Weather Sunny, 55°-65° Time Began 13:16
 Sampling Personnel R Wilson Completed 13:26

EVACUATION DATA

Description of Measuring Point (MP): WBOG

Total Sounded Depth of Well Below MP <u>19.17' + 0.27'</u> - Depth to Water Below MP <u>8.75'</u> = Water Column in Well <u>10.69'</u> x Casing Diameter Multiplier <u>0.169</u> 2" = Gallons in Casing <u>1.81</u> Gallons Pumped Prior to Sampling <u>7.5</u>	Sample Collected Volatile Organics (VOA's) <u>3</u> 1 Liter Amber Glass <u>2</u> Polyethylene (plastic) _____ Other _____ Samples Filtered <u>NO</u>
Evacuation Method: PVC Bailer <u>X</u> Acrylic Bailer _____ Pump _____ Other _____	Sample Method: Evacuation Bailer <u>X</u> Disposable Bailer _____ Pump _____ Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

	Time	<u>13:18</u>	<u>13:20</u>	<u>13:22</u>	<u>13:24</u>	<u>13:26</u>
Gals Removed		<u>1.5</u>	<u>3</u>	<u>4.5</u>	<u>6</u>	<u>7.5</u>
Temperature		<u>19.6</u>	<u>19.6</u>	<u>19.7</u>	<u>19.5</u>	<u>19.5</u>
Conductivity		<u>331</u>	<u>408</u>	<u>435</u>	<u>459</u>	<u>468</u>
pH		<u>6.74</u>	<u>6.80</u>	<u>6.87</u>	<u>6.87</u>	<u>6.85</u>
Color / Odor		<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>
Turbidity		<u>med</u>	<u>med</u>	<u>high</u>	<u>high</u>	<u>high</u>
Other		_____	_____	_____	_____	_____

Comments: _____

WELL SAMPLING LOG

Site Location Golden Gate Pet. - 23rd Ave. Page 2 of 6
 Well Number MW-3 Date 03/28/2000
 Weather SUNNY, 55°-65° Time Began 13:50
 Sampling Personnel R Wilson Completed 14:12

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP	<u>20.25' ± 0.27'</u>	Sample Collected
- Depth to Water Below MP	<u>8.31'</u>	Volatle Organics (VOA's) <u>3</u>
= Water Column in Well	<u>12.21'</u>	1 Liter Amber Glass <u>2</u>
x Casing Diameter Multiplier	<u>0.653</u> 4"	Polyethylene (plastic) _____
= Gallons in Casing	<u>7.97</u>	Other _____
Gallons Pumped Prior to Sampling	<u>16</u>	Samples Filtered <u>NO</u>

Evacuation Method:	Sample Method:
PVC Bailer <u>X</u>	Evacuation Bailer <u>X</u>
Acrylic Bailer _____	Disposable Bailer _____
Pump _____	Pump _____
Other _____	Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

			sample	
Time	<u>13:52</u>	<u>13:54</u>	<u>13:56</u>	<u>14:12</u>
Gals Removed	<u>6</u>	<u>12</u>	<u>16</u>	<u>16</u>
Temperature	<u>19.4</u>	<u>19.8</u>	<u>20.2</u>	<u>19.5</u>
Conductivity	<u>631</u>	<u>659</u>	<u>661</u>	<u>654</u>
pH	<u>7.04</u>	<u>7.17</u>	<u>7.19</u>	<u>7.35</u>
Color / Odor	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>
Turbidity	<u>med</u>	<u>med</u>	<u>med</u>	<u>low</u>
Other	_____	_____	_____	_____

Comments: _____

WELL SAMPLING LOG

Site Location Golden Gate Pet. - 23rd Ave. Page 3 of 6
 Well Number MW-1 Date 03/28/2000
 Weather Sunny, 55°-65° Time Began 14:52
 Sampling Personnel R Wilson Completed 15:01

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP <u>19.04' ± 0.27'</u> - Depth to Water Below MP <u>8.36'</u> = Water Column in Well <u>10.95'</u> x Casing Diameter Multiplier <u>0.169</u> 2" = Gallons in Casing <u>1.85</u> Gallons Pumped Prior to Sampling <u>6</u>	Sample Collected Volatile Organics (VOA's) <u>3</u> 1 Liter Amber Glass <u>2</u> Polyethylene (plastic) _____ Other _____ Samples Filtered <u>NO</u>
Evacuation Method: PVC Bailer <u>X</u> Acrylic Bailer _____ Pump _____ Other _____	Sample Method: Evacuation Bailer <u>X</u> Disposable Bailer _____ Pump _____ Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

Time	<u>14:55</u>	<u>14:57</u>	<u>14:59</u>	<u>15:01</u>	
Gals Removed	<u>1.5</u>	<u>3</u>	<u>4.5</u>	<u>6</u>	
Temperature	<u>19.8</u>	<u>19.9</u>	<u>20.0</u>	<u>20.1</u>	
Conductivity	<u>608</u>	<u>588</u>	<u>581</u>	<u>553</u>	
pH	<u>7.28</u>	<u>7.23</u>	<u>7.24</u>	<u>7.29</u>	
Color / Odor	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	
Turbidity	<u>med</u>	<u>high</u>	<u>high</u>	<u>high</u>	
Other	_____	_____	_____	_____	

Comments: _____

WELL SAMPLING LOG

Site Location Golden Gate Pet. - 23rd Ave. Page 4 of 6
 Well Number MW-2 Date 03/28/2000
 Weather SUNNY, 55°-65° Time Began 15:02
 Sampling Personnel R Wilson Completed 15:16

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP	<u>20.09' + 0.27</u>	Sample Collected
- Depth to Water Below MP	<u>8.00'</u>	Volatile Organics (VOA's)
= Water Column in Well	<u>12.36</u>	1 Liter Amber Glass
x Casing Diameter Multiplier	<u>0.653</u> 4"	Polyethylene (plastic)
= Gallons in Casing	<u>8.07</u>	Other
Gallons Pumped Prior to Sampling	<u>26</u>	Samples Filtered
		<u>no</u>

Evacuation Method:	Sample Method:
PVC Bailer <u>X</u>	Evacuation Bailer <u>X</u>
Acrylic Bailer _____	Disposable Bailer _____
Pump _____	Pump _____
Other _____	Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

Time	<u>15:06</u>	<u>15:10</u>	<u>15:13</u>	<u>15:16</u>	
Gals Removed	<u>6.5</u>	<u>13</u>	<u>19.5</u>	<u>26</u>	
Temperature	<u>19.5</u>	<u>19.8</u>	<u>20.0</u>	<u>20.1</u>	
Conductivity	<u>558</u>	<u>618</u>	<u>665</u>	<u>674</u>	
pH	<u>7.07</u>	<u>7.09</u>	<u>7.17</u>	<u>7.17</u>	
Color / Odor	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	<u>Tan</u>	
Turbidity	<u>high</u>	<u>high</u>	<u>high</u>	<u>high</u>	
Other	_____	_____	_____	_____	

Comments: _____

WELL SAMPLING LOG

Site Location Golden Gate Pt. - 23rd Ave. Page 5 of 6
 Well Number Casing 1 Date 03/28/2000
 Weather Sunny, 55°-65° Time Began 16:33
 Sampling Personnel R Wilson Completed 16:47

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP	<u>13.29' + 0.27'</u>	Sample Collected
- Depth to Water Below MP	<u>9.37'</u>	Volatile Organics (VOA's) <u>3</u>
= Water Column in Well	<u>4.19'</u>	1 Liter Amber Glass <u>2</u>
x Casing Diameter Multiplier	<u>0.653</u> 4"	Polyethylene (plastic) _____
= Gallons in Casing	<u>2.74</u>	Other _____
Gallons Pumped Prior to Sampling	<u>10</u>	Samples Filtered <u>NO</u>

Evacuation Method:	Sample Method:
PVC Bailer <u>X</u>	Evacuation Bailer <u>X</u>
Acrylic Bailer _____	Disposable Bailer _____
Pump _____	Pump _____
Other _____	Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

Time	<u>16:37</u>	<u>16:40</u>	<u>16:43</u>	<u>16:47</u>	
Gals Removed	<u>2.5</u>	<u>5</u>	<u>7.5</u>	<u>10</u>	
Temperature	<u>18.4</u>	<u>18.4</u>	<u>18.3</u>	<u>18.2</u>	
Conductivity	<u>595</u>	<u>570</u>	<u>567</u>	<u>564</u>	
pH	<u>7.26</u>	<u>7.28</u>	<u>7.26</u>	<u>7.25</u>	
Color / Odor	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	
Turbidity	<u>low</u>	<u>low</u>	<u>low</u>	<u>low</u>	
Other					

Comments: _____

WELL SAMPLING LOG

Site Location Golden Gate Pet. - 23rd Ave. Page 6 of 6
 Well Number Casing 2 Date 03/28/2000
 Weather SUNNY, 55°-65° Time Began 17:24
 Sampling Personnel R Wilson Completed 17:42

EVACUATION DATA

Description of Measuring Point (MP): WB @ 6

Total Sounded Depth of Well Below MP	<u>14.69' + 0.27'</u>	Sample Collected
- Depth to Water Below MP	<u>8.58'</u>	Volatile Organics (VOA's) <u>3</u>
= Water Column In Well	<u>6.38'</u>	1 Liter Amber Glass <u>2</u>
x Casing Diameter Multiplier	<u>0.653</u> 4"	Polyethylene (plastic) _____
= Gallons in Casing	<u>4.17</u>	Other _____
Gallons Pumped Prior to Sampling	<u>14</u>	Samples Filtered <u>NO</u>

Evacuation Method:	Sample Method:
PVC Bailer <u>X</u>	Evacuation Bailer <u>X</u>
Acrylic Bailer _____	Disposable Bailer _____
Pump _____	Pump _____
Other _____	Direct _____

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
 (thickness to 0.01 foot, if any)

	<u>17:28</u>	<u>17:32</u>	<u>17:38</u>	<u>17:42</u>	
Gals Removed	<u>3.5</u>	<u>7</u>	<u>10.5</u>	<u>14</u>	_____
Temperature	<u>18.3</u>	<u>18.4</u>	<u>18.5</u>	<u>18.4</u>	_____
Conductivity	<u>529</u>	<u>540</u>	<u>536</u>	<u>536</u>	_____
pH	<u>7.38</u>	<u>7.35</u>	<u>7.30</u>	<u>7.33</u>	_____
Color / Odor	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	_____
Turbidity	<u>low</u>	<u>low</u>	<u>low</u>	<u>low</u>	_____
Other	_____	_____	_____	_____	_____

Comments: _____

ATTACHMENT B

Analytical Results: Groundwater

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

April 05, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 19794

Date Collected: 3/29/00 ²⁸ (12)

Project Name: Golden Gate Petroleum

Date Received: 3/29/00

Project Number:

P.O. Number:

Project Notes:

On March 29, 2000, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	Gas/BTEX/MTBE	EPA 8015 MOD. EPA 8020
	TPH as Diesel	EPA 8015 MOD. (Extractable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,


Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794	Lab Sample ID: 19794-001	Client Sample ID: MW-1								
Sample Time: 3:01 PM	Sample Date: 3/29/00 ²⁸	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
					Surrogate Hexacosane			Surrogate Recovery 120		Control Limits (%) 65 - 135

Order ID: 19794	Lab Sample ID: 19794-002	Client Sample ID: MW-2								
Sample Time: 3:56 PM	Sample Date: 3/29/00 ²⁸	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	1800		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
					Surrogate Hexacosane			Surrogate Recovery 115		Control Limits (%) 65 - 135

Order ID: 19794	Lab Sample ID: 19794-003	Client Sample ID: MW-3								
Sample Time: 2:12 PM	Sample Date: 3/29/00 ²⁸	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
					Surrogate Hexacosane			Surrogate Recovery 103		Control Limits (%) 65 - 135

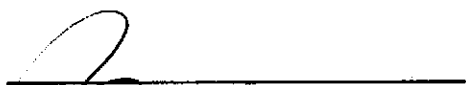
DF - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

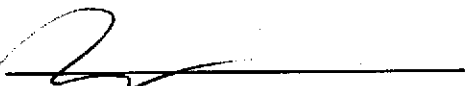
Certified Analytical Report

Order ID: 19794	Lab Sample ID: 19794-004	Client Sample ID: MW-4								
Sample Time: 1:26 PM	Sample Date: 3/28/00	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
						Surrogate Hexacosane		Surrogate Recovery		Control Limits (%)
								95		65 - 135

Order ID: 19794	Lab Sample ID: 19794-005	Client Sample ID: Casing-1								
Sample Time: 4:47 PM	Sample Date: 3/28/00	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	69		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
						Surrogate Hexacosane		Surrogate Recovery		Control Limits (%)
								116		65 - 135

Order ID: 19794	Lab Sample ID: 19794-006	Client Sample ID: Casing-2								
Sample Time: 5:42 PM	Sample Date: 3/29/00	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	3/31/00	4/1/00	DW000319	EPA 8015 MOD. (Extractable)
						Surrogate Hexacosane		Surrogate Recovery		Control Limits (%)
								85		65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit
Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794

Lab Sample ID: 19794-001

Client Sample ID: MW-1

Sample Time: 3:01 PM

Sample Date: 3/28/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L		3/30/00	WGC4000330B	EPA 8020
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				104		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L		3/30/00	WGC4000330B	EPA 8020
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				104		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L		3/30/00	WGC4000330B	EPA 8015 MOD.
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				112		65 - 135


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


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Environmental Analysis Since 1983

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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794	Lab Sample ID: 19794-002	Client Sample ID: MW-2								
Sample Time: 3:56 PM	Sample Date: 3/29/00	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		50	0.5	25	µg/L		3/30/00	WGC4000330B	EPA 8020
Toluene	ND		50	0.5	25	µg/L		3/30/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		50	0.5	25	µg/L		3/30/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		50	0.5	25	µg/L		3/30/00	WGC4000330B	EPA 8020
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				97		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	1800		50	5	250	µg/L		3/30/00	WGC4000330B	EPA 8020
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				97		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	2500	x	50	50	2500	µg/L		3/30/00	WGC4000330B	EPA 8015 MOD.
				Surrogate				Surrogate Recovery		Control Limits (%)
				aaa-Trifluorotoluene				104		65 - 135


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794

Lab Sample ID: 19794-003

Client Sample ID: MW-3

Sample Time: 2:12 PM

Sample Date: 3/29/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Toluene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020

Surrogate Surrogate Recovery Control Limits (%)
aaa-Trifluorotoluene 98 65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	610		5	5	25	µg/L		3/31/00	WGC4000330B	EPA 8020

Surrogate Surrogate Recovery Control Limits (%)
aaa-Trifluorotoluene 98 65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	280		5	50	250	µg/L		3/31/00	WGC4000330B	EPA 8015 MOD.

Surrogate Surrogate Recovery Control Limits (%)
aaa-Trifluorotoluene 109 65 - 135


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ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794

Lab Sample ID: 19794-004

Client Sample ID: MW-4

Sample Time: 1:26 PM

Sample Date: 3/25/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.5	2.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Toluene	ND		5	0.5	2.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		5	0.5	2.5	µg/L		3/30/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		5	0.5	2.5	µg/L		3/30/00	WGC4000330B	EPA 8020
			Surrogate			Surrogate Recovery			Control Limits (%)	
			aaa-Trifluorotoluene			77			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	800		5	5	25	µg/L		3/30/00	WGC4000330B	EPA 8020
			Surrogate			Surrogate Recovery			Control Limits (%)	
			aaa-Trifluorotoluene			77			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	430	x	5	50	250	µg/L		3/30/00	WGC4000330B	EPA 8015 MOD.
			Surrogate			Surrogate Recovery			Control Limits (%)	
			aaa-Trifluorotoluene			83			65 - 135	

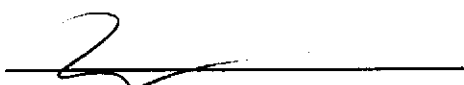
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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794

Lab Sample ID: 19794-005

Client Sample ID: Casing-1

Sample Time: 4:47 PM

Sample Date: 3/29²⁸/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		10	0.5	5	µg/L		3/31/00	WGC4000330B	EPA 8020
Toluene	ND		10	0.5	5	µg/L		3/31/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		10	0.5	5	µg/L		3/31/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		10	0.5	5	µg/L		3/31/00	WGC4000330B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							104		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	760		10	5	50	µg/L		3/31/00	WGC4000330B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							104		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		10	50	500	µg/L		3/31/00	WGC4000330B	EPA 8015 MOD.
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							113		65 - 135	


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ND = Not Detected

DLR = Detection Limit Reported

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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


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Attn: Randal Wilson

Date: 4/5/00
Date Received: 3/29/00
Project Name: Golden Gate Petroleum
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19794

Lab Sample ID: 19794-006

Client Sample ID: Casing-2

Sample Time: 5:42 PM

Sample Date: 3/29/00²⁸

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Toluene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Ethyl Benzene	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Xylenes, Total	ND		5	0.5	2.5	µg/L		3/31/00	WGC4000330B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							108		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	520		5	5	25	µg/L		3/31/00	WGC4000330B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							108		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	270		5	50	250	µg/L		3/31/00	WGC4000330B	EPA 8015 MOD.
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							114		65 - 135	


DF = Dilution Factor

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PQL = Practical Quantitation Limit

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Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Spikes

QC Batch #: DW000319
Matrix: Liquid
Units: µg/L

Date analyzed: 03/30/00
Date extracted: 03/29/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/L	SA µg/L	SR µg/L	SP µg/L	SP %R	SPD µg/L	SPD %R	RPD	RPD	QC LIMITS %R
Diesel	8015M	<50.0	1000	ND	1077	108	1081	108	0.4	25	58-121
Hexacosane(S.S.)				98%	112%		112%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R) Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R) Spike Duplicate % Recovery
- NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY
METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: WGC4000330
Matrix: Liquid
Units: µg/Liter

Date Analyzed: 03/30/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	4.7	ND	4.5	96	4.7	101	4.4	25	70-130
Toluene	8020	<0.50	29	ND	29	99	28	97	1.4	25	70-130
Ethyl Benzene	8020	<0.50	5.5	ND	5.6	101	5.4	99	2.6	25	70-130
Xylenes	8020	<0.50	32	ND	32	100	32	100	0.1	25	70-130
Gasoline	8015	<50.0	467	ND	450	96	463	99	3.0	25	70-130
aaa-TFT(S.S.)-FID	8020			107%	114%		118%				65-135
aaa-TFT(S.S.)-PID	8015			99%	102%		105%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: <u>Golden Gate Petroleum - 23rd</u> <u>23rd Ave</u> <u>Oakland</u>				SAMPLER: (Signature) <u>Barndal Wilson</u> HAGEMAN - AGUIAR, INC. 11100 San Pablo Ave., Suite 200-A El Cerrito, CA 94530 (510)620-0891 (510)620-0894 (FAX)				ANALYSIS REQUESTED <i>TPH-Gas, BTEX, MIBE by 8020/8015 TPH Diesel</i>							
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	SAMPLE LOCATION								REMARKS		
	3/28/00														
MW-1	03/29/00	15:01		X	Monitor Well # MW-1	X	X						19794-001		
MW-2	03/29/00	15:56		X	" " # MW-2	X	X						-002		
MW-3	03/29/00	14:12		X	" " # MW-3	X	X						-003		
MW-4	03/29/00	13:26		X	" " # MW-4	X	X						-004		
Casing-1	03/29/00	16:47		X	Extraction Casing 1	X	X						-005		
Casing-2	03/29/00	17:42		X	Extraction Casing 2	X	X						-006		
RELINQUISHED BY: (Signature) <u>R.B. Wilson</u>				DATE	TIME	RECEIVED BY: (Signature) <u>JSCW # 375</u>				DATE	TIME				
RELINQUISHED BY: (Signature) <u>JSCW # 375</u>				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) <u>J. McMan</u>				DATE	TIME				

00 MAR 29 15:57