Texaco Refining
and Marketing Inc

ALCO
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January 14, 1994

ENV - STUDIES, SURVEYS, & REPORTS
Exxon Service Station/Former Texaco Service Station
2200 E. 12th St., Oakland, CA

Mr. Richard Hiett
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Dear Mr. Hiett:

Enclosed please find the Quarterly Groundwater Monitoring Report, dated January 4, 1994, for the subject site.

If you have any questions, I can be contacted at (510) 236-9139.

Best Regards,

Karen E. Petryna
Environmental Project Coordinator
Texaco Environmental Services

KEP:eg
2200 A:\2200QCVR.RH

Enclosure

cc: Mr. Thomas Peacock - Alameda County Environmental Health Department
Mr. E. E. Villasenor - Exxon Company U.S.A.

RACoughlin-RRZielinski (w/o enclosure)

PR: RD

RESNA
Working To Restore Nature

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

# LETTER REPORT
# GROUNDWATER MONITORING AND SAMPLING
Fourth Quarter 1993
at
Former Texaco Station
2200 East 12th Street
Oakland, California

62079.01

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3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

January 4, 1994
62079.01

Ms. Karen Petryna
Texaco Environmental Services
108 Cutting Boulevard
Richmond, California 94804

Subject: Groundwater Monitoring and Sampling, Fourth Quarter 1993, Former Texaco Station, 2200 East 12th Street, Oakland, California.

Ms. Petryna:

At the request of Texaco Environmental Services (TES), RESNA Industries Inc. (RESNA) has prepared this letter report which summarizes the results of quarterly groundwater monitoring at the former Texaco Service Station located at 2200 East 12th Street in Oakland, California (Plate 1, Site Vicinity Map) for the fourth quarter 1993 (October through December 1993). On November 4 and 5, 1993, quarterly groundwater monitoring and sampling was conducted to evaluate groundwater elevations, gradient and flow direction, the presence and thickness of any petroleum hydrocarbon sheen or floating product, and the distribution of dissolved hydrocarbons in 8 monitoring wells (MW-9A, MW-9B, MW-9C, MW-9D, MW-9F, MW-9G, MW-9H, and MW-9I) associated with this site. RESNA's groundwater sampling protocol and well purge data sheets are in Appendix A.

## GROUNDWATER MONITORING

Relative to groundwater elevations reported last quarter (August 26, 1993), elevations at the site decreased an average of 0.07 foot in wells MW-9A, MW-9C, MW-9D, MW-9F, MW-9G, MW-9H, and MW-9I, and increased 0.05 foot in well MW-9B. The Groundwater Gradient Map (Plate 2) shows the groundwater beneath the site to be flowing towards the northwest with a hydraulic gradient of approximately 0.02. Neither floating product nor hydrocarbon sheen was observed in the wells. Historical and recent monitoring data are summarized in Table 1, Cumulative Groundwater Monitoring Data.

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Fourth Quarter 1993 Quarterly Report
2200 East 12th Street, Oakland, California.

January 4, 1994
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## GROUNDWATER SAMPLING

Groundwater samples were submitted to Mobile Chem Laboratories (California Hazardous Materials Testing Laboratory Certification No. 1223) in Martinez, California under chain of custody protocol. The samples were analyzed for the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes, and total petroleum hydrocarbons as gasoline (TPHg) using modified Environmental Protection Agency Methods 5030 and TPH LUFT with Method 602. The Laboratory Analysis Reports and Chain of Custody Documentation are included in Appendix B.

## GROUNDWATER ANALYTICAL RESULTS

Concentrations of TPHg in groundwater samples collected were less than the method detection limit [MDL]) of 50 parts per billion (ppb) in all wells sampled except in MW-9B (98 ppb). Dissolved benzene concentrations in groundwater samples collected were less than 0.5 ppb (below the MDL) in all wells sampled except in MW-9B (13 ppb). Historical and recent analytical data are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples.

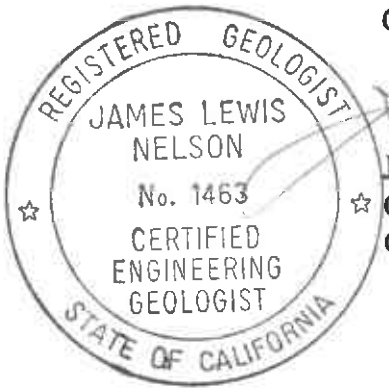
## PURGE WATER RECYCLING

On November 12, 1993, approximately 135 gallons of purge water generated during purging and sampling of the eight monitoring wells were transported to Onyx Environmental in Redwood City, California for recycling.

If you have any questions or comments regarding this report, please call (408) 264-7723.

Sincerely,
RESNA Industries Inc.

Robin A. Adair
Geologic Technician




James L. Nelson
Certified Engineering
Geologist No. 1463

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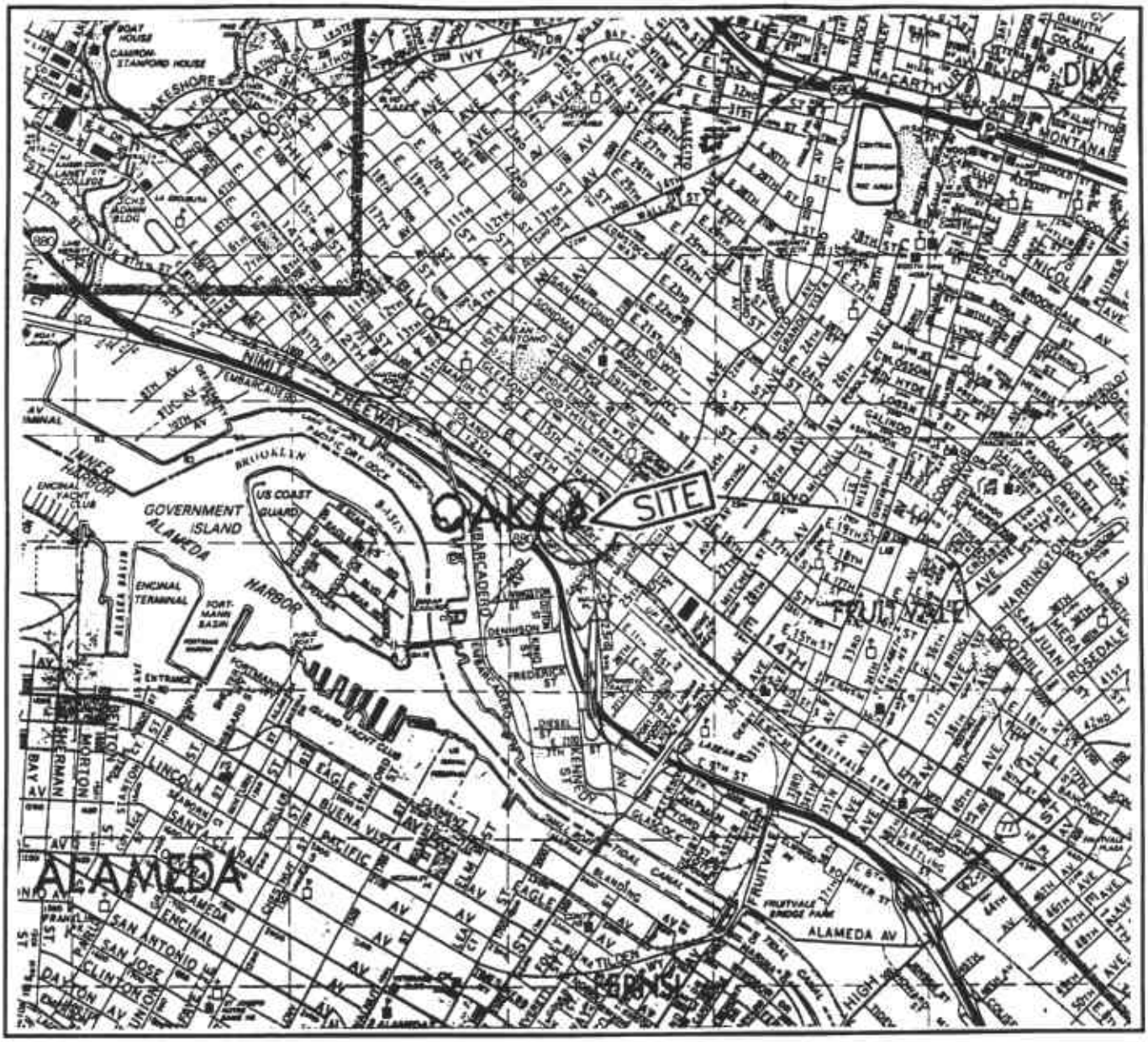
Fourth Quarter 1993 Quarterly Report
2200 East 12th Street, Oakland, California.

January 4, 1994
62079.01

Enclosures:

| | |
|---|---|
| Plate 1: | Site Vicinity Map |
| Plate 2: | Groundwater Gradient Map |
| Plate 3: | TPHg/Benzene Concentration in Groundwater |
| Table 1: | Cumulative Groundwater Monitoring Data |
| Table 2: | Cumulative Results of Laboratory Analyses of Groundwater Samples |
| Appendix A, | Groundwater Sampling Protocol and Well Purge Data Sheets |
| Appendix B, | Laboratory Analysis Reports and Chain of Custody Documentation |




Base: The Thomas Guide
Alameda County
Oakland, California.
1991

N

LEGEND

⊙ = Site Location

Approximate Scale

2200 1100 0 2200 4400

feet

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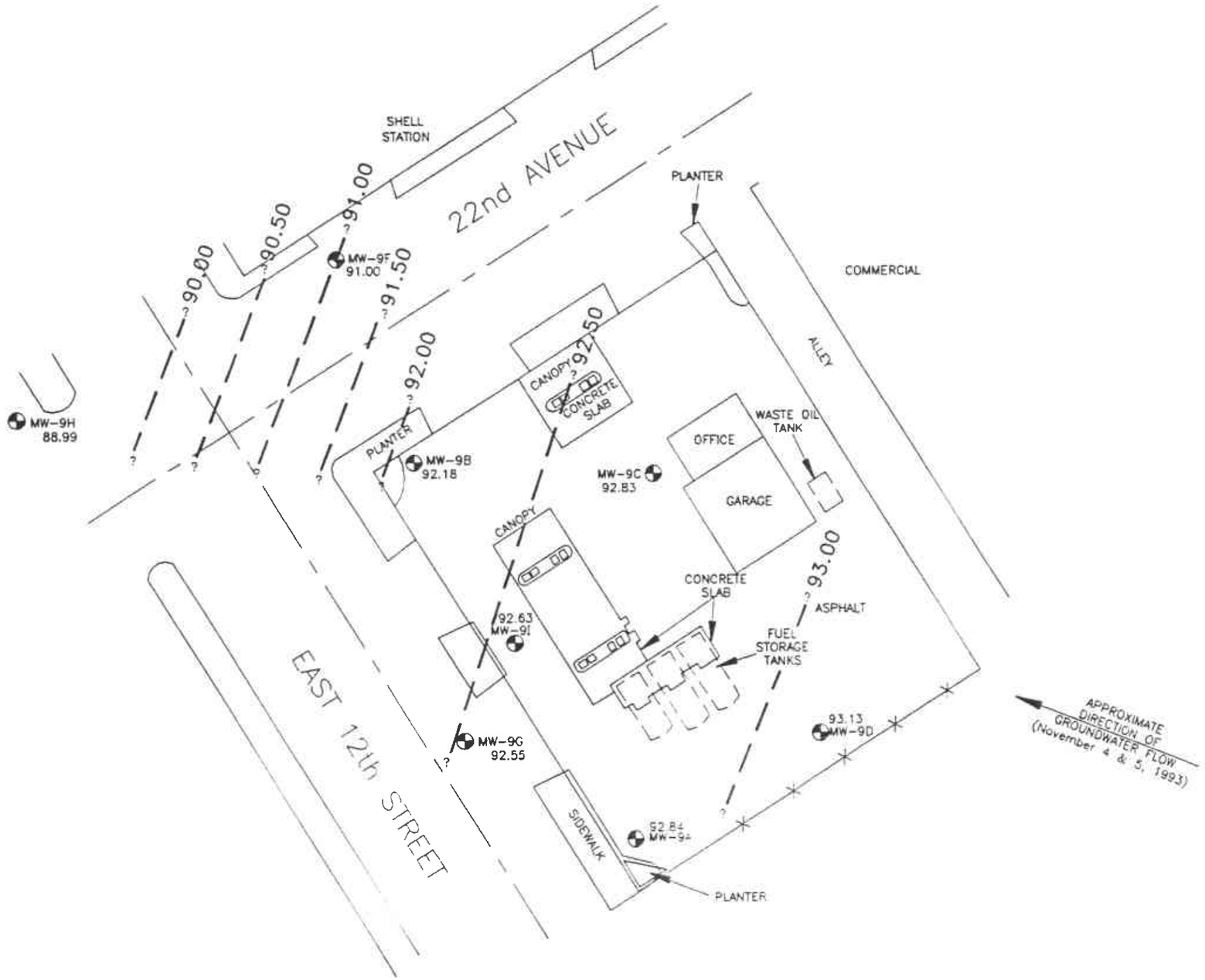
PROJECT 62079.01

**SITE VICINITY MAP**
**Former Texaco Station**
**2200 East 12th Street**
**Oakland, California**

**PLATE**
**1**




EXPLANATION

MW-9I ⊕ = Monitoring well (1988)

93.00 — = Line of equal elevation of groundwater in feet relative to an arbitrary benchmark

93.13 = Elevation of groundwater in feet relative to an arbitrary benchmark, November 4 & 5, 1993

N

Approximate Scale

30 15 0 30 60

feet

Source: Modified from site plan provided by Harding Lawson Associates, dated July 20, 1992.

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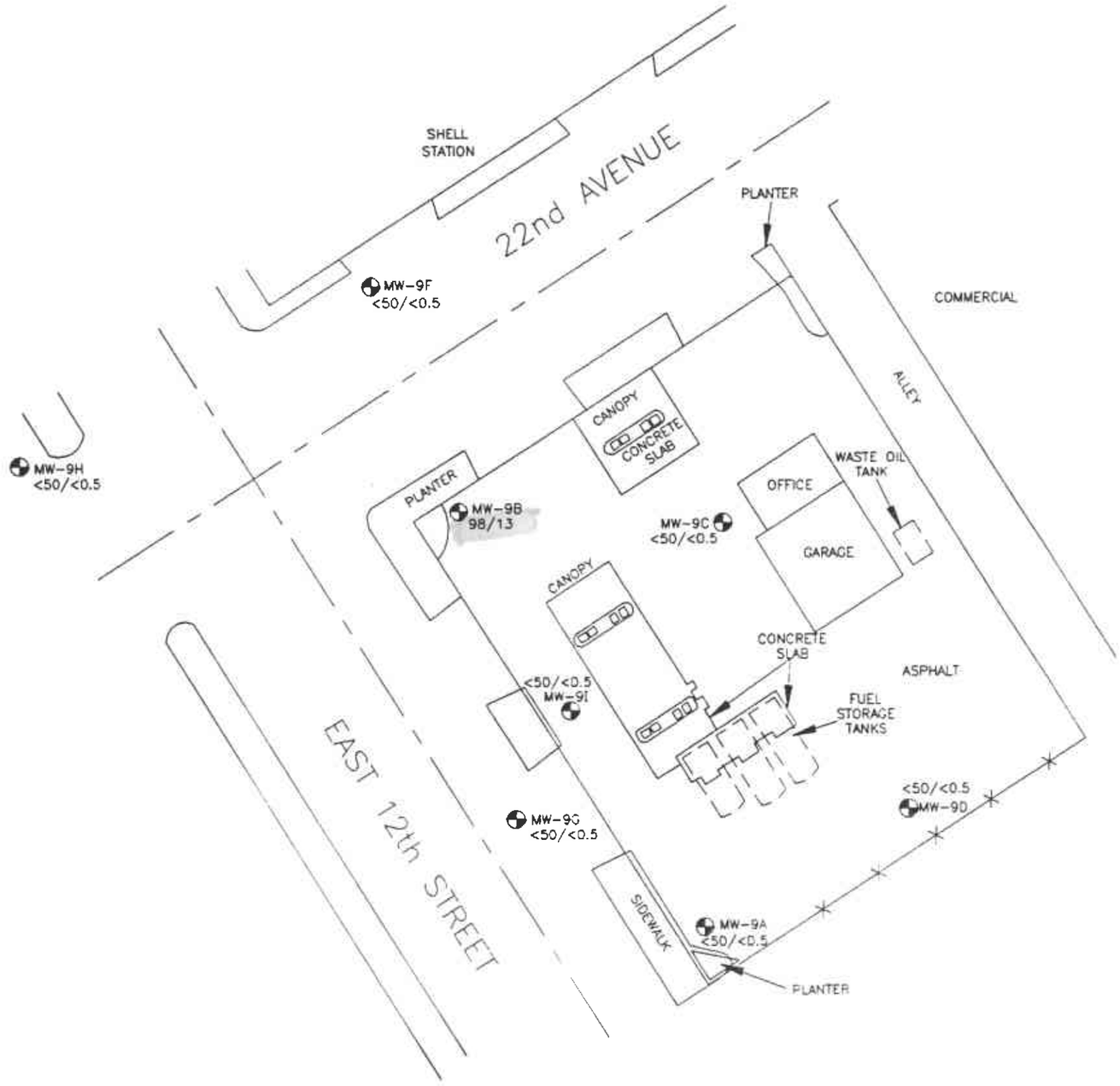
GROUNDWATER GRADIENT MAP
Former Texaco Station
2200 East 12th Street
Oakland, California

PLATE 2




EXPLANATION

MW-9I ⊕ = Monitoring well (1988)

98/13 = Concentration of TPHg/benzene in groundwater in parts per billion, November 4 and 5, 1993

N

Approximate Scale

30 15 0 30 60

feet

Source: Modified from site plan provided by Harding Lawson Associates, dated July 20, 1992.

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PROJECT 62079.01 6207904

**TPHg/BENZENE CONCENTRATION IN GROUNDWATER**
**Former Texaco Station**
**2200 East 12th Street**
**Oakland, California**

PLATE 3

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 1 of 4)

| Well | Date | Wellhead Elevation* | Depth to Water | Groundwater Elevation* |
|---|---|---|---|---|
| MW-9A | | | | |
| HLA | 10/12/89 | 100.07 | 7.25 | 92.82 |
| | 09/20/90 | | NA | NA |
| | 10/19/90 | | 7.23 | 92.84 |
| | 01/11/91 | | 6.96 | 93.11 |
| | 04/30/91 | | 6.74 | 93.33 |
| | 07/29/91 | | 7.22 | 92.85 |
| | 10/25/91 | | 7.49 | 92.58 |
| | 02/05/92 | | 6.93 | 93.14 |
| | 05/05/92 | | 6.95 | 93.12 |
| RESNA | 09/14/92 | | 7.65 | 92.42 |
| | 11/16/92 | | 7.35 | 92.72 |
| | 02/03/93 | | 7.85 | 92.22 |
| | 05/18/93 | | 6.95 | 93.12 |
| | 08/26/93 | | 7.14 | 92.93 |
| | 11/04/93 | | 7.23 | 92.84 |
| MW-9B | | | | |
| HLA | 10/12/89 | 98.41 | 6.14 | 92.27 |
| | 09/20/90 | | 6.28 | 92.13 |
| | 10/19/90 | | 6.21 | 92.20 |
| | 01/11/91 | | 6.21 | 92.20 |
| | 04/30/91 | | 5.74 | 92.67 |
| | 07/29/91 | | 6.23 | 92.18 |
| | 10/25/91 | | 6.42 | 91.99 |
| | 02/05/92 | | 5.95 | 92.46 |
| | 05/05/92 | | 5.92 | 92.49 |
| RESNA | 09/14/92 | | 6.60 | 91.81 |
| | 11/16/92 | | 6.35 | 92.06 |
| | 02/03/93 | | 6.50 | 91.91 |
| | 05/18/93 | | 6.42 | 91.99 |
| | 08/26/93 | | 6.28 | 92.13 |
| | 11/04/93 | | 6.23 | 92.18 |
| MW-9C | | | | |
| HLA | 10/12/89 | 99.73 | 6.99 | 92.74 |
| | 09/20/90 | | NA | NA |
| | 10/19/90 | | 6.96 | 92.77 |
| | 01/11/91 | | 6.60 | 93.13 |
| | 04/30/91 | | 6.32 | 93.41 |
| | 07/29/91 | | 6.92 | 92.81 |
| | 10/25/91 | | 7.13 | 92.60 |
| | 02/05/92 | | 6.44 | 93.29 |
| | 05/05/92 | | 6.50 | 93.23 |
| RESNA | 09/14/92 | | 7.00 | 92.73 |

See notes on page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 2 of 4)

| Well | Date | Wellhead Elevation* | Depth to Water | Groundwater Elevation* |
|---|---|---|---|---|
| MW-9C Cont. | | | | |
| | 11/16/92 | | 6.72 | 93.01 |
| | 02/03/93 | | 5.75 | 93.98 |
| | 05/18/93 | | 6.72 | 93.01 |
| | 08/26/93 | | 6.84 | 92.89 |
| | 11/04/93 | | 6.90 | 92.83 |
| MW-9D | | | | |
| HLA | 10/12/89 | 101.46 | 8.40 | 93.06 |
| | 09/20/90 | | 8.47 | 92.99 |
| | 10/19/90 | | 8.43 | 93.03 |
| | 01/11/91 | | 7.97 | 93.49 |
| | 04/30/91 | | | Well Inaccessible |
| | 07/29/91 | | 8.35 | 93.11 |
| | 10/25/91 | | 8.54 | 92.92 |
| | 02/05/92 | | 7.78 | 93.68 |
| | 05/05/92 | | 7.90 | 93.56 |
| RESNA | 09/14/92 | | 8.45 | 93.01 |
| | 11/16/92 | | 8.10 | 93.36 |
| | 02/03/93 | | 7.07 | 94.39 |
| | 05/18/93 | | 7.85 | 93.61 |
| | 08/26/93 | | 8.30 | 93.16 |
| | 11/04/93 | | 8.33 | 93.13 |
| MW-9E | | | | |
| HLA | 10/12/89 | 98.41 | 5.70 | 92.71 |
| | 09/20/90 | | 5.84 | 92.57 |
| | 10/19/90 | | 5.78 | 92.63 |
| | 11/02/90 | | | Well Abandoned |
| MW-9F | | | | |
| HLA | 10/12/89 | 96.96 | 6.07 | 90.89 |
| | 09/20/90 | | 5.97 | 90.99 |
| | 10/19/90 | | 5.94 | 91.02 |
| | 01/11/91 | | 5.72 | 91.24 |
| | 04/30/91 | | 5.74 | 91.22 |
| | 07/29/91 | | 6.02 | 90.94 |
| | 10/25/91 | | 6.11 | 90.85 |
| | 02/05/92 | | 5.81 | 91.15 |
| | 05/05/92 | | 5.86 | 91.10 |
| RESNA | 09/14/92 | | | Not Measured |
| | 11/16/92 | | 5.82 | 91.14 |
| | 02/03/93 | | 5.55 | 91.41 |
| | 05/18/93 | | 5.86 | 91.10 |
| | 08/26/93 | | 5.86 | 91.10 |
| | 11/05/93 | | 5.96 | 91.00 |

See notes on page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 3 of 4)

| Well | Date | Wellhead Elevation* | Depth to Water | Groundwater Elevation* |
|---|---|---|---|---|
| MW-9G | | | | |
| HLA | 10/12/89 | 98.51 | 6.01 | 92.50 |
| | 09/20/90 | | 6.03 | 92.48 |
| | 10/19/90 | | 5.92 | 92.59 |
| | 01/11/91 | | 5.72 | 92.79 |
| | 04/30/91 | | 5.74 | 93.04 |
| | 07/29/91 | | 5.97 | 92.54 |
| | 10/25/91 | | 6.16 | 92.35 |
| | 02/05/92 | | 5.59 | 92.92 |
| | 05/05/92 | | 5.60 | 92.91 |
| RESNA | 09/14/92 | | | Not Measured |
| | 11/16/92 | | 5.78 | 92.73 |
| | 02/03/93 | | 5.05 | 93.46 |
| | 05/18/93 | | 5.62 | 92.89 |
| | 08/26/93 | | 5.86 | 92.65 |
| | 11/05/93 | | 5.96 | 92.55 |
| MW-9H | | | | |
| HLA | 10/12/89 | 97.14 | 8.35 | 88.79 |
| | 09/20/90 | | 8.25 | 88.89 |
| | 10/19/90 | | 8.17 | 88.97 |
| | 01/11/91 | | 7.55 | 89.59 |
| | 04/30/91 | | 8.02 | 89.12 |
| | 07/29/91 | | 8.22 | 88.92 |
| | 10/25/91 | | 8.25 | 88.89 |
| | 02/05/92 | | 7.70 | 89.44 |
| | 05/05/92 | | 8.12 | 89.02 |
| RESNA | 09/14/92 | | | Not Measured |
| | 11/16/92 | | | Not Measured |
| | 02/03/93 | | 7.72 | 89.42 |
| | 05/18/93 | | 8.12 | 89.02 |
| | 08/26/93 | | 8.14 | 89.00 |
| | 11/05/93 | | 8.15 | 88.99 |
| MW-9I | | | | |
| HLA | 11/15/90 | 98.66 | 6.01 | 92.65 |
| | 01/11/91 | | 5.80 | 92.86 |
| | 04/30/91 | | 5.45 | 93.21 |
| | 07/29/91 | | 6.07 | 92.59 |
| | 10/25/91 | | 6.23 | 92.43 |
| | 02/05/92 | | 5.56 | 93.10 |
| | 05/05/92 | | 5.60 | 93.06 |
| RESNA | 09/14/92 | | 6.12 | 92.54 |
| | 11/16/92 | | 5.82 | 92.84 |

See notes on page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 4 of 4)

| Well | Date | Wellhead Elevation* | Depth to Water | Groundwater Elevation* |
|---|---|---|---|---|
| MW-9I Cont. | | | | |
| | 02/03/93 | | 4.92 | 93.74 |
| | 05/18/93 | | 5.60 | 93.06 |
| | 08/26/93 | | 5.91 | 92.75 |
| | 11/04/93 | | 6.03 | 92.63 |

Measurements in feet.
* : Elevation relative to temporary benchmark with an arbitrary elevation of 100.0 feet.
HLA : Monitoring by Harding Lawson Associates
RESNA : RESNA Industries Inc. began monitoring
RESNA assumes all wells are screened in the same hydrostratigraphic unit as identified by previous consultant.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 1 of 4)

| Well | Date | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPHg |
|---|---|---|---|---|---|---|
| MW-9A | | | | | | |
| HLA | 06/13/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/24/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | 1.1 | 1.8 | 0.6 | 1.3 | <50 |
| | 05/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| RESNA | 09/14/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/16/92 | 1.1 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/03/93 | 17 | 19 | 1.6 | 20 | 140 |
| | 05/18/93 | 0.8 | <0.5 | 1.3 | 7.0 | <50 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/04/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MW-9B | | | | | | |
| HLA | 06/13/88 | 350 | 7.8 | 66 | 160 | NA |
| | 10/24/88 | 84 | <1.0 | 3.1 | 3.2 | NA |
| | 10/13/89 | 4.1 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | 27 | <0.5 | 2.3 | <0.5 | 62 |
| | 01/11/91 | 4.3 | <0.5 | 1.1 | 1.0 | 100 |
| | 04/30/91 | 68 | 1.0 | 3.9 | <0.5 | 170 |
| | 07/29/91 | 1.6 | <0.5 | <0.5 | <0.5 | 100 |
| | 10/25/91 | 1.2 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | 14 | <0.5 | 2.9 | 2.5 | 60 |
| | 05/05/92 | 180 | 2.4 | 8.4 | 2.2 | 620 |
| RESNA | 09/14/92 | 9.6 | <0.5 | <0.5 | <0.5 | 110 |
| | 11/16/92 | 33 | <0.5 | 4.2 | 1.4 | 200 |
| | 02/03/93 | 320 | 13 | 35 | 110 | 12000 |
| | 05/18/93 | 1.1 | <0.5 | 2.6 | 5.9 | 180 |
| | 08/26/93 | 36 | <0.5 | 3.0 | 1.7 | 180 |
| | 11/04/93 | 13 | <0.5 | 1.4 | <0.5 | 98 |
| MW-9C | | | | | | |
| HLA | 06/13/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/28/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | 100 | 1.6 | <0.5 | <0.5 | 240 |

See notes on page 4 of 4.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 2 of 4)

| Well | Date | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPHg |
|---|---|---|---|---|---|---|
| MW-9C (cont.) | | | | | | |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| RESNA | 09/14/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/16/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/03/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/18/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/04/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MW-9D | | | | | | |
| HLA | 10/24/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| RESNA | 09/14/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/16/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/03/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/18/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/04/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MW-9E | | | | | | |
| HLA | 10/24/88 | 1.3 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | 15 | <0.5 | 2.1 | <3.0 | NA |
| | 10/19/90 | 4.0 | <0.5 | 0.9 | <0.5 | <50 |
| | 11/02/90 | Well Abandoned | | | | |
| MW-9F | | | | | | |
| HLA | 12/06/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | 1.1 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |

See notes on page 4 of 4.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 3 of 4)

| Well | Date | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPHg |
|---|---|---|---|---|---|---|
| MW-9F (cont.) | | | | | | |
| | 05/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| RESNA | 09/14/92 | | | Not Sampled | | |
| | 11/16/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/03/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/19/93 | <0.5 | <0.5 | 1.2 | 6.8 | <50 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/05/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MW-9G | | | | | | |
| HLA | 12/06/88 | 0.8 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/05/92 | 1.5 | 3.8 | 1.0 | 4.7 | <50 |
| RESNA | 09/14/92 | | | Not Sampled | | |
| | 11/16/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/03/93 | <0.5 | <0.5 | <0.5 | <0.5 | 64 |
| | 05/19/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/05/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MW-9H | | | | | | |
| HLA | 12/06/88 | <0.5 | <1.0 | <2.0 | <1.0 | NA |
| | 10/13/89 | <0.5 | <0.5 | <0.5 | <3.0 | NA |
| | 10/19/90 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 01/11/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | <0.5 | <0.5 | <0.5 | 0.5 | <50 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| RESNA | 09/14/92 | | | Not Sampled | | |
| | 11/16/92 | | | Not Sampled | | |
| | 02/03/93 | <0.5 | <0.5 | <0.5 | <0.5 | 280 |
| | 05/19/93 | <0.5 | <0.5 | 1.1 | 6.4 | <50 |
| | 08/26/93 | 0.8 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/05/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |

See notes on page 4 of 4.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Texaco Station
2200 East 12th Street
Oakland, California
(Page 4 of 4)

| Well | Date | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPHg |
|---|---|---|---|---|---|---|
| MW-9I | | | | | | |
| HLA | 11/15/90 | 4.0 | 1.2 | 1.1 | 2.2 | 55 |
| | 01/11/91 | 6.1 | <0.5 | <0.5 | <0.5 | <50 |
| | 04/30/91 | 100 | 3.5 | 4.2 | 4.4 | 460 |
| | 07/29/91 | <0.5 | <0.5 | <0.5 | <0.5 | 150 |
| | 10/25/91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/05/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 05/05/92 | 0.9 | <0.5 | <0.5 | 0.7 | <50 |
| RESNA | 09/14/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/16/92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 02/02/93 | 46 | 1.1 | 2.3 | 2.1 | 240 |
| | 05/18/93 | <0.5 | <0.5 | <0.5 | <0.5 | 79 |
| | 08/26/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| | 11/04/93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 |
| MCLs | | 1.0 | — | 680 | 1,750 | — |
| DWAL | | — | 100 | — | — | — |

Results in parts per billion (ppb).

| | | |
|---|---|---|
| TPHg | : | Total petroleum hydrocarbons analyzed as gasoline. |
| NA | : | Not Analyzed |
| < | : | This symbol means "less than" |
| MCLs | : | Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990) |
| DWAL | : | Recommended Drinking Water Action Levels, DHS (October 1990) |
| HLA | : | Sampling by Harding Lawson Associates |
| RESNA | : | RESNA Industries Inc. began sampling. |

# APPENDIX A

# GROUNDWATER SAMPLING PROTOCOL AND WELL PURGE DATA SHEETS

## GROUNDWATER SAMPLING PROTOCOL

The static water level and floating product level, if present, in each well that contained water was measured with an ORS Interphase Probe Model No. 1068018, or Solonist Water Level Indicator; these instruments are accurate to the nearest 0.01 foot. These groundwater depths were subtracted from wellhead elevations, including corrections for product thickness, when necessary, for gradient evaluation by multiplying product thickness (PT) by a correction factor 0.8 and subtracting from the depth to water (DTW) (Adjusted DTW = DTW - [PT x 0.8]).

Water samples collected for subjective evaluation were collected by gently lowering approximately half the length of a new disposable or Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples were checked for measurable floating hydrocarbon product. All Teflon® bailers are triple washed with Alconox® and triple rinsed with distilled water prior to use.

Before water samples were collected from the groundwater monitoring wells, the wells were purged until stabilization of the temperature, pH, and conductivity were obtained. Approximately three to four well casing volumes were purged before those characteristics stabilized. The quantity of water purged from each well was calculated as follows:

1 well casing volume = $\pi r^2 h(7.48)$ where:

| | | |
|---|---|---|
| r | = | radius of the well casing in feet. |
| h | = | column of water in the well in feet (depth to bottom - depth to water). |
| 7.48 | = | conversion constant from cubic feet to gallons |

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well was allowed to recharge to at least 80% of the initial water level. Water samples were collected with a new disposable or Teflon® bailer, and carefully poured into 40-milliliter (ml) glass vials, which were filled so as to produce a positive meniscus. Each vial was preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples were promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 04, 1993  Page 1 of 1

Well No. MW-9A  Time Started 11:20am

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 11:20 | Start purging MW-9A | | | |
| 11:20 | 0 | 75.2 | 6.92 | 1440 |
| 11:25 | 2.0 | 74.6 | 6.90 | 1300 |
| 11:30 | 3.5 | 74.4 | 6.89 | 1300 |
| 11:35 | 5.5 | 71.3 | 6.90 | 1290 |
| 11:40 | 7.5 | 71.8 | 6.87 | 1300 |
| 11:41 | Stop purging MW-9A | | | |

Notes:

| | | |
|---|---|---|
| Well Diameter (inches) | : | 2 |
| Depth to Bottom (feet) | : | 18.65 |
| Depth to Water - initial (feet) | : | 7.23 |
| Depth to Water - final (feet) | : | 7.79 |
| % recovery | : | 95.0% |
| Time Sampled | : | 11:55 |
| Gallons per Well Casing Volume | : | 1.86 |
| Gallons Purged | : | 7.5 |
| Well Casing Volume Purged | : | 4.03 |
| Approximate Pumping Rate (gpm) | : | 0.5 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 04, 1993  Page 1 of 1

Well No. MW-9B  Time Started 1:35pm

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 1:35 | Start purging MW-9B | | | |
| 1:35 | 0 | 68.9 | 6.86 | 1440 |
| 1:40 | 2.0 | 70.7 | 6.88 | 1470 |
| 1:45 | 3.75 | 71.8 | 6.84 | 1510 |
| 1:50 | 5.5 | 69.3 | 6.94 | 1470 |
| 1:55 | 7.5 | 70.5 | 6.91 | 1490 |
| 1:56 | Stop purging MW-9B | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 2 |
| Depth to Bottom (feet) : | 17.65 |
| Depth to Water - initial (feet) : | 6.23 |
| Depth to Water - final (feet) : | 6.40 |
| % recovery : | 98.5% |
| Time Sampled : | 2:45 |
| Gallons per Well Casing Volume : | 1.86 |
| Gallons Purged : | 7.5 |
| Well Casing Volume Purged : | 4.03 |
| Approximate Pumping Rate (gpm) : | 0.5 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 04, 1993  Page 1 of 1

Well No. MW-9C  Time Started 12:30pm

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 12:30 | Start purging MW-9C | | | |
| 12:30 | 0 | 70.8 | 6.98 | 1480 |
| 12:35 | 1.5 | 72.4 | 6.96 | 1480 |
| 12:40 | 3.0 | 72.8 | 6.90 | 1470 |
| 12:45 | 4.5 | 72.9 | 7.04 | 1490 |
| 12:50 | 6.0 | 73.8 | 6.93 | 1460 |
| 12:51 | Stop purging MW-9C | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 2 |
| Depth to Bottom (feet) : | 16.15 |
| Depth to Water - initial (feet) : | 6.90 |
| Depth to Water - final (feet) : | 6.96 |
| % recovery : | 99% |
| Time Sampled : | 2:15 |
| Gallons per Well Casing Volume : | 1.51 |
| Gallons Purged : | 6.0 |
| Well Casing Volume Purged : | 3.97 |
| Approximate Pumping Rate (gpm) : | 0.5 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 04, 1993  Page 1 of 1

Well No. MW-9D  Time Started 1:20pm

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 1:20 | Start purging MW-9D | | | |
| 1:20 | 0 | 68.6 | 6.71 | 1210 |
| 1:25 | 4.5 | 69.5 | 6.79 | 1290 |
| 1:30 | 8.5 | 69.8 | 6.95 | 1450 |
| 1:35 | 13.0 | 71.3 | 6.99 | 1430 |
| 1:40 | 17.0 | 71.1 | 6.87 | 1470 |
| 1:41 | Stop purging MW-9D | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 4 |
| Depth to Bottom (feet) : | 14.89 |
| Depth to Water - initial (feet) : | 8.33 |
| Depth to Water - final (feet) : | 8.79 |
| % recovery : | 93% |
| Time Sampled : | 3:20 |
| Gallons per Well Casing Volume : | 4.28 |
| Gallons Purged : | 17.0 |
| Well Casing Volume Purged : | 3.97 |
| Approximate Pumping Rate (gpm) : | 1 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 05, 1993  Page 1 of 1

Well No. MW-9F  Time Started 11:05am

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 11:05 | Start purging MW-9F | | | |
| 11:05 | 0 | 74.2 | 7.04 | 1600 |
| 11:10 | 5.0 | 74.2 | 7.05 | 1590 |
| 11:15 | 10.0 | 74.3 | 7.03 | 1590 |
| 11:20 | 15.0 | 73.0 | 7.01 | 1570 |
| 11:25 | 20.0 | 73.5 | 7.00 | 1590 |
| 11.26 | Stop purging MW-9F | | | |

Notes:

| | | |
|---|---|---|
| Well Diameter (inches) | : | 4 |
| Depth to Bottom (feet) | : | 13.77 |
| Depth to Water - initial (feet) | : | 5.96 |
| Depth to Water - final (feet) | : | 6.82 |
| % recovery | : | 89% |
| Time Sampled | : | 11:30 |
| Gallons per Well Casing Volume | : | 5.1 |
| Gallons Purged | : | 20.8 |
| Well Casing Volume Purged | : | 3.92 |
| Approximate Pumping Rate (gpm) | : | 1 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 05, 1993  Page 1 of 1

Well No. MW-9G  Time Started 10:15am

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 10:15 | Start purging MW-9G | | | |
| 10:15 | 0 | 72.2 | 6.97 | 1450 |
| 10:20 | 5.0 | 72.3 | 6.87 | 1450 |
| 10:25 | 10.0 | 72.0 | 6.85 | 1440 |
| 10:30 | 15.0 | 72.7 | 6.90 | 1450 |
| 10:35 | 20.0 | 72.4 | 6.88 | 1450 |
| 10:35 | Stop purging MW-9G | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 4 |
| Depth to Bottom (feet) : | 13.91 |
| Depth to Water - initial (feet) : | 5.96 |
| Depth to Water - final (feet) : | 6.07 |
| % recovery : | 98.6% |
| Time Sampled : | 10:40 |
| Gallons per Well Casing Volume : | 5.19 |
| Gallons Purged : | 20.5 |
| Well Casing Volume Purged : | 3.94 |
| Approximate Pumping Rate (gpm) : | 1 |

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# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 05, 1993  Page 1 of 1

Well No. MW-9H  Time Started 11:45am

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 11:45 | Start purging MW-9I | | | |
| 11:45 | 0 | 70.2 | 7.15 | 1360 |
| 11:50 | 4 | 70.9 | 7.00 | 1490 |
| 11:55 | 6 | 71.2 | 7.04 | 1480 |
| 12:05 | 8.5 | 71.0 | 7.03 | 1550 |
| | Stop purging MW-9H | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 4 |
| Depth to Bottom (feet) : | 14.26 |
| Depth to Water - initial (feet) : | 8.15 |
| Depth to Water - final (feet) : | NM |
| % recovery : | NM |
| Time Sampled : | 12:15 |
| Gallons per Well Casing Volume : | 3.99 |
| Gallons Purged : | 8.50 |
| Well Casing Volume Purged : | 2.13 |
| Approximate Pumping Rate (gpm) : | 1 |

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Working to Restore Nature

# WELL PURGE DATA SHEET

Project Name: Texaco - 12th Street  Job No. 62079.01

Date: November 04, 1993  Page 1 of 1

Well No. MW-9I  Time Started 12:15pm

| TIME (hr) | GALLONS (cum.) | TEMP. (°F) | pH | CONDUCT. (micromho) |
|---|---|---|---|---|
| 12:15 | Start purging MW-9I | | | |
| 12:15 | 0 | 71.4 | 69.8 | 1660 |
| 12:20 | 5.0 | 73.1 | 7.01 | 1690 |
| 12:25 | 10.5 | 73.3 | 7.06 | 1670 |
| 1:10 | 15.5 | 72.3 | 7.06 | 1610 |
| 1:15 | 18.0 | 72.3 | 7.11 | 1560 |
| | Stop purging MW-9I | | | |

Notes:

| | |
|---|---|
| Well Diameter (inches) : | 4 |
| Depth to Bottom (feet) : | 13.95 |
| Depth to Water - initial (feet) : | 6.03 |
| Depth to Water - final (feet) : | 6.42 |
| % recovery : | 95% |
| Time Sampled : | 3:05 |
| Gallons per Well Casing Volume : | 5.17 |
| Gallons Purged : | 18.0 |
| Well Casing Volume Purged : | 3.48 |
| Approximate Pumping Rate (gpm) : | 1 |

# APPENDIX B

# LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

# MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955


62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113108 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9A WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

# MOBILE CHEM LABS INC.

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Phone (510) 372-3700 • Fax (510) 372-6955


62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113111 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9B WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 98 |
| Benzene | 0.5 | 13 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | 1.4 |

QA/QC: Duplicate Deviation is 2.7%

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

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Ronald G. Evans
Lab Director

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RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113109 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9C WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

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RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113110 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9C Rinsate WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | 1.0 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

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62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113113 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9D WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

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Ronald G. Evans
Lab Director

# MOBILE CHEM LABS INC.

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62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-05-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113116 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9F WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

# MOBILE CHEM LABS INC.

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RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-05-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113115 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9G WATER |

## ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

# MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510) 372-3700 • Fax (510) 372-6955


62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-05-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113117 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9H WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

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62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113112 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>MW-9I WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

QA/QC: Spike Recovery is 106%

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

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Lab Director

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62079.01\1718\012123

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 11-04-93
Date Received: 11-08-93
Date Analyzed: 11-12-93

| Sample Number | Sample Description |
|---|---|
| 113114 | Project # 62079.01<br>Texaco - Oakland<br>2200 E. 12th St.<br>Site Blank WATER |

ANALYSIS

| | Detection Limit | Sample Results |
|---|---|---|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | <50 |
| Benzene | 0.5 | <0.5 |
| Toluene | 0.5 | <0.5 |
| Xylenes | 0.5 | <0.5 |
| Ethylbenzene | 0.5 | <0.5 |

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

# RESNA

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

| PROJECT NO. | PROJECT NAME/SITE |
|---|---|
| 02079.01 | 2200 E 12th St. Oakland Texaco |

SAMPLERS (SIGN) Mary Rysdale (PRINT) MARY RYSDALE

| SAMPLE IDENTIFICATION | DATE | TIME | COMP | GRAB | PRES. USED | ICED | NO. CONTAINERS | SAMPLE TYPE | BTEX (602/8020) | TPHg (8015) | TPHd (8015) | TOG 418.1/5520 | 601/8010 | 624/8240 | 625/8270 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9A | 11/4 | 11:55 | | | HCl | Y | 2 | H2O | X | X | | | | | | |
| MW-9C | 11/4 | 14:15 | | | | | | | X | X | | | | | | |
| MW-9C Rinsate | 11/4 | 14:15 | | | | | | | X | X | | | | | | |
| MW-9B | 11/4 | 14:45 | | | | | | | X | X | | | | | | |
| MW-9I | 11/4 | 15:05 | | | | | | | X | X | | | | | | |
| MW-9D | 11/4 | 15:20 | | | | | | | X | X | | | | | | |
| Site blank | 11/4 | 11:50 | | | | | | | X | X | | | | | | |
| MW-9G | 11/5 | 11:40 | | | | | | | X | X | | | | | | |
| MW-9F | 11/5 | 11:30 | | | | | | | X | X | | | | | | |
| MW-9H | 11/5 | 12:15 | | | | | | | X | X | | | | | | |

ANALYSIS REQUESTED

P.O. #:

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Mary Rysdale | 11/5/93 | 1:35 pm | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| RELINQUISHED BY: | DATE 11-9-93 | TIME 10:55 | RECEIVED BY LABORATORY: Dave Levine |

LABORATORY: Mobile Chem

REQUESTED TURNAROUND TIME: 2 weeks

RECEIPT CONDITION: On Ice [redacted] Headspace

PLEASE SEND RESULTS TO: RESNA San Jose

PROJECT MANAGER: Phil Mayberry