

C A M B R I A

August 14, 2003

Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Well Survey and Site Conceptual Model**

Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822
Cambria Project# 245-0687-007



Dear Mr. Seery:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Well Survey and Site Conceptual Model* as requested in the Alameda County Health Care Services Agency (ACHCSA) letter dated May 15, 2003. The well survey was conducted to identify the presence of all wells and potential receptors within $\frac{1}{2}$ -mile of the site.

SITE BACKGROUND

This Shell-branded station is located at the intersection of Wildwood and Grand Avenue, in Piedmont, California (Figure 1). Three underground storage tanks (USTs) and one 550-gallon waste oil UST are located at the site. Five groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) have been installed at the site. Three groundwater monitoring wells are located on site, and two downgradient wells are located in Grand Avenue (Figure 2). The site lies at the confluence of two topographic valleys. One monitoring well (E-1) was installed and later abandoned due to flowing artesian groundwater conditions.

Soil Lithology: The materials underlying the site consist primarily of low to moderate estimated permeability sandy silts, clayey silts, silty clays, and clays interbedded with higher permeability layers or lenses of silty sands and silty gravels to the total explored depth of 35 feet below grade (fbg).

**Cambria
Environmental
Technology, Inc.**

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August 14, 2003

Alameda County

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Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Environmental Health

Subject: Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the [redacted] for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

Groundwater Depth, Elevation and Flow Direction: Monitoring wells MW-1 through MW-5 have well screens that begin from 3.5 to 6.5 fbg and end from 9.5 to 16.5 fbg. Former well E-4 was screened from 23 to 35 fbg. Historical depth to water ranges from 2.1 fbg to 8.8 fbg and current depth to water in the third quarter of 2003 ranges from 3.15 fbg to 4.57 fbg. The groundwater elevation in wells MW-1 through MW-5 has ranged from 24.26 feet above sea level (msl) to 35.8 ft msl. Groundwater in well E-4 was reported to be under artesian conditions, with the water level rising above the top of the well casing. The shallow groundwater flow direction is generally southwest, with a gradient of approximately 0.02 to 0.04 ft/ft. A rose diagram is included on Figure 2.



WELL SURVEY

Cambria reviewed California Department of Water Resources (DWR) records to identify potential receptor wells within a $\frac{1}{2}$ -mile radius of the site. Cambria obtained a total of 73 well driller's reports for wells within the four township and range sections that encompass the survey area. From these records, Cambria located one water-producing well within a $\frac{1}{2}$ -mile radius of the site. Locations of wells identified in the well survey are shown on Figure 1, and well details are summarized in Table 1. Monitoring wells in the site vicinity are also indicated on the map even though they are not water producing wells and thus are not considered receptors. Given the confidential nature of the DWR well information, copies of the reviewed records are not included in this report. The DWR records will be maintained in Cambria's files and are available for review upon request.

According to DWR records, the closest water producing well (#46) is a 300-foot deep domestic well approximately $\frac{1}{2}$ -mile northeast of the site. The address is approximately 500 feet in elevation per the topographic map. The Shell site is at approximately 40 feet in elevation. Cambria was unable to contact the owner to confirm whether the well is still in use. The DWR record indicated that the well was installed in 1977 and is sealed from the surface to 110 fbg.

DWR records also identified a cathodic protection well located approximately 2,400 feet north of the site. There are also two irrigation wells, two domestic wells and one well of unknown use just over $\frac{1}{2}$ -mile northeast of the site. In addition to those located on the subject site, DWR records identified eight monitoring wells within $\frac{1}{2}$ -mile.

Based on the information provided by DWR records, there are no potential receptor wells located within ½-mile downgradient of the site. Due to distance and location upgradient of the subject site, it is unlikely that any known water producing well would be impacted by hydrocarbons or oxygenates originating from at the site.

SITE CONCEPTUAL MODEL (SCM)

As requested, Cambria has prepared an SCM for the site, presented in Appendix A. Indexed in the SCM are:

- 
1. Hydrocarbon Source
 2. Site Characterization
 3. Remediation Status
 4. Well Survey and Sensitive Receptor Survey
 5. Risk Assessment
 6. Additional Recommended Data or Tasks

As noted in the SCM, the potential receptors in the site vicinity include Lake Merrit located approximately 4,000 feet south-southwest of the site. According to the San Francisco Regional Water Quality Control Board's June 1999 *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the City of Piedmont does not have any plans to develop local groundwater resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity.

Impact to any known water-producing wells is not likely, as discussed in the well survey above.

Potential pathways for contaminant migration in groundwater in the site vicinity include subsurface utilities and the natural valley of the former Wildwood creek. As reported in Cambria's January 30, 2003 *Conduit Study*, utility trenches in the site vicinity are deeper than the groundwater table and therefore likely to serve as preferential pathways for contaminant migration in groundwater. Cambria recommends no further investigation of subsurface utilities.

CONCLUSIONS AND RECOMMENDATIONS

There are no known water producing wells within ½-mile downgradient of the site and there are no known plans to develop local groundwater as a drinking water source.

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Scott Seery
August 14, 2003

Previous investigations have attempted to install additional monitoring wells downgradient of the site. However, utilities and limitations on street access prevented installation of additional wells.

Natural barriers (former creek channels, topography) limit horizontal and vertical chemical migration downgradient of the site.

The highest concentrations of hydrocarbons and methyl tertiary butyl ether (MTBE) detected in groundwater in the third quarter of 2003 are compared with the California Regional Water Quality Control Board's Environmental Screening Levels (ESL) below.

| Analyte | Well ID | Highest Groundwater Concentration 3q03 (micrograms per liter) | Environmental Screening Level (micrograms per liter) |
|--------------|---------|---|--|
| Benzene | MW-3 | 20 | 46 |
| Ethylbenzene | MW-2 | 1.4 | 290 |
| Toluene | MW-2 | 59 | 130 |
| Xylenes | MW-2 | 9.8 | 13 |
| MTBE | MW-3 | 360 | 1800 |
| TPHg | MW-3 | 1,000 | 500 |

Only total petroleum hydrocarbon as gasoline (TPHg) exceeds the ESL concentrations. Based on these concentrations and the investigations conducted to date, we believe that the current SCM is unlikely to change with additional investigation and should be considered validated. Concentrations of all constituents of concern are declining with time, indicating that no further release has occurred and that natural attenuation processes are remediating the constituents detected in groundwater.

Scott Seery
August 14, 2003**CLOSING**

We appreciate the opportunity to work with you on this project. Please contact Matt Derby at mderby@cambria-env.com or (510) 420-3332 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

Melody W. Derby
Matthew W. Derby, P.E.
Senior Project Engineer

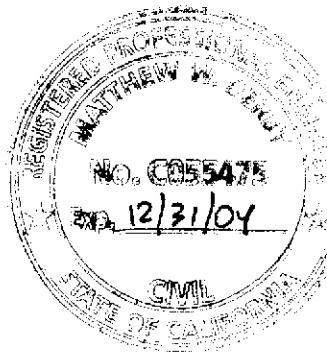


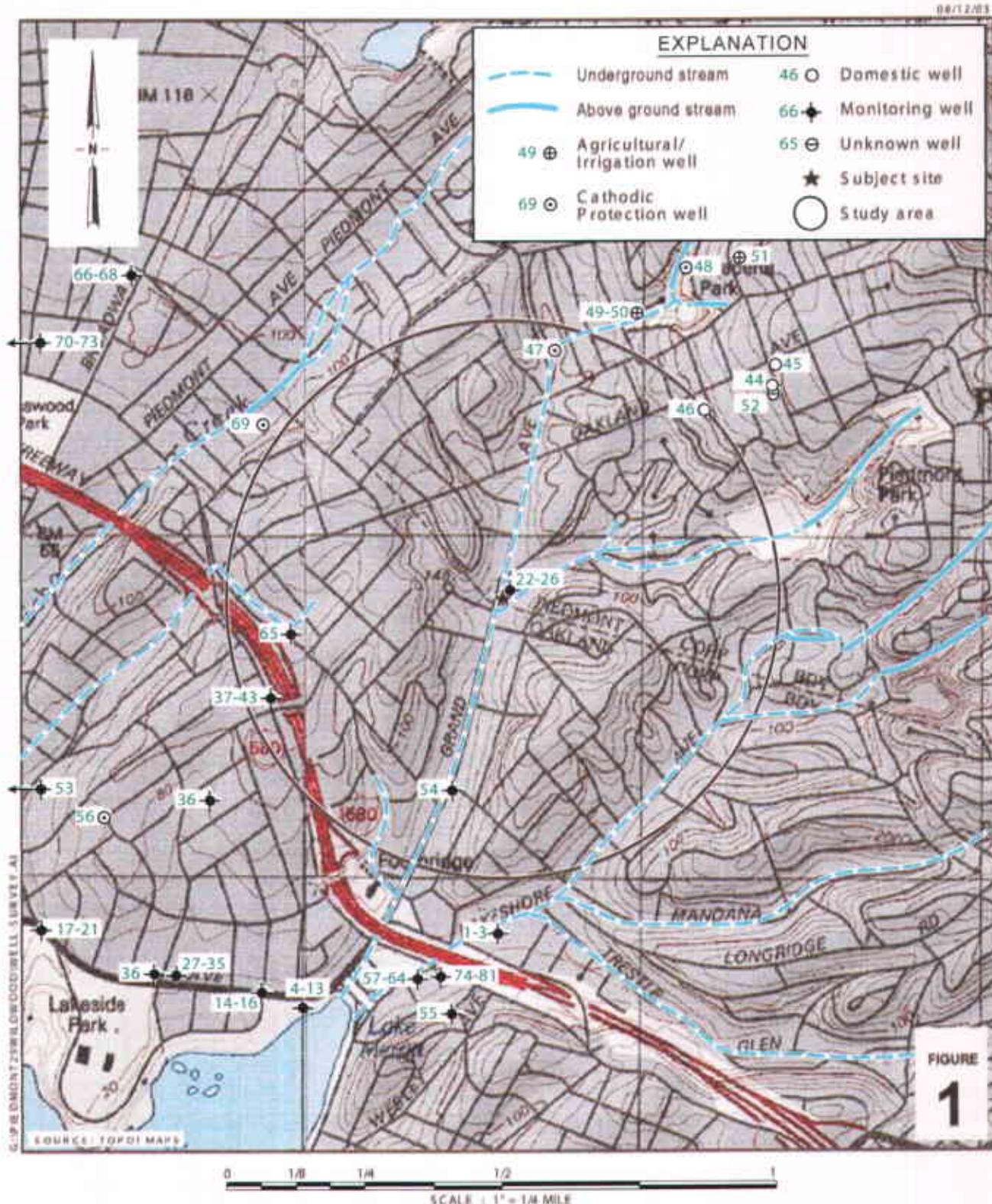
Figure: 1 - Vicinity Map/Well Survey

Table: 1 - Department of Water Resources Well Survey Results

Attachments: A - Site Conceptual Model (with attachments)

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

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Shell-branded Service Station

29 Wildwood Avenue
Piedmont, California
Incident #98095822



C A M B R I A

Vicinity Map/ Area Well Survey

1/2 Mile Radius

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|------------|---------------|--------------|--------------------|---------------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|
| 1 | 1S4W-25R3 | U-1 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 2 | 1S4W-25R2 | U-2 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 3 | 1S4W-25R4 | U-3 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 4 | 1S4W-25Q1 | MW-8F | 3/16/89 | Texaco | 500 Grand Ave. | MON | 20 | 9-15 | 0-8 | UNK | 0.83 |
| 5 | 1S4W-25Q2 | MW-8G | 3/16/89 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4.5 | UNK | 0.83 |
| 6 | 1S4W-25Q3 | MW-8H | 1/8/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 7 | 1S4W-25Q4 | MW-8I | 1/9/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 8 | 1S4W-25Q5 | MW-8J | 1/9/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 9 | 1S4W-25Q7 | MW-8E | 8/3/92 | Texaco | 500 Grand Ave. | MON | 20 | 4.5-15 | 0-4 | DEST | 0.83 |
| 10 | 1S4W-25Q8 | MW-8B | 4/1/93 | Texaco | 500 Grand Ave. | MON | --- | --- | --- | DEST | 0.83 |
| 11 | 1S4W-25Q9 | MW-8C | 4/1/93 | Texaco | 500 Grand Ave. | MON | --- | --- | --- | DEST | 0.83 |
| 12 | 1S4W-25Q10 | MW-8L | 5/18/93 | Texaco | 500 Grand Ave. | MON | 19.5 | 3-18 | 1.5-2.5 | UNK | 0.83 |
| 13 | 1S4W-25Q11 | MW-8K | 5/18/93 | Texaco | 500 Grand Ave. | MON | 19.5 | 3-18 | 1.5-2.5 | UNK | 0.83 |
| 14 | 1S4W-25P13 | C-1 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 20 | 5-15 | 0-4.5 | UNK | 0.84 |
| 15 | 1S4W-25P14 | C-2 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 16.5 | 5-15 | 0-4.5 | UNK | 0.84 |
| 16 | 1S4W-25P15 | C-3 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 15 | 5-15 | 0-4.5 | UNK | 0.84 |
| 17 | 1S4W-25M80 | MW-2 | --- | Chevron | 210 Grand Ave. | MON | --- | --- | --- | DEST | 1.04 |
| 18 | 1S4W-25M9 | MW-6 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-5 | UNK | 1.04 |
| 19 | 1S4W-25M10 | MW-7 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-5 | UNK | 1.04 |
| 20 | 1S4W-25M11 | MW-8 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 14 | 5.5-8 | 0-5.5 | UNK | 1.04 |
| 21 | 1S4W-25M12 | MW-9 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-4.5 | UNK | 1.04 |
| 22 | 1S4W-25A5 | MW-1 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 6-15 | 0-5.5 | UNK | 0.00 |
| 23 | 1S4W-25A6 | MW-2 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 6-12 | 0-5.5 | UNK | 0.00 |
| 24 | 1S4W-25A7 | MW-3 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 3.5-10 | 0-3.5 | UNK | 0.00 |
| 25 | 1S4W-25A4 | MW-4 | 1/23/90 | Shell | 29 Wildwood Ave | MON | 20 | 4-16 | 3-4 | UNK | 0.00 |
| 26 | 1S4W-25A8 | MW-5 | 1/23/90 | Shell | 29 Wildwood Ave | MON | 16.5 | 5-16 | 3.5-4 | UNK | 0.00 |
| 27 | 1S4W-25P6 | MW-6 | 3/6/90 | Quick Stop Markets | 363 Grand Ave. | MON | 30 | 15-30 | 0-15 | UNK | 0.90 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|------------|---------------|--------------|--------------------------------|-------------------------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|
| 28 | 1S4W-25P7 | MW-7 | 3/7/90 | Quick Stop Markets | 363 Grand Ave. | MON | 23.5 | 13.5-23.5 | 0-11.5 | UNK | 0.90 |
| 29 | 1S4W-25P8 | MW-8 | 3/7/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 18.5-28.5 | 0-16.5 | UNK | 0.90 |
| 30 | 1S4W-25P5 | MW-5 | 3/5/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 15-30 | 0-13 | UNK | 0.90 |
| 31 | 1S4W-25P4 | MW-4 | 3/5/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 15-30 | 0-13 | UNK | 0.90 |
| 32 | 1S4W- | MW-1 | 11/10/88 | Quick Stop Markets | 363 Grand Ave. | MON | 27 | 27-30.5 | 0-13 | UNK | 0.90 |
| 33 | 1S4W- | MW-3 | 11/16/88 | Quick Stop Markets | 363 Grand Ave. | MON | 36 | 24-34 | 0-15 | UNK | 0.90 |
| 34 | 1S4W- | MW-2 | 11/11/88 | Quick Stop Markets | 363 Grand Ave. | MON | 35.5 | 15-35 | 0-15 | UNK | 0.90 |
| 35 | 1S4W-25P12 | RW-1 | 8/14/90 | Quick Stop Markets | 363 Grand Ave. | MON | 37 | 25-35 | 0-22 | UNK | 0.90 |
| 36 | 1S4W-25P9 | S-1 | 1/7/91 | Shell | 350 Grand Ave. | MON | 17 | 7-16 | 0-5 | UNK | 0.65 |
| 37 | 1S4W-24P1 | S-A | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 38 | 1S4W-24P2 | S-B | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 39 | 1S4W-24P3 | S-C | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 40 | 1S4W-24P7 | MW-4 | 1/9/90 | Shell | 230 MacArthur Blvd. | MON | 25.5 | 15-25 | 0-14 | UNK | 0.45 |
| 41 | 1S4W-24P? | MW-1 | 7/11/88 | Shell | 230 MacArthur Blvd. | MON | 31.5 | 10-30 | 0-8 | UNK | 0.45 |
| 42 | 1S4W-24P5 | MW-2 | 7/11/88 | Shell | 230 MacArthur Blvd. | MON | 28 | 10-28 | 0-6 | UNK | 0.45 |
| 43 | 1S4W-24P6 | MW-3 | 7/12/88 | Shell | 230 MacArthur Blvd. | MON | 28.5 | 11.5-28.5 | 0-10 | UNK | 0.45 |
| 44 | 1S3W-19P4 | | 2/5/91 | Paul Hertelendy | 321 Hillside Ave. | DOM | 157 | 77-157 | 0-21 | UNK | 0.60 |
| 45 | 1S3W-19P13 | | 5/30/05 | Abbott | 304 Hillside Ave. | DOM | 220 | --- | 0-75 | UNK | 0.68 |
| 46 | 1S3W-19P2 | | 1977 | Traulsen | 326 El Cerrito | DOM | 300 | --- | 0-110 | UNK | 0.50 |
| 47 | 1S3W-19M3 | | 1/27/82 | East Bay MUD | Lower Grand Ave & Holly Place | CAT | 65 | --- | 5-48 | UNK | 0.48 |
| 48 | 1S3W-19L? | | 7/17/74 | PG & E | 132 Dracena Ave | CAT | 120 | --- | --- | UNK | 0.70 |
| 49 | 1S3W-19M2 | | 8/29/77 | City of Piedmont | Dracena Park | IRR | 300 | --- | --- | UNK | 0.56 |
| 50 | 1S3W-19M3 | | 10/1977 | City of Piedmont | Dracena Park | IRR | 300 | --- | --- | UNK | 0.56 |
| 51 | 1S3W-19M5 | --- | 12/23/88 | John B. Bates, Jr. | 125 Hillside Ave. | IRR | 100 | 40-100 | 0-20 | UNK | 0.75 |
| 52 | 1S3W- | 1137 | --- | Ernest J. Sweetland | 321 Hillside Ave. | UNK | 119.5 | 39.5-119.5 | --- | UNK | 0.60 |
| 53 | 1S4W-25M14 | --- | 2/23/93 | Wells Fargo Bank/Sehpard Trust | 230 Bay Place | MON | 20 | 5-20 | 0-4 | UNK | 1.00 |
| 54 | 1S4W-25H1 | MW-1 | 1/25/91 | Martini Company | 3509 Grand Ave. | MON | 40 | 10-40 | 0-8 | UNK | 0.35 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|------------|---------------|--------------|-----------------------------------|------------------------------------|------------|-------------|-------------------------|-----------------------|-------------|-----------------|
| 55 | 1S4W-25R1 | MW-1 | 10/10/89 | Ranger Pipeline | 637 Beacon | MON | 35.5 | 15-35.5 | 0-15 | UNK | 0.75 |
| 56 | 1S4W-25L1 | --- | 8/7/74 | PG & E | Adams and Lee Streets | Cathodic | 120 | --- | 0-95 | UNK | 0.81 |
| 57 | 1S4W-25R5 | MW-A | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 58 | 1S4W-25R6 | MW-B | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 59 | 1S4W-25R7 | MW-C | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 60 | 1S4W-25R8 | MW-D | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 61 | 1S4W-25R9 | MW-G | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 62 | 1S4W-25R10 | MW-H | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 63 | 1S4W-25R11 | MW-I | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 64 | 1S4W-25R12 | MW-J | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 65 | 1S4W-25B1 | 1 | 6/7/89 | City of Oakland (Fire Station 10) | 172 Santa Clara Ave | MON | 25 | 10-25 | 0-9.5 | UNK | 0.38 |
| 66 | 1S4W-24L4 | MW-1 | 10/17/89 | Unocal | 3943 Broadway | MON | 20 | 5-20 | 0-4 | UNK | 0.90 |
| 67 | 1S4W-24L14 | MW-10 | 2/6/92 | Unocal | 3943 Broadway | MON | --- | --- | --- | UNK | 0.90 |
| 68 | 1S4W-24L15 | MW-11 | 2/6/92 | Unocal | 3943 Broadway | MON | --- | --- | --- | UNK | 0.90 |
| 69 | 1S4W-24Q1 | --- | 6/26/74 | PG & E | Moutell St, 75' w/o Robley Terrace | CAT | 120 | --- | 0-95 | UNK | 0.55 |
| 70 | 1S4W-24M1 | MW-1 | 9/7/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 71 | 1S4W-24M2 | MW-2 | 9/6/89 | Unocal | 411 W. MacArthur Blvd. | MON | 30.5 | 3.5-28.5 | 0-3 | UNK | 1.00 |
| 72 | 1S4W-24M3 | MW-3 | 9/7/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 73 | 1S4W-24M4 | MW-4 | 9/6/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 74 | 1S4W-25R13 | MW-1 | 8/7/91 | Chevron | 3026 Lakeshore Ave | MON | 14 | 4-14 | 0-3 | DEST | 0.69 |
| 75 | 1S4W-25R14 | MW-2 | 8/7/91 | Chevron | 3026 Lakeshore Ave | MON | 12 | 2-12 | 0-2 | UNK | 0.69 |
| 76 | 1S4W-25R15 | MW-3 | 8/13/91 | Chevron | 3026 Lakeshore Ave | MON | 18 | 8-18 | 0-5 | UNK | 0.69 |
| 77 | 1S4W-25R16 | MW-4 | 8/13/91 | Chevron | 3026 Lakeshore Ave | MON | 15 | 5-15 | 0-4 | UNK | 0.69 |
| 78 | 1S4W-25R17 | MW-1 | 6/19/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |
| 79 | 1S4W-25R18 | MW-5 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 24 | 15-35 | 0-13 | UNK | 0.69 |
| 80 | 1S4W-25R19 | MW-6 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |
| 81 | 1S4W-25R13 | MW-7 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|---------|---------------|--------------|-------|---------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|
|--------|---------|---------------|--------------|-------|---------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|

Notes and Abbreviations:

Well information provided by the Alameda County Water District.

Map ID number refers to map location on Figure 1.

Well ID = California State well identification number as recorded by the Department of Water Resources in Sacramento, California

fbg = feet below grade

AG = Agricultural

DOM = Domestic

GEO = Geotechnical

IND = Industrial

MON = Monitoring

UNK = Unknown

CAT = Cathodic Protection

DEST = destroyed

"---" = no data available

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ATTACHMENT A
SITE CONCEPTUAL MODEL

SITE CONCEPTUAL MODEL

August 14, 2003

Cambria Environmental Technology, Inc.

| | | | |
|----------------------|--------------------|-------------------------|--|
| Site Address: | 29 Wildwood Avenue | Incident Number: | 98995822 |
| City: | Piedmont, CA | Regulator: | Alameda County Health Care Services Agency |

| Item | Evaluation Criteria | Comments/Discussion |
|-------------|--|--|
| 1 | Hydrocarbon Source | |
| 1.1 | Identify/Describe Release Source and Volume (if known) | Release source and volume is unknown. Hydrocarbons were detected in the vicinity of the former underground storage tanks (USTs), and current dispensers and piping. |
| 1.2 | Discuss Steps Taken to Stop Release | The previous USTs at the site were removed and replaced in 1984. In March 1998, Shell voluntarily initiated upgrades at the service station. Paradiso Mechanical of San Leandro added secondary containment to the existing dispensers and the turbine sumps, and removed the waste oil remote fill piping. MTBE-containing gasoline is no longer dispensed at the station, effective 1/1/03. |
| 2 | Site Characterization | |
| 2.1 | Current Site Use/Status | This Shell-branded station is located at the intersection of Wildwood and Grand Avenue, in Piedmont, California (Figure 1). Three underground storage tanks (USTs) and one 550-gallon waste oil UST are located at the site. Three groundwater monitoring wells are located onsite, and two downgradient wells are located in Grand Avenue (Figure 2). The site lies at the confluence of two topographic valleys. Five groundwater monitoring wells have been installed at the site (MW-1, MW-2, MW-3, MW-4, and MW-5). One monitoring well (E-1) was installed and later abandoned due to flowing artesian groundwater conditions. |
| 2.2 | Soil Definition Status | No soil samples collected at the site have been analyzed for MTBE. The highest concentration of TPHg detect in soil at the site was 6,500 ppm in boring B-3 at 10 fbg collected in 1988. According to the boring log, this sample was likely saturated. The highest concentration of benzene detected at the site was 6.3 ppm in sample D-2 at 2.0 fbg, collected in 1998. |
| 2.3 | Separate-Phase Hydrocarbon Definition Status | No SPH has been detected at the site. |

| | | |
|-----|--|---|
| 2.4 | Groundwater Definition Status (BTEX) | Groundwater monitoring has been conducted at the site since 1989. The west and southwest downgradient extent of BTEX is defined by non-detect results in monitoring wells MW-2, MW-4 and MW-5. The east upgradient extent of BTEX is defined by non-detect concentrations in MW-1. Benzene concentrations in well MW-3 have been in the range of 50 ppb since the fourth quarter of 2001. The vertical extent of BTEX in groundwater has not been defined. |
| 2.5 | BTEX Plume Stability and Concentration Trends | Currently, BTEX concentrations exhibit a decreasing trend in MW-3. BTEX is not detected in any other on- or offsite wells. |
| 2.6 | Groundwater Definition Status (MTBE) | The southwest downgradient extent of MTBE in groundwater is defined by non-detection in monitoring wells MW-4 and MW-5. The east upgradient extent of MTBE in groundwater is defined by non-detection in well MW-1. In the third quarter of 2003, MTBE concentrations were 410 ppb and 540 ppb in wells MW-2 and MW-3, respectively. The vertical extent of MTBE in groundwater has not been defined in these wells. |
| 2.7 | MTBE Plume Stability and Concentration Trends | MTBE concentrations currently shows a stable to decreasing trend. MTBE concentrations in MW-3 have decreased from 4,100 ppb to 540 ppb since the second quarter of 2002. |
| 2.8 | Groundwater Flow Direction, Depth Trends and Gradient Trends | Monitoring wells MW-1 through MW-5 have well screens that begin from 3.5 to 6.5 fbg and end from 9.5 to 16.5 fbg. Former well E-4 was screened from 23 to 35 fbg. Historical depth to water ranges from 2.1 fbg to 8.8 fbg and current depth to water in the fourth quarter of 2002 ranges from 3.3 fbg to 4.3 fbg. The groundwater elevation in wells MW-1 through MW-5 has ranged from 24.26 feet above sea level (msl) to 35.8 ft msl. Groundwater in well E-4 was reported to be under artesian conditions, with the water level rising above the top of the well casing. The shallow groundwater flow direction is generally southwest, with a gradient of approximately 0.02 to 0.04 ft/ft. |
| 2.9 | Stratigraphy and Hydrogeology | The materials underlying the site consist primarily of low to moderate estimated permeability sandy silts, clayey silts, silty clays, and clays interbedded with higher permeability layers or lenses of silty sands and silty gravels to the total explored depth of 35 feet below grade (fbg). |

| | | |
|------|--------------------------------|--|
| 2.10 | Preferential Pathways Analysis | <p>Utility lines run adjacent to two sides of the site. Identified utilities include sanitary sewer, water, electrical and gas lines, as well as storm drain lines. The utility lines downgradient from the site run approximately north to south, which approximates the natural groundwater flow direction at the site. Groundwater elevations in the shallow water-bearing zone were calculated using surveyed top of well casing elevations and depths to groundwater measured since 1989. Groundwater elevations have ranged from approximately 24.3 to 35.8 feet msl. Since accurate depth information could not be obtained for the water mains, electrical conduits and gas piping, their locations relative to the water table cannot be established with certainty. However, since typical burial depths for these utilities is at least 3 fbg, and groundwater depths have been as shallow as 2.1 feet below top of casing, it is very likely that the water, electric and gas pipes and their trenches have intersected the water table. In that event, these utility trenches would likely act as preferential pathways for groundwater flow. Similarly, based on inferred depths of sanitary sewer lines, it is likely that these utility trenches also act as preferential pathways for groundwater flow.</p> |
| 2.11 | Other Pertinent Issues | <p>The now buried former creek channels adjacent to two sides of the site likely act as natural barriers and conduits for groundwater flow. It is likely that any shallow or deep groundwater leaving the site will be contained within the confines of the former creek channels. Groundwater is expected to flow within the natural valley of the former Wildwood Creek towards Lake Merritt, consistent with groundwater monitoring results.</p> <p>Together, these findings, and the consistently observed groundwater flow direction, indicate that groundwater will flow within the confines of the natural valley of the former Wildwood Creek, regardless of the presence of man-made conduits or preferential pathways.</p> |
| 3 | | Remediation Status |
| 3.1 | Remedial Actions Taken | Oxygen releasing compound (ORC) installed in wells MW-1, MW-2 and MW-3 in the second quarter of 1998. ORCs were removed from MW-1 in the fourth quarter of 2001, however they are still in use in wells MW-2 and MW-3 and changed semi-annually. |
| 3.2 | Area Remediated | Remediation at the site has concentrated on groundwater downgradient of the current and former tank pit. |
| 3.3 | Remediation Effectiveness | Hydrocarbon concentrations in groundwater decreased moderately following addition of ORCs and continue to decline and/or remain non-detect. |

| | | |
|----------|--|--|
| 4 | Well and Sensitive Receptor Survey | |
| 4.1 | Designated Beneficial Groundwater Use | San Francisco Bay Region RWQCB Basin Plan identifies the following existing beneficial uses for groundwater in this region: Municipal and domestic water supply, Industrial process water supply, Industrial service water supply, and Agricultural water supply. However, the June 1999 East Bay Plain Groundwater Basin Beneficial Use Evaluation Report indicates that the City of Piedmont does not have any plans to develop local groundwater resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity. |
| 4.2 | Shallow Groundwater Use | No pumping wells that draw from shallow groundwater were identified within a half-mile radius of the site. |
| 4.3 | Deep Groundwater Use | A 300-foot deep domestic well, installed in 1977 and sealed from 0-110 feet below grade, has been identified approximately 1/2-mile upgradient of the site. The current status of the well is unknown. |
| 4.4 | Well Survey Results | An August 2003 well survey conducted by Cambria identified one water-producing well, one cathodic protection well and eight monitoring wells within 1/2-mile of the site. The water-producing well is located approximately 1/2-mile upgradient of the site. |
| 4.5 | Likelihood of Impact to Wells | Due to distance and location upgradient of the subject site, it is unlikely that any known water producing well would be impacted by hydrocarbons or oxygenates originating from at the site. |
| 4.6 | Likelihood of Impact to Surface Water | The former creek channels adjacent to the site were likely to have been filled to construct the existing streets, and the creeks were routed into storm drains. The now buried, former creek channels are likely to act as natural barriers and conduits for groundwater flow. It is likely that any shallow or deep groundwater leaving the site will be contained within the confines of the former creek channels. From this, groundwater is expected to flow towards Lake Merritt, which is consistent with groundwater monitoring results. |
| 5 | Risk Assessment | |
| 5.1 | Site Conceptual Exposure Model (current and future uses) | Onsite land use is commercial. There is an operating Shell-branded service station with an enclosed station building onsite. Offsite land use in the immediate vicinity is commercial. Residential use land is located southeast of the site. |
| 5.2 | Exposure Pathways | Soil and/or groundwater volatilization to outdoor and/or indoor air, commercial exposure. |
| 5.3 | Risk Assessment Status | No formal risk assessment has been performed. |

| | | |
|----------|---|---|
| 5.4 | Identified Human Exceedances | No exceedances have been identified or evaluated. |
| 5.5 | Identified Ecological Exceedances | No exceedances have been identified or evaluated. |
| 6 | Additional Recommended Data or Tasks | |
| 6.1 | | None recommended |

Attached:

List of environmental documents

Quarterly groundwater monitoring map (2Q03)

Quarterly groundwater monitoring table (3Q03)

Historical soil analytical tables and boring location maps

Well and boring logs

Cross section diagrams

2003 well survey map and table

2003 utility location map

G:\Piedmont 29 Wildwood\2003 Preferential Pathway Study and SCM\SCM\BSITE CONCEPTUAL MODEL.doc

Environmental Documents Available to Cambria Environmental

| Date | Title/Subject | Company |
|----------|---|------------------------------|
| 09/20/84 | Subsurface Hydrogeologic Investigation | Emcon Associates |
| 06/16/87 | Sampling Report | Blaine Tech Services |
| 10/03/88 | Soil Investigation | EnSCO Environmental Services |
| 09/12/89 | Well Construction Report | Weiss Associates |
| 09/19/89 | Subsurface Investigation | Weiss Associates |
| 06/21/90 | Subsurface Investigation and Groundwater Monitoring Report Letter to Alameda County Department of Environmental Health | Weiss Associates |
| 08/11/92 | Letter to Alameda County Department of Environmental Health | Weiss Associates |
| 12/22/92 | | Weiss Associates |
| 02/14/94 | Quarterly Groundwater Sampling Report 940120-G-1 | Blaine Tech Services |
| 05/03/94 | Quarterly Groundwater Sampling Report 940412-F-2 | Blaine Tech Services |
| 10/26/94 | Quarterly Groundwater Sampling Report 941006-F-2 | Blaine Tech Services |
| 03/10/95 | First Quarter 1995 Monitoring Report | Weiss Associates |
| 09/14/95 | Third Quarter 1995 Monitoring Report | Weiss Associates |
| 04/09/96 | First Quarter 1996 Monitoring Report | Weiss Associates |
| 11/07/96 | Third Quarter 1996 Monitoring Report | Cambria Environmental |
| 05/15/97 | First Quarter 1997 Monitoring Report | Cambria Environmental |
| 09/17/97 | Soil Dispenser Confirmation | Cambria Environmental |
| 03/19/98 | Fourth Quarter 1997 Monitoring Report | Cambria Environmental |
| 04/06/98 | Dispenser Soil Sampling Report | Cambria Environmental |
| 07/28/98 | Second Quarter 1998 Monitoring Report | Cambria Environmental |
| 01/21/99 | Fourth Quarter 1998 Monitoring Report | Cambria Environmental |
| 09/28/99 | Second Quarter 1999 Monitoring Report | Cambria Environmental |
| 01/13/00 | Fourth Quarter 1999 Monitoring Report | Cambria Environmental |
| 06/06/00 | Second Quarter 2000 Monitoring Report | Cambria Environmental |
| 01/11/01 | Fourth Quarter 2000 Monitoring Report | Cambria Environmental |
| 07/12/01 | Second Quarter 2001 Moniotirng Report | Cambria Environmental |
| 02/01/02 | Fourth Quarter 2001 Moniotirng Report | Cambria Environmental |
| 07/16/02 | Second Quarter 2002 Moniotirng Report | Cambria Environmental |
| 09/27/02 | Third Quarter 2002 Moniotirng Report | Cambria Environmental |
| 01/30/03 | Fourth Quarter 2003 Moniotirng Report | Cambria Environmental |
| 05/05/03 | First Quarter 2003 Monitoring Report | Cambria Environmental |
| 07/09/03 | Second Quarter 2003 Monitoring Report and Agency Response | Cambria Environmental |

08/23/03

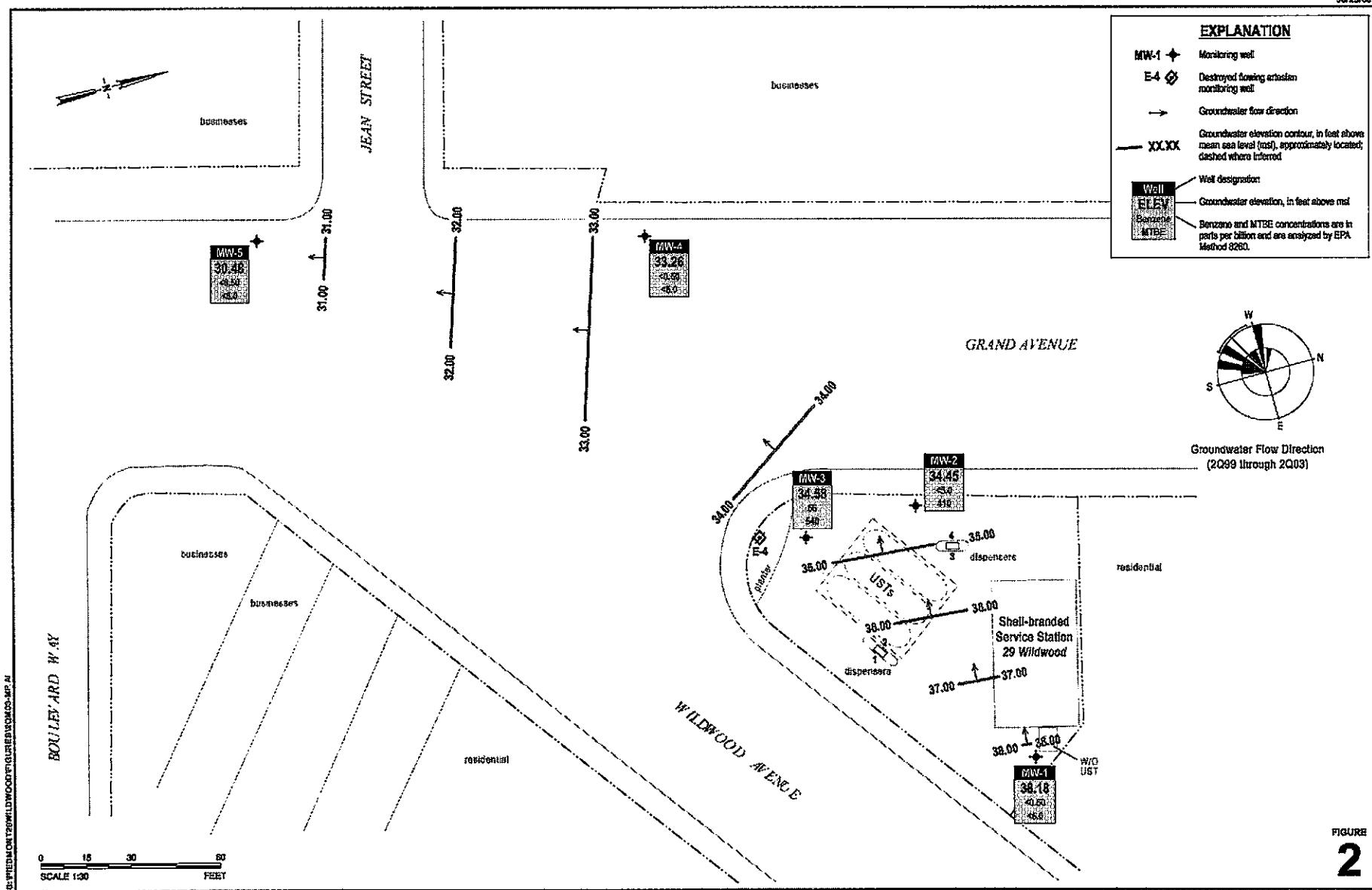
Groundwater Elevation Contour Map

April 30, 2003

CAMBRIA

2

Shell-branded Service Station
29 Wildwood Avenue
Pleasanton, California
Incident #88888822



BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

July 31, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Monitoring performed on July 14, 2003

Groundwater Monitoring Report **030714-SS-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses. Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ad

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | | |
|------|------------|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-----|
| MW-1 | 07/12/1989 | <50 | <0.5 | <1 | <1 | <3 | NA | NA | 37.96 | 2.76 | 35.20 | NA | |
| MW-1 | 01/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.10 | 34.86 | NA | |
| MW-1 | 04/27/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.24 | 34.72 | NA | |
| MW-1 | 07/31/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.26 | 33.70 | NA | |
| MW-1 | 10/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.25 | 33.71 | NA | |
| MW-1 | 01/31/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.66 | 34.30 | NA | |
| MW-1 | 04/30/1991 | <50 | 0.8 | <0.5 | 0.6 | 1.2 | NA | NA | 37.96 | 3.46 | 34.50 | NA | |
| MW-1 | 07/30/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.14 | 33.82 | NA | |
| MW-1 | 10/29/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.96 | 34.00 | NA | |
| MW-1 | 01/20/1992 | <30 | <0.3 | <0.3 | <0.3 | <0.3 | NA | NA | 37.96 | 3.59 | 34.37 | NA | |
| MW-1 | 04/14/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.18 | 31.71 | NA | |
| MW-1 | 07/21/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.17 | 33.79 | NA | |
| MW-1 | 10/02/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.29 | 33.67 | NA | |
| MW-1 | 01/20/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 2.32 | 35.64 | NA | |
| MW-1 | 05/03/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.50 | 34.46 | 1.9 | |
| MW-1 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 37.96 | 3.76 | 34.20 | NA | |
| MW-1 | 07/21/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.09 | 33.87 | 4.6 | |
| MW-1 | 10/19/1993 | 50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.58 | 34.38 | 4.3 | |
| MW-1 | 01/20/1994 | Well inaccessible | | NA | NA | NA | NA | NA | 37.96 | NA | NA | NA | |
| MW-1 | 04/12/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.60 | 34.36 | 7.5 | |
| MW-1 | 07/20/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.10 | 33.86 | 3.2 | |
| MW-1 | 10/06/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 4.30 | 33.66 | 3.2 | |
| MW-1 | 01/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 2.94 | 35.02 | 10.6 | |
| MW-1 | 07/06/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 3.68 | 34.28 | NA | |
| MW-1 | 01/24/1996 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 37.96 | 2.12 | 35.84 | NA | |
| MW-1 | 07/12/1996 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | 37.96 | 3.58 | 34.38 | 2.7 |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | |
|------|------------|-------------------|--------|--------|--------|--------|-------|-------|-------|------|-------|-----|
| MW-1 | 01/16/1997 | 120 | 14 | 10 | 3.6 | 14 | <2.5 | NA | 37.96 | 2.30 | 35.66 | 3 |
| MW-1 | 10/24/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 8.6 | NA | 37.96 | 3.66 | 34.30 | 4.5 |
| MW-1 | 05/13/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 37.96 | 2.81 | 35.15 | 5.1 |
| MW-1 | 10/01/1998 | <50 | <0.50c | <0.50c | <0.50c | <0.50c | <2.5c | NA | 37.96 | 3.75 | 34.21 | 5.0 |
| MW-1 | 04/29/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 37.96 | 3.52 | 34.44 | 4.1 |
| MW-1 | 11/01/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 5.03 | NA | 37.96 | 4.05 | 33.91 | 3.6 |
| MW-1 | 04/05/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 3.22 | NA | 37.96 | 3.74 | 34.22 | 4.2 |
| MW-1 | 10/30/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 37.96 | 2.19 | 35.77 | 4.1 |
| MW-1 | 04/27/2001 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 37.96 | 4.43 | 33.53 | 1.9 |
| MW-1 | 10/31/2001 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 37.96 | 4.34 | 33.62 | 2.4 |
| MW-1 | 05/09/2002 | Well inaccessible | NA | NA | NA | NA | NA | NA | 37.96 | NA | NA | NA |
| MW-1 | 07/25/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 37.96 | 3.53 | 34.43 | 1.2 |
| MW-1 | 10/23/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <0.50 | 40.94 | 3.68 | 37.26 | 3.5 |
| MW-1 | 01/22/2003 | Well inaccessible | NA | NA | NA | NA | NA | NA | 40.94 | NA | NA | NA |
| MW-1 | 01/29/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 40.94 | 3.25 | 37.69 | 3.7 |
| MW-1 | 04/30/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | NA | <5.0 | 40.94 | 2.76 | 38.18 | 3.6 |
| MW-1 | 07/14/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | NA | <1.4 | 40.94 | 3.15 | 37.79 | 0.5 |

| | | | | | | | | | | | | |
|------|------------|-----|------|------|------|------|----|----|-------|------|-------|----|
| MW-2 | 07/12/1989 | 60 | 2.7 | <1 | <1 | <3 | NA | NA | 34.89 | 3.66 | 31.23 | NA |
| MW-2 | 01/30/1990 | <50 | 6.6 | <0.5 | 0.54 | 0.93 | NA | NA | 34.89 | 3.49 | 31.40 | NA |
| MW-2 | 04/27/1990 | 60 | 2.1 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 3.79 | 31.10 | NA |
| MW-2 | 07/31/1990 | 70 | 1.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.03 | 30.86 | NA |
| MW-2 | 10/30/1990 | 70 | <0.5 | 0.7 | <0.5 | 1.6 | NA | NA | 34.89 | 4.21 | 30.68 | NA |
| MW-2 | 01/31/1991 | 80 | <0.5 | <0.5 | 0.9 | 1.9 | NA | NA | 34.89 | 4.09 | 30.80 | NA |
| MW-2 | 04/30/1991 | 100 | 5.9 | 0.6 | 0.7 | 2 | NA | NA | 34.89 | 3.95 | 30.94 | NA |
| MW-2 | 07/30/1991 | <50 | <0.5 | <0.7 | <0.5 | <0.5 | NA | NA | 34.89 | 4.07 | 30.82 | NA |
| MW-2 | 10/29/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.11 | 30.78 | NA |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
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| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | |
|----------|------------|-------|--------|--------|--------|--------|------|-----|-------|------|-------|------|
| MW-2 | 01/20/1992 | <30 | 0.84 | <0.3 | <0.41 | <0.48 | NA | NA | 34.89 | 3.86 | 31.03 | NA |
| MW-2 | 04/14/1992 | 70 | 16 | <0.5 | 3.1 | 2.1 | NA | NA | 34.89 | 3.66 | 34.30 | NA |
| MW-2 | 07/21/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 3.92 | 30.97 | NA |
| MW-2 | 10/02/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.45 | 30.44 | NA |
| MW-2 | 01/20/1993 | <50 | 3.8 | <0.5 | 0.52 | <0.5 | NA | NA | 34.89 | 3.74 | 31.15 | NA |
| MW-2 | 05/03/1993 | 680a | 2.8 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 3.77 | 31.12 | 0.9 |
| MW-2 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 34.89 | 3.96 | 30.93 | NA |
| MW-2 | 07/21/1993 | <50 | 8 | 1.2 | 1.8 | 7.9 | NA | NA | 34.89 | 4.39 | 30.50 | 5.9 |
| MW-2 | 10/19/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 3.92 | 30.97 | 5.7 |
| MW-2 | 01/20/1994 | <50 | 1.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.45 | 30.44 | 3.2 |
| MW-2 | 04/12/1994 | <50 | 2.9 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.72 | 30.17 | 11.4 |
| MW-2 | 07/20/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 5.32 | 29.57 | 2.4 |
| MW-2 | 10/06/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 4.03 | 30.86 | 2.9 |
| MW-2 | 01/20/1995 | 290 | 28 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 3.89 | 31.00 | 4.6 |
| MW-2 | 07/06/1995 | 120 | 3 | <0.5 | <0.5 | <0.5 | NA | NA | 34.89 | 8.84 | 26.05 | NA |
| MW-2 | 01/24/1996 | 70 | 3.1 | <0.5 | 0.8 | 1.5 | NA | NA | 34.89 | 3.80 | 31.09 | NA |
| MW-2 (D) | 01/24/1996 | 70 | 3.2 | 0.5 | 0.7 | 1.5 | NA | NA | 34.89 | NA | NA | NA |
| MW-2 | 07/12/1996 | <50 | 0.68 | <0.5 | <0.5 | <0.5 | 270 | NA | 34.89 | 3.85 | 31.04 | 3.8 |
| MW-2 | 01/16/1997 | 230 | 34 | 1.6 | 1.6 | 4.2 | 460 | NA | 34.89 | 3.84 | 31.05 | NA |
| MW-2 | 10/24/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 54 | NA | 34.89 | 3.75 | 31.14 | 2.9 |
| MW-2 | 05/13/1998 | NA | NA | NA | NA | NA | NA | NA | 34.89 | 3.78 | 31.11 | NA |
| MW-2 | 10/01/1998 | <50 | <0.50c | <0.50c | <0.50c | <0.50c | 100 | NA | 34.89 | 4.90 | 29.99 | 3.0 |
| MW-2 | 04/29/1999 | NA | NA | NA | NA | NA | NA | NA | 34.89 | 4.69 | 30.20 | NA |
| MW-2 | 11/01/1999 | <50.0 | <0.500 | 1.29 | 0.669 | 4.52 | 7.21 | NA | 34.89 | 5.24 | 29.65 | 2.9 |
| MW-2 | 04/05/2000 | 376d | 68.1d | 3.10d | 2.88d | 5.35d | 729d | NA | 34.89 | 3.43 | 31.46 | 3.6 |
| MW-2 | 10/30/2000 | 5,790 | 59.2 | 315 | 162 | 1320 | 346 | NA | 34.89 | 2.35 | 32.54 | 2.8 |
| MW-2 | 04/27/2001 | 2,720 | 90.8 | 22.8 | 18.1 | 165 | 512 | 578 | 34.89 | 4.67 | 30.22 | 0.9 |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | |
|------|------------|---------|-------|------|------|------|----|------|-------|------|-------|-----|
| MW-2 | 10/31/2001 | <10,000 | <100 | <100 | <100 | <100 | NA | <100 | 34.89 | 3.68 | 31.21 | 1.3 |
| MW-2 | 05/09/2002 | 490 | 1.5 | 7.8 | 2.1 | 14 | NA | 200 | 34.89 | 3.18 | 31.71 | 1.1 |
| MW-2 | 07/25/2002 | 1,200 | 1.0 | 3.3 | 1.3 | 8.3 | NA | 45 | 34.89 | 3.30 | 31.59 | 0.4 |
| MW-2 | 10/23/2002 | 1,100 | 0.85 | 3.8 | 1.3 | 7.9 | NA | 140 | 37.87 | 3.87 | 34.00 | 0.8 |
| MW-2 | 01/22/2003 | 730 | <0.50 | 100 | 0.96 | 5.4 | NA | 230 | 37.87 | 2.68 | 35.19 | 1.5 |
| MW-2 | 04/30/2003 | <500 | <5.0 | 23 | <5.0 | <10 | NA | 410 | 37.87 | 3.42 | 34.45 | 0.1 |
| MW-2 | 07/14/2003 | <800 | 1.2 | 59 | 1.4 | 9.8 | NA | 60 | 37.87 | 3.50 | 34.37 | 1.1 |

| | | | | | | | | | | | | |
|----------|------------|--------|-----|------|------|-----|----|----|-------|------|-------|-----|
| MW-3 | 07/12/1989 | 3,900 | 380 | 41 | 99 | 30 | NA | NA | 35.00 | 3.83 | 31.17 | NA |
| MW-3 | 01/30/1990 | 5,500 | 440 | 35 | 79 | 130 | NA | NA | 35.00 | 3.24 | 31.76 | NA |
| MW-3 | 04/27/1990 | 4,500 | 310 | 26 | 37 | 110 | NA | NA | 35.00 | 4.02 | 30.98 | NA |
| MW-3 | 07/31/1990 | 3,500 | 210 | 17 | 8.4 | 62 | NA | NA | 35.00 | 4.31 | 30.69 | NA |
| MW-3 | 10/30/1990 | 2,300 | 610 | <0.5 | <0.5 | 28 | NA | NA | 35.00 | 4.52 | 30.48 | NA |
| MW-3 | 01/31/1991 | 4,100 | 300 | 20 | 19 | 81 | NA | NA | 35.00 | 4.33 | 30.67 | NA |
| MW-3 | 04/30/1991 | 3,800 | 370 | 19 | 8.6 | 60 | NA | NA | 35.00 | 3.79 | 31.21 | NA |
| MW-3 | 07/30/1991 | 3,300 | 160 | 13 | 15 | 87 | NA | NA | 35.00 | 4.37 | 30.63 | NA |
| MW-3 | 10/29/1991 | 1,000 | 35 | 2.8 | 2.9 | 8.1 | NA | NA | 35.00 | 4.00 | 31.00 | NA |
| MW-3 | 01/20/1992 | 6,900 | 380 | 18 | 47 | 48 | NA | NA | 35.00 | 3.87 | 31.13 | NA |
| MW-3 | 04/14/1992 | 6,000 | 480 | 38 | 41 | 55 | NA | NA | 35.00 | 3.15 | 31.85 | NA |
| MW-3 | 07/21/1992 | 3,700 | 330 | 13 | 30 | 23 | NA | NA | 35.00 | 4.17 | 30.83 | NA |
| MW-3 | 10/02/1992 | 4,200 | 260 | 10 | 13 | 12 | NA | NA | 35.00 | 4.43 | 30.57 | NA |
| MW-3 | 01/20/1993 | 4,200 | 360 | 15 | 32 | 26 | NA | NA | 35.00 | 2.20 | 32.80 | NA |
| MW-3 (D) | 01/20/1993 | 3,900 | 370 | 15 | 32 | 26 | NA | NA | 35.00 | NA | NA | NA |
| MW-3 | 05/03/1993 | 12,000 | 290 | 520 | 120 | 620 | NA | NA | 35.00 | 3.50 | 31.50 | 0.6 |
| MW-3 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 35.00 | 4.08 | 30.92 | NA |
| MW-3 | 07/21/1993 | 2,000 | 170 | 12 | <10 | 11 | NA | NA | 35.00 | 4.12 | 30.88 | 4.3 |
| MW-3 (D) | 07/21/1993 | 2,000 | 170 | 10 | <10 | 14 | NA | NA | 35.00 | NA | NA | NA |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
| MW-3 | 10/19/1993 | 2,000 | 240 | <0.5 | <0.5 | <0.5 | NA | NA | 35.00 | 4.20 | 30.80 | 5.7 |
| MW-3 | 01/20/1994 | 4,200 | 280 | <10 | <10 | <10 | NA | NA | 35.00 | 4.08 | 30.92 | 4.1 |
| MW-3 (D) | 01/20/1994 | 3,800 | 250 | <10 | <10 | <10 | NA | NA | 35.00 | NA | NA | 4.1 |
| MW-3 | 04/12/1994 | 4,700 | 380 | <10 | <10 | <10 | NA | NA | 35.00 | 3.70 | 31.30 | 10.6 |
| MW-3 (D) | 04/12/1994 | 3,400 | 370 | <25 | <25 | <25 | NA | NA | 35.00 | NA | NA | NA |
| MW-3 | 07/20/1994 | 5,100 | 320 | 77 | 15 | 34 | NA | NA | 35.00 | 4.26 | 30.74 | 2.3 |
| MW-3 (D) | 07/20/1994 | 4,400 | 250 | 14 | 13 | 32 | NA | NA | 35.00 | NA | NA | NA |
| MW-3 | 10/06/1994 | 4,300 | 280 | 9.7 | 4 | 15 | NA | NA | 35.00 | 4.31 | 30.69 | 2.3 |
| MW-3 | 01/20/1995 | 4,600 | 180 | 18 | 16 | 10 | NA | NA | 35.00 | 3.00 | 32.00 | 11.1 |
| MW-3 (D) | 01/20/1995 | 4,300 | 170 | 12 | 15 | 7.2 | NA | NA | 35.00 | NA | NA | NA |
| MW-3 | 07/06/1995 | 3,900 | 310 | <0.5 | 7.6 | 13 | NA | NA | 35.00 | 3.75 | 31.25 | NA |
| MW-3 (D) | 07/06/1995 | 4,100 | 330 | <0.5 | 7.9 | 2.4 | NA | NA | 35.00 | NA | NA | NA |
| MW-3 | 01/24/1996 | 5,000 | 210 | 14 | 14 | 12 | NA | NA | 35.00 | 3.26 | 31.74 | NA |
| MW-3 | 07/12/1996 | 2,700 | 210 | <0.5 | <0.5 | <0.5 | 3,600 | NA | 35.00 | 3.77 | 31.23 | 2.4 |
| MW-3 (D) | 07/12/1996 | 2,800 | 210 | <0.5 | <0.5 | <0.5 | 3,400 | NA | 35.00 | NA | NA | 2.4 |
| MW-3 | 01/16/1997 | 4,200 | 130 | 19 | 10 | 34 | 4,400 | 4,600 | 35.00 | 2.38 | 32.62 | 2.3 |
| MW-3 | 10/24/1997 | 4,100 | 270 | 9 | 5.1 | 8.8 | 2,000 | NA | 35.00 | 4.12 | 30.88 | 1.9 |
| MW-3 (D) | 10/24/1997 | 1,700 | 220 | <5.0 | <5.0 | <5.0 | 1,500 | NA | 35.00 | NA | NA | 1.9 |
| MW-3 | 05/13/1998 | NA | NA | NA | NA | NA | NA | NA | 35.00 | 3.22 | 31.78 | NA |
| MW-3 | 10/01/1998 | 1,400 | 84c | <5.0c | <5.0c | <5.0c | 2,300 | NA | 35.00 | 4.15 | 30.85 | 2.0 |
| MW-3 (D) | 10/01/1998 | 2,100 | 100c | <10c | <10c | <10c | 2,600 | NA | 35.00 | NA | NA | 2.0 |
| MW-3 | 04/29/1999 | NA | NA | NA | NA | NA | NA | NA | 35.00 | 4.27 | 30.73 | NA |
| MW-3 | 11/01/1999 | 1,850 | 94.3 | 6.09 | <5.00 | 6.67 | 4,140 | NA | 35.00 | 4.65 | 30.35 | 2.2 |
| MW-3 | 04/05/2000 | 3,070 | 96.9 | 12.1 | <10.0 | <10.0 | 1,050 | NA | 35.00 | 3.50 | 31.50 | 2.7 |
| MW-3 | 10/30/2000 | 1,570 | 56.8 | 1.91 | 1.39 | 3.06 | 572 | 524 | 35.00 | 3.40 | 31.60 | 3.1 |
| MW-3 | 04/27/2001 | 2,420 | 103 | 12.6 | <5.00 | 15.6 | 314 | NA | 35.00 | 3.67 | 31.33 | 0.9 |
| MW-3 | 10/31/2001 | <50 | 0.71 | <0.50 | <0.50 | <0.50 | NA | 31 | 35.00 | 3.79 | 31.21 | 1.6 |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | |
|-------------|-------------------|--------------|-----------|------------|----------------|----------------|-----------|------------|--------------|-------------|--------------|------------|
| MW-3 | 05/09/2002 | 2,000 | 52 | <10 | <10 | <10 | NA | 4,100 | 35.00 | 3.76 | 31.24 | 0.9 |
| MW-3 | 07/25/2002 | 1,800 | 50 | <5.0 | <5.0 | <5.0 | NA | 1,900 | 35.00 | 4.17 | 30.83 | 3.7 |
| MW-3 | 10/23/2002 | 1,700 | 27 | <5.0 | <5.0 | <5.0 | NA | 1,400 | 37.97 | 4.36 | 33.61 | 1.6 |
| MW-3 | 01/22/2003 | 1,800 | 38 | 2.4 | 1.5 | 2.4 | NA | 390 | 37.97 | 3.09 | 34.88 | 1.3 |
| MW-3 | 04/30/2003 | 3,300 | 56 | 5.2 | <5.0 | <10 | NA | 540 | 37.97 | 3.39 | 34.58 | 1.5 |
| MW-3 | 07/14/2003 | 1,000 | 20 | 2.7 | <2.5 | <5.0 | NA | 360 | 37.97 | 4.05 | 33.92 | 1.5 |

| | | | | | | | | | | | | |
|------|------------|------|------|------|------|------|----|----|-------|------|-------|-----|
| MW-4 | 01/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.50 | 29.23 | NA |
| MW-4 | 04/27/1990 | 130a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.62 | 30.11 | NA |
| MW-4 | 07/31/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.19 | 29.54 | NA |
| MW-4 | 10/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.19 | 29.54 | NA |
| MW-4 | 01/31/1991 | 50a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.49 | 29.24 | NA |
| MW-4 | 04/30/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.02 | 29.71 | NA |
| MW-4 | 07/30/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.39 | 29.34 | NA |
| MW-4 | 10/29/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.75 | 29.98 | NA |
| MW-4 | 01/20/1992 | <30 | <0.3 | <0.3 | <0.3 | <0.3 | NA | NA | 33.73 | 3.94 | 29.79 | NA |
| MW-4 | 04/14/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.71 | 30.02 | NA |
| MW-4 | 07/21/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.02 | 29.71 | NA |
| MW-4 | 10/02/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.13 | 29.60 | NA |
| MW-4 | 01/20/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.10 | 30.63 | NA |
| MW-4 | 05/03/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.70 | 30.03 | 1.7 |
| MW-4 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 33.73 | 3.81 | 29.92 | NA |
| MW-4 | 07/21/1993 | <50 | 0.56 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.81 | 29.92 | 4.5 |
| MW-4 | 10/19/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.94 | 29.79 | 5.8 |
| MW-4 | 01/20/1994 | <50 | 0.71 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.00 | 29.73 | 4.4 |
| MW-4 | 04/12/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 4.01 | 29.72 | 7.3 |
| MW-4 | 07/20/1994 | 160 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.91 | 29.82 | 6.4 |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | | |
|------|------------|-------------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-----|
| MW-4 | 10/06/1994 | 410 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.99 | 29.74 | 5.0 | |
| MW-4 | 01/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.56 | 30.17 | 4.9 | |
| MW-4 | 07/06/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 33.73 | 3.85 | 29.88 | NA | |
| MW-4 | 01/24/1996 | <50 | <0.5 | <0.5 | 0.6 | 1.8 | NA | NA | 33.73 | 2.56 | 31.17 | NA | |
| MW-4 | 07/12/1996 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | b | NA | 33.73 | 3.36 | 30.37 | 2.7 | |
| MW-4 | 01/16/1997 | Well inaccessible | | NA | NA | NA | NA | NA | 33.73 | NA | NA | NA | |
| MW-4 | 10/24/1997 | Well inaccessible | | NA | NA | NA | NA | NA | 33.73 | NA | NA | NA | |
| MW-4 | 05/13/1998 | Well inaccessible | | NA | NA | NA | NA | NA | 33.73 | NA | NA | NA | |
| MW-4 | 10/01/1998 | <50 | <0.50c | <0.50c | <0.50c | 0.74c | 8.1 | NA | 33.73 | 3.90 | 29.83 | 2.5 | |
| MW-4 | 04/29/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.7 | NA | 33.73 | 3.97 | 29.76 | 2.1 | |
| MW-4 | 11/01/1999 | Well inaccessible | | NA | NA | NA | NA | NA | 33.73 | NA | NA | NA | |
| MW-4 | 04/05/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 3.64 | NA | 33.73 | 3.63 | 30.10 | 2.1 | |
| MW-4 | 10/30/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 33.73 | 3.33 | 30.40 | 3.0 | |
| MW-4 | 04/27/2001 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 33.73 | 3.48 | 30.25 | 2.2 | |
| MW-4 | 10/31/2001 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 33.73 | 3.58 | 30.15 | 2.8 | |
| MW-4 | 05/09/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 33.73 | 3.74 | 29.99 | 2.0 | |
| MW-4 | 07/25/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 33.73 | 3.71 | 30.02 | 1.3 | |
| MW-4 | 10/23/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <0.50 | 36.72 | 3.93 | 32.79 | 2.6 | |
| MW-4 | 01/22/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 36.72 | 3.67 | 33.05 | 3.1 | |
| MW-4 | 04/30/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | NA | <5.0 | 36.72 | 3.46 | 33.26 | 2.8 |
| MW-4 | 07/14/2003 | 56 a | <0.50 | <0.50 | <0.50 | <1.0 | NA | <0.50 | 36.72 | 3.75 | 32.97 | 2.4 | |

| | | | | | | | | | | | | |
|------|------------|------|------|------|------|------|----|----|-------|------|-------|----|
| MW-5 | 01/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 7.12 | 24.26 | NA |
| MW-5 | 04/27/1990 | 210a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.19 | 27.19 | NA |
| MW-5 | 07/31/1990 | 90 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.09 | 27.29 | NA |
| MW-5 | 10/30/1990 | 100 | 0.8 | 0.7 | 0.6 | 1.4 | NA | NA | 31.38 | 4.39 | 26.99 | NA |
| MW-5 | 01/31/1991 | 80a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.49 | 26.89 | NA |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
| MW-5 | 04/30/1991 | 90 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.27 | 27.11 | NA |
| MW-5 | 07/30/1991 | 90 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.32 | 27.06 | NA |
| MW-5 | 10/29/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 3.79 | 27.59 | NA |
| MW-5 | 01/20/1992 | <30 | <0.3 | <0.3 | <0.3 | <0.3 | NA | NA | 31.38 | 4.09 | 27.29 | NA |
| MW-5 | 04/14/1992 | <50a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.12 | 27.26 | NA |
| MW-5 | 07/21/1992 | 74a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.13 | 27.25 | NA |
| MW-5 | 10/02/1992 | 76a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.30 | 27.08 | NA |
| MW-5 | 01/20/1993 | 72a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 3.12 | 28.26 | NA |
| MW-5 | 05/03/1993 | 70a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.07 | 27.31 | 1.6 |
| MW-5 (D) | 05/04/1993 | 80a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | NA | NA | NA |
| MW-5 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 31.38 | 4.08 | 27.30 | NA |
| MW-5 | 07/21/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.05 | 27.33 | 3.5 |
| MW-5 | 10/19/1993 | 51 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.20 | 27.18 | 3.8 |
| MW-5 | 01/20/1994 | 90 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.40 | 26.98 | 4.2 |
| MW-5 | 04/12/1994 | 67 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.18 | 27.20 | NA |
| MW-5 | 07/20/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.06 | 27.32 | 3.2 |
| MW-5 | 10/06/1994 | 80 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.01 | 27.37 | 2.1 |
| MW-5 (D) | 10/06/1994 | 60 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | NA | NA | NA |
| MW-5 | 01/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 3.49 | 27.89 | 3.2 |
| MW-5 | 07/06/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 31.38 | 4.06 | 27.32 | NA |
| MW-5 | 01/24/1996 | 70 | <0.5 | <0.5 | 0.8 | 2.9 | NA | NA | 31.38 | 2.90 | 28.48 | NA |
| MW-5 | 07/12/1996 | 62 | <0.5 | <0.5 | <0.5 | <0.5 | b | NA | 31.38 | 4.02 | 27.36 | 1.9 |
| MW-5 | 01/16/1997 | 66 | 0.91 | 0.89 | <0.50 | 1.7 | <2.5 | NA | 31.38 | 2.59 | 28.79 | 2.2 |
| MW-5 (D) | 01/16/1997 | <50 | 0.7 | 0.78 | <0.50 | 1.3 | <2.5 | NA | 31.38 | NA | NA | 2.2 |
| MW-5 | 10/24/1997 | 59 | <0.50 | <0.50 | <0.50 | <0.50 | 17 | NA | 31.38 | 4.15 | 27.23 | 4.6 |
| MW-5 | 05/13/1998 | 72 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 31.38 | 3.64 | 27.74 | 2.1 |
| MW-5 (D) | 05/13/1998 | 70 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 31.38 | NA | NA | 2.1 |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

| | | | | | | | | | | | | |
|------|------------|-------|--------|--------|--------|--------|------|-------|-------|------|-------|-----|
| MW-5 | 10/01/1998 | 57 | <0.50c | <0.50c | <0.50c | 0.62c | 20 | NA | 31.38 | 4.25 | 27.13 | 2.2 |
| MW-5 | 04/29/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 16 | NA | 31.38 | 4.56 | 26.82 | 2.0 |
| MW-5 | 11/01/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 3.06 | NA | 31.38 | 4.19 | 27.19 | 2.2 |
| MW-5 | 04/05/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 22.5 | NA | 31.38 | 4.34 | 27.04 | 2.2 |
| MW-5 | 10/30/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 19.3 | NA | 31.38 | 3.25 | 28.13 | 4.0 |
| MW-5 | 04/27/2001 | 51.5 | <0.500 | <0.500 | <0.500 | <0.500 | 4.29 | NA | 31.38 | 4.07 | 27.31 | 1.0 |
| MW-5 | 10/31/2001 | 210 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 31.38 | 4.02 | 27.36 | 1.5 |
| MW-5 | 05/09/2002 | 280 | 0.71 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 31.38 | 4.31 | 27.07 | 1.7 |
| MW-5 | 07/25/2002 | 410 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 31.38 | 4.32 | 27.06 | 0.7 |
| MW-5 | 10/23/2002 | 290 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <0.50 | 34.36 | 4.37 | 29.99 | 2.3 |
| MW-5 | 01/22/2003 | 260 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 34.36 | 4.12 | 30.24 | 2.4 |
| MW-5 | 04/30/2003 | 90 e | <0.50 | <0.50 | <0.50 | <1.0 | NA | <5.0 | 34.36 | 3.88 | 30.48 | 1.5 |
| MW-5 | 07/14/2003 | 72 a | <0.50 | <0.50 | <0.50 | <1.0 | NA | <0.50 | 34.36 | 4.57 | 29.79 | 1.0 |

| | | | | | | | | | | | | |
|-----|------------|------|------|------|------|------|----|----|-------|----|--------|----|
| E-4 | 07/12/1989 | <50 | <0.5 | <1 | <1 | <3 | NA | NA | 34.63 | NA | >39.13 | NA |
| E-4 | 01/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 04/27/1990 | 120a | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 07/31/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 10/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 01/31/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 04/30/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 07/30/1991 | <50 | <0.5 | 0.6 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 10/29/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 01/20/1992 | <30 | <0.3 | <0.3 | <0.3 | <0.3 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 04/14/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 07/21/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 10/02/1992 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
| E-4 | 01/20/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 05/03/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 0.6 |
| E-4 | 06/28/1993 | NA | NA | NA | NA | NA | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 07/21/1993 | <50 | 5.4 | 0.72 | 1 | 4.4 | NA | NA | 34.63 | NA | >34.63 | 5.4 |
| E-4 | 10/19/1993 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 5.6 |
| E-4 | 01/20/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | NA |
| E-4 | 04/12/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 9.4 |
| E-4 | 07/20/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 2.0 |
| E-4 | 10/06/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 1.3 |
| E-4 | 01/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 34.63 | NA | >34.63 | 3.7 |
| E-4 | 05/16/1995 | Well abandoned | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to October 31, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to October 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft) | GW Elevation (MSL) | DO Reading (ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|---------------------------|--------------------------|------------------------|

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon/ hydrocarbon reported does not match pattern of laboratory's standard.

b = Due to coelution with early eluters, no result could be determined for MTBE

c = Laboratory reported 1.3 ug/L benzene, 11 ug/L toluene, 0.98 ug/L ethyl benzene, and 6.5 ug/L total xylenes in the equipment blank.

d = Result reported was generated out of hold time.

e = Hydrocarbon reported in the gasoline range does not match STL's gasoline standard.

Well E-4 is a flowing artesian well; potentiometric surface above top-of-casing elevation.

Site surveyed March 5, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

TABLE 2. Analytic Results for Soil - Shell Service Station, WIC # 204-6001-0109, 29 Wildwood Avenue, Piedmont, California

| Boring ID | Sample Depth (ft) | Date Sampled | Analytic Method | Sat/Unsat | TPPH | B | E | T ppm | X | Total Lead | Organic Lead |
|-------------------------|--|--|--|--|-----------------------------------|---|--|--|---|------------|--------------|
| BH-A(MW-1) composite | 3.6 --- | 7/5/89 7/5/89 | 8015/8020 8015/8020 6010/LUFT | Sat Sat --- | <5 <5 --- | <0.05 <0.05 --- | <0.1 <0.1 --- | <0.1 <0.1 --- | <0.3 <0.3 --- | --- | --- |
| BH-B(MW-2) composite | 1.0 3.5 7.4 10.5 14.0 --- | 7/5/89 7/5/89 7/5/89 7/5/89 7/5/89 7/5/89 | 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 6010/LUFT | Unsat Unsat Set Set Set --- | 11 710 5 <5 <5 --- | 0.19 3 <0.05 <0.05 <0.05 --- | 0.1 17 <0.1 <0.1 <0.1 --- | <0.1 5 <0.1 <0.1 <0.1 --- | <0.3 71 <0.3 <0.3 <0.3 --- | --- | --- |
| BH-C(MW-3) composite | 3.5 5.5 9.0 --- | 7/5/89 7/5/89 7/5/89 7/5/89 | 8015/8020 8015/8020 8015/8020 6010/LUFT | Unsat Set Set --- | 72 270 <5 --- | 1.3 1.2 <0.05 --- | 0.2 8.3 <0.1 --- | 0.3 3.1 <0.1 --- | 0.7 42. <0.3 --- | --- | --- |
| BH-D composite | 2.5 6.0 9.5 15.0 --- | 7/5/89 7/5/89 7/5/89 7/5/89 7/5/89 | 8015/8020 8015/8020 8015/8020 8015/8020 6010/LUFT | Unsat Sat Set Set --- | <5 <5 <5 <5 --- | <0.05 <0.05 <0.05 <0.05 --- | <0.1 <0.1 <0.1 <0.1 --- | <0.1 <0.1 <0.1 <0.1 --- | <0.3 <0.3 <0.3 <0.3 --- | --- | --- |
| BH-E composite | 2.0 5.8 --- | 7/5/89 7/5/89 7/5/89 | 8015/8020 8015/8020 6010/LUFT | Unsat Set --- | <5 <5 --- | <0.05 <0.05 --- | <0.1 <0.1 --- | <0.1 <0.1 --- | <0.3 <0.3 --- | --- | --- |
| BH-H composite | 3.5 7.0 --- | 7/5/89 7/5/89 7/5/89 | 8015/8020 8015/8020 6010/LUFT | Sat Sat --- | 8. <5 --- | 0.07 <0.05 --- | <0.1 <0.1 --- | <0.1 <0.1 --- | <0.3 <0.3 --- | --- | --- |
| | | | | | | | | | | 32 | <1 |

--Table 2 continues on next page--

TABLE 2. Analytic Results for Soil - Shell Service Station, WIC # 204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

| Boring ID | Sample Depth (ft) | Date Sampled | Analytic Method | Sat/Unsat | TPPH <----- | B | E | T ppm-----> | X | Total Lead | Organic Lead |
|-----------|-------------------|--------------|-----------------|-----------|----------------|-------|------|----------------|------|------------|--------------|
| BH-I | 4.0 | 7/5/89 | 8015/8020 | Sat | 540 | <1 | <4 | <2 | <10 | --- | --- |
| | 7.5 | 7/5/89 | 8015/8020 | Sat | 29 | <0.2 | <0.2 | <0.1 | <0.3 | --- | --- |
| | 10.0 | 7/5/89 | 8015/8020 | Sat | <5 | <0.05 | <0.1 | <0.1 | <0.3 | --- | --- |
| composite | --- | 7/5/89 | 6010/LUFT | --- | --- | --- | --- | --- | --- | 24 | <1 |

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons

B = Benzene

E = Ethylbenzene

T = Toluene

X = Xylenes

--- = Not analyzed or not applicable

Sat = Saturated soil sample

Unsat = Unsaturated soil sample

Analytic Laboratory:

All samples were analyzed by International Technology Analytical Services, San Jose, California

Analytic Methods:

8015 = Modified EPA Method 8015, gas chromatography/flame ionization for TPPH

8020 = EPA Method 8020, gas chromatography/photoionization for BETX

6010 = EPA method 6010 induction coupled Plasma, for total Lead

LUFT = California Regional Water Quality Control Board Leaking Underground Fuel Tank Manual Method, atomic absorption for organic lead

TABLE 1. Analytic Results for Soil - Shell Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

| Soil Boring (Well ID) | Sample Depth (ft) | Date Sampled | Analytic Method | Sat/ Unsat | TPH-G <----- | B parts per million (mg/kg) | E <----- | T -----> | X -----> |
|-----------------------------|-------------------------|-----------------|--------------------|---------------|-----------------|--------------------------------|-------------|-------------|-------------|
| BH-J (MW-4) | 2.4 | 1/23/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 5.2 | 1/23/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 18.2 | 1/23/90 | 8015/8020 | Sat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| BH-K (MW-5) | 3.2 | 1/23/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 5.2 | 1/23/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 18.0 | 1/23/90 | 8015/8020 | Sat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| BH-L | 3.2 | 1/24/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 6.4 | 1/24/90 | 8015/8020 | Unsat | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 15.2 | 1/24/90 | 8015/8020 | Sat (?) | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 25.2 | 1/24/90 | 8015/8020 | Sat (?) | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline

B = Benzene

E = Ethylbenzene

T = Toluene

X = Xylenes

Sat = Saturated soil sample

Unsat = Unsaturated soil sample

<n = not detected at detection limit of n parts per million

Analytical Laboratory:

National Environmental Testing, Inc. (NET), Santa Rosa, California

Analytic Methods:

8015 = Modified EPA Method 8015 for TPH-G

8020 = EPA Method 8020 for BETX

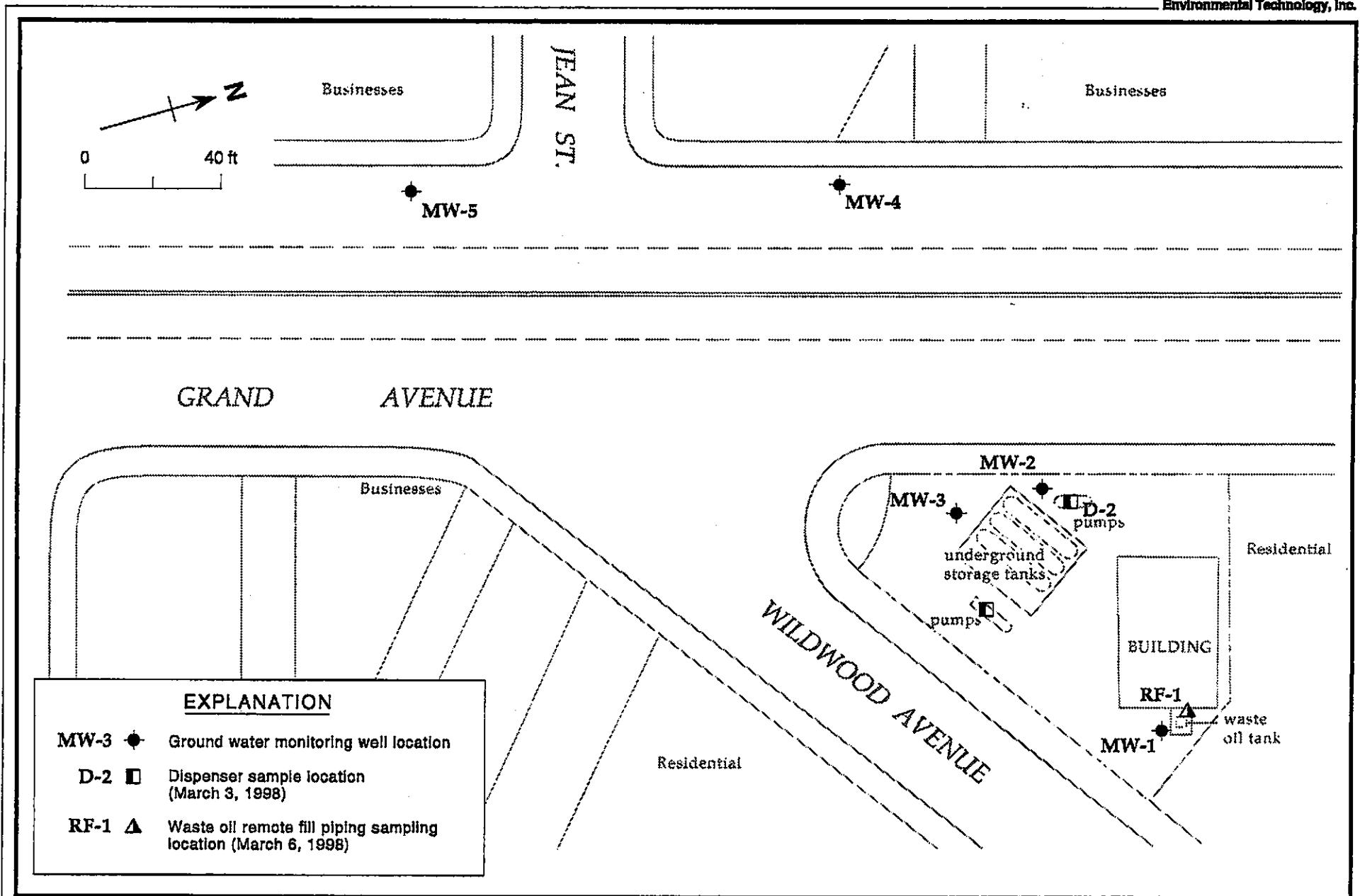


Figure 1. Dispenser and Waste Oil Sampling Locations - March 1998 - Shell Service Station, 29 Wildwood Avenue, Piedmont, California

CAMBRIA

Table 1. Dispenser Sample Analytical Data - Shell Service Station - WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

| Sample ID | Depth (feet) | TPHg | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes |
|--|-----------------|------|------|---------|---------|--------------|---------|
| (Concentrations reported in milligrams per kilogram) | | | | | | | |

March 3, 1998 Samples:

| | | | | | | | |
|-----|-----|-------|----|-----|----|------|-----|
| D-2 | 2.0 | 1,600 | 36 | 6.3 | 24 | 18.0 | 160 |
|-----|-----|-------|----|-----|----|------|-----|

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.

MTBE = Methyl tert-butyl ether by EPA Method 8020.

Benzene, ethylbenzene, toluene, xylenes by EPA Method 8020.

CAMBRIA

Table 2. Soil Analytical Data - Non-Gasoline Hydrocarbons - Shell Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

| Sample ID | Depth (feet) | Date Sampled | ← TRPH | TPHg | TPHd mg/kg | VOCs | SVOCS |
|-----------|-----------------|-----------------|--------|------|---------------|------|-------|
| RF-1 | 2.0 | 3/6/98 | <15 | <1.0 | 10 | ND | ND |

Notes and Abbreviations:

mg/kg = Milligrams per kilogram

TRPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1

TPHg = Total petroleum hydrocarbons as gas by modified EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

VOCs = Volatile Organic Compounds by EPA Method 8240

SVOCs = Semi-volatile organic compounds by EPA Method 8270

<n = Below detection limit of n mg/kg

ND = Not detected. See laboratory report for specific detection limits.

CAMBRIA

Table 3. Soil Analytical Data - Metals - Shell Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

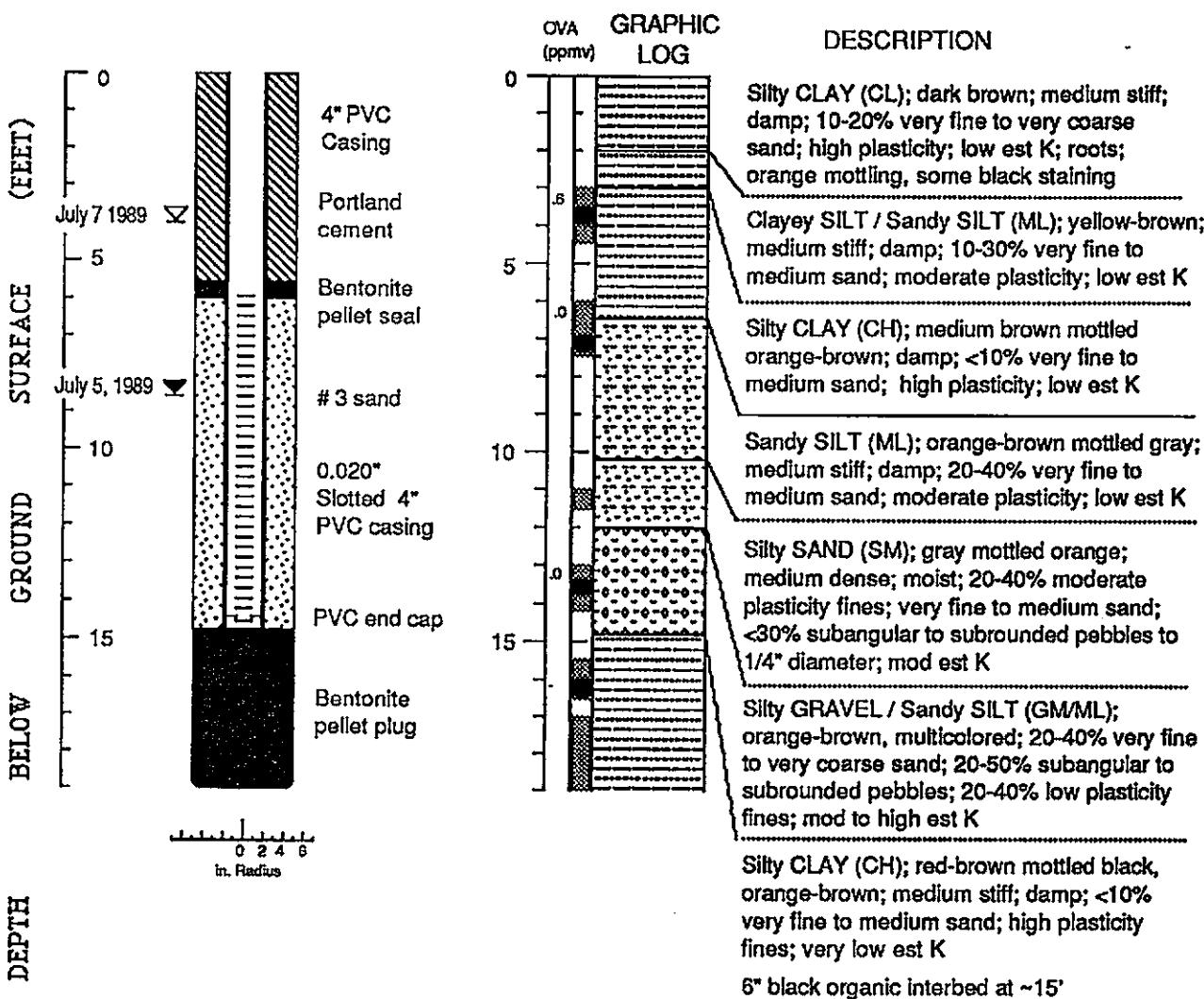
| Sample ID | Depth (feet) | Date Sampled | Cadmium | Chromium | Lead Concentrations in mg/kg | Nickel | Zinc |
|-----------|-----------------|-----------------|---------|----------|---------------------------------|--------|------|
| RF-1 | 2.0 | 3/6/98 | <0.50 | 33.0 | 11.0 | 37.0 | 38.0 |

Notes and Abbreviations:

mg/kg = Milligrams per kilogram

Cadmium, Chromium, Lead, Nickel, and Zinc by EPA Method 6010

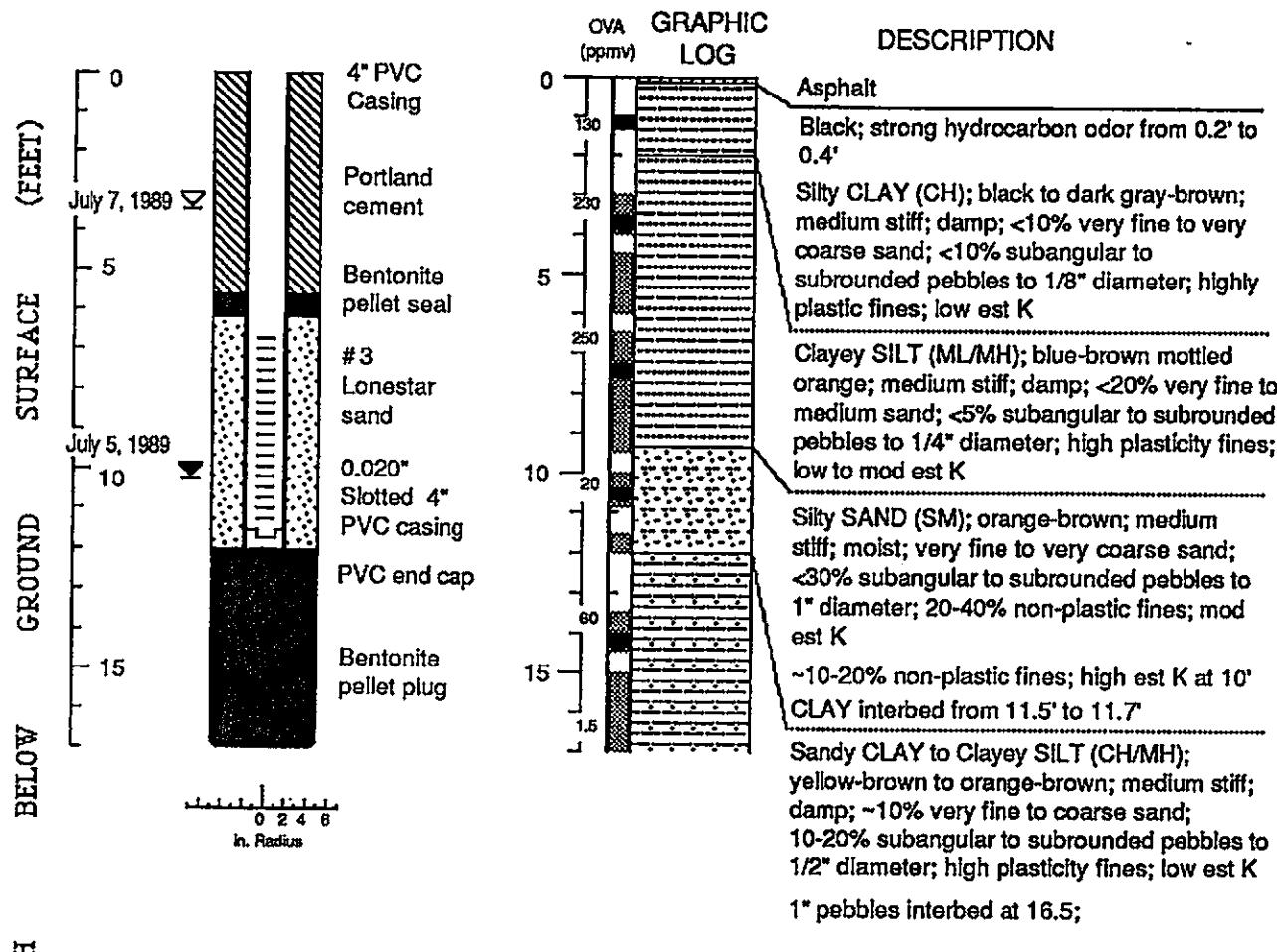
WELL MW-1 (BH-A)



EXPLANATION

- ▼ Water level during drilling (date)
- ☒ Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- ☒ Cutting sample
- K = Estimated hydraulic conductivity

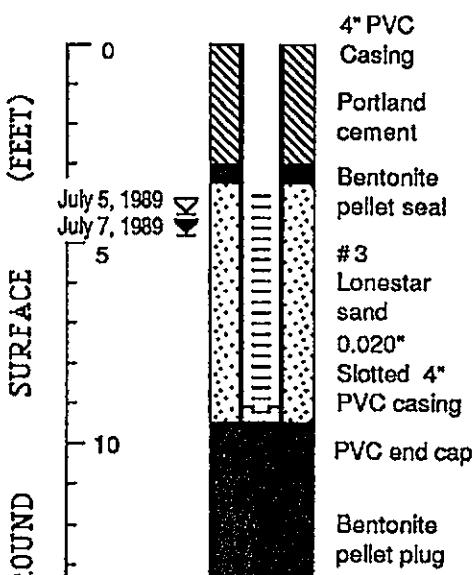
Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr / Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 5 to 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

WELL MW-2 (BH-B)**EXPLANATION**

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- ▨ Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- ▢ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 5, 1989
 Well Head Completion: Locking cap with traffic-raised vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

WELL MW-3 (BH-C)



GRAPHIC LOG

DESCRIPTION

Asphalt

Silty GRAVEL (GM); orange-brown; dense; damp; 20-40% very fine to very coarse sand; subangular to subrounded sand to 1 1/2" diameter; 20-40% low plasticity fines; modest K [fill]
Strong hydrocarbon odor at 2'

Sandy SILT (ML); black; medium dense; damp; 10-30% very fine to medium sand; low plasticity fines; >10% subangular to subrounded pebbles to 1/4" diameter; low to modest K; strong hydrocarbon odor

Oil saturated; black; moist; strong hydrocarbon odor at 5'

Very strong gasoline odor; sheen from 6.5' to 8.5'

Silty GRAVEL (GM) from 6.5' to 7.2'

Silty SAND to Silty GRAVEL (SM/GM); black; medium dense to loose, saturated; 30-60% very fine to very coarse sand; 10-60% subangular to subrounded pebbles to 1 1/2" diameter; 10-30% non-plastic fines; very high est K; strong hydrocarbon odor

Very fine to medium sand; very high est K from 8.5' to 9.3'

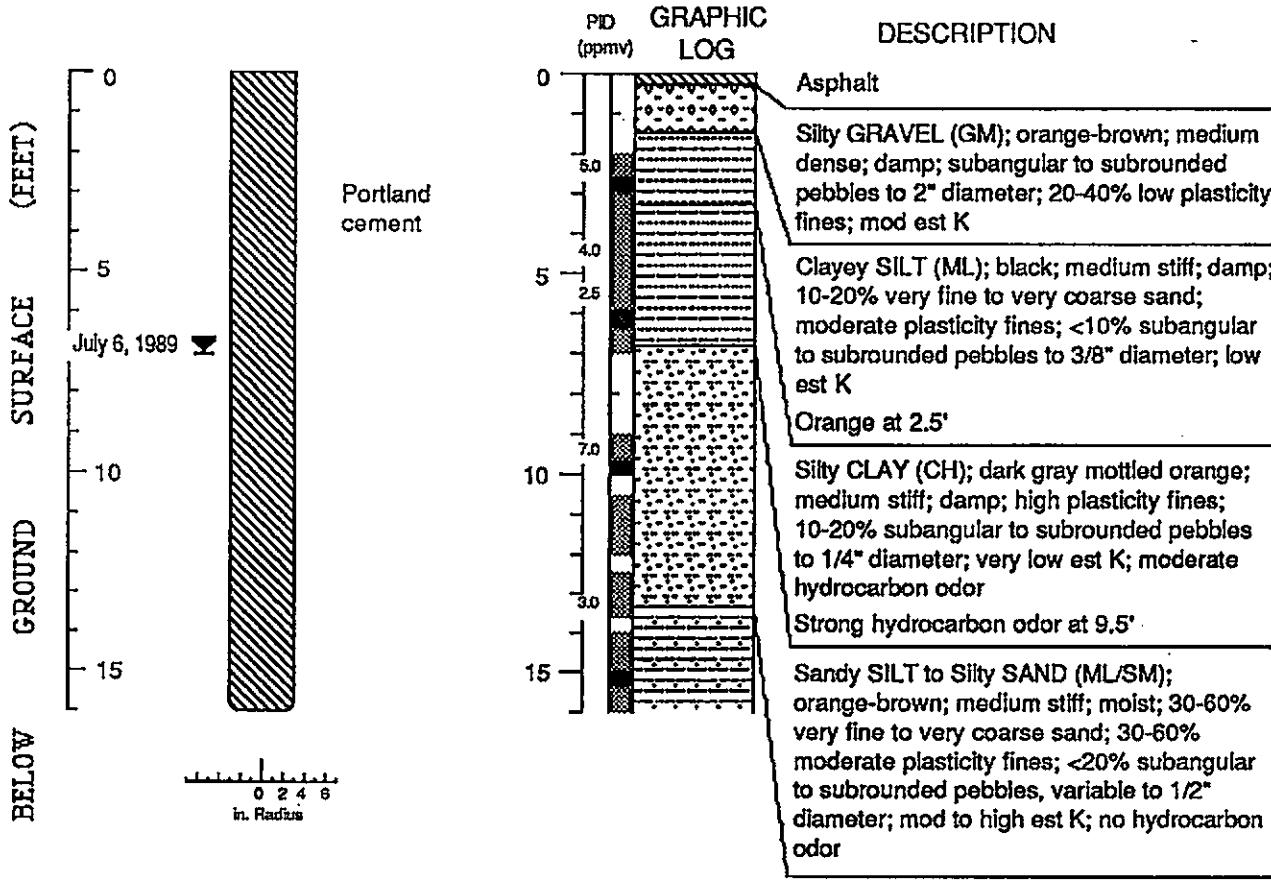
Sandy CLAY (CH); red-brown mottled orange; medium stiff; damp; <10% very fine to very coarse sand; high plasticity fines; <10% subangular to subrounded pebbles to 3/4" diameter; low est K; no hydrocarbon odor

EXPLANATION

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
Supervisor: Richard Weiss; EG 1112
Drilling Company: Bay Area Exploration, Suisun, CA
Driller: Carr/Mossman
Drilling Method: Hollow stem auger
Dates Drilled: July 5 to 6, 1989
Well Head Completion: Locking cap with traffic-rated vault
Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-D

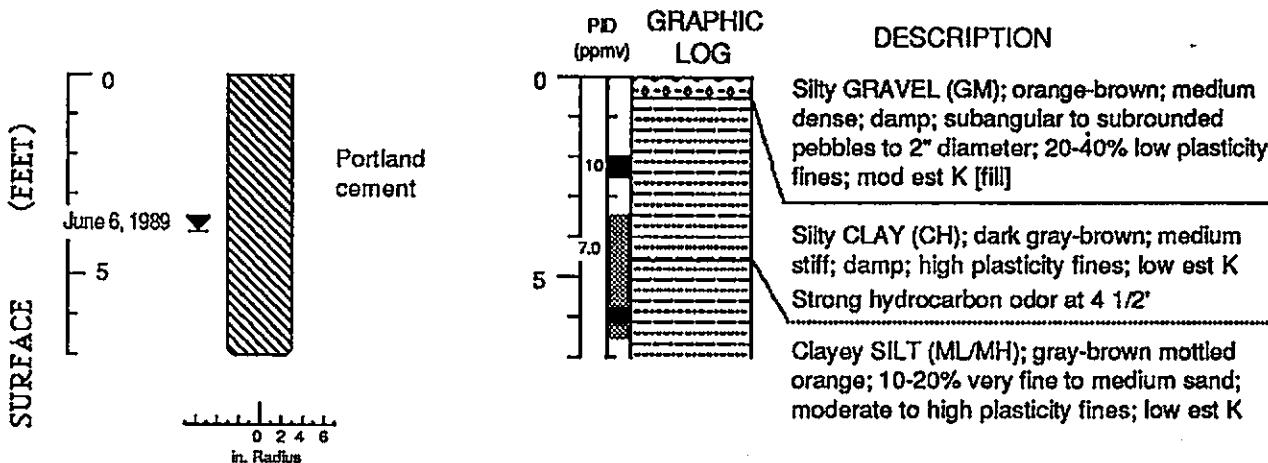


EXPLANATION

- ▼ Water level during drilling (date)
- W Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- ☒ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-E

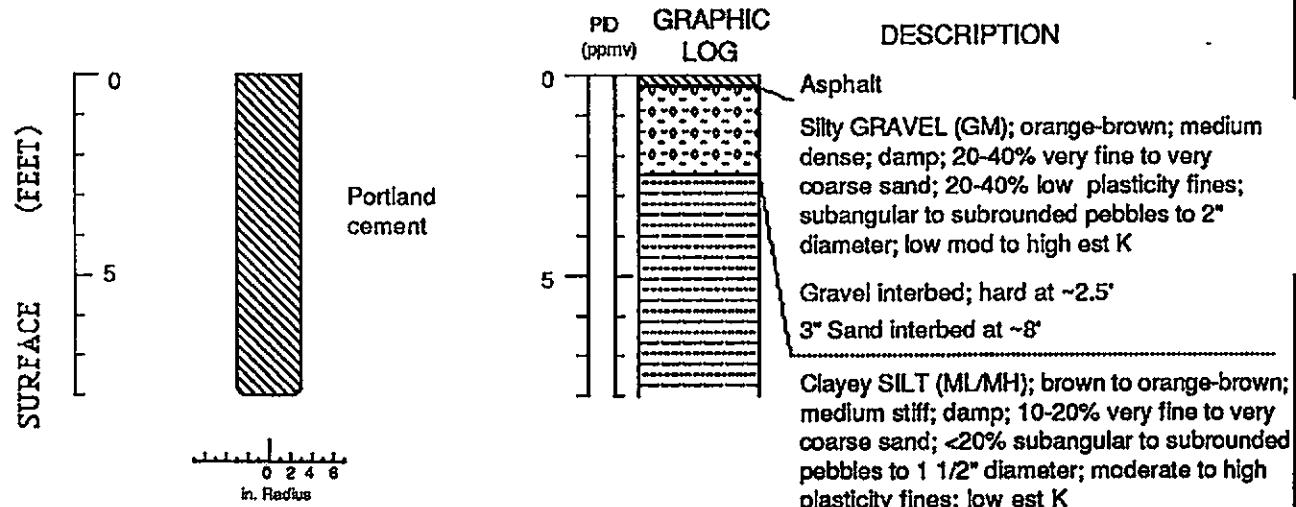


DEPTH BELOW GROUND

EXPLANATION

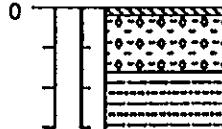
- Water level during drilling (date)
 - ☒ Water level (date)
 - Contact (dotted where approx.)
 - - Uncertain contact
 - ▨ Location of recovered drive sample
 - Location of drive sample sealed for chemical analysis
 - ▢ Cutting sample
 - K = Estimated hydraulic conductivity

Logged by: Jack Gardner
Supervisor: Richard Weiss; EG 1112
Drilling Company: Bay Area Exploration, Suisun, CA
Driller: Carr/Mossman
Drilling Method: Hollow stem auger
Dates Drilled: July 6, 1989
Well Head Completion: Locking cap with traffic-rated vault
Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-F**EXPLANATION**

- ▀ Water level during drilling (date)
- ▀ Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- ▨ Location of recovered drive sample
- ▨ Location of drive sample sealed for chemical analysis
- ▢ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-G0
(FEET)Portland
cementSURFACE GROUND
BELOW DEPTHOVA GRAPHIC
(ppmv) LOG

DESCRIPTION

Asphalt

Silty GRAVEL (GM); orange-brown; dense; damp; 20-40% low plasticity fines; 20-40% very fine to very coarse sand; subangular to subrounded pebbles to ~2" diameter; modest K; concrete fragments to 4" diameter [fill]

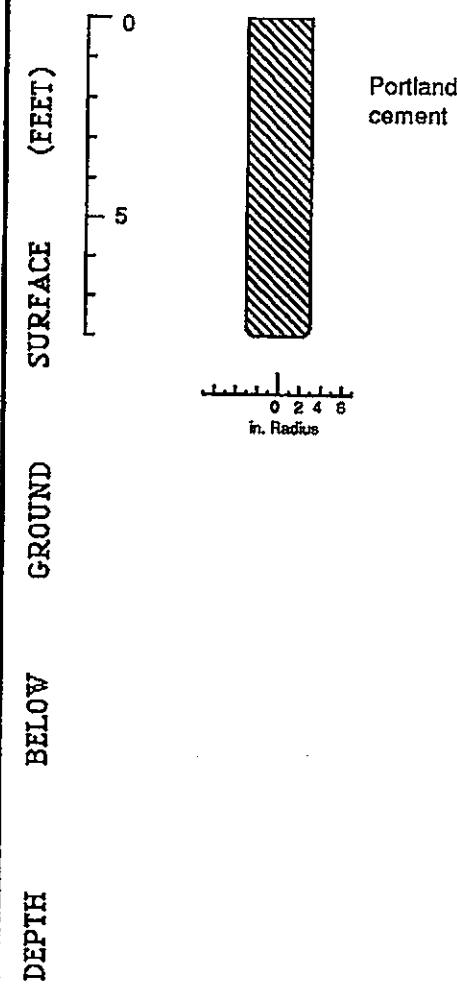
Clayey SILT (ML); multicolored; medium stiff; damp; 10-20% very fine to very coarse sand; moderate plasticity fines; low est K [fill]

EXPLANATION

- ▼ Water level during drilling (date)
- ☒ Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- ▨ Location of recovered drive sample
- ▢ Location of drive sample sealed for chemical analysis
- ☒ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-H

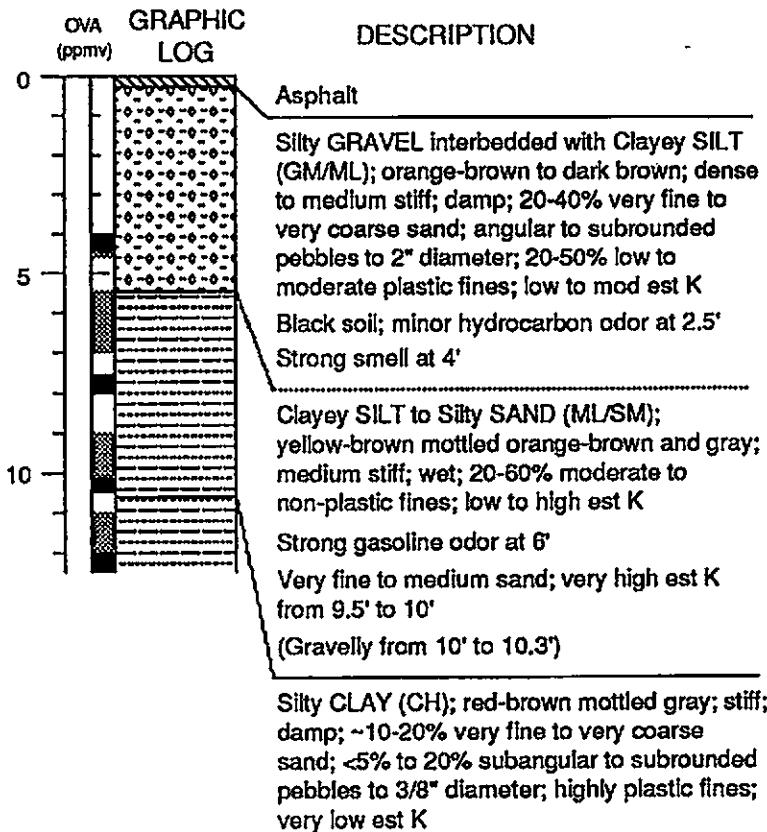


| PID (ppmv) | GRAPHIC LOG | DESCRIPTION |
|---------------|----------------|---|
| | 0 | Asphalt |
| | 5 | Silty GRAVEL(GM); orange-brown; medium dense; damp; 10-30% very fine to very coarse sand; subangular to subrounded pebbles to 2" diameter; 30-50% low to moderate plasticity fines; mod est K |
| | 5 | Silty CLAY (CH); black mottled gray; medium stiff; damp; high plasticity fines; low est K; strong hydrocarbon odor |
| | | Sandy SILT to Clayey SILT (ML); yellow-brown mottled orange; medium stiff; damp; 20-40% very fine to medium sand; low to moderate plasticity; low to mod est K |

EXPLANATION

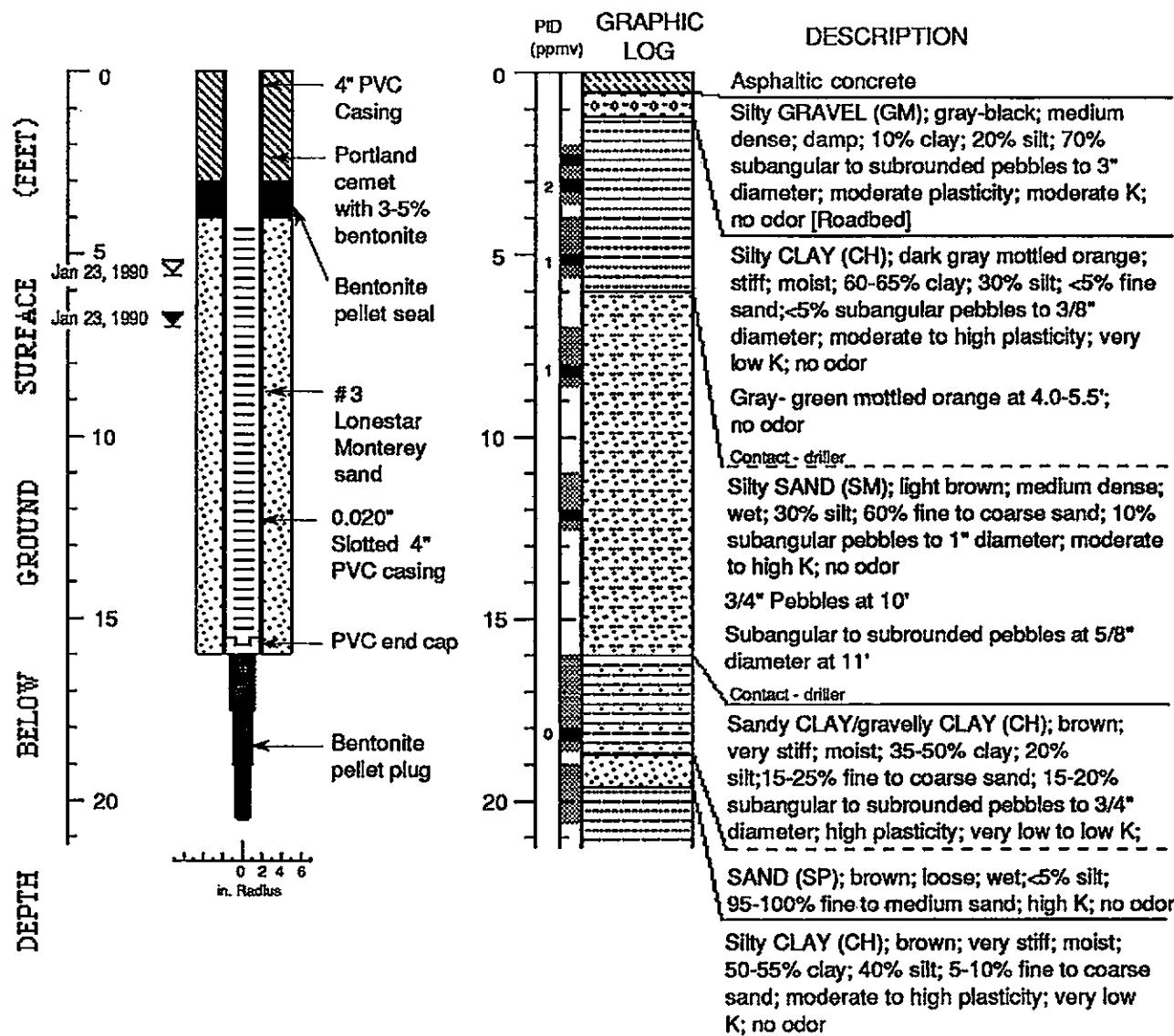
- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- [■] Location of recovered drive sample
- [■] Location of drive sample sealed for chemical analysis
- [X] Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

BORING BH-I**EXPLANATION**

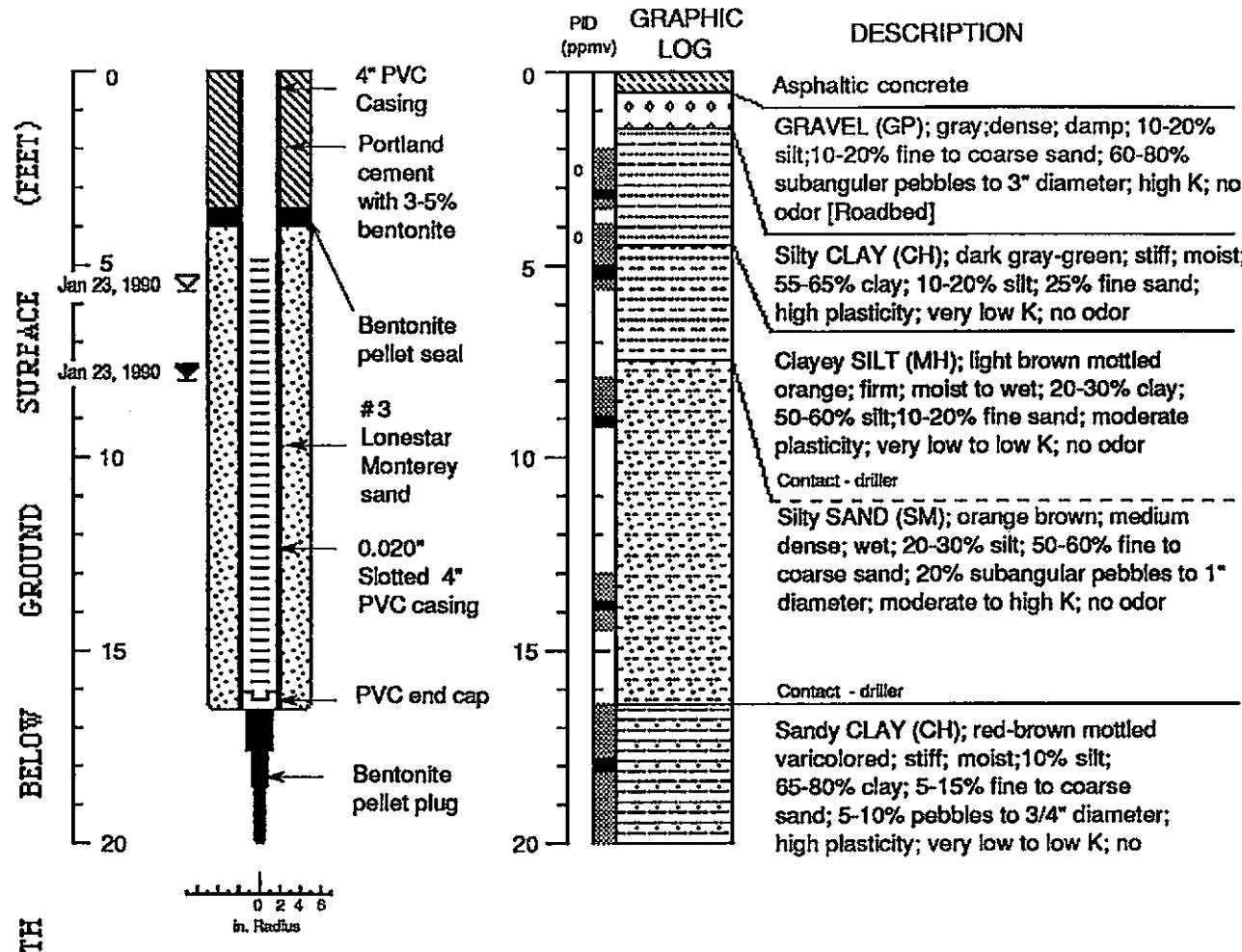
- ▀ Water level during drilling (date)
- ☒ Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- ▨ Location of recovered drive sample
- ▨ Location of drive sample sealed for chemical analysis
- ▢ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: Jack Gardner
Supervisor: Richard Weiss; EG 1112
Drilling Company: Bay Area Exploration, Suisun, CA
Driller: Carr/Mossman
Drilling Method: Hollow stem auger
Dates Drilled: July 6, 1989
Well Head Completion: Locking cap with traffic-rated vanit
Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

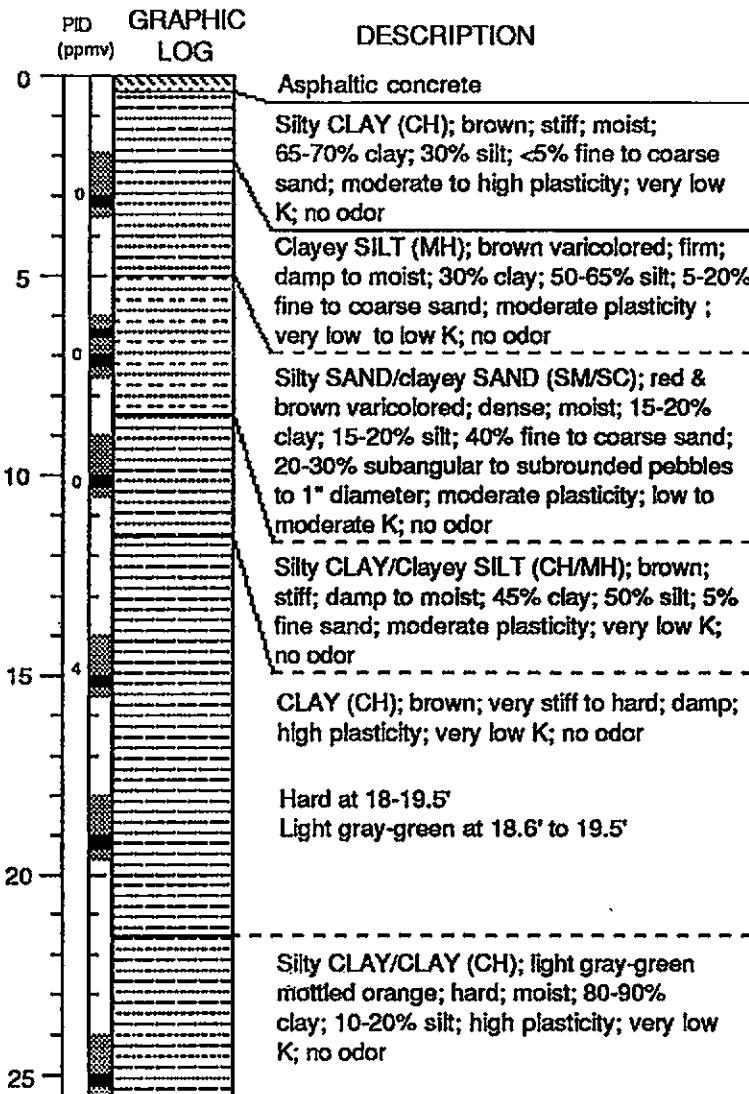
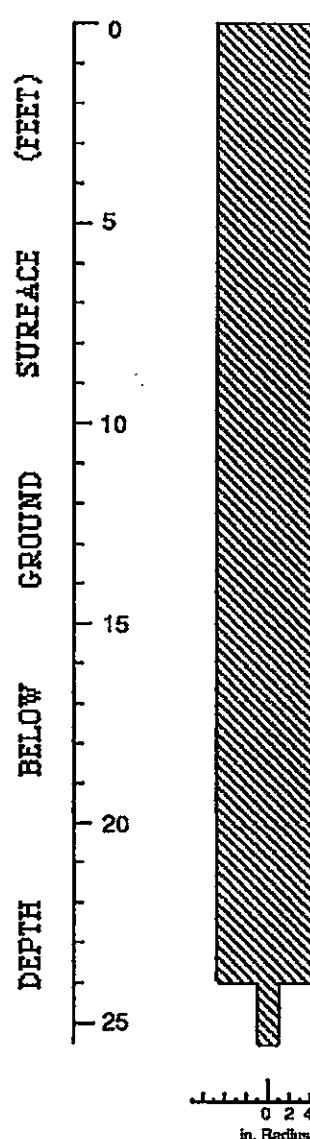
WELL MW-4 (BH-J)**EXPLANATION**

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- ❖ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: N. Scott MacLeod
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Soil Exploration Services, Vacaville, CA
 Driller: Russ Ellis
 Drilling Method: Hollow stem auger
 Date Drilled: January 23, 1990
 Well Head Completion: Locking wellcap, traffic-rated vault
 Type of Sampler: Split barrel (1.5", 2.0", 2.5" I.D.)
 Ground Surface Elevation: 34.03'

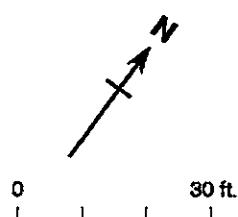
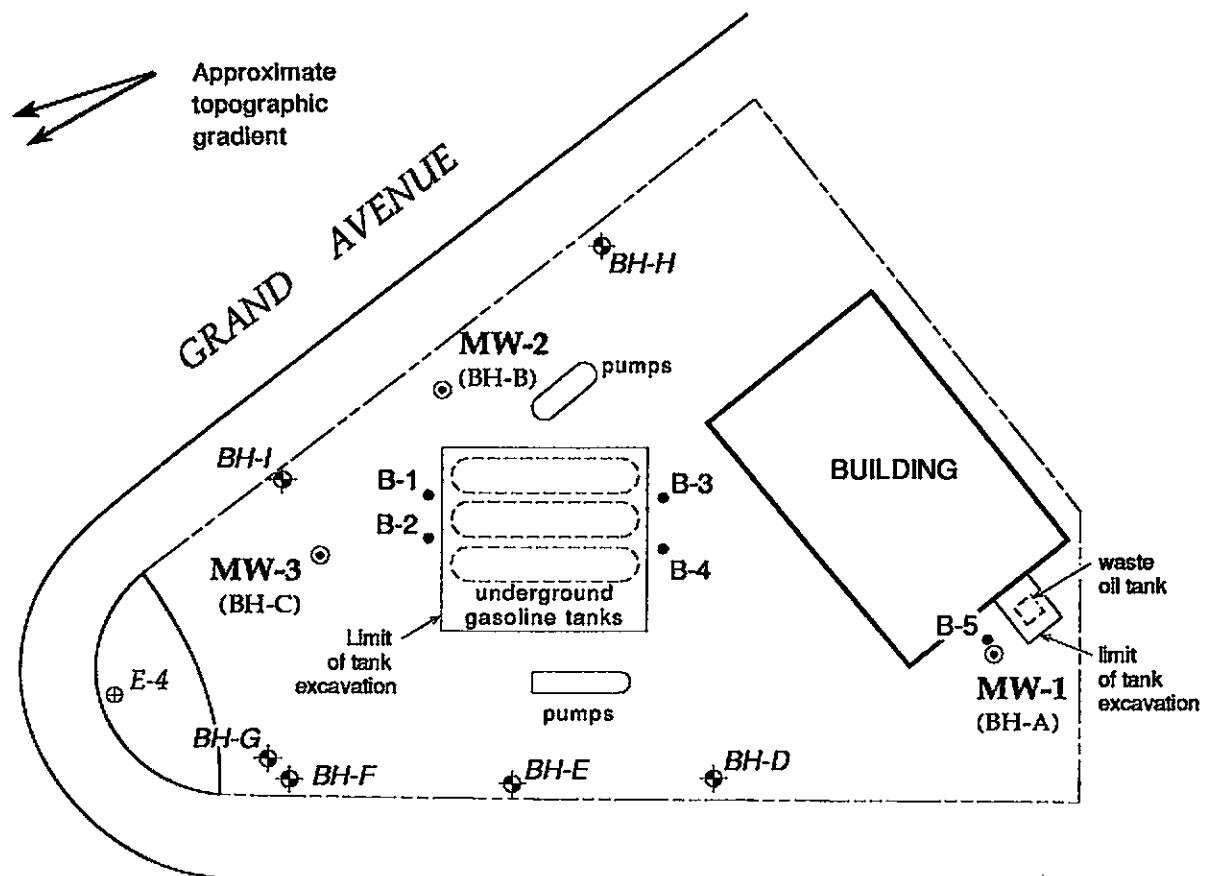
WELL MW-5 (BH-K)**EXPLANATION**

| | | |
|-------------------------------------|---|---|
| <input checked="" type="checkbox"/> | Water level during drilling (date) | Logged by: N. Scott MacLeod |
| <input checked="" type="checkbox"/> | Water level (date) | Supervisor: Richard Weiss; EG 1112 |
| <hr/> | Contact (dotted where approx.) | Drilling Company: Soils Exploration Services, Vacaville, CA |
| <hr/> | Uncertain contact | Driller: Russ Ellis |
| | Location of recovered drive sample | Drilling Method: Hollow stem auger |
| | Location of drive sample sealed for chemical analysis | Date Drilled: January 23, 1990 |
| | Cutting sample | Well Head Completion: Locking wellcap, traffic-rated vault |
| K = | Estimated hydraulic conductivity | Type of sampler: Split barrel (1.5", 2.0", 2.5" I.D.) |
| | | Ground Surface Elevation: 31.61' |

BORING BH-L**EXPLANATION**

- ▼ Water level during drilling (date)
- ☒ Water level (date)
- Contact (dotted where approx.)
- - - Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- ☒ Cutting sample
- K = Estimated hydraulic conductivity

Logged by: N. Scott MacLeod
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Soils Exploration Services, Vacaville, CA
 Driller: Russ Ellis
 Drilling Method: Hollow stem auger
 Date Drilled: January 24, 1990
 Type of sampler: Split barrel (2.0" I.D.)



| <u>EXPLANATION</u> | |
|--------------------|---|
| • MW-1 (BH-A) | Monitoring well; corresponding boring ID in parentheses |
| ◆ BH-D | WA soil boring |
| • B-4 | Soil boring drilled for previous investigation |
| ⊕ E-4 | Second-Zone monitoring well |

Figure 2. Site Map - Shell Service Station, 29 Wildwood Avenue, Piedmont, California

ANAMETRIX, INC.

LABORATORY SERVICES

ENVIRONMENTAL • ANALYTICAL CHEMISTRY

1961 CONCOURSE DR., SUITE E • SAN JOSE, CA 95131

TEL: (408) 432-8192 • FAX: (408) 432-8198

Dave Blunt
Enscos/Exceltech
41674 Christy Street
Fremont, CA 94539-3114

August 18, 1988
Work Order Number 8808085
Date Received 08/11/88
Project No. 1856

Dear Mr. Blunt:

Eight soil samples were received for analysis of BTEX plus total volatile hydrocarbons as gasoline by gas chromatography, using the following EPA method(s):

| ANAMETRIX I.D. | SAMPLE I.D. | METHOD(S) |
|----------------|------------------|-----------|
| 8808085-01 | 1856 B-3-1 | 8015 |
| -02 | " B-3-2 | 8015/8020 |
| -03 | " B-3-3 | 8015 |
| -04 | " B-4-1 | 8015/8020 |
| -05 | " B-4-2 | 8015 |
| -06 | " B-5-(1-2)COMP. | " |
| -07 | " B-1-1 | " |
| -08 | " B-2-1 | " |

RESULTS

See enclosed data sheets, Pages 2 thru 9.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,



Sarah Schoen, Ph.D.
GC Manager

SRS/dg

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-3-1
 Matrix : SOIL
 Date sampled : 08-10-88
 Date anl. TVH: 08-12-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-01
 Analyst : ml
 Supervisor : smj
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|-------------------------|----------------------|
| | TVH as Gasoline | 5000 | 13000 |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

| | |
|--------------------------|-----------------------------|
| Sample I.D. : 1856 B-3-2 | Anametrix I.D. : 8808085-02 |
| Matrix : SOIL | Analyst : ml |
| Date sampled : 08-10-88 | Supervisor : ms |
| Date anl. TVH: 08-12-88 | Date released : 08-18-88 |
| Date ext. TEH: NA | Date ext. TOG : NA |
| Date anl. TEH: NA | Date anl. TOG : NA |

| CAS # | Compound Name | Reporting | Amount |
|-----------|-----------------|------------------|------------------|
| | | Limit (ug/kg) | Found (ug/kg) |
| 71-43-2 | Benzene | 200 | 4500 |
| 108-88-3 | Toluene | 200 | 1600 |
| 100-41-4 | Ethylbenzene | 200 | 2500 |
| 1330-20-7 | Total Xylenes | 200 | 28000 |
| | TVH as Gasoline | 5000 | 6500000 |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-3-3
 Matrix : SOIL
 Date sampled : 08-10-88
 Date anl. TVH: 08-12-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-03
 Analyst : mch
 Supervisor : JWS
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|----------------------------|-------------------------|
| | TVH as Gasoline | 5000 | BRL |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-4-1
 Matrix : SOIL
 Date sampled : 08-10-88
 Date anl. TVH: 08-15-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-04
 Analyst : JK
 Supervisor : JKS
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-----------|-----------------|-------------------------|----------------------|
| 71-43-2 | Benzene | 200 | 3400 |
| 108-88-3 | Toluene | 200 | 1200 |
| 100-41-4 | Ethylbenzene | 200 | 11000 |
| 1330-20-7 | Total Xylenes | 200 | 17000 |
| | TVH as Gasoline | 5000 | 750000 |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-4-2
 Matrix : SOIL
 Date sampled : 08-10-88
 Date anl. TVH: 08-12-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-05
 Analyst : ml
 Supervisor : JW
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|----------------------------|-------------------------|
| | TVH as Gasoline | 5000 | BRL |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-5-(1-2)COMP.
 Matrix : SOIL
 Date sampled : 08-10-88
 Date anl. TVH: 08-15-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-06
 Analyst : mch
 Supervisor : gms
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|----------------------------|-------------------------|
| | TVH as Gasoline | 5000 | BRL |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-1-1
Matrix : SOIL
Date sampled : 08-09-88
Date anl. TVH: 08-12-88
Date ext. TEH: NA
Date anl. TEH: NA

Anametrix I.D. : 8808085-07
Analyst : *mL*
Supervisor : *MS*
Date released : 08-18-88
Date ext. TOG : NA
Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|-------------------------|----------------------|
| | TVH as Gasoline | 5000 | BRL |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1856 B-2-1
 Matrix : SOIL
 Date sampled : 08-09-88
 Date anl. TVH: 08-12-88
 Date ext. TEH: NA
 Date anl. TEH: NA

Anametrix I.D. : 8808085-08
 Analyst : ml
 Supervisor : gns
 Date released : 08-18-88
 Date ext. TOG : NA
 Date anl. TOG : NA

| CAS # | Compound Name | Reporting Limit (ug/kg) | Amount Found (ug/kg) |
|-------|-----------------|----------------------------|-------------------------|
| | TVH as Gasoline | 5000 | BRL |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

BRL - Below reporting limit.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.



ensco
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services, Inc.

EXPLORATORY BORING LOG

PROJECT NAME: SHELL STATION
29 WILDWOOD AVE.
PIEDMONT, CA

BORING NO. B-1
DATE DRILLED: 8/9/88

PROJECT NUMBER: 1856G

LOGGED BY: RAG

| DEPTH (ft.) | SAMPLE No | BLOWS/FOOT 140 ft./ips. | UNIFIED SOIL CLASSIFICATION | SOIL DESCRIPTION | WATER LEVEL | OVA READING ppm | |
|-------------|-----------|----------------------------|--------------------------------|---|-------------|--------------------|--|
| - | | | | Asphalt - 3", baserock - 9" | | | |
| 1 | | | CH | SILTY CLAY, dark gray (7.5YR 4/0), some fine grained sands, petroleum odor, high plasticity, medium stiff, moist | | | |
| 2 | | | CL | SANDY CLAY, yellowish brown (10YR 5/6), fine grained sand up to 20%, slight petroleum odor, medium stiff, moist | | | |
| 3 | | | CL | SANDY CLAY, light gray to olive yellow (2.5YR 7/0 to 2.5 YR 6/6), fine grained sand to 40%, possible petroleum odor, moist, stiff | | | |
| 4 | | | | | | | |
| 5 | B-1-1 | 11 | CL | | | 0 | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | CL - SC | SANDY CLAY to CLAYEY SAND, mottled light gray to strong brown (7.5YR 7/0 to 7.5YR 5/8), fine grained sands at 40 to 60%, no petroleum odor, very stiff to medium dense, very moist to wet | | | |
| 9 | | | | 8/9/88, Groundwater encountered - 9.5 ft. | ▽ | | |
| 10 | B-1-2 | 30 | | Increasing gravels, up to 0.5" across | | 0 | |
| 11 | | | | Bottom of boring = 10.5 feet | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |

SUPERVISED AND APPROVED BY R.G.C.E.G.



ensco
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services, Inc.

EXPLORATORY BORING LOG

PROJECT NAME: SHELL STATION
29 WILDWOOD AVE.
PIEDMONT, CA

BORING NO. B-2

DATE DRILLED: 8/9/88

PROJECT NUMBER: 1856G

LOGGED BY: RAG

| DEPTH (ft.) | SAMPLE No. | BLOWS/FOOT 140 ft./lbs. | UNIFIED SOIL CLASSIFICATION | SOIL DESCRIPTION | WATER LEVEL | OVA READING ppm | |
|-------------|------------|----------------------------|--------------------------------|---|---|--------------------|---|
| 1 | | | | Asphalt - 3", baserock - 9" | | | |
| 2 | | | CH | SILTY CLAY, dark gray (7.5YR 4/0), some fine grained sands, no petroleum odor, high plasticity medium stiff, moist | | | |
| 3 | | | SC | CLAYEY SAND, dark brown (10YR 3/3), fine to medium grained sands, some gravels up to 0.5" across, faint petroleum odor, loose, moist | | | |
| 4 | | | | | | | |
| 5 | B-2-1 | 7 | SW | SAND, dark gray (10YR 4/1), fine to medium grained, strong petroleum odor, loose, very moist, something very hard and resistant at 7 feet, large fragments of red chert 6" across in cuttings | 8/9/88, Groundwater encountered - 6 ft. | 175 | ▽ |
| 6 | | | | Refusal at 7 feet | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |

SUPERVISED AND APPROVED BY R.G/C.E.G.

LDP



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services, Inc.

EXPLORATORY BORING LOG

PROJECT NAME: SHELL STATION
29 WILDWOOD AVE.
PIEDMONT, CA

BORING NO. B-3

DATE DRILLED: 8/10/88

PROJECT NUMBER: 1856G

LOGGED BY: RAG

| DEPTH (ft.) | SAMPLE No | BLOWS/FOOT 140 ft./lbs. | UNIFIED SOIL CLASSIFICATION | SOIL DESCRIPTION | WATER LEVEL | OVA READING ppm |
|-------------|-----------|----------------------------|--------------------------------|---|-------------|--------------------|
| 1 | | | | Concrete - 6" | | |
| 2 | | | | Pea gravel backfill | | |
| 3 | | | | | | |
| 4 | | | SC | CLAYEY SAND, brown (10YR 5/3), fine grained sands up to 60%, petroleum odor, loose, moist to very moist | | |
| 5 | B-3-1 | 6 | CH | SILTY CLAY, black (2.5YR 2/0), some isolated gravels, petroleum odor, high plasticity, medium stiff, moist to very moist | | 90 |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | 8/10/88, Groundwater encountered - 8 ft. | ▽ | |
| 9 | | | | | | |
| 10 | B-3-2 | 20 | CL - SC | SANDY CLAY to CLAYEY SAND, dark gray to gray (2.5YR 4/0 to 2.5YR 6/0), fine grained sands, localized clayey and sandy areas, some gravels up to 2" across, strong petroleum odor, medium dense to very stiff, wet | | >200 |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | B-3-3 | 74 | CL | SILTY CLAY, reddish brown (5YR 4/3), some medium grained sands, possible petroleum odor, hard, damp to moist | | 10 |
| 16 | | | | Bottom of boring = 15.5 feet | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |

SUPERVISED AND APPROVED BY R.G/C.E.G. *R.G.C.E.G.*



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environmental
services, Inc.

EXPLORATORY BORING LOG

PROJECT NAME: SHELL STATION

BORING NO. B-4

29 WILDWOOD AVE.
PIEDMONT, CA

DATE DRILLED: 8/10/88

PROJECT NUMBER: 1856G

LOGGED BY: RAG

| DEPTH (ft.) | SAMPLE No | BLOWS/FOOT 140 ft/lbs. | UNIFIED SOIL CLASSIFICATION | SOIL DESCRIPTION | WATER LEVEL | OVA READING ppm |
|-------------|-----------|---------------------------|--------------------------------|--|-------------|--------------------|
| - | - | - | - | Concrete - 6" | - | - |
| 1 | - | - | - | Pea gravel backfill | - | - |
| 2 | - | - | - | - | - | - |
| 3 | - | - | - | No sample recovery | - | - |
| 4 | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - |
| 6 | - | - | SP | SAND, dark gray to very dark gray (7.5YR 4/0 to 7.5YR 3/0), fine grained sand, up to 10% clay, strong petroleum odor, loose, very moist to wet, petroleum sheen on sand 8/10/88, Groundwater encountered - 8 ft. | ▽ | - |
| 7 | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - |
| B-4-1 | 13 | - | - | - | - | 250 |
| 11 | - | - | SC | CLAYEY SAND, greenish gray (5G 5/1), fine grained sands up to 60%, some rounded gravels up to 2" across, slight petroleum odor, loose, moist | - | - |
| 12 | - | - | CL | SILTY CLAY, reddish brown (5YR 4/3), some medium grained sands, slight petroleum odor, hard, damp | - | - |
| 13 | - | - | - | - | - | - |
| 14 | - | - | - | - | - | - |
| 15 | B-4-2 | 68 | - | Bottom of boring = 15 feet | - | 20 |
| 16 | - | - | - | - | - | - |
| 17 | - | - | - | - | - | - |
| 18 | - | - | - | - | - | - |
| 19 | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - |
| 21 | - | - | - | - | - | - |

SUPERVISED AND APPROVED BY R.G./C.E.G.

RAG



ensco
environmental
services, Inc.

EXPLORATORY BORING LOG

PROJECT NAME: SHELL STATION
29 WILDWOOD AVE.
PIEDMONT, CA

BORING NO. B-5

DATE DRILLED: 8/10/88

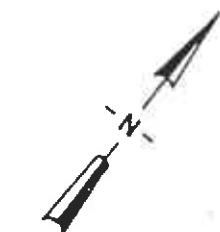
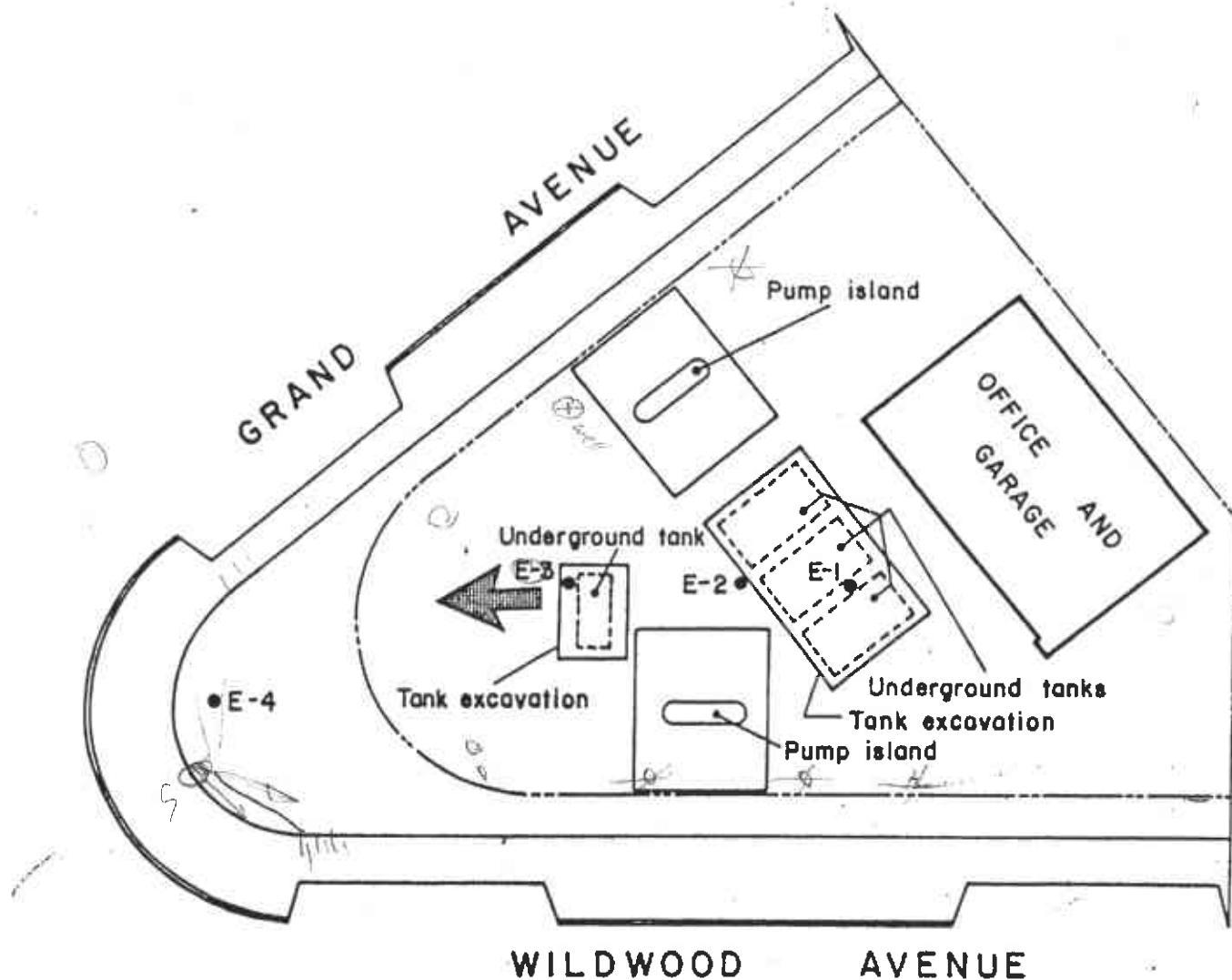
PROJECT NUMBER: 1856G

LOGGED BY: RAG

| DEPTH (ft.) | SAMPLE No | BLOWS/FOOT 140 ft/lbs. | UNIFIED SOIL CLASSIFICATION | SOIL DESCRIPTION | WATER LEVEL | OVA READING ppm | |
|-------------|-----------|---------------------------|--------------------------------|---|------------------------------|--------------------|---|
| - | - | - | - | Asphalt - 4", baserock - 8" | - | - | - |
| 1 | - | - | CH | SILTY CLAY, grayish brown (10YR 5/2), no petroleum odor, high plasticity, stiff, moist | - | - | - |
| 2 | - | - | CH | SILTY CLAY, very dark grayish brown (10YR 3/2), some fine sands and medium gravels, high plasticity, slight petroleum odor, stiff, moist | - | - | - |
| 3 | - | - | CL | SILTY CLAY to SANDY CLAY, mottled dark gray to strong brown (10YR 4/0 to 10YR 4/6), fine grained sands up to 40%, some medium sized gravels, petroleum odor, stiff, moist | - | - | - |
| 4 | - | - | CL - SC | SANDY CLAY to CLAYEY SAND, mottled dark grayish brown to dark brown (10YR 4/2 to 10YR 4/3), 40 to 60% fine grained sands, no petroleum odor, stiff to medium dense, moist | 8/10/88, Water level - 9 ft. | 20 | - |
| 5 | B-5-1 | 16 | SC | CLAYEY SAND, light yellowish brown, fine grained sands up to 70%, no petroleum odor, medium dense, moist | ▽ | - | - |
| 6 | - | - | SC - SP | CLAYEY SAND to SAND, mottled light gray to yellowish brown (10YR 7/1 to 10YR 5/6), 70 to 90% fine grained sands, no petroleum odor, medium dense, wet | 0 | - | - |
| 7 | - | - | - | Bottom of boring = 10.5 feet | - | - | - |
| 8 | - | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - |
| 13 | - | - | - | - | - | - | - |
| 14 | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - |
| 16 | - | - | - | - | - | - | - |
| 17 | - | - | - | - | - | - | - |
| 18 | - | - | - | - | - | - | - |
| 19 | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - |
| 21 | - | - | - | - | - | - | - |

SUPERVISED AND APPROVED BY R.G/C.E.G.

L.D.P.



LEGEND

- E-1 • Boring number and location
- ◀ Approximate ground-water flow direction

SCALE 0 10 20 Feet



EMCON
Associates

San Jose, California

GETTLER - RYAN, INC.
SUBSURFACE HYDROGEOLOGIC INVESTIGATIONS
SHELL STATION, GRAND AVE. AND WILDWOOD AVE.
PIEDMONT, CALIFORNIA

SITE PLAN AND BORING LOCATION MAP

FIGURE

PROJECT NO.
438-37.01

LOG OF EXPLORATORY BORING

PROJECT NUMBER 438-37.01

BY BH DATE 8/15/84

BORING NO. E-1

SURFACE ELEV. -

| CLASSIFICATION DATA | | | FIELD DATA | | | Depth in Ft. Ground Water Levels Samples | DESCRIPTION |
|----------------------|-----------------|--------------------------|--|-------------------------------------|--|---|--|
| % Fines (-No.200) | Liquid Limit | Plasti- city Index | Compre- ssive Strength (ITSF) | Penetra- tion (Blows/ Ft.) | | | |
| | | | | | | | 4-inch Concrete FILL - Dark gray (2.5Y N4/0) fine SAND has a very strong product odor - damp (very dark grayish brown (2.5Y 3/2) sandy CLAY has product sheen - wet) BOTTOM OF BORING |

REMARKS: Boring was backfilled to 4-inch with cuttings and capped with 4-inches of concrete.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 438-37.01

BY BH DATE 8/15/84

BORING NO. E-2

SURFACE ELEV. -

| CLASSIFICATION DATA | | | FIELD DATA | | | Depth in Ft. | Ground Water Levels | Samples | DESCRIPTION |
|---------------------|-----------------|--------------------------|---------------------------------------|-------------------------------------|--|--------------|---------------------|---------|---|
| % Fines (No.200) | Liquid Limit | Plasti- city Index | Compre- sive Strength (ITSF) | Penetra- tion (Blows/ Ft.) | | | | | |
| | | | | 9 | | 5 | | | 4-inch Concrete FILL - Black (2.5Y N2/0) silty CLAY has strong product odor - damp (has strong product sheen) BOTTOM OF BORING |
| | | | | | | 10 | | | |

REMARKS: Boring was backfilled to 4-inches with cuttings and capped with 4-inches of concrete.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 438-37.01

BY BH DATE 8/15/84

BORING NO. E-3

SURFACE ELEV.

| CLASSIFICATION DATA | | | FIELD DATA | | | Depth in Ft. | Ground Water Levels | Samples | DESCRIPTION |
|----------------------|--------------|--------------------------|------------|--------------------------------------|-------------------------------------|--------------|---------------------|---------|---|
| % Fines (-No.200) | Liquid Limit | Plasti- city Index | | Compre- sive Strength (TSF) | Penetra- tion (Blows/ Ft.) | | | | |
| | | | | | 8 5 | 5 | | | 4-inch Concrete FILL - Dark olive gray (5Y 3/2) fine SAND has strong product odor - damp (has strong product sheen) BOTTOM OF BORING |

REMARKS: Boring was backfilled to 4-inches with cuttings and capped with 4-inches of concrete.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 438-37.01
BY BH DATE 8/15/84

BORING NO. E-4
SURFACE ELEV. -

| CLASSIFICATION DATA | | | FIELD DATA | | | Depth in Ft. D. | Ground Water Levels | Samples | DESCRIPTION |
|---------------------|-----------------|--------------------------|------------|--------------------------------------|-------------------------------------|--------------------|------------------------|---------|---|
| % Fines (No.200) | Liquid Limit | Plasti- city Index | | Compre- sive Strength (TSF) | Penetra- tion (Blows/ Ft.) | | | | |
| | | | | | | 29 | 5 | | 2-inch Asphalt and 4-inch Baserock (SC)Very dark grayish brown (10YR 3/2) clayey SAND - damp (CL)Dark olive gray (5Y 3/2) sandy CLAY - damp (SC)Dark olive gray (5Y 3/2) clayey SAND - damp (CL)Dark yellowish brown (10YR 3/6) fine sandy CLAY - damp (brown (7.5YR 5/2) sandy - damp to dry) (contains thin gravelly inter- beds) (dark brown (7.5YR 3/4) sandy damp) |
| | | | | | | 35 | 10 | | |
| | | | | | | 35 | 15 | | |
| | | | | | | 70 | 20 | | (gray (5Y 5/1) silty very fine sandy - damp to dry) |
| | | | | | | 58 | 25 | | |
| | | | | | | 55 | 30 | Screen | (light olive gray (5Y 6/2) very fine sandy contains minor medium to coarse sand - damp to dry) |
| | | | | | | 65 | 35 | | (SM)Olive gray (5Y 5/2) silty fine SAND - wet (CL)Mottled brown (7.5YR 4/2) and dark yellowish brown (10YR 4/6) CLAY - damp to dry (mottled brown (7.5YR 4/2) and yellowish brown (10YR 5/6) sandy contains thin gravelly. interbeds - damp to dry BOTTOM OF BORING |

REMARKS: Boring was converted to a ground-water monitoring well with the installation of 35 feet of 3-inch PVC casing. The lower 12 feet of casing was slotted and the annular space backfilled to 15 feet with coarse aquarium sand. A bentonite-concrete seal was placed from 15 feet to 1 foot. The well was capped with a protective vault box and a locking device.



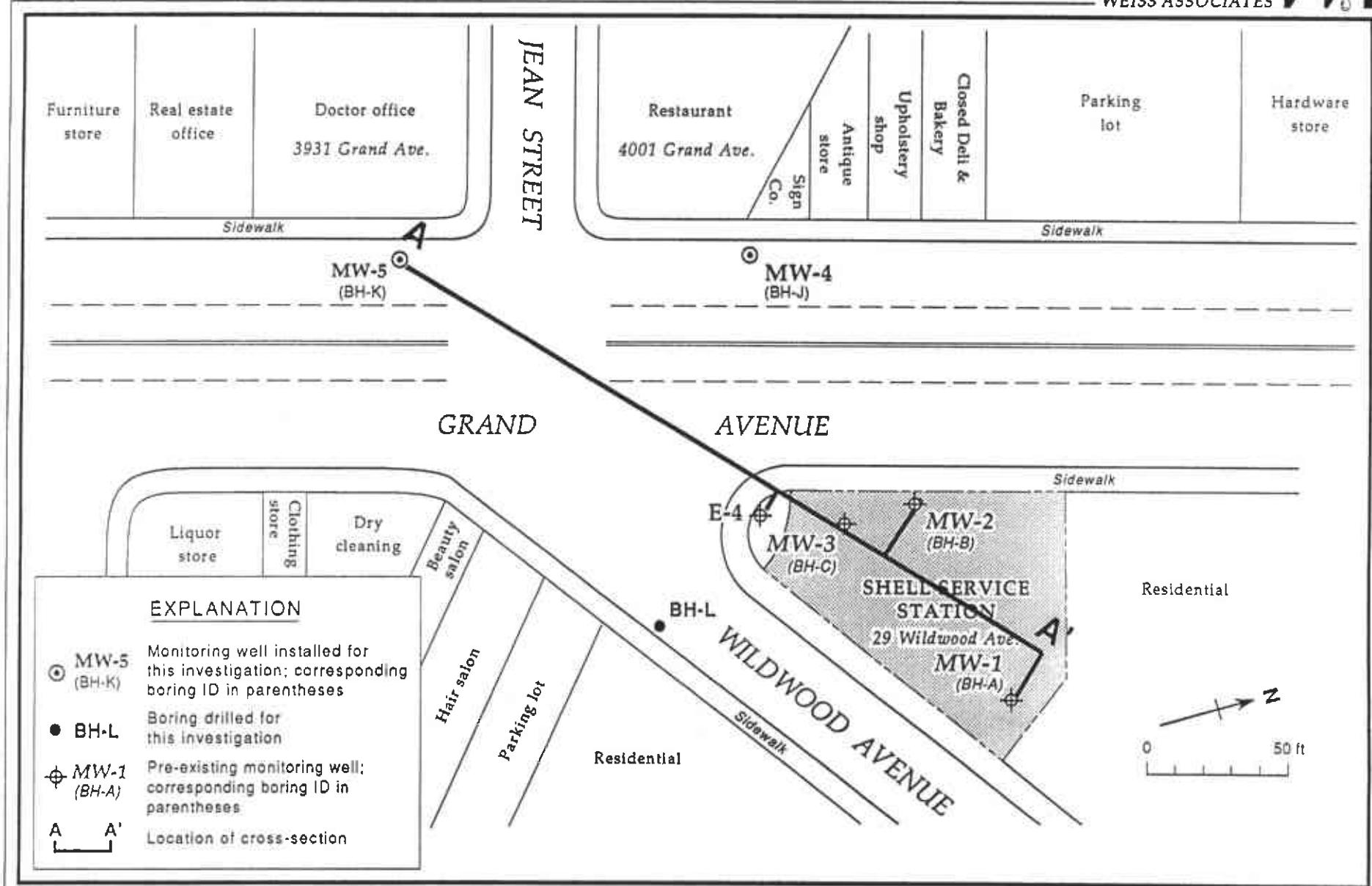


Figure 2. Soil Boring, Monitoring Well and Cross-Section Locations - Shell Service Station, WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

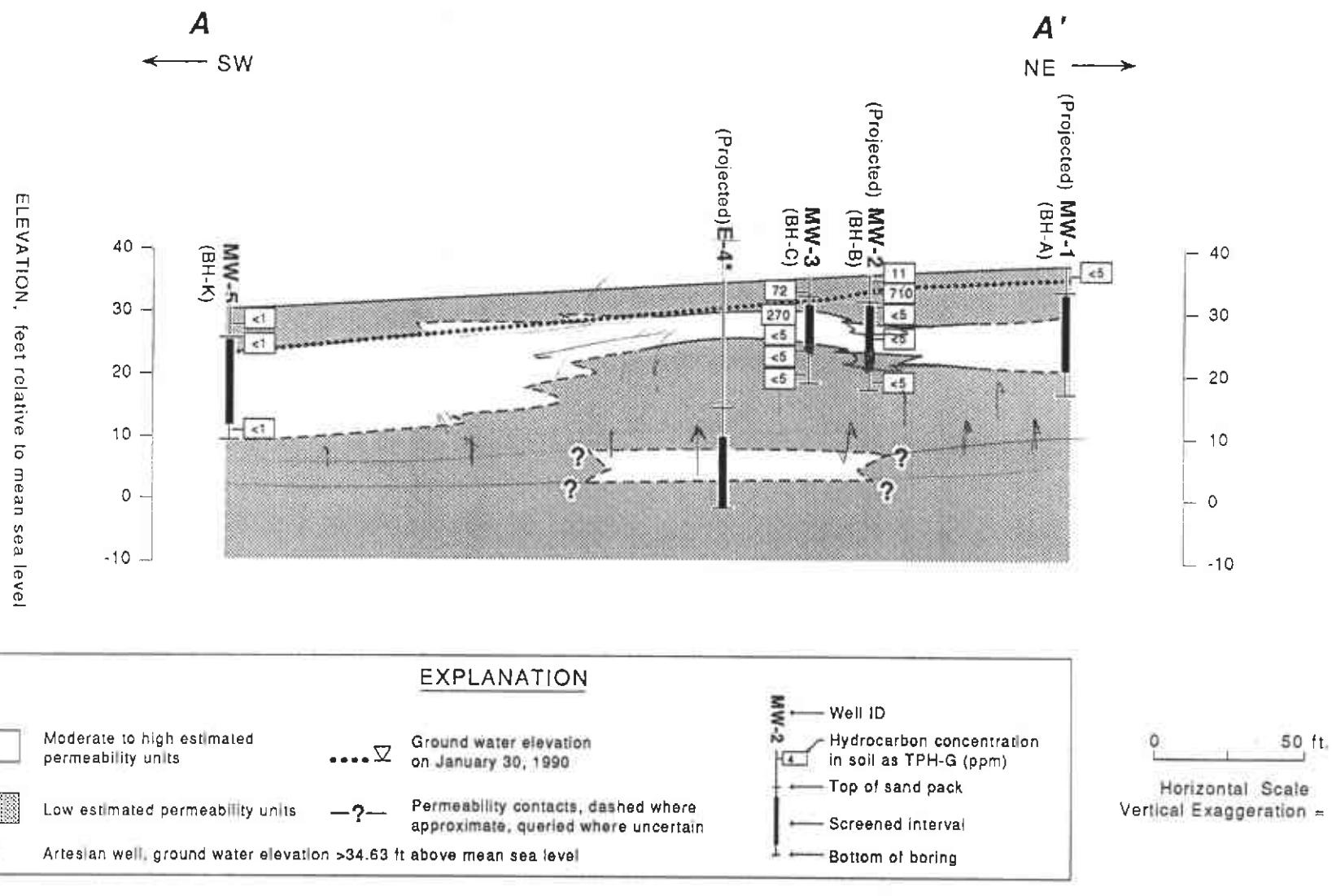
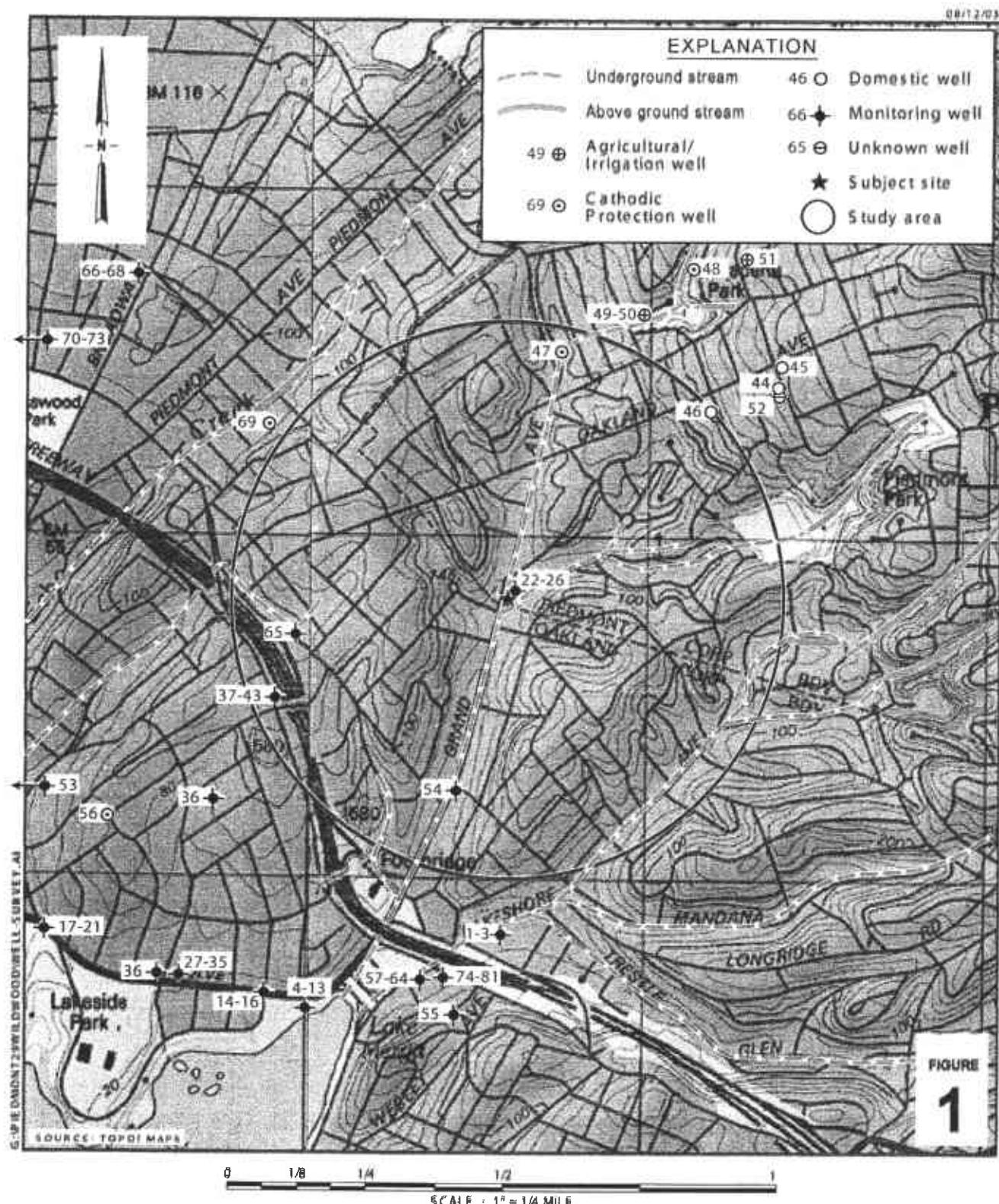


Figure 3. Geologic Cross-Section A-A' - Shell Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California



Shell-branded Service Station

CHEN-branded
29 Wildwood Avenue
Piedmont, California
Incident #98995822



CAMBRIA

Vicinity Map/ Area Well Survey

1/2 Mile Radius

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (ftbg) | Screened Interval (ftbg) | Sealed Interval (ftbg) | Well Status | Miles From Site |
|--------|------------|---------------|--------------|--------------------|---------------------|-----|--------------|--------------------------|------------------------|-------------|-----------------|
| 1 | 1S4W-25R3 | U-1 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 2 | 1S4W-25R2 | U-2 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 3 | 1S4W-25R4 | U-3 | 9/24/90 | Unocal | 3220 Lakeshore Ave. | MON | 20 | 5-20 | 0-4 | UNK | 0.60 |
| 4 | 1S4W-25Q1 | MW-8F | 3/16/89 | Texaco | 500 Grand Ave. | MON | 20 | 9-15 | 0-8 | UNK | 0.83 |
| 5 | 1S4W-25Q2 | MW-8G | 3/16/89 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4.5 | UNK | 0.83 |
| 6 | 1S4W-25Q3 | MW-8H | 1/8/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 7 | 1S4W-25Q4 | MW-8I | 1/9/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 8 | 1S4W-25Q5 | MW-8J | 1/9/90 | Texaco | 500 Grand Ave. | MON | 16.5 | 5-15 | 0-4 | UNK | 0.83 |
| 9 | 1S4W-25Q7 | MW-8E | 8/3/92 | Texaco | 500 Grand Ave. | MON | 20 | 4.5-15 | 0-4 | DEST | 0.83 |
| 10 | 1S4W-25Q8 | MW-8B | 4/1/93 | Texaco | 500 Grand Ave. | MON | --- | --- | --- | DEST | 0.83 |
| 11 | 1S4W-25Q9 | MW-8C | 4/1/93 | Texaco | 500 Grand Ave. | MON | --- | --- | --- | DEST | 0.83 |
| 12 | 1S4W-25Q10 | MW-8L | 5/18/93 | Texaco | 500 Grand Ave. | MON | 19.5 | 3-18 | 1.5-2.5 | UNK | 0.83 |
| 13 | 1S4W-25Q11 | MW-8K | 5/18/93 | Texaco | 500 Grand Ave. | MON | 19.5 | 3-18 | 1.5-2.5 | UNK | 0.83 |
| 14 | 1S4W-25P13 | C-1 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 20 | 5-15 | 0-4.5 | UNK | 0.84 |
| 15 | 1S4W-25P14 | C-2 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 16.5 | 5-15 | 0-4.5 | UNK | 0.84 |
| 16 | 1S4W-25P15 | C-3 | 12/14/92 | Chevron | 460 Grand Ave. | MON | 15 | 5-15 | 0-4.5 | UNK | 0.84 |
| 17 | 1S4W-25M80 | MW-2 | --- | Chevron | 210 Grand Ave. | MON | --- | --- | --- | DEST | 1.04 |
| 18 | 1S4W-25M9 | MW-6 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-5 | UNK | 1.04 |
| 19 | 1S4W-25M10 | MW-7 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-5 | UNK | 1.04 |
| 20 | 1S4W-25M11 | MW-8 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 14 | 5.5-8 | 0-5.5 | UNK | 1.04 |
| 21 | 1S4W-25M12 | MW-9 | 6/29/90 | Chevron | 210 Grand Ave. | MON | 12 | 5-10 | 0-4.5 | UNK | 1.04 |
| 22 | 1S4W-25A5 | MW-1 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 6-15 | 0-5.5 | UNK | 0.00 |
| 23 | 1S4W-25A6 | MW-2 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 6-12 | 0-5.5 | UNK | 0.00 |
| 24 | 1S4W-25A7 | MW-3 | 7/6/89 | Shell | 29 Wildwood Ave | MON | 20 | 3.5-10 | 0-3.5 | UNK | 0.00 |
| 25 | 1S4W-25A4 | MW-4 | 1/23/90 | Shell | 29 Wildwood Ave | MON | 20 | 4-16 | 3-4 | UNK | 0.00 |
| 26 | 1S4W-25A8 | MW-5 | 1/23/90 | Shell | 29 Wildwood Ave | MON | 16.5 | 5-16 | 3.5-4 | UNK | 0.00 |
| 27 | 1S4W-25P6 | MW-6 | 3/6/90 | Quick Stop Markets | 363 Grand Ave. | MON | 30 | 15-30 | 0-15 | UNK | 0.90 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|------------|-------|--------------|--------------------------------|-------------------------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|
| 28 | 1S4W-25P7 | MW-7 | 3/7/90 | Quick Stop Markets | 363 Grand Ave. | MON | 23.5 | 13.5-23.5 | 0-11.5 | UNK | 0.90 |
| 29 | 1S4W-25P8 | MW-8 | 3/7/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 18.5-28.5 | 0-16.5 | UNK | 0.90 |
| 30 | 1S4W-25P5 | MW-5 | 3/5/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 15-30 | 0-13 | UNK | 0.90 |
| 31 | 1S4W-25P4 | MW-4 | 3/5/90 | Quick Stop Markets | 363 Grand Ave. | MON | 31.5 | 15-30 | 0-13 | UNK | 0.90 |
| 32 | 1S4W- | MW-1 | 11/10/88 | Quick Stop Markets | 363 Grand Ave. | MON | 27 | 27-30.5 | 0-13 | UNK | 0.90 |
| 33 | 1S4W- | MW-3 | 11/16/88 | Quick Stop Markets | 363 Grand Ave. | MON | 36 | 24-34 | 0-15 | UNK | 0.90 |
| 34 | 1S4W- | MW-2 | 11/11/88 | Quick Stop Markets | 363 Grand Ave. | MON | 35.5 | 15-35 | 0-15 | UNK | 0.90 |
| 35 | 1S4W-25P12 | RW-1 | 8/14/90 | Quick Stop Markets | 363 Grand Ave. | MON | 37 | 25-35 | 0-22 | UNK | 0.90 |
| 36 | 1S4W-25P9 | S-1 | 1/7/91 | Shell | 350 Grand Ave. | MON | 17 | 7-16 | 0-5 | UNK | 0.65 |
| 37 | 1S4W-24P1 | S-A | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 38 | 1S4W-24P2 | S-B | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 39 | 1S4W-24P3 | S-C | 4/14/86 | Shell | 230 MacArthur Blvd. | MON | 13 | 3-13 | 1.5-2.0 | UNK | 0.45 |
| 40 | 1S4W-24P7 | MW-4 | 1/9/90 | Shell | 230 MacArthur Blvd. | MON | 25.5 | 15-25 | 0-14 | UNK | 0.45 |
| 41 | 1S4W-24P? | MW-1 | 7/11/88 | Shell | 230 MacArthur Blvd. | MON | 31.5 | 10-30 | 0-8 | UNK | 0.45 |
| 42 | 1S4W-24P5 | MW-2 | 7/11/88 | Shell | 230 MacArthur Blvd. | MON | 28 | 10-28 | 0-6 | UNK | 0.45 |
| 43 | 1S4W-24P6 | MW-3 | 7/12/88 | Shell | 230 MacArthur Blvd. | MON | 28.5 | 11.5-28.5 | 0-10 | UNK | 0.45 |
| 44 | 1S3W-19P4 | | 2/5/91 | Paul Hertelendy | 321 Hillside Ave. | DOM | 157 | 77-157 | 0-21 | UNK | 0.60 |
| 45 | 1S3W-19P13 | | 5/30/05 | Abbott | 304 Hillside Ave. | DOM | 220 | --- | 0-75 | UNK | 0.68 |
| 46 | 1S3W-19P2 | | 1977 | Traulsen | 326 El Cerrito | DOM | 300 | --- | 0-110 | UNK | 0.50 |
| 47 | 1S3W-19M3 | | 1/27/82 | East Bay MUD | Lower Grand Ave & Holly Place | CAT | 65 | --- | 5-48 | UNK | 0.48 |
| 48 | 1S3W-19L? | | 7/17/74 | PG & E | 132 Dracena Ave | CAT | 120 | --- | --- | UNK | 0.70 |
| 49 | 1S3W-19M2 | | 8/29/77 | City of Piedmont | Dracena Park | IRR | 300 | --- | --- | UNK | 0.56 |
| 50 | 1S3W-19M3 | | 10/1977 | City of Piedmont | Dracena Park | IRR | 300 | --- | --- | UNK | 0.56 |
| 51 | 1S3W-19M5 | --- | 12/23/88 | John B. Bates, Jr. | 125 Hillside Ave. | IRR | 100 | 40-100 | 0-20 | UNK | 0.75 |
| 52 | 1S3W- | 1137 | --- | Ernest J. Sweetland | 321 Hillside Ave. | UNK | 119.5 | 39.5-119.5 | --- | UNK | 0.60 |
| 53 | 1S4W-25M14 | --- | 2/23/93 | Wells Fargo Bank/Sehpard Trust | 230 Bay Place | MON | 20 | 5-20 | 0-4 | UNK | 1.00 |
| 54 | 1S4W-25H1 | MW-1 | 1/25/91 | Martini Company | 3509 Grand Ave. | MON | 40 | 10-40 | 0-8 | UNK | 0.35 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|------------|---------------|--------------|-----------------------------------|------------------------------------|------------|-------------|-------------------------|-----------------------|-------------|-----------------|
| 55 | 1S4W-25R1 | MW-1 | 10/10/89 | Ranger Pipeline | 637 Beacon | MON | 35.5 | 15-35.5 | 0-15 | UNK | 0.75 |
| 56 | 1S4W-25L1 | --- | 8/7/74 | PG & E | Adams and Lee Streets | Cathodic | 120 | --- | 0-95 | UNK | 0.81 |
| 57 | 1S4W-25R5 | MW-A | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 58 | 1S4W-25R6 | MW-B | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 59 | 1S4W-25R7 | MW-C | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 60 | 1S4W-25R8 | MW-D | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 61 | 1S4W-25R9 | MW-G | --- | Chevron | 3026 Lakeshore Ave | MON | --- | --- | --- | DEST | 0.70 |
| 62 | 1S4W-25R10 | MW-H | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 63 | 1S4W-25R11 | MW-I | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 64 | 1S4W-25R12 | MW-J | --- | Chevron | 3026 Lakeshore Ave | Extraction | --- | --- | --- | DEST | 0.70 |
| 65 | 1S4W-25B1 | 1 | 6/7/89 | City of Oakland (Fire Station 10) | 172 Santa Clara Ave | MON | 25 | 10-25 | 0-9.5 | UNK | 0.38 |
| 66 | 1S4W-24L4 | MW-1 | 10/17/89 | Unocal | 3943 Broadway | MON | 20 | 5-20 | 0-4 | UNK | 0.90 |
| 67 | 1S4W-24L14 | MW-10 | 2/6/92 | Unocal | 3943 Broadway | MON | --- | --- | --- | UNK | 0.90 |
| 68 | 1S4W-24L15 | MW-11 | 2/6/92 | Unocal | 3943 Broadway | MON | --- | --- | --- | UNK | 0.90 |
| 69 | 1S4W-24Q1 | --- | 6/26/74 | PG & E | Moutell St, 75' w/o Robley Terrace | CAT | 120 | --- | 0-95 | UNK | 0.55 |
| 70 | 1S4W-24M1 | MW-1 | 9/7/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 71 | 1S4W-24M2 | MW-2 | 9/6/89 | Unocal | 411 W. MacArthur Blvd. | MON | 30.5 | 3.5-28.5 | 0-3 | UNK | 1.00 |
| 72 | 1S4W-24M3 | MW-3 | 9/7/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 73 | 1S4W-24M4 | MW-4 | 9/6/89 | Unocal | 411 W. MacArthur Blvd. | MON | 29 | 5-29 | 0-4 | UNK | 1.00 |
| 74 | 1S4W-25R13 | MW-1 | 8/7/91 | Chevron | 3026 Lakeshore Ave | MON | 14 | 4-14 | 0-3 | DEST | 0.69 |
| 75 | 1S4W-25R14 | MW-2 | 8/7/91 | Chevron | 3026 Lakeshore Ave | MON | 12 | 2-12 | 0-2 | UNK | 0.69 |
| 76 | 1S4W-25R15 | MW-3 | 8/13/91 | Chevron | 3026 Lakeshore Ave | MON | 18 | 8-18 | 0-5 | UNK | 0.69 |
| 77 | 1S4W-25R16 | MW-4 | 8/13/91 | Chevron | 3026 Lakeshore Ave | MON | 15 | 5-15 | 0-4 | UNK | 0.69 |
| 78 | 1S4W-25R17 | MW-1 | 6/19/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |
| 79 | 1S4W-25R18 | MW-5 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 24 | 15-35 | 0-13 | UNK | 0.69 |
| 80 | 1S4W-25R19 | MW-6 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |
| 81 | 1S4W-25R13 | MW-7 | 6/12/92 | Chevron | 3026 Lakeshore Ave | MON | 19 | 4-19 | 0-3 | UNK | 0.69 |

Table 1. Department of Well Resources Well Survey Results

Shell-branded Service Station, 29 Wildwood, Piedmont, California. Incident # 98995822

| Map ID | Well ID | Owner Well ID | Install Date | Owner | Well Location | Use | Depth (fbg) | Screened Interval (fbg) | Sealed Interval (fbg) | Well Status | Miles From Site |
|--------|---------|---------------|--------------|-------|---------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|
|--------|---------|---------------|--------------|-------|---------------|-----|-------------|-------------------------|-----------------------|-------------|-----------------|

Notes and Abbreviations:

Well information provided by the Alameda County Water District.

Map ID number refers to map location on Figure 1.

Well ID = California State well identification number as recorded by the Department of Water Resources in Sacramento, California

fbg = feet below grade

AG = Agricultural

DOM = Domestic

GEO = Geotechnical

IND = Industrial

MON = Monitoring

UNK = Unknown

CAT = Cathodic Protection

DEST = destroyed

"---" = no data available

Utility Location Map

CAMBRIA

2

Shell-branded Service Station
29 Wildwood Avenue
Pleasanton, California
Incident #989985822

01/24/03

