



ENVIRONMENTAL
PROTECTION

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June 10, 1996
SCI 838.003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway #250
Alameda, California 94502-6577

Groundwater Monitoring Event
April 1996.
2801 MacArthur Boulevard
Oakland, California

Dear Ms. Chu:

This letter presents quarterly groundwater monitoring results for the referenced site. Monitoring services were provided by Subsurface Consultants, Inc. (SCI) on behalf of the APA Fund Limited. Groundwater monitoring has been performed in accordance with the revised program agreed upon at the October 17, 1995 meeting attended by Ms. Eva Chu of the Alameda County Health Care Services Agency (ACHCSA), Ms. Aniko Molnar of APA Fund, and SCI. The location of the site is shown on Plate 1.

Groundwater Sampling

On April 17, 1996, a groundwater monitoring event was performed. For this event wells M2, M4 through M6 and piezometer P2 were purged and sampled. The groundwater monitoring event consisted of (1) measuring groundwater levels in all the wells (M1-M6) & piezometers (P1-P3) using an electric well sounder, (2) checking for free product in the wells and piezometers to be sampled, (3) purging water from each well to be sampled until pH, conductivity and temperature had stabilized (approximately 3 well volumes), and (4) after the wells had recovered to at least 80 percent of their initial level, sampling the wells with new disposable bailers. Samples were retained in containers pre-cleaned by the supplier in accordance with EPA protocol. The containers were placed in an ice filled cooler and remained iced until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory. Purge water is stored on-site in 55-gallon steel drums. The groundwater level data generated to date are presented in Table 1.

■ **Subsurface Consultants, Inc.**

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

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Analytical Testing

Analytical testing was performed by Curtis & Tompkins, Ltd., a laboratory certified by the State of California Department of Health Services for hazardous waste and water testing. A sample from each well was analyzed for the following:

1. Total volatile hydrocarbons, as gasoline (TVH-gas), sample preparation and analysis using EPA Methods 5030 (purge and trap) and 8015 modified (gas chromatograph coupled to a flame ionization detector), and
2. Benzene, toluene, xylenes and ethylbenzene (BTXE) sample preparation and analysis using EPA Methods 5030 and 8020 (gas chromatograph coupled to a photoionization detector).

A summary of the current and previous analytical test results are presented in Table 2. Well sampling forms, analytical test reports, and Chain-of-Custody documents are attached. All sampling events prior to May 17, 1993 were conducted by Streamborn, the previous environmental consultant.

Conclusions

The groundwater level data indicates that the regional groundwater flow direction is toward the south at a gradient of approximately 4 to 6 percent. The groundwater flow direction and gradient has been consistently to the south and southwest and from approximately 2 to 8 percent throughout the monitoring program.

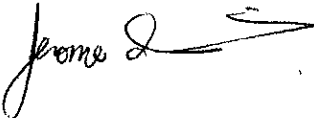
The relative distribution of dissolved petroleum hydrocarbon constituents on-site remains similar to previous events. No contaminants of concerns have been detected during the last two quarterly events in the off-site downgradient wells MW-5 and MW-6. Although no free product was measured in any of the wells during this event, a petroleum hydrocarbon odor was observed in piezometer P2 and Wells M2 and M4.

In accordance with the monitoring plan, the next monitoring event is scheduled for July 1996. If you have any questions, please call.

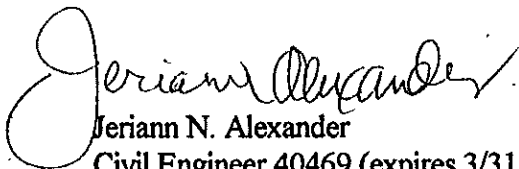
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Yours very truly,

Subsurface Consultants, Inc.



Jerome de Verrier
Project Engineer



Jeriann N. Alexander
Civil Engineer 40469 (expires 3/31/99)

JD:JNA:sld

Attachments: Table 1 - Groundwater Elevation Data
 Table 2 - Hydrocarbon Concentrations in Groundwater
 Plate 1 - Site Plan
 Well Sampling Forms
 Analytical Test Reports
 Chain-of-Custody Records

4 copies submitted

cc: Aniko Molnar
 Environmental Consultant
 7 Morning Sun Avenue
 Mill Valley, California 94941

APA Fund Ltd.
c/o Mr. Nicholas Molnar
1904 Franklin Street, Suite 501
Oakland, California 94612

Table 1
Groundwater Elevation Data

| <u>Well</u> | <u>TOC¹ Elevation (feet)</u> | <u>Date</u> | <u>Groundwater Depth (feet)</u> | <u>Groundwater Elevation (feet)</u> |
|-------------|-------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------|
| M1 | 1000 | 10/24/90 | 36.1 | 963.9 |
| | | 10/25/90 | 36.1 | 963.9 |
| | | 11/2/90 | 36.4 | 963.6 |
| | | 11/6/90 | 36.8 | 963.2 |
| | | 11/16/90 | 36.8 | 963.2 |
| | | 11/23/90 | 36.9 | 963.1 |
| | | 11/28/90 | 37.0 | 963.0 |
| | | 12/5/90 | 37.2 | 963.0 |
| | | 3/18/91 | 35.8 | 964.2 |
| | | 3/29/91 | 32.4 | 967.6 |
| | | 4/3/91 | 31.9 | 968.1 |
| | | 4/9/91 | 31.6 | 968.4 |
| | | 4/16/91 | 31.2 | 968.8 |
| | | 1/23/92 | 35.5 | 964.5 |
| | | 3/9/93 | 29.1 | 970.9 |
| | | 6/1/93 | 27.5 | 972.9 |
| | | 12/13/93 | 33.9 | 966.1 |
| | | 3/7/94 | 32.3 | 967.7 |
| | | 8/23/94 | 32.3 | 967.7 |
| | | 10/11/94 | 34.1 | 965.9 |
| 4/26/95 | 24.4 | 975.6 | | |
| 10/27/95 | 31.3 | 968.7 | | |
| 1/22/96 | 31.1 | 968.9 | | |
| 4/15/96 | 25.6 | 974.4 | | |
| M2 | 999.6 | 4/30/91 | 31.1 | 968.5 |
| | | 5/7/91 | 31.3 | 968.3 |
| | | 1/16/92 | 35.1 | 964.5 |
| | | 3/9/93 | 33.6 | 966.0 |
| | | 5/17/93 | 27.2 | 972.4 |
| | | 6/1/93 | 27.6 | 972.0 |
| | | 8/17/93 | 30.4 | 969.2 |
| | | 12/13/93 | 34.0 | 965.6 |
| | | 3/7/94 | 30.1 | 969.5 |
| | | 8/23/94 | 32.3 | 967.3 |
| 10/11/94 | 34.2 | 965.4 | | |

Table 1
Groundwater Elevation Data

| <u>Well</u> | <u>TOC¹ Elevation (feet)</u> | <u>Date</u> | <u>Groundwater Depth (feet)</u> | <u>Groundwater Elevation (feet)</u> |
|-------------|-------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------|
| M2 | | 4/26/95 | 24.4 | 975.2 |
| | | 10/27/95 | 31.4 | 968.2 |
| | | 1/22/96 | 31.2 | 968.4 |
| | | 4/15/96 | 25.6 | 974.0 |
| M3 | 992.8 | 5/17/93 | 22.2 | 970.6 |
| | | 6/1/93 | 23.3 | 969.5 |
| | | 8/17/93 | 25.0 | 967.8 |
| | | 12/13/93 | 25.8 | 967.0 |
| | | 3/7/94 | 23.1 | 969.7 |
| | | 8/23/94 | 25.8 | 967.0 |
| | | 10/11/94 | 27.4 | 965.4 |
| | | 4/26/95 | 19.6 | 973.2 |
| | | 10/27/95 | 25.4 | 967.4 |
| | | 1/22/96 | 24.2 | 968.6 |
| 4/15/96 | 20.9 | 971.9 | | |
| M4 | 999.6 | 5/17/93 | 33.8 | 965.8 |
| | | 6/1/93 | 32.5 | 965.7 |
| | | 12/13/93 | 36.8 | 962.8 |
| | | 3/7/94 | 33.0 | 966.6 |
| | | 8/23/94 | 35.4 | 964.2 |
| | | 10/11/94 | 37.1 | 962.5 |
| | | 4/26/95 | 29.8 | 969.8 |
| | | 10/27/95 | 34.2 | 965.4 |
| | | 1/22/96 | 30.1 | 969.5 |
| | | 4/15/96 | 30.1 | 969.5 |
| M5 | 992.9 | 8/23/94 | 31.8 | 961.1 |
| | | 10/11/94 | 33.6 | 959.3 |
| | | 4/26/95 | 20.5 | 972.4 |
| | | 10/27/95 | 31.5 | 961.4 |
| | | 1/22/96 | 25.6 | 967.3 |
| | | 4/15/96 | 21.7 | 971.2 |
| M6 | 997.7 | 8/23/94 | 41.2 | 956.6 |

Table 1
Groundwater Elevation Data

| <u>Well</u> | <u>TOC¹ Elevation (feet)</u> | <u>Date</u> | <u>Groundwater Depth (feet)</u> | <u>Groundwater Elevation (feet)</u> |
|-------------|-------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------|
| M6 | | 10/11/94 | 38.2 | 959.5 |
| | | 4/26/95 | 27.8 | 969.9 |
| | | 10/27/95 | 34.9 | 962.8 |
| | | 1/22/96 | 22.0 | 975.7 |
| | | 4/15/96 | 28.5 | 969.2 |
| P1 | 999.6 | 10/24/90 | 37.9 | 961.7 |
| | | 10/25/90 | 38.0 | 961.6 |
| | | 11/2/90 | 38.4 | 961.2 |
| | | 11/6/90 | 38.7 | 960.9 |
| | | 11/16/90 | 38.3 | 961.3 |
| | | 11/23/90 | 38.1 | 961.5 |
| | | 11/28/90 | 38.3 | 961.3 |
| | | 12/5/90 | 38.2 | 961.4 |
| | | 3/18/91 | 37.8 | 961.8 |
| | | 3/29/91 | 36.9 | 962.7 |
| | | 4/3/91 | 36.8 | 962.8 |
| | | 4/9/91 | 36.9 | 962.7 |
| | | 4/16/91 | 36.7 | 962.9 |
| | | 4/18/91 | 36.8 | 962.8 |
| | | 4/30/91 | 36.3 | 963.3 |
| | | 5/7/91 | 36.2 | 963.4 |
| | | 1/16/92 | 36.6 | 963.0 |
| | | 3/9/93 | 32.8 | 966.8 |
| | | 6/1/93 | 30.0 | 969.6 |
| | | 12/13/93 | 33.7 | 965.9 |
| 3/7/94 | 32.6 | 967.0 | | |
| 8/23/94 | 32.7 | 966.9 | | |
| 10/11/94 | 33.5 | 966.1 | | |
| 4/26/95 | 27.6 | 972.0 | | |
| 10/27/95 | 31.8 | 967.8 | | |
| 1/22/96 | 33.3 | 966.3 | | |
| 4/15/96 | 28.2 | 971.4 | | |
| P2 | 997.8 | 10/24/90 | 41.1 | 956.7 |
| | | 10/25/90 | 40.6 | 957.2 |

Table 1
Groundwater Elevation Data

| <u>Well</u> | <u>TOC¹ Elevation (feet)</u> | <u>Date</u> | <u>Groundwater Depth (feet)</u> | <u>Groundwater Elevation (feet)</u> |
|-------------|-------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------|
| P2 | | 11/2/90 | 38.4 | 959.4 |
| | | 11/6/90 | 37.0 | 960.8 |
| | | 11/16/90 | 37.4 | 960.4 |
| | | 11/23/90 | 35.9 | 961.9 |
| | | 11/28/90 | 35.4 | 962.4 |
| | | 2/5/90 | 35.03 | 962.83 |
| | | 3/18/91 | 31.43 | 966.43 |
| | | 3/29/91 | 28.23 | 969.63 |
| | | 4/3/91 | 26.83 | 971.03 |
| | | 4/9/91 | 26.53 | 971.33 |
| | | 4/16/91 | 26.53 | 971.33 |
| | | 4/18/91 | 26.53 | 971.33 |
| | | 4/30/91 | 26.73 | 971.13 |
| | | 5/7/91 | 27.03 | 970.83 |
| | | 1/16/92 | 33.73 | 964.13 |
| | | 3/9/93 | 23.63 | 974.2 |
| | | 5/17/93 | 23.73 | 974.1 |
| | | 6/1/93 | 24.43 | 973.4 |
| | | 8/17/93 | 28.33 | 969.5 |
| | | 12/13/93 | 31.03 | 966.8 |
| | | 3/7/94 | 25.43 | 972.4 |
| | | 8/23/94 | 30.3 | 967.5 |
| | | 10/11/94 | 32.3 | 965.5 |
| 4/26/95 | 19.9 | 977.9 | | |
| 10/27/95 | 29.6 | 968.2 | | |
| 1/22/96 | 27.4 | 970.4 | | |
| 4/15/96 | 21.3 | 976.5 | | |
| P3 | 999.1 | 3/29/91 | 24.7 | 974.4 |
| | | 4/3/91 | 25.1 | 974 |
| | | 4/9/91 | 25.9 | 973.2 |
| | | 4/16/91 | 26.2 | 972.9 |
| | | 4/18/91 | 26.2 | 972.9 |
| | | 4/30/91 | 26.8 | 972.3 |
| | | 5/7/91 | 27.4 | 971.7 |
| | | 1/23/92 | 32.5 | 966.6 |

Table 1
Groundwater Elevation Data

| <u>Well</u> | <u>TOC¹ Elevation (feet)</u> | <u>Date</u> | <u>Groundwater Depth (feet)</u> | <u>Groundwater Elevation (feet)</u> |
|-------------|-------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------|
| P3 | | 3/9/93 | 24.8 | 974.3 |
| | | 6/4/93 | 23.9 | 975.2 |
| | | 8/17/93 | 28.5 | 970.6 |
| | | 12/13/93 | 29.3 | 969.8 |
| | | 3/7/94 | 25.0 | 974.1 |
| | | 8/23/94 | 30.1 | 969 |
| | | 10/11/94 | 32.0 | 967.1 |
| | | 4/26/95 | 20.5 | 978.6 |
| | | 10/27/95 | 27.8 | 971.3 |
| | | 1/22/96 | 26.7 | 972.4 |
| | | 4/15/96 | 21.4 | 977.7 |

Note 1 - Elevations relative to site-specific datum. Temporary Bench Mark No. 1, top of concrete at west corner of northernmost pump island. Assumed elevation = 1,000.0 feet.

Table 2
Hydrocarbon Concentrations in Groundwater

| <u>Sample Location</u> | <u>Sample Date</u> | <u>TVH (ug/l)</u> | <u>Benzene (ug/l)</u> | <u>Toluene (ug/l)</u> | <u>Ethylbenzene (ug/l)</u> | <u>Xylenes (ug/l)</u> |
|------------------------|--------------------|-------------------|-----------------------|-----------------------|----------------------------|-----------------------|
| P-1 | 1/16/92 | 6,700 | 500 | 4.4 | 80 | 40 |
| | 3/9/93 | 5,600 | 1,100 | 29 | 63 | 120 |
| P-2 | 11/6/90 | 33,000 | 4,700 | 2,100 | 380 | 630 |
| | 1/16/92 | 99,000 | 6,500 | 12,000 | 2,000 | 16,000 |
| | 3/9/93 | 70,000 | 5,900 | 11,000 | 2,100 | 12,000 |
| | 5/17/93 | 87,000 | 6,600 | 13,000 | 2,200 | 13,000 |
| | 8/17/93 | 80,000 | 5,800 | 12,000 | 2,000 | 12,000 |
| | 12/13/93 | 100,000 | 5,600 | 12,000 | 2,200 | 14,000 |
| | 3/7/94 | 77,000 | 5,100 | 11,000 | 2,000 | 12,000 |
| | 8/23/94 | 70,000 | 3,800 | 8,700 | 1,500 | 9,900 |
| | 4/27/95 | 44,000 | 3,600 | 8,500 | 1,500 | 9,300 |
| | 10/30/95 | 66,000 | 4,600 | 11,000 | 2,100 | 13,600 |
| | 4/17/96 | 58,000 | 4,800 | 9,900 | 1,900 | 12,900 |
| P-3 | 8/17/93 | 900 | 180 | 65 | 10 | 93 |
| | 10/30/95 | 2000 | 650 | 45 | 31 | 156 |
| M-2 | 5/7/91 | 16,000 | 1,300 | 950 | 170 | 890 |
| | 1/16/92 | 22,000 | 960 | 570 | 370 | 1,800 |
| | 3/9/93 | 27,000 | 1,100 | 970 | 490 | 1,400 |
| | 5/17/93 | 17,000 | 1,200 | 770 | 480 | 1,300 |
| | 8/17/93 | 20,000 | 1,700 | 910 | 540 | 1,400 |
| | 12/13/93 | 51,000 | 2,200 | 1,400 | 700 | 2,600 |
| | 3/7/94 | 28,000 | 1,400 | 900 | 640 | 1,800 |
| | 8/23/94 | 21,000 | 1,600 | 540 | 520 | 1,100 |
| | 4/26/95 | 14,000 | 1,200 | 510 | 490 | 870 |
| | 10/30/95 | 16,000 | 1,700 | 830 | 470 | 1,120 |
| | 4/17/96 | 10,000 | 1,300 | 610 | 380 | 810 |
| M-3 | 5/17/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/17/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/7/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/23/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/27/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 2
Hydrocarbon Concentrations in Groundwater

| <u>Sample Location</u> | <u>Sample Date</u> | <u>TVH (ug/l)</u> | <u>Benzene (ug/l)</u> | <u>Toluene (ug/l)</u> | <u>Ethylbenzene (ug/l)</u> | <u>Xylenes (ug/l)</u> |
|------------------------|--------------------|-------------------|-----------------------|-----------------------|----------------------------|-----------------------|
| M-4 | 5/17/93 | 7,500 | 1,200 | 230 | 11 | 350 |
| | 8/17/93 | 13,000 | 3,000 | 330 | 130 | 700 |
| | 12/13/93 | 11,000 | 2,700 | 190 | 90 | 360 |
| | 3/7/94 | 3,800 | 980 | 33 | 49 | 140 |
| | 8/23/94 | 19,000 | 5,800 | 200 | 460 | 630 |
| | 4/27/95 | 2,300 | 510 | 40 | 69 | 120 |
| | 11/1/95 | 1,100 | 470 | 14 | 23 | 26 |
| | 4/17/96 | 550* | 330 | <2.5 | 5.9 | 16.1 |
| M-5 | 8/23/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/27/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 11/1/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/17/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| M-6 | 10/11/94 | 3,600 | 340 | 27 | 65 | 240 |
| | 4/26/95 | 150 | 9.3 | <0.5 | 5.6 | 1.7 |
| | 11/1/95 | 170 | 0.6 | <0.5 | <0.5 | 0.6 |
| | 1/22/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/17/96 | <50 | <0.5 | <0.5 | <0.5 | 1 |

TVH = Total volatile hydrocarbons, as gasoline

ug/l = Micrograms per liter = parts per billion

<50 = Analyte not present at a concentration above the stated detection limit.

* = Sample exhibits a fuel pattern which does not resemble the standard

| Date | TVH | B | T | E | X |
|----------|--------|-------|-------|-----|-------|
| 5/7/91 | 18,000 | 1,300 | 950 | 170 | 890 |
| 1/18/92 | 22,000 | 980 | 570 | 370 | 1,800 |
| 3/9/93 | 27,000 | 1,100 | 970 | 490 | 1,400 |
| 5/17/93 | 17,000 | 1,200 | 770 | 480 | 1,300 |
| 8/17/93 | 20,000 | 1,700 | 910 | 540 | 1,400 |
| 12/13/93 | 51,000 | 2,200 | 1,400 | 700 | 2,600 |
| 3/7/94 | 28,000 | 1,400 | 900 | 640 | 1,800 |
| 8/23/94 | 21,000 | 1,800 | 540 | 520 | 1,100 |
| 04/28/95 | 14,000 | 1,200 | 510 | 490 | 870 |
| 10/30/95 | 18,000 | 1,700 | 830 | 470 | 1,120 |
| 4/17/96 | 10,000 | 1,300 | 610 | 380 | 810 |

| Date | TVH | B | T | E | X |
|----------|-------|-----|----|----|-----|
| 8/17/93 | 900 | 180 | 65 | 10 | 93 |
| 10/30/95 | 2,000 | 650 | 45 | 31 | 156 |

| Date | TVH | B | T | E | X |
|----------|---------|-------|--------|-------|--------|
| 11/6/90 | 33,000 | 4,700 | 2,100 | 380 | 830 |
| 1/16/92 | 99,000 | 6,500 | 12,000 | 2,000 | 16,000 |
| 3/6/93 | 70,000 | 5,900 | 1,000 | 2,100 | 12,000 |
| 5/17/93 | 87,000 | 8,600 | 13,000 | 2,200 | 13,000 |
| 8/17/93 | 80,000 | 5,800 | 12,000 | 2,000 | 12,000 |
| 12/13/93 | 100,000 | 5,800 | 12,000 | 2,200 | 14,000 |
| 3/7/94 | 77,000 | 5,100 | 11,000 | 2,000 | 12,000 |
| 8/23/94 | 70,000 | 3,800 | 8,700 | 1,500 | 9,900 |
| 04/27/95 | 44,000 | 3,600 | 8,500 | 1,500 | 9,300 |
| 10/30/95 | 68,000 | 4,600 | 11,000 | 2,100 | 13,600 |
| 4/17/96 | 58,000 | 4,800 | 9,900 | 1,900 | 12,900 |

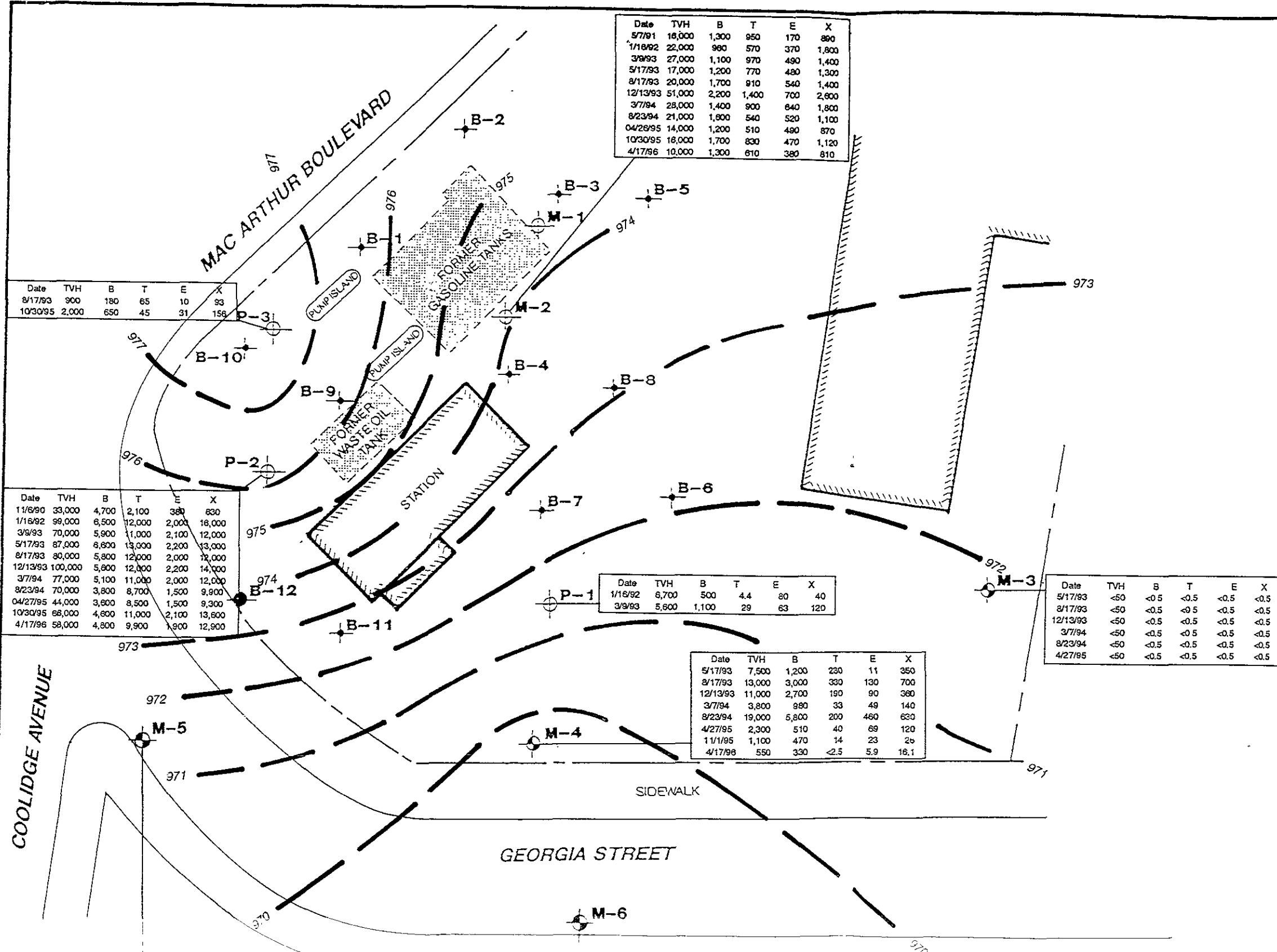
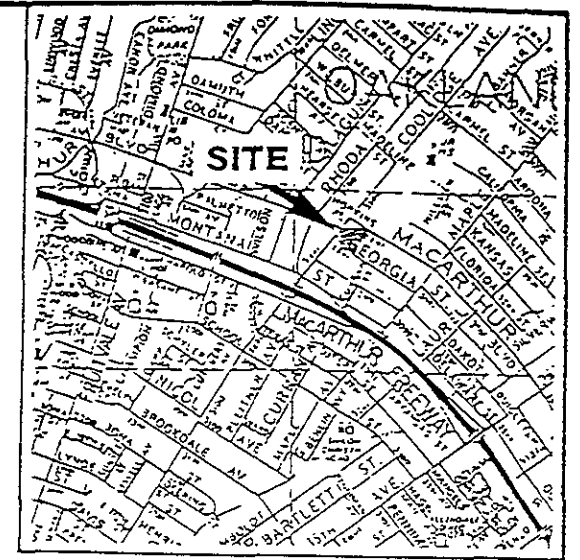
| Date | TVH | B | T | E | X |
|---------|-------|-------|-----|----|-----|
| 1/18/92 | 6,700 | 500 | 4.4 | 80 | 40 |
| 3/9/93 | 5,600 | 1,100 | 29 | 63 | 120 |

| Date | TVH | B | T | E | X |
|----------|-----|------|------|------|------|
| 5/17/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 8/17/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 12/13/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 3/7/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 8/23/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4/27/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

| Date | TVH | B | T | E | X |
|----------|--------|-------|------|-----|------|
| 5/17/93 | 7,500 | 1,200 | 230 | 11 | 350 |
| 8/17/93 | 13,000 | 3,000 | 380 | 130 | 700 |
| 12/13/93 | 11,000 | 2,700 | 190 | 90 | 380 |
| 3/7/94 | 3,800 | 980 | 33 | 49 | 140 |
| 8/23/94 | 19,000 | 5,800 | 200 | 460 | 630 |
| 4/27/95 | 2,300 | 510 | 40 | 69 | 120 |
| 11/1/95 | 1,100 | 470 | 14 | 23 | 28 |
| 4/17/96 | 550 | 330 | <2.5 | 5.9 | 16.1 |

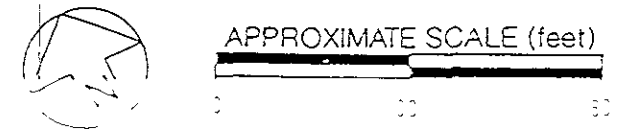
| Date | TVH | B | T | E | X |
|----------|-----|------|------|------|------|
| 8/20/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 04/27/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 11/1/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4/17/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

| Date | TVH | B | T | E | X |
|----------|------|------|------|------|-----|
| 12/11/94 | 0650 | 0-0 | 27 | 05 | 210 |
| 04/25/95 | 150 | 93 | <0.5 | 5.9 | 1.7 |
| 11/1/95 | 170 | 0.8 | <0.5 | <0.5 | 0.3 |
| 4/17/96 | 450 | <0.5 | <0.5 | <0.5 | - |



● TEST BORING BY SCI
 ○ MONITORING WELL BY SCI
 ● TEST BORING BY OTHERS
 ○ MONITORING WELL BY OTHERS
 [Hatched Box] FORMER EXCAVATION
 - - - PROPERTY BOUNDARY
 [Hatched Line] EXISTING BUILDING
 - - - GROUNDWATER SURFACE ELEVATION CONTOURS APRIL 1996

| | |
|-----|------------------------------------|
| TVH | TOTAL VOLATILE HYDROCARBONS (µg/l) |
| B | BENZENE (µg/l) |
| T | TOLUENE (µg/l) |
| E | ETHYLBENZENE (µg/l) |
| X | TOTAL XYLENES (µg/l) |



SITE PLAN

3501 MAC ARTHUR BLVD - OAKLAND, CA

JOB NUMBER: 895 003 DATE: 2.8.98 APPROVED: [Signature]

PLATE 1

Subsurface Consultants

WELL SAMPLING FORM

Project Name: APA FUND Well Number: P-2
Job No.: 838.003 Well Casing Diameter: 2 inch
Sampled By: DWA Date: 4/15/96
TOC Elevation: _____ Weather: partly cloudy

Depth to Casing Bottom (below TOC) 42.00 feet
Depth to Groundwater (below TOC) 21.33 feet
Feet of Water in Well 20.67 feet
Depth to Groundwater When 80% Recovered 25.44 feet
Casing Volume (feet of water x Casing DIA² x 0.0408) 3.4 gallons
Depth Measurement Method Tape & Paste / Electronic Sounder / Other
Free Product none
Purge Method disposable bailer

FIELD MEASUREMENTS

| Gallons Removed | pH | Temp (°c) | Conductivity (micromhos/cm) | Salinity S% | Comments |
|-----------------|--------------|-------------|-----------------------------|-------------|------------------------------------------------------|
| <u>2</u> | <u>10.80</u> | <u>65.4</u> | <u>537</u> | _____ | <u>clear/strong odor</u> <u>spotty sheen</u> ↓ |
| <u>4</u> | <u>10.86</u> | <u>65.6</u> | <u>518</u> | _____ | |
| <u>6</u> | <u>10.41</u> | <u>65.3</u> | <u>469</u> | _____ | |
| <u>8</u> | <u>10.07</u> | <u>65.7</u> | <u>438</u> | _____ | |
| <u>10</u> | <u>10.32</u> | <u>66.4</u> | <u>511</u> | _____ | |

Total Gallons Purged 10 gallons
Depth to Groundwater Before Sampling (below TOC) 22.70 on 4/17/96 @ 0730 feet
Sampling Method disposable bailer
Containers Used 3
40 ml liter pint

| | | | | |
|------------------------|------------|------|----------|-------|
| Subsurface Consultants | JOB NUMBER | DATE | APPROVED | PLATE |
| | | | | |

WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-2
 Job No.: 838.003 Well Casing Diameter: 2 inch
 Sampled By: DWA Date: 4/15/96
 TOC Elevation: _____ Weather: partly cloudy

Depth to Casing Bottom (below TOC) 45.00 feet
 Depth to Groundwater (below TOC) 25.57 feet
 Feet of Water in Well 19.43 feet
 Depth to Groundwater When 80% Recovered 29.46 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 32 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product none
 Purge Method disposable bailer

moderate/slow recharge

FIELD MEASUREMENTS

| Gallons Removed | pH | F Temp (°C) | Conductivity (micromhos/cm) | Salinity S% | Comments |
|-----------------|-------------|----------------|--------------------------------|-------------|--------------------------|
| <u>2</u> | <u>7.70</u> | <u>66.4</u> | <u>802</u> | _____ | <u>clear/strong odor</u> |
| <u>4</u> | <u>7.60</u> | <u>66.2</u> | <u>806</u> | _____ | <u>spotty sheen</u> |
| <u>6</u> | <u>7.61</u> | <u>65.8</u> | <u>786</u> | _____ | ↓ |
| <u>8</u> | <u>7.37</u> | <u>66.5</u> | <u>784</u> | _____ | ↓ |
| <u>10</u> | <u>7.34</u> | <u>66.5</u> | <u>794</u> | _____ | <u>mucky</u> |

Total Gallons Purged 10 gallons
 Depth to Groundwater Before Sampling (below TOC) 25.57 on 4/17/96 @ 0745 feet
 Sampling Method disposable bailer
 Containers Used 3 _____ liter _____ pint
 40 ml

| | | | |
|----------------------------------------------------|------------|------|----------|
| <h1 style="margin: 0;">Subsurface Consultants</h1> | | | PLATE |
| | JOB NUMBER | DATE | APPROVED |

WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-4
 Job No.: 838.003 Well Casing Diameter: 2 inch
 Sampled By: DWA Date: 4/15/96
 TOC Elevation: _____ Weather: partly cloudy

Depth to Casing Bottom (below TOC) 45.00 feet
 Depth to Groundwater (below TOC) 30.09 feet
 Feet of Water in Well 14.91 feet
 Depth to Groundwater When 80% Recovered 33.07 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 2.5 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product none
 Purge Method disposable bailer

slow recharge

FIELD MEASUREMENTS

| Gallons Removed | pH | Temp (°F) | Conductivity (micromhos/cm) | Salinity S% | Comments |
|-----------------|-------------|-------------|-----------------------------|-------------|-------------------------------|
| <u>2</u> | <u>8.69</u> | <u>68.2</u> | <u>305</u> | _____ | <u>semi-clear/slight odor</u> |
| <u>4</u> | <u>8.52</u> | <u>67.9</u> | <u>260</u> | _____ | <u>clear</u> |
| <u>6</u> | <u>8.32</u> | <u>66.2</u> | <u>250</u> | _____ | ↓ |
| <u>8</u> | <u>7.93</u> | <u>66.0</u> | <u>447</u> | _____ | <u>increasing odor</u> |

Total Gallons Purged 8 gallons
 Depth to Groundwater Before Sampling (below TOC) 33.41 on 4/17/96 @ 0830 feet
 Sampling Method disposable bailer
 Containers Used 3 _____ _____
 40 ml liter pint

Subsurface Consultants

JOB NUMBER

DATE

APPROVED

PLATE

WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-5
 Job No.: 838.003 Well Casing Diameter: 2 inch
 Sampled By: DWA Date: 4/15/96
 TOC Elevation: _____ Weather: partly cloudy

Depth to Casing Bottom (below TOC) 37.50 feet
 Depth to Groundwater (below TOC) 21.72 feet
 Feet of Water in Well 15.78 feet
 Depth to Groundwater When 80% Recovered 24.88 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 2.6 gallons
 Depth Measurement Method Tape & Paste / **Electronic Sounder** / Other
 Free Product none
 Purge Method disposable bailer

slow recharge overnight

FIELD MEASUREMENTS

| Gallons Removed | pH | Temp (°F) | Conductivity (micromhos/cm) | Salinity S% | Comments |
|-----------------|-------------|-------------|-----------------------------|-------------|------------------------|
| <u>2</u> | <u>8.20</u> | <u>65.9</u> | <u>524</u> | | <u>clean / no odor</u> |
| <u>4</u> | <u>7.87</u> | <u>66.1</u> | <u>517</u> | | ↓ |
| <u>6</u> | <u>7.48</u> | <u>65.5</u> | <u>545</u> | | |
| <u>8</u> | <u>7.47</u> | <u>64.7</u> | <u>521</u> | | |
| _____ | _____ | _____ | _____ | | |

Total Gallons Purged 8 gallons
 Depth to Groundwater Before Sampling (below TOC) 24.96 on 4/17/96 @ 0815 feet
 Sampling Method disposable bailer
 Containers Used 3
 40 ml liter pint

| | | | | |
|-------------------------------|--------------------------------------------|--|--|-------|
| Subsurface Consultants | JOB NUMBER _____ DATE _____ APPROVED _____ | | | PLATE |
| | | | | |

WELL SAMPLING FORM

Project Name: APA FUND Well Number: M-6
 Job No.: 838.003 Well Casing Diameter: 2 inch
 Sampled By: DWA Date: 4/15/96
 TOC Elevation: _____ Weather: partly cloudy

Depth to Casing Bottom (below TOC) 47.00 feet
 Depth to Groundwater (below TOC) 28.50 feet
 Feet of Water in Well 18.50 feet
 Depth to Groundwater When 80% Recovered 32.20 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 3.0 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product none
 Purge Method disposable bailer

FIELD MEASUREMENTS

very slow recharge (overnight)

| Gallons Removed | pH | F Temp (°F) | Conductivity (micromhos/cm) | Salinity S% | Comments |
|-----------------|-------------|----------------|--------------------------------|-------------|-------------------------------------------------|
| <u>2</u> | <u>8.73</u> | <u>68.5</u> | <u>1030</u> | | <u>clear / no odor / ^{orange} tint</u> |
| <u>4</u> | <u>8.38</u> | <u>68.3</u> | <u>506</u> | | |
| <u>6</u> | <u>8.24</u> | <u>67.3</u> | <u>440</u> | | <u>Decreasing tint faint odor</u> |
| <u>8</u> | <u>8.09</u> | <u>66.9</u> | <u>467</u> | | |
| <u>10</u> | <u>8.03</u> | <u>67.4</u> | <u>512</u> | | ↓ |

Total Gallons Purged 10 gallons
 Depth to Groundwater Before Sampling (below TOC) 33.10' on 4/17/96 @ 0800 feet
 Sampling Method disposable bailer
 Containers Used 3 _____
 40 ml liter pint

Subsurface Consultants

JOB NUMBER

DATE

APPROVED

PLATE



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 25-APR-96
Lab Job Number: 125232
Project ID: 838.003
Location: APA Fund

Reviewed by: _____

Reviewed by: _____

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TVH-Total Volatile Hydrocarbons

Client: Subsurface Consultants
Project#: 838.003
Location: APA Fund

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

| Sample # | Client ID | Batch # | Sampled | Extracted | Analyzed | Moisture |
|------------|-----------|---------|----------|-----------|----------|----------|
| 125232-001 | P-2 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-002 | M-2 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-003 | M-4 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-004 | M-5 | 27180 | 04/17/96 | 04/23/96 | 04/23/96 | |

| Analyte | Units | 125232-001 | 125232-002 | 125232-003 | 125232-004 |
|------------------|-------|------------|------------|------------|------------|
| Diln Fac: | | 100 | 10 | 5 | 1 |
| Gasoline | ug/L | 58000 | 10000 | 550 Y | <50 |
| Surrogate | | | | | |
| Trifluorotoluene | %REC | 98 | 99 | 96 | 96 |
| Bromobenzene | %REC | 91 | 99 | 84 | 82 |

Y: Sample exhibits fuel pattern which does not resemble standard



TVH-Total Volatile Hydrocarbons

Client: Subsurface Consultants
Project#: 838.003
Location: APA Fund

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

| Sample # | Client ID | Batch # | Sampled | Extracted | Analyzed | Moisture |
|------------|-----------|---------|----------|-----------|----------|----------|
| 125232-005 | M-6 | 27180 | 04/17/96 | 04/23/96 | 04/23/96 | |

| | | |
|------------------|-------|------------|
| Analyte | Units | 125232-005 |
| Diln Fac: | | 1 |
| Gasoline | ug/L | <50 |
| Surrogate | | |
| Trifluorotoluene | %REC | 96 |
| Bromobenzene | %REC | 84 |



BTXE

Client: Subsurface Consultants
Project#: 838.003
Location: APA Fund

Analysis Method: EPA 8020
Prep Method: EPA 5030

| Sample # | Client ID | Batch # | Sampled | Extracted | Analyzed | Moisture |
|------------|-----------|---------|----------|-----------|----------|----------|
| 125232-001 | P-2 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-002 | M-2 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-003 | M-4 | 27180 | 04/17/96 | 04/24/96 | 04/24/96 | |
| 125232-004 | M-5 | 27180 | 04/17/96 | 04/23/96 | 04/23/96 | |

| Analyte | Units | 125232-001 | 125232-002 | 125232-003 | 125232-004 |
|------------------|-------|------------|------------|------------|------------|
| Diln Fac: | | 100 | 10 | 5 | 1 |
| Benzene | ug/L | 4800 | 1300 | 330 | <0.5 |
| Toluene | ug/L | 9900 | 610 | <2.5 | <0.5 |
| Ethylbenzene | ug/L | 1900 | 380 | 5.9 | <0.5 |
| m,p-Xylenes | ug/L | 8500 | 540 | 5.1C | <0.5 |
| o-Xylene | ug/L | 4400 | 270 | 11 | <0.5 |
| Surrogate | | | | | |
| Trifluorotoluene | %REC | 100 | 104 | 99 | 98 |
| Bromobenzene | %REC | 95 | 100 | 88 | 86 |

C: Presence of this compound confirmed by second column,
however, the confirmation concentration differed from the reported
result by more than a factor of two



BTXE

Client: Subsurface Consultants
Project#: 838.003
Location: APA Fund

Analysis Method: EPA 8020
Prep Method: EPA 5030

| Sample # | Client ID | Batch # | Sampled | Extracted | Analyzed | Moisture |
|------------|-----------|---------|----------|-----------|----------|----------|
| 125232-005 | M-6 | 27180 | 04/17/96 | 04/23/96 | 04/23/96 | |

| Analyte | Units | 125232-005 |
|--------------|-------|------------|
| Diln Fac: | | 1 |
| Benzene | ug/L | <0.5 |
| Toluene | ug/L | <0.5 |
| Ethylbenzene | ug/L | <0.5 |
| m,p-Xylenes | ug/L | <0.5 |
| o-Xylene | ug/L | 1 |

Surrogate

| | | |
|------------------|------|----|
| Trifluorotoluene | %REC | 99 |
| Bromobenzene | %REC | 88 |



Lab #: 125232

BATCH QC REPORT

Page 1 of 1

| TVH--Total Volatile Hydrocarbons | | | |
|----------------------------------|------------------------|------------------|---------------------|
| Client: | Subsurface Consultants | Analysis Method: | CA LUFT (EPA 8015M) |
| Project#: | 838.003 | Prep Method: | EPA 5030 |
| Location: | APA Fund | | |
| METHOD BLANK | | | |
| Matrix: | Water | Prep Date: | 04/23/96 |
| Batch#: | 27180 | Analysis Date: | 04/23/96 |
| Units: | ug/L | | |
| Diln Fac: | 1 | | |

MB Lab ID: QC19999

| Analyte | Result | | |
|------------------|--------|-----------------|--|
| Gasoline | <50 | | |
| Surrogate | %Rec | Recovery Limits | |
| Trifluorotoluene | 95 | 69-120 | |
| Bromobenzene | 78 | 70-122 | |

Lab #: 125232

BATCH QC REPORT

Page 1 of 1

| BTXE | | | |
|--------------|------------------------|------------------|----------|
| Client: | Subsurface Consultants | Analysis Method: | EPA 8020 |
| Project#: | 838.003 | Prep Method: | EPA 5030 |
| Location: | APA Fund | | |
| METHOD BLANK | | | |
| Matrix: | Water | Prep Date: | 04/23/96 |
| Batch#: | 27180 | Analysis Date: | 04/23/96 |
| Units: | ug/L | | |
| Diln Fac: | 1 | | |

MB Lab ID: QC19999

| Analyte | Result | |
|------------------|--------|-----------------|
| Benzene | <0.5 | |
| Toluene | <0.5 | |
| Ethylbenzene | <0.5 | |
| m,p-Xylenes | <0.5 | |
| o-Xylene | <0.5 | |
| Surrogate | %Rec | Recovery Limits |
| Trifluorotoluene | 98 | 58-130 |
| Bromobenzene | 82 | 62-131 |



Lab #: 125232

BATCH QC REPORT

| TVH-Total Volatile Hydrocarbons | | | |
|---------------------------------|--------------------------------------|----------|--|
| Client: Subsurface Consultants | Analysis Method: CA LUFT (EPA 8015M) | | |
| Project#: 838.003 | Prep Method: EPA 5030 | | |
| Location: APA Fund | | | |
| LABORATORY CONTROL SAMPLE | | | |
| Matrix: Water | Prep Date: | 04/23/96 | |
| Batch#: 27180 | Analysis Date: | 04/23/96 | |
| Units: ug/L | | | |
| Diln Fac: 1 | | | |

LCS Lab ID: QC20000

| Analyte | Result | Spike Added | %Rec # | Limits |
|------------------|--------|-------------|--------|--------|
| Gasoline | 1893 | 2000 | 95 | 80-120 |
| Surrogate | %Rec | Limits | | |
| Trifluorotoluene | 102 | 69-120 | | |
| Bromobenzene | 96 | 70-122 | | |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

Lab #: 125232

BATCH QC REPORT

Page 1 of 1

| BTXE | |
|--------------------------------|---------------------------|
| Client: Subsurface Consultants | Analysis Method: EPA 8020 |
| Project#: 838.003 | Prep Method: EPA 5030 |
| Location: APA Fund | |
| LABORATORY CONTROL SAMPLE | |
| Matrix: Water | Prep Date: 04/23/96 |
| Batch#: 27180 | Analysis Date: 04/23/96 |
| Units: ug/L | |
| Diln Fac: 1 | |

LCS Lab ID: QC20001

| Analyte | Result | Spike Added | %Rec # | Limits |
|------------------|--------|-------------|--------|--------|
| Benzene | 21.6 | 20 | 108 | 80-120 |
| Toluene | 24 | 20 | 120 | 80-120 |
| Ethylbenzene | 22.2 | 20 | 111 | 80-120 |
| m,p-Xylenes | 45.1 | 40 | 113 | 80-120 |
| o-Xylene | 23.2 | 20 | 116 | 80-120 |
| Surrogate | %Rec | Limits | | |
| Trifluorotoluene | 100 | 58-130 | | |
| Bromobenzene | 87 | 62-131 | | |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 125232

BATCH QC REPORT

Page 1 of 1

| BTXE | |
|-------------------------------------|---------------------------|
| Client: Subsurface Consultants | Analysis Method: EPA 8020 |
| Project#: 838.003 | Prep Method: EPA 5030 |
| Location: APA Fund | |
| MATRIX SPIKE/MATRIX SPIKE DUPLICATE | |
| Field ID: ZZZZZZ | Sample Date: 04/19/96 |
| Lab ID: 125258-004 | Received Date: 04/19/96 |
| Matrix: Water | Prep Date: 04/23/96 |
| Batch#: 27180 | Analysis Date: 04/23/96 |
| Units: ug/L | |
| Diln Fac: 1 | |

MS Lab ID: QC20002

| Analyte | Spike Added | Sample | MS | %Rec # | Limits |
|------------------|-------------|---------|------|--------|--------|
| Benzene | 20 | <0.5000 | 21.3 | 106 | 75-125 |
| Toluene | 20 | <0.5000 | 22.7 | 114 | 75-125 |
| Ethylbenzene | 20 | <0.5000 | 21.7 | 108 | 75-125 |
| m,p-Xylenes | 40 | <0.5000 | 44.2 | 110 | 75-125 |
| o-Xylene | 20 | <0.5000 | 22.7 | 114 | 75-125 |
| Surrogate | %Rec | Limits | | | |
| Trifluorotoluene | 99 | 58-130 | | | |
| Bromobenzene | 87 | 62-131 | | | |

MSD Lab ID: QC20003

| Analyte | Spike Added | MSD | %Rec # | Limits | RPD # | Limit |
|------------------|-------------|--------|--------|--------|-------|-------|
| Benzene | 20 | 21.6 | 108 | 75-125 | 1 | <20 |
| Toluene | 20 | 22.9 | 114 | 75-125 | 1 | <20 |
| Ethylbenzene | 20 | 22.1 | 110 | 75-125 | 2 | <20 |
| m,p-Xylenes | 40 | 44.5 | 111 | 75-125 | 1 | <20 |
| o-Xylene | 20 | 23 | 115 | 75-125 | 1 | <20 |
| Surrogate | %Rec | Limits | | | | |
| Trifluorotoluene | 99 | 58-130 | | | | |
| Bromobenzene | 87 | 62-131 | | | | |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

CHAIN OF CUSTODY FORM

125232

PAGE _____ OF _____

PROJECT NAME: APA Fund
 JOB NUMBER: 838.003 LAB: Curtis + Tompkins
 PROJECT CONTACT: Jeri Alexander TURNAROUND: Normal
 SAMPLED BY: Dennis Alexander REQUESTED BY: Jeri Alexander

| ANALYSIS REQUESTED | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
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| LABORATORY I.D. NUMBER | SCI SAMPLE NUMBER | MATRIX | | | | CONTAINERS | | | | METHOD PRESERVED | | | | | SAMPLING DATE | | | | NOTES |
|------------------------|-------------------|--------|------|-------|-----|------------|-------|------|------|------------------|-------|------|-----|------|---------------|-----|------|-------|-------|
| | | WATER | SOIL | WASTE | AIR | VOA | LITER | PINT | TUBE | HCL | H2SO4 | HNO3 | ICE | NONE | MONTH | DAY | YEAR | TIME | |
| 1 | P-2 | X | | | | 3 | | | | X | | | X | | 04 | 17 | 96 | 07:30 | |
| 2 | M-2 | X | | | | 3 | | | | X | | | X | | | | | 07:45 | |
| 3 | M-4 | X | | | | 3 | | | | X | | | X | | | | | 08:30 | |
| 4 | M-5 | X | | | | 3 | | | | X | | | X | | | | | 08:15 | |
| 5 | M-6 | X | | | | 3 | | | | X | | | X | | 04 | 17 | 96 | 08:00 | |

| CHAIN OF CUSTODY RECORD | | | | COMMENTS & NOTES: |
|-----------------------------------------------------|-----------------------------------|------------------------------------------------------|--------------------------------|-------------------|
| RELEASED BY: (Signature) <i>Dennis Alexander</i> | DATE / TIME 4/17/96 1:50 PM | RECEIVED BY: (Signature) <i>Curtis + Tompkins</i> | DATE / TIME 4-17-96 1:50 | |
| RELEASED BY: (Signature) | DATE / TIME | RECEIVED BY: (Signature) | DATE / TIME | |
| RELEASED BY: (Signature) | DATE / TIME | RECEIVED BY: (Signature) | DATE / TIME | |
| RELEASED BY: (Signature) | DATE / TIME | RECEIVED BY: (Signature) | DATE / TIME | |

Subsurface Consultants, Inc.
 171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
 (510) 268-0461 • FAX: 510-268-0137