



3315 Almaden Expressway, Suite 34

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LETTER REPORT QUARTERLY GROUNDWATER MONITORING Third Quarter 1991

at ARCO Station 276 10600 MacArthur Boulevard Oakland, California

Dec 2, 1991

60026.02







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December 2, 1991 1010ccar 60026.02

Mr. Chuck Carmel ARCO Products Company P.O. Box 5811 San Mateo, California 94402

Subject: Third Quarter 1991 Groundwater Monitoring Report for ARCO Station 276,

10600 MacArthur Boulevard, Oakland, California.

Mr. Carmel:

As requested by ARCO Products Company (ARCO), this letter report summarizes the methods and results of the third quarter 1991 groundwater monitoring performed by RESNA at the above-referenced site. The station is on the southeastern side of the intersection of 106th Avenue and MacArthur Boulevard in Oakland, California, as shown on the Site Vicinity Map, Plate 1. ARCO has requested that RESNA perform monthly groundwater monitoring and quarterly sampling to monitor hydrocarbon concentrations associated with the former waste-oil and gasoline tanks at the site, and to evaluate trends in the hydrocarbon concentrations and groundwater gradient over time.

Prior to the present monitoring, Kaldveer Associates (Kaldveer), Pacific Environmental Group (Pacific), Western Geologic Resources (WGR), and RESNA (formerly Applied GeoSystems [AGS]) performed investigations related to the former underground gasoline and waste-oil storage tanks at this site and on the adjacent site (Foothill Square Shopping Center). In 1988, Kaldveer performed environmental assessments which included a survey of past and present site and near-vicinity conditions, drilling 12 soil borings in the Foothill Square Shopping Center, and collecting and analyzing groundwater grab samples from the borings (Kaldveer, October 3, 1988 and October 7, 1988). WGR performed soil sampling and installed five groundwater monitoring wells at Foothill Square Shopping Center (WGR, January 17, 1989). In December 1988, Pacific performed soil sampling during removal of the waste-oil tank (Pacific, February 6, 1989). In March 1989, RESNA installed groundwater monitoring wells MW-1 through MW-5 on the site (AGS, August 8, 1989). In June 1989, Pacific performed a soil gas survey on the site and on the Foothill Square Shopping Center property (Pacific, July 17, 1989). In January and February 1990, RESNA

drilled three exploratory soil borings, collected soil samples from the new tank pit area, and observed removal of the gasoline tanks (AGS, February 11, 1991). Quarterly monitoring at the site was initiated in October 1989 (AGS, August 6, 1990). The results of previous quarterly monitoring and the investigations performed at the site are presented in the reports listed in the references attached to this letter report. The locations of the onsite groundwater monitoring wells and pertinent site features are shown on the Generalized Site Plan, Plate 2. The offsite boring and groundwater monitoring well locations are presented in the referenced reports.

Groundwater Sampling and Gradient Evaluation

RESNA personnel performed monthly monitoring of groundwater elevations on July 24, August 6, and September 3, 1991, and quarterly sampling was performed on August 6, 1991. At ARCO's request, an additional sampling episode was performed on September 3, 1991 to obtain groundwater samples for volatile organic compounds (VOCs) analysis. Monthly monitoring consisted of measuring depth-to-water (DTW) levels, subjectively analyzing the groundwater for the presence of petroleum hydrocarbon sheen and floating product, and removing floating product from wells as necessary. Sampling episodes consisted of the monthly monitoring tasks followed by purging and sampling groundwater from monitoring wells MW-1, MW-3, MW-4, and MW-5. Well MW-2 was not sampled for laboratory analysis due to the presence of floating product. The DTW levels, wellhead elevations, and groundwater elevations for this and previous monitoring episodes are summarized in Table 1, Cumulative Groundwater Monitoring Data. The groundwater sampling protocol is attached in Appendix A. Work was performed in accordance with the site safety plan (AGS, March 6, 1989).

Subjective analyses of water samples from well MW-2 (the only well screened in the shallow water bearing zone) between July 24 and September 3, 1991 indicated a sheen to approximately 0.54 feet of floating product (see Table 1). Subjective analyses of the other wells did not indicate the presence of floating product during this quarter.

Groundwater elevations decreased approximately 0.80 feet between July and September 1991. Groundwater gradient interpretations from this quarter's monitoring data are shown on the Groundwater Gradient Maps, Plates 3 through 5. The elevation data for well MW-2 was not used in evaluating the gradient because the well contained free product and is screened in a shallow perched water-bearing zone. Groundwater flow was interpreted to be toward the north-northeast, with an average gradient of 0.003. These gradient interpretations are generally consistent with previously evaluated groundwater gradients for this site.



Monitoring wells MW-1, MW-3, MW-4, and MW-5 were purged and sampled on August 6 and September 3, 1991 in accordance with the attached protocol in Appendix A. Purge water was removed by a licensed hazardous waste hauler; the Uniform Hazardous Waste Manifest is also attached in Appendix A.

Laboratory Analysis

Water samples collected from wells MW-1, MW-3, MW-4 and MW-5 on August 6 and September 3, 1991 were delivered under Chain of Custody protocol to Sequoia Analytical in Redwood City, California (Hazardous Waste Testing Laboratory Certification No. 1210). The water samples from the August 6, 1991 groundwater sampling episode were analyzed for total petroleum hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020; water samples from well MW-4 and MW-5 were also analyzed for twentynine VOCs by EPA Method 8010.) In addition, a water sample from MW-4 was analyzed for the metals cadmium, chromium, lead, zinc, and nickel using EPA Methods 200.7 and 239.2. Wells MW-1, MW-3, MW-4, and MW-5 were also sampled on September 3, 1991 and analyzed for VOCs by EPA Method 8010. Results of these and previous water analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Water Samples-TPHg, total petroleum hydrocarbons as dielsel (TPHd), BTEX, and total oil and grease (TOG) and Table 3, Cumulative Results of Laboratory Analyses of Water Samples--VOCs and Metals. The Chain of Custody Records and Laboratory Analysis Reports are attached in Appendix A. TPHg, benzene, and tetrachloroethene concentration contours are shown on Plates 6, 7, and 8, respectively.

Results of this quarter's laboratory analyses of groundwater samples indicated:

- o nondetectable concentrations of TPHg in well MW-1 and MW-5, 430 parts per billion (ppb) in well MW-3, and 520 ppb in well MW-4;
- o nondetectable concentrations of BTEX in wells MW-1 and MW-3 through MW-5;
- o nondetectable concentrations VOCs (with the exception of tetrachloroethene) in all wells sampled;
- o concentrations of tetrachloroethene (PCE) exceeded the State Maximum Contaminant Level (MCL) of 5 ppb in wells MW-4 (1,700 ppb) and MW-5 (7.3 ppb) on August 6, 1991 and in wells MW-3 (1,600 ppb) MW-4 (2,000 ppb), and MW-5 (25 ppb) on September 3, 1991;



- o well MW-4 contained nondetectable concentrations of cadmium, 0.0067 parts per million (ppm) lead, 0.14 ppm zinc, and 0.096 ppm nickel, which did not exceed the MCLs for those metals; and
- o the concentration of chromium exceeded the MCL of 0.05 ppm in well MW-4 (0.065 ppm).

Monitoring and Removal of Free Product

Floating product was measured and removed from well MW-2 during monthly and quarterly monitoring episodes. Quantities of floating product and water removed are presented in Table 4. The total cumulative recovered product for the site is approximately 18.15 gallons.

Conclusions and Recommendations

Monitoring well MW-1, downgradient of the former underground storage tanks, continues to show nondetectable concentrations of TPHg and BTEX. In well MW-4, the concentration of tetrachloroethene, which reportedly increased during the fourth quarter of 1990 and first quarter of 1991, decreased during this quarter; TPHg and xylene decreased slightly during this quarter. The TPHg concentration decreased from 120 ppb to nondetectable in monitoring well MW-5 during this quarter.

Tetrachloroethene, previously detected in wells MW-4 and MW-5, has been detected in all wells on the site except well (MW-2) which was not tested because in contained product sheen. The highest concentrations detected during the September 3, 1991 sampling were in wells MW-3 and MW-4.

It is recommended that monthly groundwater monitoring and quarterly groundwater sampling for TPHg and BTEX by Methods 8030/8015/8020, and VOCs by EPA Method 8010 in wells MW-1 through MW-5 continue. RESNA recommends obtaining a background water sample from an offsite well that does not have detectable concentrations of TPHg, BTEX, and VOCs, if possible, in order to obtain background heavy metals concentrations for the area. Since TOG has been nondetectable in MW-4 since July 1990, annual sampling of this well for TOG is recommended (scheduled for first quarter 1992). RESNA also recommends continued product removal from well MW-2. Further, it is recommended that water level data and quarterly sampling data from offsite wells be correlated with the same data obtained from the onsite wells to allow evaluation of the groundwater gradient flow directions in the shallow and lower water bearing zones, and the extent of petroleum hydrocarbons and VOCs in the site area. Additional recommendations for further assessment will be included under separate cover.



Schedule

RESNA will continue the monthly water-level measurements and quarterly groundwater monitoring at this site to evaluate trends in petroleum hydrocarbons and changes in groundwater gradient with time. Routine well maintenance, removal of free product, and quality control will be performed as necessary during these site visits. The next quarterly monitoring episode is scheduled for November 5, 1991. A product recovery well was installed on October 30, 1991, and an aquifer pump test is scheduled to be conducted in November 1991.

It is recommended that copies of this report be forwarded to:

Mr. Paul Smith Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster, Suite 500
Oakland, California 94612

If you have any questions or comments, please call us at (408) 264-7723.

Sincerely, RESNA

Lou Leet

Geologic Technician

- January

Joan E. Tiernan Registered Civil Engineer 044600

cc: H.C. Winsor, ARCO

Enclosures: References

Plate 1, Site Vicinity Map

Plate 2, Generalized Site Plan

Plate 3, Groundwater Gradient Map, July 24, 1991

Plate 4, Groundwater Gradient Map, August 6, 1991

Plate 5, Groundwater Gradient Map, September 3, 1991

Plate 6, TPHg Concentrations in Groundwater, August 6, 1991

Plate 7, Benzene Concentrations in Groundwater, August 6, 1991

Plate 8, Tetrachloroethene Concentrations in Groundwater, September 3, 1991

Table 1, Cumulative Groundwater Monitoring Data

Table 2, Cumulative Results of Laboratory Analyses of Water Samples--TPHg, TPHd, BTEX, and TOG

Table 3, Cumulative Results of Laboratory Analyses of Water Samples--VOCs and Metals

Table 4, Approximate Cumulative Product Removed

Appendix A: Groundwater Sampling Protocol
Chain of Custody Record
Laboratory Analysis Reports
Uniform Hazardous Waste Manifest

REFERENCES

Applied GeoSystems. April 16, 1991. First Quarter 1991 Ground-Water Monitoring at ARCO Station 276, 10600 MacArthur Boulevard, Oakland, California. AGS Job 60026

Applied GeoSystems, February 11, 1991. "Report Underground Gasoline Storage Tank Removal and Replacement at ARCO Station 276, 10600 MacArthur Boulevard, Oakland, California". AGS Job 19014-5.

Applied GeoSystems. January 29, 1991. "Fourth Quarter 1990 Ground-Water Monitoring at ARCO Station 276, 10600 MacArthur Boulevard, Oakland, California". AGS Job 60026.01.

Applied GeoSystems. January 2, 1991. "Letter Report Quarterly Ground-Water Monitoring Third Quarter 1990 at ARCO Station 276, 10600 MacArthur Boulevard, Oakland, California". AGS Job 60026.01.

Applied GeoSystems. August 6, 1990. "Letter Report Quarterly Ground-Water Monitoring Fourth Quarter 1989 and First and Second Quarters 1990". AGS Job No. 19014-1.

Applied GeoSystems. March 6, 1989. "Site Safety Plan for ARCO Station No. 276, Oakland, California". AGS Job No. 19014-1.

Applied GeoSystems. August 8, 1989. "Report Limited Subsurface Environmental Investigation". AGS Job No. 19014-1.

Kaldveer Associates. October 3, 1988. "Preliminary Environmental Assessment Proposed Foothill Square Oakland, California". Job No. KE812-3, 12056.

Kaldveer Associates. October 7, 1988. "Preliminary Soil And Groundwater Quality Testing Program Foothill Square Oakland, California". Job No. KE812-3A, 12302.

Pacific Environmental Group, Inc. February 6, 1989. Former Waste-Oil Tank Pit Analytical Results and Site Plan of ARCO Station No. 276. Copy of letter sent to Ms. Mary Meirs, Alameda County Environmental Health Department Hazardous Material Division.

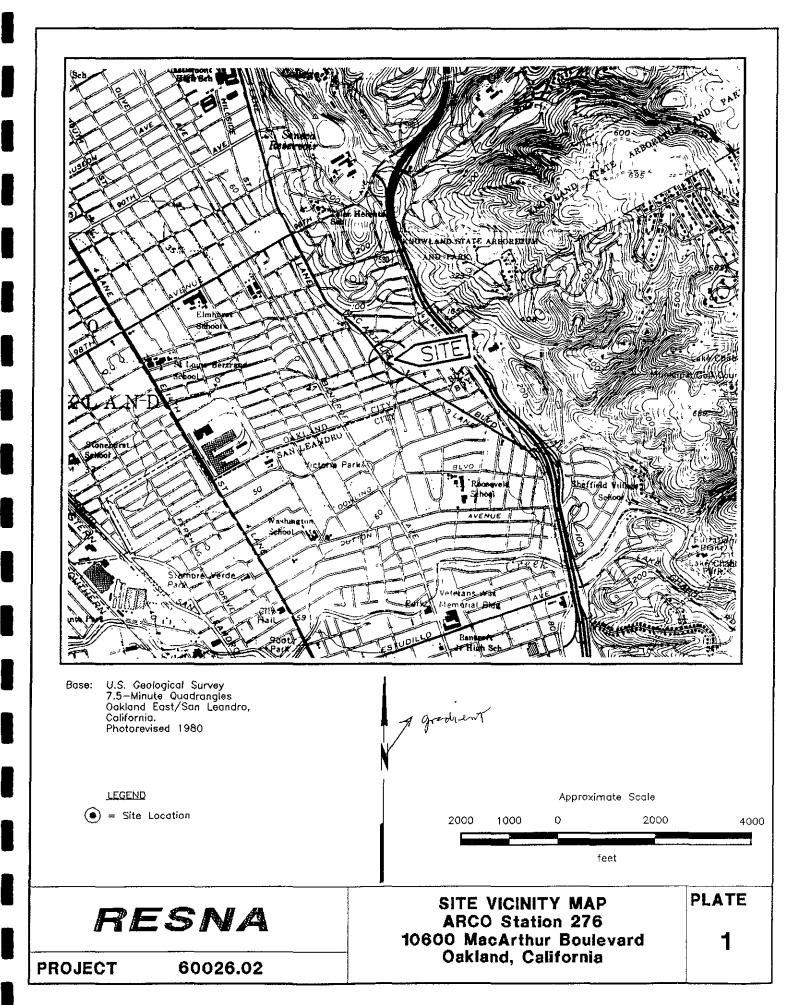
Pacific Environmental Group, Inc. July 17, 1989. "Soil Gas Investigation at ARCO Station No. 276."

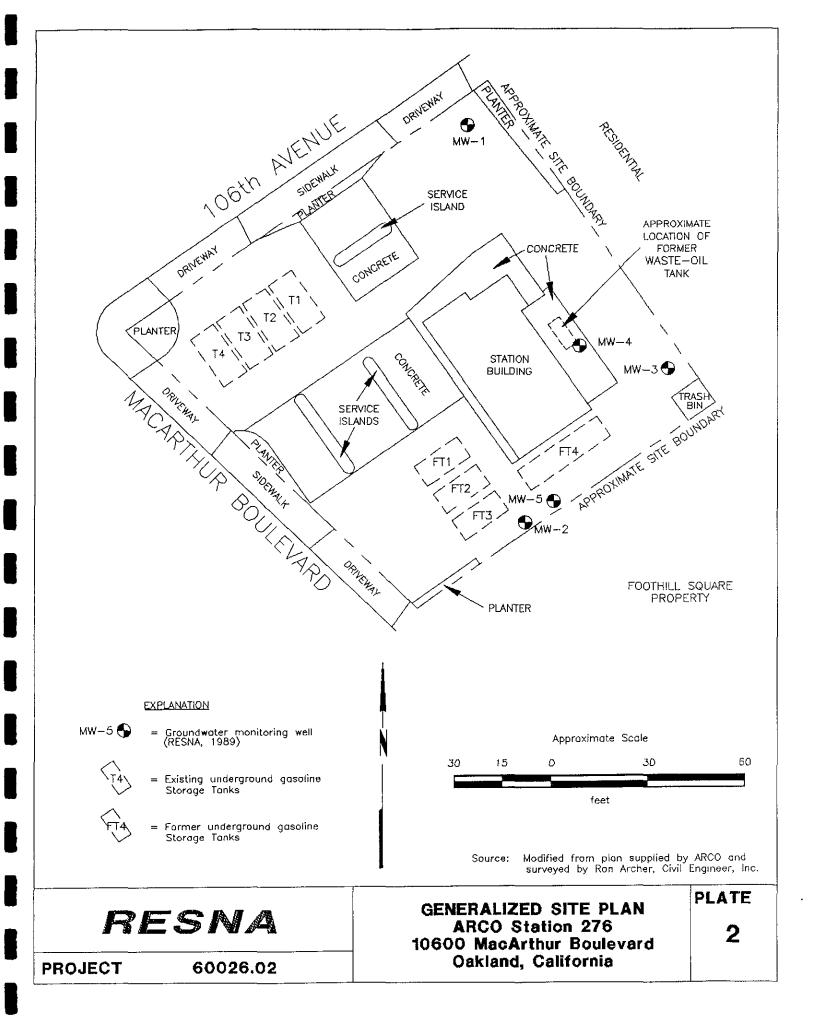


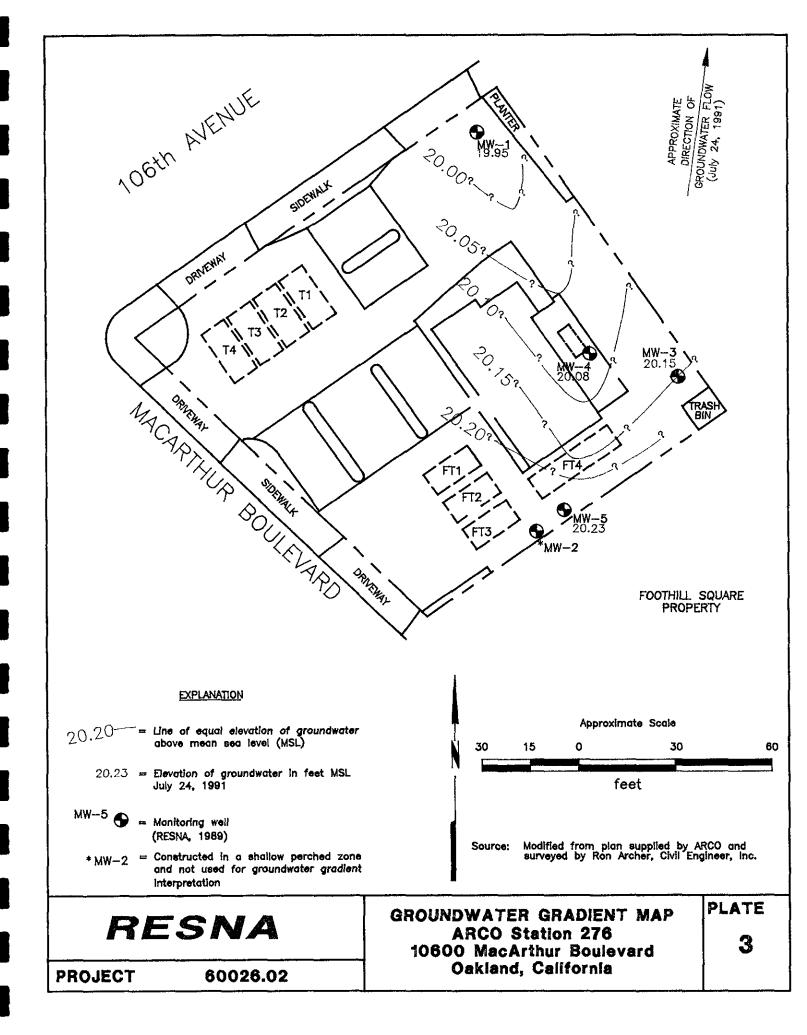
REFERENCES (continued)

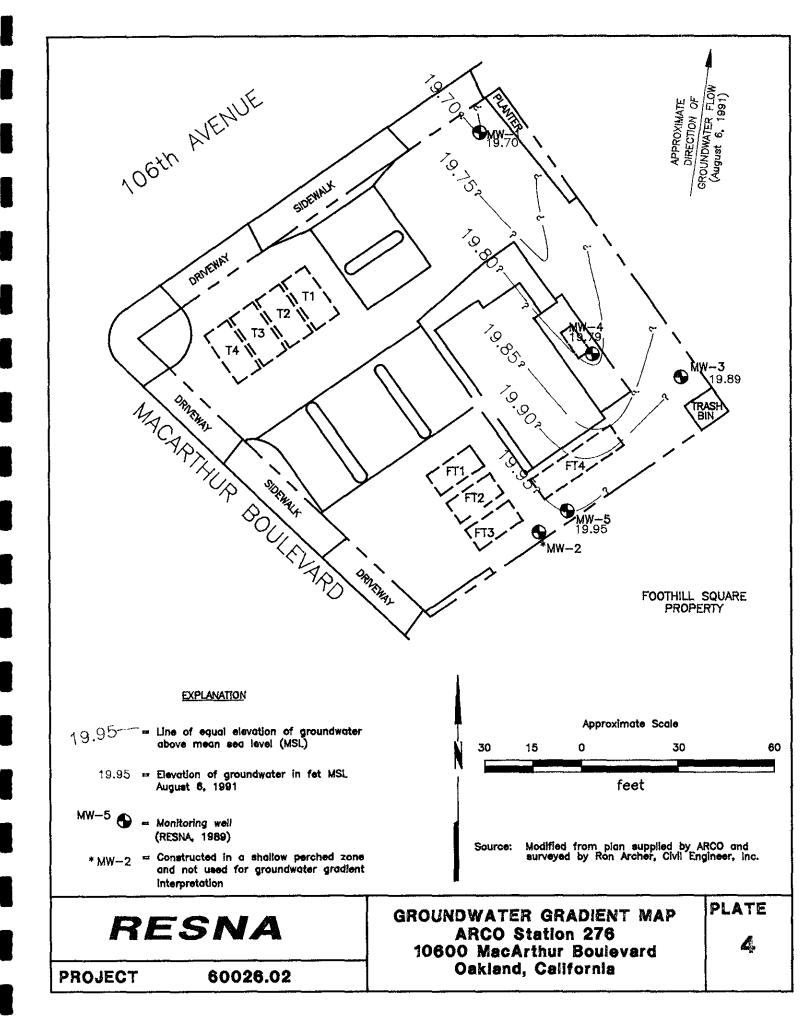
RESNA/Applied GeoSystems. July 11, 1991. "Letter Report Quarterly Ground-Water Monitoring, Second Quarter 1991 at ARCO Station 276, 10600 MacArthur Boulevard, Oakland, California." AGS 60026.02

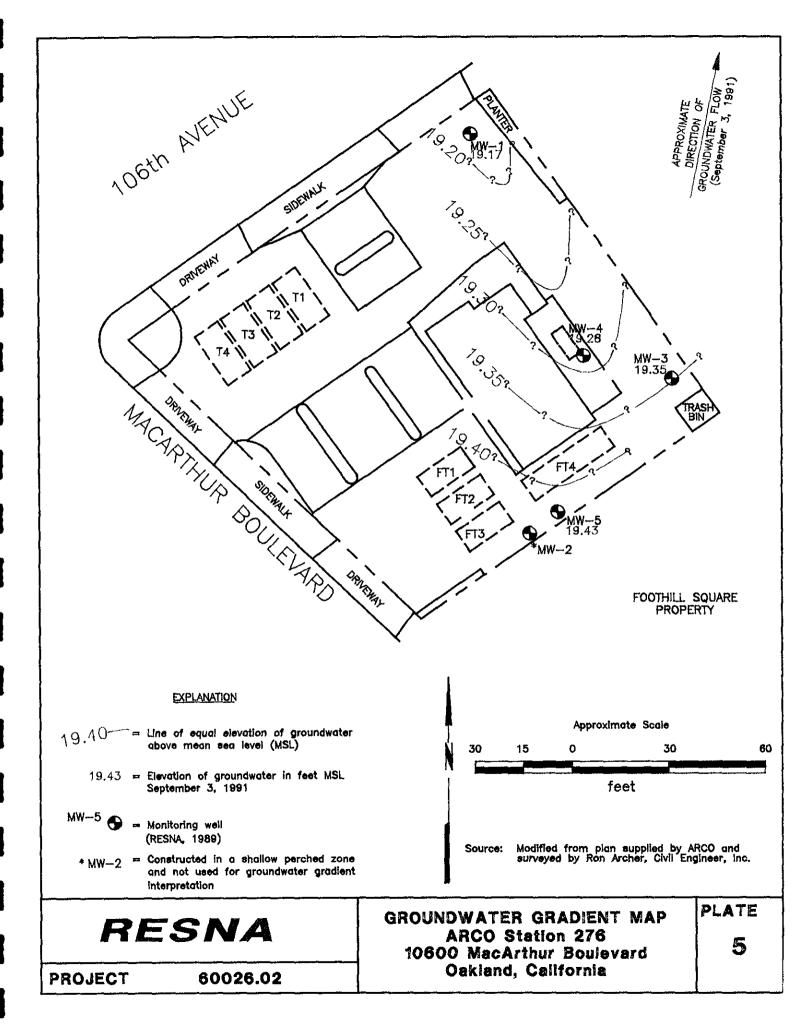
Western Geologic Resources, Inc. January 17, 1989. "Soil Sampling and Monitoring Well Installation Foothill Square Shopping Center Oakland, California". Job No. 8-088.01.

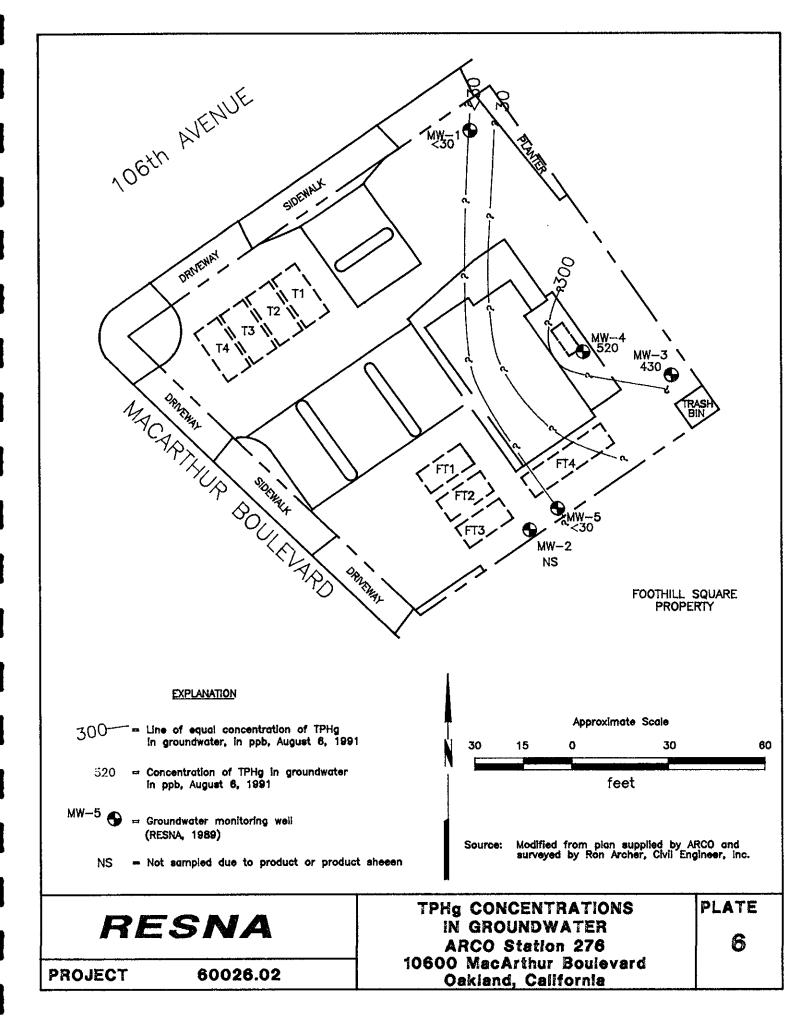


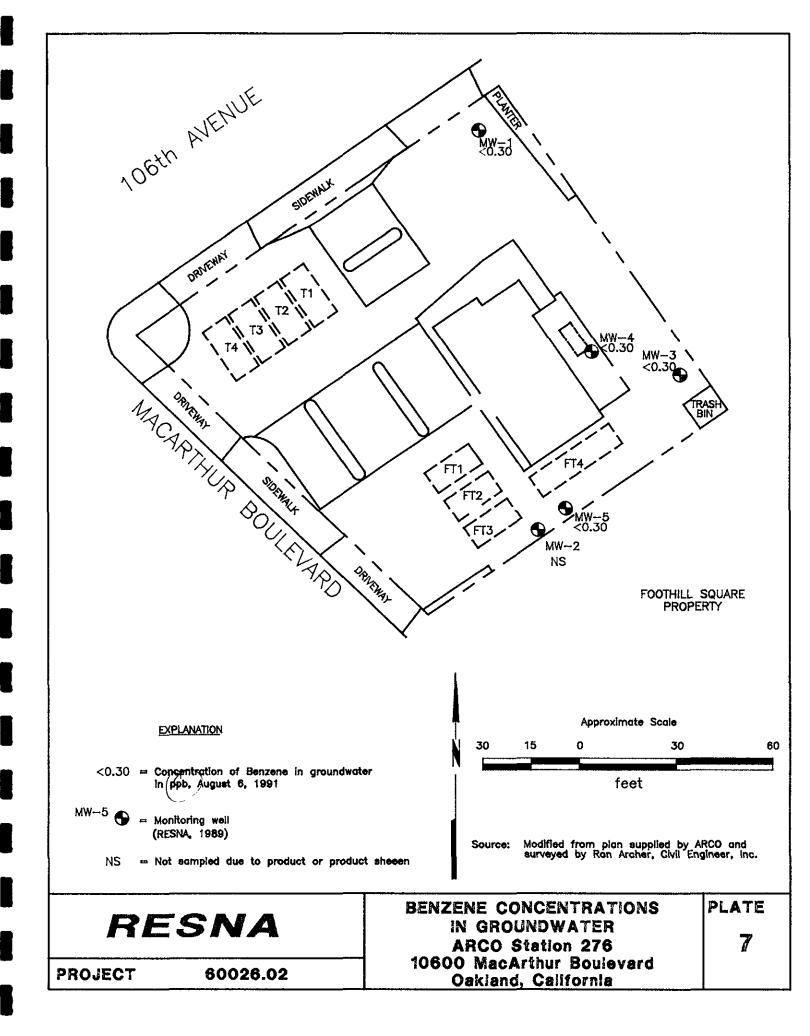












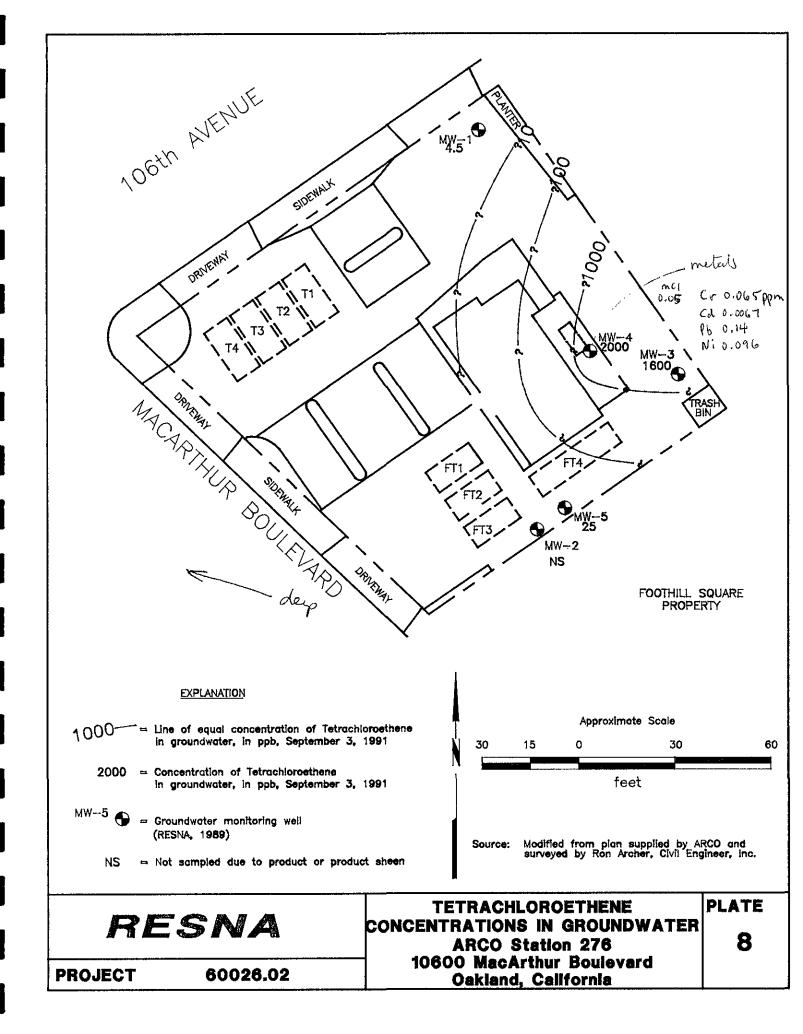


TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 276 Oakland, California (Page 1 of 3)

| Date Well Measured | Well Elevation | Depth to Water | Water Elevation | Floating Product |
|-----------------------|-------------------|-------------------|--------------------|---------------------|
| MW-1 | | | | |
| 04/17/89 | | 33.04 | 22.87 | None |
| 04/24/89 | | 33.84 | 22.07 | None |
| 10/13/89 | 55.91 | 37,19 | 18.72 | None |
| 02/01/90 | | 36.73 | 19.18 | None |
| 07/31/90 | | 36.42 | 19.49 | None |
| 08/01/90 | | 36.41 | 19.50 | None |
| 08/28/90 | | 36.88 | 19.03 | None |
| 10/30/90 | | 37.73 | 18.18 | None |
| 11/20/90 | | 37.92 | 18.37 | None |
| 12/19/90 | | 37.90 | 18.01 | None |
| 01/30/91 | | 38.06 | 17.85 | None |
| 02/27/91 | | 37.66 | 18.25 | None |
| 03/20/91 | | 36.77 | 19.14 | None |
| 04/30/91 | | 34.63 | 21.28 | None |
| 05/31/91 | | 34.83 | 21.08 | None |
| 07/24/91 | | 35.96 | 19.95 | None |
| 08/06/91 | | 36.21 | 19.70 | None |
| 09/03/91 | | 36.74 | 19.17 | None |
| MW-2 | | | | |
| 04/17/89 | | 17.20 | 38.15 | None |
| 04/24/89 | | 17.83 | 37.52 | None |
| 10/13/89 | 55.35 | 20.15* | 35.20* | 0.03 |
| 02/01/90 | | NM | NM | Sheen |
| 07/31/90 | | 18.90 | 36.45 | None |
| 08/01/90 | | 18.23* | 37.03* | 1.04 |
| 08/28/90 | | 21.25* | 34.10* | 0.83 |
| 10/30/90 | | 24.21* | 31.14* | 1.04 |
| 11/20/90 | | 25.08* | 30.27* | 0.60 |
| 12/19/90 | | 18.23 | 37.12 | Odor |
| 01/30/91 | | 19.47* | 35.88* | 0.03 |
| 02/27/91 | | 18.84* | 36.51* | 0.02 |
| 03/20/91 | | 16.02* | 39.33* | 0.01 |
| 04/30/91 | | 16.55* | 38.80 | Sheen |
| 05/31/91 | | 18.41* | 36.94* | 0.01 |
| 07/24/91 | | 19.81 | 35.54 | Sheen |
| 08/06/91 | | 20.59* | 34.76* | 0.14 |
| 09/03/91 | | 23.23* | 32.12* | 0.54 |

See notes on Page 3 of 3.



TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 276 Oakland, California (Page 2 of 3)

| Date Well Measured | Well Elevation | Depth to Water | Water Elevation | Floating Product |
|-----------------------|-------------------|-------------------|--------------------|---------------------|
| MW-3 | | | | |
| 04/24/89 | | 34.47 | 22.08 | None |
| 10/13/89 | 56.55 | 37.60 | 18.95 | None |
| 02/01/90 | | 37.20 | 19.35 | None |
| 07/31/90 | | 36.90 | 19.65 | None |
| 08/01/90 | | 36.87 | 19.68 | None |
| 08/28/90 | | 37.33 | 19.22 | None |
| 10/30/90 | | 38.15 | 18.40 | None |
| 11/20/90 | | 38.33 | 18.58 | None |
| 12/19/90 | | 38.30 | 18.25 | None |
| 01/30/91 | | | Well Dry | |
| 02/27/91 | | 38.11 | 18.44 | None |
| 03/20/91 | | 37.26 | 19.29 | None |
| 04/30/91 | | 35.02 | 21.53 | None |
| 05/31/91 | | 35.26 | 21.29 | None |
| 07/24/91 | | 36.40 | 20.15 | None |
| 08/06/91 | | 36.66 | 19.89 | None |
| 09/03/91 | | 37.20 | 19.35 | None |
| <u>MW-4</u> | | | | |
| 04/17/89 | | 33.87 | 22.07 | None |
| 04/24/89 | | 33.76 | 22.18 | None |
| 10/13/89 | 55.94 | 37.03 | 18.91 | None |
| 02/01/90 | | 36.57 | 19.37 | None |
| 07/31/90 | | 36.39 | 19.55 | None |
| 08/01/90 | | 6.32 | 19.62 | None |
| 08/28/90 | | 36.79 | 19.15 | None |
| 10/30/90 | | 37.62 | 18.32 | None |
| 11/20/90 | | 37.82 | 18.52 | None |
| 12/19/90 | | 37.74 | 18.20 | None |
| 01/30/91 | | 37.97 | 17.97 | None |
| 02/27/91 | | 37.52 | 18.42 | None |
| 03/20/91 | | 36.69 | 19.25 | None |
| 04/30/91 | | 34.48 | 21.46 | None |
| 05/31/91 | | 34.73 | 21.21 | None |
| 07/24/91 | | 35.86 | 20.08 | None |
| 08/06/91 | | 36.15 | 19.79 | None |
| 09/03/91 | | 36.66 | 19.28 | None |

See notes on Page 3 of 3.



TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 276 Oakland, California (Page 3 of 3)

| Date Well Measured | Well Elevation | Depth to Water | Water Elevation | Floating Product |
|-----------------------|-------------------|-------------------|--------------------|---------------------|
| MW-5 | | | | |
| 04/17/89 | | 33.17 | 22.26 | None |
| 04/24/89 | | 33.06 | 22.37 | None |
| 10/13/89 | 55.43 | 36.33 | 19.10 | None |
| 02/01/90 | | 35.96 | 19.47 | None |
| 07/31/90 | | 35.70 | 19.73 | None |
| 08/01/90 | | 35.69 | 19.74 | None |
| 08/28/90 | | 36.14 | 19.29 | None |
| 10/30/90 | | 36.94 | 18.49 | None |
| 11/20/90 | | 37.09 | 18.64 | None |
| 12/19/90 | | 37.05 | 18.38 | None |
| 01/30/91 | | 37.26 | 18.17 | None |
| 02/27/91 | | 36.81 | 18.62 | None |
| 03/20/91 | | 36.04 | 19.39 | None |
| 04/30/91 | | 33.75 | 21.68 | None |
| 05/31/91 | | 34.01 | 21.42 | None |
| 7/24/91 | | 35.20 | 20.23 | None |
| 08/06/91 | | 35.48 | 19.95 | None |
| 09/03/91 | | 36.00 | 19.43 | None |

Depths are in feet below top of each well casing.

Elevations are referenced in feet above mean sea level.

Floating product reported in feet.



^{* =} Depth to water and water elevation adjusted according to protocol in Appendix A.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES-TPHg, TPHd, BTEX, and TOG
ARCO Station 276
Oakland, California
(Page 1 of 2)

| Date/Well | TPHg (ppb) | TPHd (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | TOC (ppb) |
|-------------|---------------|---------------|------------------|-------------------|------------|---|--------------|
| MW-1 | | | | | - <u>-</u> | • | |
| 04/24/89 | <50 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 10/13/89 | < 20 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 02/01/90 | 91 | NA | < 0.30 | < 0.30 | < 0.30 | 0.36 | NA |
| 07/31/90 | < 20 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 10/30/90 | <50 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA |
| 01/30/91 | <50 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA |
| 04/30/91 | < 30 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |
| 08/06/91 | < 30 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |
| <u>MW-2</u> | | | | | | | |
| 04/24/89 | 165,000 | NA | 13,000 | 21,000 | 2,100 | 12,700 | NA |
| 10/13/89 | | Not san | npled-floating p | roduct | | | |
| 02/01/90 | | No | t sampled-shee | n | | | |
| 07/31/90 | 240,000 | NA | 14,000 | 24,000 | 3,000 | 17,000 | NA |
| 10/30/90 | | Not san | npled-floating p | roduct | | | |
| 01/30/91 | | Not san | pled-floating p | roduct | | | |
| 04/30/91 | | No | ot sampled-shee | en | | | |
| 08/06/91 | | Not sam | pled-floating p | roduct | | | |
| MW-3 | | | | | | | |
| 04/24/89 | 560 | NA | 0.54 | 0.75 | < 0.50 | < 0.50 | NA |
| 10/13/89 | 450 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 02/01/90 | 360 | NA | < 0.30 | < 0.30 | < 0.30 | 0.85 | NA |
| 08/01/90 | 440 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 10/30/90 | 340 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA |
| 01/30/91 | | Not | sampled-well of | dry | | | |
| 04/30/91 | No | t sampledwell | inaccessible du | e to construction | | | |
| 08/06/91 | 430 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |
| <u>MW-4</u> | | | | | | | |
| 04/24/89 | 2,500 | NA | 270 | 1.4 | < 0.50 | 85 | NA |
| 10/13/89 | 760 | NA | 0.86 | < 0.50 | 1.2 | < 0.50 | NA |
| 02/01/90 | 680 | NA | < 0.30 | < 0.30 | < 0.30 | 1.6 | NA |
| 07/31/90 | 470 | 240 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 5,00 |
| 10/30/90 | 430 | < 100 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5,00 |
| 01/30/91 | <50 | < 100 | < 0.5 | < 0.5 | 1.2 | < 0.5 | < 5,00 |
| 04/30/91 | 600 | NA | < 0.30 | 0.30 | < 0.30 | 0.43 | NA |
| 08/06/91 | 520 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |

See notes on Page 2 of 2.



TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES--TPHg, TPHd, BTEX, and TOG ARCO Station 276 Oakland, California (Page 2 of 2)

| Date/Well | TPHg (ppb) | TPHd (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | TOG (ppb) |
|-------------|---------------|---------------|--|------------|------------|------------|--------------|
| <u>MW-5</u> | | | ······································ | | | ·· | |
| 04/24/89 | 130 | NA | 0.67 | < 0.50 | < 0.50 | < 0.50 | NA |
| 10/13/89 | 75 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 02/01/90 | 81 | NA | 0.94 | 0.88 | < 0.30 | 1.8 | NA |
| 07/31/90 | 110 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA |
| 10/30/90 | <50 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA |
| 01/30/91 | < 50 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA |
| 04/30/91 | 120 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |
| 08/06/91 | < 30 | NA | < 0.30 | < 0.30 | < 0.30 | < 0.30 | NA |

Results in parts per billion (ppb).

TPHg: Total petroleum hydrocarbons as gasoline by EPA method 8015.
TPHd: Total petroleum hydrocarbons as diesel by EPA method 3550/3510.

B: Benzene, T: Toluene, E: Ethylbenzene, T: Total Xylene isomers

BTEX: Measured by EPA method 8020/602.

NA: Not analyzed.

Results reported as less than detection limit.



TABLE 3 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES--VOCs and Metals ARCO Station 276 Oakland, California (Page 1 of 1)

| Date/Well | Compound | VOCs (ppb) | Cd (ppm) | Cr (ppm) | Pb (ppm) | Zn (ppm) | Ni (ppm) | |
|-------------------------|--------------------|---------------|--------------|-------------|-------------|-------------|-------------|--|
| <u>MW-1</u> 09/03/91 | Tetrachloroethene | 4.5 | NA | NA | NA | NA | NA | |
| <u>MW-2</u> 09/03/91 | ******** | Not sam | oledfloating | g product | | | | |
| <u>MW-3</u> 09/03/91 | Tetrachloroethene | 1,600* | NA | NA | NA | NA | NA | |
| MW-4 | | | | | | | | |
| 07/31/90 | Trichloroethene | 7.5 | NA | NA | NA | NA | NA | |
| | Tetrachloroethene | 1600* | NA | NA | NA | NA | NA | |
| | 1,2 Dichloroethene | 0.7 | NA | NA | NA | NA | NA | |
| 10/30/90 | Trichloroethene | 8.1 | NA | NA | NA | NA | NA | |
| | Tetrachloroethene | 3600* | NA | NA | NA | NA | NA | |
| | 1,2 Dichloroethene | 0.7 | NA | NA | NA | NA | NA | |
| 01/30/91 | Trichloroethene | 12 | NA | NA | NA | NA | NA | |
| | Tetrachloroethene | 4,900* | NA | NA | NA | NA | NA | |
| 04/30/91 | Tetrachloroethene | 2,200* | NA | NA | NA | NA | N A | |
| 08/06/91 | Tetrachloroethene | 1,700* | < 0.010 | 0.065 | 0.0067 | 0.14 | 0.096 | |
| 09/03/91 | Tetrachloroethene | 2,000* | NA | NA | NA | NA | NA | |
| <u>MW-5</u> | | | | , | | | | |
| 08/06/91 | Tetrachloroethene | 7.3* | NA | NA | NA | NA | NA | |
| 09/03/91 | Tetrachloroethene | 25* | NA | NA | NA | NA | NA | |
| MCL | | | 0.010 | 0.05 | 0.05 | 5.0 | | |

Results in parts per billion (ppb), except heavy metals which are in parts per million (ppm).

NA: Not analyzed.

Exceeds the MCL of 5 ppb concentration of tetrachloroethene.

Compounds not shown not detected.

MCLs: Maximum Contaminant Levels as reported by the California Department of Health Services 10/24/90.



TABLE 4 APPROXIMATE CUMULATIVE PRODUCT REMOVED ARCO Station 276 Oakland, California

| Date | Fle | oating Product Removed (gallons) | | |
|----------|--------|----------------------------------|------|---|
| MW-2 | - | | | · |
| 06/08/89 | | 4 | | |
| 06/15/89 | | 5 | | |
| 06/21/89 | | 4 | | |
| 07/12/89 | | 0.8 | | |
| 07/19/89 | | 0.75 | | |
| 07/26/89 | | 0.3 | | |
| 08/22/89 | | 1 | | |
| 09/18/89 | | 0.1 | | |
| 10/04/89 | | 0.1 | | |
| 12/07/89 | | 0.1 | | |
| 10/30/90 | | 0.5 | | |
| 11/20/90 | | 0.25 | | |
| 01/30/91 | | 0.25 | | |
| 02/27/91 | | 0.1 | | |
| 03/20/91 | | 0.1 | | |
| 04/30/91 | | 01 | | |
| 05/31/91 | | 0.1 | | |
| 07/24/91 | | Sheen | | |
| 08/06/91 | | 0.1 | | |
| 09/03/91 | | 0.5 | | |
| | Total: | 18.15 Gailons | | |

VOCs: Volatile Organic Compounds by EPA method 601/8010. Compounds not shown were not detected.

Cd: Cadmium by EPA method 200.7.

Cr: Chromium by EPA method 200.7.

Pb: Lead by EPA method 239.7.

Zn: Zinc by EPA method 200.7.

Ni: Nickel by EPA method 200.7.

<. Results reported as less than the detection limit.



APPENDIX A

GROUNDWATER SAMPLING PROTOCOL

The static water level in each well that contained water was measured with a Solinst® water-level indicator; this instrument is accurate to the nearest 0.01 foot. The static water level in each well that was suspected to contain floating product was measured with an ORS® interface probe; this instrument is accurate to the nearest 0.01 foot. The probe contains two different sensor units, one for detecting the liquid/air interface, and one for distinguishing between water and hydrocarbon. The thickness of the floating product and the ground-water depths were recorded. The recorded thickness of the floating product was then multiplied by 0.80 to obtain an approximate value for the displacement of water by the floating product. This approximate displacement value was then subtracted from the measured depth to water to obtain a calculated depth to water. These calculated ground-water depths were subtracted from wellhead elevations measured by Ron Archer, Civil Engineer, Inc., of Pleasanton, California, a licensed land surveyor, to calculate the differences in ground-water elevations.

Water samples collected for subjective evaluation were collected by gently lowering approximately half the length of a new disposable bailer or a clean 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 evidence of free hydrocarbon product. Before water samples were collected from the ground-water monitoring wells, the wells were purged until stabilization of the temperature, pH, and conductivity was obtained. A minimum of approximately 1 well casing volume of water was purged before these wells were pumped dry or these characteristics stabilized. The quantity of water purged from the wells 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 (well depth - depth to water).

7.48 = conversion constant from cubic feet to gallons.

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

After purging, each well was allowed to recharge to at least approximately 80% of the initial water level. Water samples were then collected with a new, disposable bailer.

The water samples were carefully poured into 40-milliliter glass vials, which were filled so as to produce a positive meniscus. Each sample container was preserved with hydrochloric acid when appropriate, 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. Purge water was removed from the site by a licensed hazardous waste hauler.

| ARCO | Produ | ICTS (| Comp RichfieldC | any s | * | | | Task Or | der No. | 270 | o- 9 | 7/ | - 54 | 3 | | | | | | | | C | Chain of Custody |
|---------------------|---------------|------------------|--|--------------|--------------|--------|--------------------|----------------------|----------------|----------------------|--------------------------------|-----------------------------------|---------------------------------|--|-------------|--------------|---------------|------------------------------|-----------------------------|--|----------------|-----------------------------|------------------------------|
| ARCO Facil | | | | | cility C | AKI | ANS | <u> </u> | Į, | Project Consul | manag (ant) | er JE | ر ال | OFF | m A | N/ | LOU | 、 し | EE | = - | | | Laboratory name |
| ARCO engi | ے صاب neer | الماري د ماري | e.o. | <u>- Ima</u> | carry C | | Telephon (ARCO) | e no | | Telepho | ne no | 100 | 1 ,2 (| , U ~ | 771 | Fax (Cor | no rsultan | n (40 | 812 | 64- | 24.3 | سى | SEQUOIA Contract number |
| C H L Consultant | name , | LP(| <u> </u> | | | | [(ARCO) | Address (Consulta | 33/5 | AL | MA | POE | / V | EXA | RES | SWA | 44, | Su 1 | FE | 34 | <u></u> | | Community normal |
| RE | SNA | + / / + (| <u> </u> | | | | | [(Consulta | <u>nt) 3 p</u> | | | | CH | | | | | ij | 000 | | ĺ | | Method of shipment |
| | | | | Matrix | <u> </u> | Preser | vation | 00 | Φ. | | /8015 | ¥[] | ָהָ <u></u> | 03E | } | | | Sem | 2000 C |] | 14 | 7 % | |
| Sample I.D. | Гар по | Container no | Soil | Water | Other | lce | Acıd | Sampling date | Sampling time | BTEX 602/EPA 8020 | BTEX/TPH EPA M602/8020/8015 | TPH Modified 8015 Gas Diesel L | Oil and Grease 413.1 T 413.2 | TPH EPA 418 1/SM503E | EPA 6018000 | EPA 624/8240 | EPA 625/8270 | TCLP Semi- Metals VOA VOA | CAN Metals EPA TTLC TTLC | Lead Org /DHS Lead EPA 7420/7421 | METAUS GOID | 9 - 17 - 170 1 - 1 - 170 | Special detection |
| W-RINS | ATE | 1 | 98 | X | | 乂 | | 8-6-91 | 2:/0 | | X | | | ļ | | 108 | 19 | 00 | 1 | OL | ! | | Limit/reporting |
| w-36. | ļ | y | 108 190 190 190 190 108 1903 | X | ļ | X | X | 8-6-91 | 1:50 | | X | | | | | 10 | 319 | 01 | | ļ | | ļ | • |
| w-36.7 | -mw | 3 4 | 1903 1903 | X | | | X | 8-6-91 | 1150 | | メ | | | ļ | | 10 | 319 | 02 | | | | ļ | |
| W-37- | ì | 4 | 1903 | X | | 义 | X | 8-6-91 | 14:20 | | X | | | | | 108 | 319 | 03 | - | - | | | Special QA/QC |
| w-37 | i i | 2 | ı | ' x | | X | | 8-6-91 | [| <u> </u> | | | <u> </u> | ļ | X | | L | | ļ | | | | |
| W-36 | ' | 1 | 108 108 1964 | 又 | | X | HNO3 | 8-6-9 | 14:20 | ļ | | | | | | 10 | 319 | 05 | | - | X | ļ | |
| w-35- |) | 4 | 198 | <u> </u> | | X | X | 8-6-9, | 1 | | X | | | <u> </u> | | 10 | 81 | 90. | ¥ | <u> </u> | ļ | <u> </u> | Remarks |
| w-35. | 1 | 1 : | | <u> </u> | | X | | 8-6-91 | 14:00 | | | | | ļ | X | | 1 | | ļ | | | | 4 |
| | | | | | | | | | | | <u></u> | | | | | | | | ļ | | | | _ |
| | | | | | | | | <u> </u> | | | | <u> </u> | | | <u> </u> | | | | | <u> </u> | | | |
| | | | | | | | ! | | | | | | | | | ļ | | | | | | ļ | _ |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | Lab number |
| | | | | | | | | | | 1 | | | | | | | | | | | | | Cab number |
| | - | | | | 1 | | | | | | | | | | | | | | | | | | Turnaround time |
| | | | | - | | | | | | | | | | | | | | | 1 | | | | Priority Rush 1 Business Day |
| Condition | of sample | : | good | 1 | | | | 1 | | 1 i _ | / | e receix | red . | C | R | | | | · | | | | Rush |
| Relinquish | ed by san | npler |] | | | | Date | -91 | Time 210 | Rece | fived by | | m | X | 2k 201 | Jar | ml | \times | | | | | 2 Business Days |
| Relinquish | g. Z | | 1 | | | | Date , | , | Time | Rece | ived by | | <u>, - v \</u> | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | | <u> </u> | | | | | | Expedited 5 Business Days |
| Relinquish | ied by | - /1 | . ! | | | | Date | | Time | Rece | Wed by | labora | atory | | | | Date 4 | <u>8</u> -7 | | Time | 132 | 5 | Standard 10 Business Days |

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant APF-C-3292 (2-91)



RESNA 3315 Alameda Expwy., #34

San Jose, CA 95112 Attention: Joel Coffman

17, 44, 24 (1) Matrix Descript:

Client Project ID: ARCO 276, Oakland

Water

Analysis Method: EPA 5030/8015/8020

First Sample #: 108-1901 Sampled:

Aug 6, 1991

Received: Analyzed:

Aug 7, 1991 --Aug 15, 1991

Revised: Sep 6, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons μg/L (ppb) | Benzene μg/L (ppb) | Toluene μg/L (ppb) | Ethyl Benzene μg/L (ppb) | Xylenes μg/L (ppb) |
|------------------|-----------------------|--|--------------------------|---------------------------------|-----------------------------------|---------------------------------|
| 108-1901 | W-36.3 MW1 | N.D. | N.D. | N.D. | N.D. | N.D. |
| 108-1902 | W-36.7 MW3 | 430 | N.D. | N.D. | N.D. | N.D. |
| 108-1903 | W-37-MW4 | 520 | N.D. | N.D. | N.D. | N.D. |
| 108-1904 | W-35-MW5 | N.D. | N.D. | N.D. | N.D. | N.D. |

| Detection Limits: 30 0.30 0.30 0.30 0.30 |
|--|
|--|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackly

1081900 RRR <2>

3315 Alameda Expwy., #34 San Jose, CA 95112

Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland

QC Sample Group: 1081900-04

Reported: Aug 26, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | | | Ethyl- | |
|---------------------------|---------------|--------------|--------------|------------|
| | Benzene | Toluene | benzene | Xylenes |
| | | | | |
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Analyst: | G. Meyer | G. Meyer | G. Meyer | G. Meyer |
| Reporting Units: | μg/L | μg/L | μg/L | μg/L |
| Date Analyzed: | Aug 15, 1991 | Aug 15, 1991 | Aug 15, 1991 | |
| QC Sample #: | BLK081591 | BLK081591 | BLK081591 | BLK081591 |
| GO Campie #: | DE11001001 | BEROSTOST | 22.100.001 | DENGO 1001 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| oumple conc. | 14.5. | 11.0. | 11.5. | 74.5. |
| Cultin Cours | | | | |
| Spike Conc. | 10 | 10 | 10 | 00 |
| Added: | 10 | 10 | 10 | 30 |
| | | | | |
| Conc. Matrix | | | | |
| Spike: | 9.6 | 9.5 | 9.5 | 29 |
| | | | | |
| Matrix Spike | | | | |
| % Recovery: | 96 | 95 | 95 | 97 |
| 70 11000 VOI 31 | | 00 | | J. |
| | | | | |
| Conc. Matrix | 40 | 40 | 0.0 | 00 |
| Spike Dup.: | 10 | 10 | 9.9 | 30 |
| Matrix Spike | | | | |
| Duplicate | | | | |
| % Recovery: | 100 | 100 | 99 | 100 |
| | | | | |
| Relative | | | | |
| Helative % Difference: | 4.1 | 5.1 | 4.1 | 3.4 |
| % Difference: | ≒ +. I | ij. I | 77.1 | 0.4 |
| | | | | |

SEQUOIA ANALYTICAL

Elizabeth W. Hackl

Project Manager

Conc. of M.S. - Conc. of Sample x 100 % Recovery: Spike Conc. Added

Relative % Difference: Conc. of M.S. - Conc. of M.S.D.

(Conc. of M.S. + Conc. of M.S.D.) / 2

x 100

1081900.RRR <3>

RESNA 3315 Alameda Expwy., #34 San Jose, CA 95112 Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland Sampled: Aug 6, 1991 Sample Descript: Water, W-37-MW4 Analysis Method: EPA 5030/8010 Lab Number: 108-1903

Received: Aug 7, 1991 Analyzed: Aug 19, 1991 :: Reported: Aug 26, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | | Sample Results µg/L |
|---------------------------|-------------------------|---|------------------------|
| Bromodichioromethane | 50 | | N.D. |
| Bromoform | 100 | *************************************** | N.D. |
| Bromomethane | 100 | | N.D. |
| Carbon tetrachloride | 50 | *************************************** | N.D. |
| Chlorobenzene | 50 | , | N.D. |
| Chloroethane | 100 | | N.D. |
| 2-Chloroethylvinyl ether | 100 | *************************************** | N.D. |
| Chloroform | 50 | *************************************** | N.D. |
| Chloromethane | 100 | ************************* | N.D. |
| Dibromochloromethane | 50 | | N.D. |
| 1,2-Dichlorobenzene | 50 | | N.D. |
| 1,3-Dichlorobenzene | 50 | | N.D. |
| 1,4-Dichlorobenzene | 50 | | N.D. |
| 1,1-Dichloroethane | 50 | *************************************** | N.D. |
| 1,2-Dichloroethane | 50 | *************************************** | N.D. |
| 1,1-Dichloroethene | 50 | | N.D. |
| cis-1,2-Dichloroethene | 50 | | N.D. |
| trans-1,2-Dichloroethene | 50 | *************************************** | N.D. |
| 1,2-Dichloropropane | 50 | | N.D. |
| cis-1,3-Dichloropropene | 100 | | N.D. |
| trans-1,3-Dichloropropene | 100 | | N.D. |
| Methylene chloride | 200 | *************************************** | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | | N.D. |
| Tetrachloroethene | 50 | * *********************** | 1,700 |
| 1,1,1-Trichloroethane | 50 | | N.D. |
| 1,1,2-Trichloroethane | 50 | | N.D. |
| Trichloroethene | 50 | | N.D. |
| Trichlorofluoromethane | 100 | | N.D. |
| Vinyl chloride | 100 | | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl **Project Manager**

RESNA 3315 Alameda Expwy., #34 San Jose, CA 95112 Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland Sampled: Aug 6, 1991 Sample Descript: Water, W-35-MW5 Analysis Method: EPA 5030/8010 108-1904 Lab Number:

Sampled: Aug 6, 1991 Received: Aug 7, 1991 Aug 19, 1991 Analyzed: Aug 26, 1991 Reported: Tarapedaren och

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | | Sample Results µg/L |
|---------------------------|-------------------------|---|------------------------|
| Bromodichloromethane | 0.50 | | N.D. |
| Bromoform | 1.0 | | N.D. |
| Bromomethane | 1.0 | | N.D. |
| Carbon tetrachloride | 0.50 | *************************************** | N.D. |
| Chlorobenzene | 0.50 | *************************************** | N.D. |
| Chloroethane | 1.0 | | N.D. |
| 2-Chloroethylvinyl ether | 1.0 | *************************************** | N.D. |
| Chloroform | 0.50 | *************************************** | N.D. |
| Chloromethane | 1.0 | *************************************** | N.D. |
| Dibromochloromethane | 0.50 | *************************************** | N.D. |
| 1,2-Dichlorobenzene | 0.50 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | N.D. |
| 1,3-Dichlorobenzene | 0.50 | *************************************** | N.D. |
| 1,4-Dichlorobenzene | 0.50 | *************************************** | N.D. |
| 1,1-Dichloroethane | 0.50 | *************************************** | N.D. |
| 1,2-Dichloroethane | 0.50 | *************************************** | N.D. |
| 1,1-Dichloroethene | 0.50 | | N.D. |
| cis-1,2-Dichloroethene | 0.50 | *************************************** | N.D. |
| trans-1,2-Dichloroethene | 0.50 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | N.D. |
| 1,2-Dichloropropane | 0.50 | *************************************** | N.D. |
| cis-1,3-Dichloropropene | 1.0 | | N.D. |
| trans-1,3-Dichloropropene | 1.0 | | N.D. |
| ` Methylene chloride | 2.0 | *************************************** | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | *************************************** | N.D. |
| Tetrachloroethene | 0.50 | ************************************** | |
| 1,1,1-Trichloroethane | 0.50 | | N.D. |
| 1,1,2-Trichloroethane | 0.50 | *************************************** | N.D. |
| Trichloroethene | 0.50 | ••••• | N.D. |
| Trichlorofluoromethane | 1.0 | | N.D. |
| Vinyl chloride | 1.0 | *************************************** | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl **Project Manager**

1081900.RRR <5>



3315 Alameda Expwy., #34 San Jose, CA 95112

Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland

QC Sample Group: 1081903-04

003-04 Reported: Aug 26, 1991 A

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro- ethene | Trichloro- ethene | Chloro- benzene | |
|---|---|---|---|--|
| Method: Analyst: Reporting Units: Date Analyzed: QC Sample #: | EPA 8010 J. Montierth μg/L Aug 19, 1991 BLK081991 MS | EPA 8010 J. Montierth μg/L Aug 19, 1991 BLK081991 MS | EPA 8010 J. Montienth μg/L Aug 19, 1991 BLK081991 MS | |
| Sample Conc.: | N.D. | N.D. | N.D. | |
| Spike Conc. Added: | 2.0 | 2.0 | 2.0 | |
| Conc. Matrix Spike: | 2.0 | 1.7 | 1.7 | |
| Matrix Spike % Recovery: | 100 | 85 | 85 | |
| Conc. Matrix Spike Dup.: | 2.2 | 1.9 | 1.8 | |
| Matrix Spike Duplicate % Recovery: | 110 | 95 | 90 | |
| Relative % Difference: | 9.5 | 11 | 5.7 | |

SEQUOIA ANALYTICAL

Elizabeth W. Hacki

Project Manager

Conc. of M.S. - Conc. of Sample x 100 % Recovery: Spike Conc. Added

Relative % Difference: Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

1081900.RRR <6>

3315 Alameda Expwy., #34 San Jose, CA 95112

Attention: Joel Coffman CONTRACTOR

Lab Number:

. .. !?

Client Project ID: ARCO 276, Oakland Sampled: Aug 6, 1991 Sample Descript: Water, W-36-MW4

Received:

Aug 6, 1991 Aug 7, 1991 ::

8/19-20 /91 ...

108-1905

Analyzed: Reported:

Aug 26, 1991

LABORATORY ANALYSIS

| Analyte | Detection Lim mg/L | it | Sample Results mg/L |
|--|-----------------------|---|------------------------|
| Cadmium | 0.010 | 144444444444444444444444444444444444444 | N.D. |
| Chromium | 0.010 | | 0.065 |
| Lead | 0.0050 | | 0.0067 |
| Zincionoriotere en | 0,010 | ***************************** | |
| Nickelananananananananananananananananananan | 0.050 | ********************* | 0.096 |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

-Elizabeth W. Hackl Project Mon-

1081900.RRR <7>

RESNA 3315 Alameda Expwy., #34 San Jose, CA 95112 Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland

QC Sample Group: 108-1905

Reported: Aug 26, 1991

QUALITY CONTROL DATA REPORT

| | | | | | | |
|--|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| ANALYTE | Lead | Cadmium | Chromium | Nickel | Zinc | |
| | | | | | | |
| Method: Analyst: Reporting Units: | EPA 239.2 V. Patel mg/L | EPA 200.7 R. Sharma mg/L | EPA 200.7 R. Sharma mg/L | EPA 200.7 R. Sharma mg/L | EPA 200.7 R. Sharma mg/L | |
| Date Analyzed: QC Sample #: | Aug 19, 1991 108-1943 | Aug 20, 1991 108-2347 | Aug 20, 1991 108-2347 | Aug 20, 1991 108-2347 | Aug 20, 1991 108-2347 | |
| Sample Conc.: | N.D. | 0.013 | 0.040 | N.D. | 1.3 | |
| Spike Conc. Added: | 0.10 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Conc. Matrix Spike: | 0.092 | 0.99 | 1.0 | 1.0 | 2.3 | |
| Matrix Spike % Recovery: | 92 | 98 | 96 | 100 | 100 | |
| Conc. Matrix Spike Dup.: | 0.098 | 1.0 | 1.0 | 1.0 | 2.4 | |
| Matrix Spike Duplicate % Recovery: | 98 | 99 | 96 | 100 | 110 | |
| Relative % Difference: | 6.3 | 1.0 | 0.0 | 0.0 | 4.3 | |

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

% Recovery: Conc. of M S. - Conc. of Sample x 100 Spike Conc. Added

Conc. of M S. - Conc. of M S.D. Relative % Difference:

x 100 (Conc. of M.S. + Conc. of M.S.D.) / 2

1081900.RRR <8>

| ARCO | Produ | JCts of Atlanti | Comp cRichfield | pany Company | \$ | | | Task O | rder No. | 7 | S | 4-9 | 0 | 3 | | · | | · · | | | | C | Chain of Custody |
|---|----------|--------------------|--------------------|--------------|-----------------|---------|--------------|---------------|----------------------------------|--|-------------------------------|--|--|-------------------------|---------------|--------------|--------------|--------------|----------------------|--|-------------|---------------|------------------------------------|
| ARCO Facil | ity no | h 7/ | <i>A</i> 2 | Cit | y aculutu) 🗸 | ~ A P I | Anin | <u></u> | | Project | manag | ger | | OF/ | | 4.47 | 115 | | ۔۔۔۔۔ | | | | Laboratory name |
| ARCO engi | neer | 2016 | , 0 & | Ire | iciiity) | MAKE | Telephor | ne no | | Telepho | one no | JOE | L C | :0F/ | -m | Fax | no no | <u>u L</u> . | | | | | SEQ401A |
| Consultant | ECH. | RIST | 15 | | | | (ARCO) | Address | 33,7 | (Consu | ltant)(4 | <u>t0</u> 8). | 264 | 7-77 | 23 | (Co | nsultar | 11) (40 | 8) 7 | .64- | 243 | 35 | SEQ 4014 Contract number |
| ARCO Facil 276- ARCO engli KYL Consultant RE | SNA | · | | | | | | (Consulta | 337公 int) <u>5<i>1</i>4</u> 元 | 7051 | MAR E.C | A A | EXP | RE | s ς ω | AY | SU17 | T1E 3 | | | | | |
| 1 | | | | Matrix | | 1 | rvation | | | | , , | | | | | | | [] | 7000 | | | | Method of shipment |
| Sample I D | Lab no | Container no | Soil | Water | Other | lce | Acid | Sampling date | Sampling time | BTEX 602/EPA 8020 | BTEX/TPH EPA M602/8020/801 | TPH Modified 8015 Gas Diesel | Oil and Grease 4131 4132 | TPH EPA 418 1/SM503E | EPA 601(8610) | EPA 624/8240 | EPA 625/8270 | TCLP Semi | CAM Metals EPA 6010/ | Lead Org IOHS ☐ Lead EPA 742017421 ☐ | | | |
| W-36- | nws | | | X | | X | | 9-3-91 | 18:30 | | | | | | X | | | | ١ | 3C | l | Α. | Special detection mut/reporting |
| W-37 | mw3 | | ļ | X | | X | | 9-3-91 | 18:05 | <u> </u> | | | | | X | | | | 1 | 0 | 0 | 1 | |
| w -36 | ì | | | LX. | | _×_ | | 9-3-91 | 17:55 | | | | | | X | | | | | \bigcirc | う | _ | |
| W-36 | mw4 | | ļ | <u></u> | | X | | 9-3-91 | 18:15 | <u> </u> | ļ | | | | 人 | | | | <u> </u> | \bigcirc | 4 | | Special QA/QC |
| w-36-1 | NWIR | | | X_ | | X | | 9-3-91 | | Ho | 2 | <i>b</i> | | | | | | ļ <u> </u> | <u> </u> | | | | |
| | | | | | 1 | | | | | | | | | | | | | , | | | | | |
| | | 11 | | | <u> </u> | | | | | | | | | | | | | | | | | - | Remarks |
| | | | | - | | | | | | | ļ | | | _ | | | ļ | | ļ | | | . | 5-DAY |
| | | | <u> </u> | | | | | | | <u> </u> | | | | | | | | | | | | | TURNI-APALLUL |
| | | | | | | | | | | | | | | 1 | | | | | | | | | TURN-AROUND |
| | | | | | | | | | | <u> </u> | | | | ļ <u>.</u> | | | | <u> </u> | | | | , | |
| | | | | ļ | | | | | | <u> </u> | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | Lab number |
| | | | | | | | | | | | | | | | | | | | | | | | Turnaround time |
| | | | <u> </u> | <u> </u> | | | | | | | | | | | | | | | | | | | Priority Rush 1 Business Day |
| Condition o | f sample | | 900 | od | | | | | | Temp | erature | receive | ed: | c | ڳ ــ | | | | | | | | Rush |
| Relinquishe | | pler e | — 1 | | | | Date 9-4- | -91 | Time 1014/Av | Recei | ved by | -61 | fill | 'n- | | | | | | | | | 2 Business Days |
| Relinguishe | | 1/1/16 | · · · | | | | Date | | Time [139,44 | | ved by | | | | | | | | | ·········· | | | Expedited 5 Business Days |
| Relinquishe | d by | | | | | | Date | | Time | Recei | F 11 | laborat | | | | | Date 9 | -4 | | Time | 200 | | Standard 10 Business Days |

Distribution: White copy — Laboratory, Canary copy — ARCO Environmental Engineering, Pink copy — Consultant VAPPC-3292 (2-91)

SEP 1 R 1991

APPLIED GEOSYSTEMS SAN JOSE BRANCH

RESNA 3315 Almaden Expwy., Suite 34 San Jose, CA 95112 Attention: Joel Coffman

Project: ARCO 276, Oakland

Enclosed are the results from 4 water samples received at Sequoia Analytical on September 4,1991. The requested analyses are listed below:

| SAMPLE # | SAMPLE DESCRIPTION | DATE OF COLLECTION | TEST METHOD | |
|-------------|--------------------|--------------------|---------------|--|
| 1091201 A-C | Water, W-36-MW5 | 9/4/91 | EPA 5030/8010 | |
| 1091202 A-C | Water, W-37-MW3 | 9/4/91 | EPA 5030/8010 | |
| 1091203 A-C | Water, W-36-MW1 | 9/4/91 | EPA 5030/8010 | |
| 1091204 A-C | Water, W-36-MW4 | 9/4/91 | EPA 5030/8010 | |

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland Sample Descript: Water, W-36-MW5

6, Oakland Sampled: Sep 4, 1991 Received:

Sep 4, 1991 %

Analysis Method: EPA 5030/8010 109-1201 A-C Lab Number:

Analyzed: Reported: างสิงคุมการสมัยเรื่องกระเล่นสัญญาสมาสัยสมัญให้สัง ราก เส

Sep 12, 1991 1 Sep 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Lim µg/L | it | Sample Results µg/L |
|---------------------------|-----------------------|---|------------------------|
| Bromodichloromethane | 0.75 | *************************************** | N.D. |
| Bromoform | 1.5 | | N.D. |
| Bromomethane | 1.5 | | N.D. |
| Carbon tetrachioride | 0.75 | | N.D. |
| Chlorobenzene | 0.75 | • | N.D. |
| Chloroethane | 1.5 | | N.D. |
| 2-Chloroethylvinyl ether | 1.5 | *************************************** | N.D. |
| Chloroform | 0.75 | | N.D. |
| Chloromethane | 1.5 | | N.D. |
| Dibromochloromethane | 0.75 | | N.D. |
| 1,2-Dichlorobenzene | 0.75 | | N.D. |
| 1,3-Dichlorobenzene | 0.75 | *************************************** | N.D. |
| 1,4-Dichlorobenzene | 0.75 | *************************************** | N.D. |
| 1,1-Dichloroethane | 0.75 | | N.D. |
| 1,2-Dichloroethane | 0.75 | | N.D. |
| 1,1-Dichloroethene | 0.75 | *************************************** | N.D. |
| cis-1,2-Dichloroethene | 0.75 | | N.D. |
| trans-1,2-Dichloroethene | 0.75 | | N.D. |
| 1,2-Dichloropropane | 0.75 | *************************** | N.D. |
| cis-1,3-Dichloropropene | 1.5 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | N.D. |
| trans-1,3-Dichloropropene | 1.5 | *************************************** | N.D. |
| Methylene chloride | 3.0 | | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.75 | 444444444444 | N.D. |
| Tetrachloroethene | 0.75 | | 25 |
| 1,1,1-Trichloroethane | 0.75 | | N.D. |
| 1,1,2-Trichloroethane | 0.75 | ******************************* | N.D. |
| Trichloroethene | 0.75 | | N.D. |
| Trichlorofluoromethane | 1.5 | | N.D. |
| Vinvl chloride | 1.5 | ****************************** | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Elizabeth W. Hacki Project Manager

3315 Almaden Expwy., Suite 34 San Jose, CA 95112 Attention: Joel Coffman

Sample Descript:

3 (1.3) 1. 3. 40 (3.4) 2. 40 (2.3) 2. 40 (2.3) Client Project ID: ARCO 276, Oakland Water, W-37-MW3

Sampled: Received:

Sep 4, 1991 Sep 4, 1991 ...

Analysis Method: EPA 5030/8010 Lab Number:

109-1202 A-C

Analyzed: Sep 12, 1991 Reported: Sep 13, 1991. The rest two transports of the section with a section of

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | | Sample Results µg/L |
|---------------------------|-------------------------|--|------------------------|
| Bromodichloromethane | 50 | | N.D. |
| Bromoform | 100 | | N.D. |
| Bromomethane | 100 | •••••• | N.D. |
| Carbon tetrachloride | 50 | *************************************** | N.D. |
| Chlorobenzene | 50 | *************************************** | N.D. |
| Chloroethane | 100 | *************************************** | N.D. |
| 2-Chloroethylvinyl ether | 100 | *************************************** | N.D. |
| Chloroform | 50 | | N.D. |
| Chloromethane | 100 | | N.D. |
| Dibromochloromethane | 50 | | N.D. |
| 1,2-Dichlorobenzene | 50 | | N.D. |
| 1,3-Dichlorobenzene | 50 | | N.D. |
| 1,4-Dichlorobenzene | 50 | | N.D. |
| 1,1-Dichloroethane | 50 | *************************************** | N.D. |
| 1,2-Dichloroethane | 50 | *************************************** | N.D. |
| 1,1-Dichloroethene | 50 | | N.D. |
| cis-1,2-Dichloroethene | 50 | | N.D. |
| trans-1,2-Dichloroethene | 50 | | N.D. |
| 1,2-Dichloropropane | 50 | | N.D. |
| cis-1,3-Dichloropropene | 100 | | N.D. |
| trans-1,3-Dichloropropene | 100 | | N.D. |
| Methylene chloride | 200 | | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | | N.D. |
| Tetrachloroethene | 50 | ้ องเองเองเองเองเองเองเองเองเองเองเองเองเอ | 1,600 |
| 1,1,1-Trichloroethane | 50 | *************************************** | N.D. |
| 1,1,2-Trichloroethane | 50 | , | N.D. |
| Trichloroethene | 50 | | N.D. |
| Trichlorofluoromethane | 100 | | N.D. |
| Vinyl chloride | 100 | | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

1091201.RRR <2>

3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Joel Coffman

Lab Number: . ..

Sample Descript: Water, W-36-MW1 Analysis Method: EPA 5030/8010

Client Project ID: ARCO 276, Oakland Sampled: Sep 4, 1991 Sep 4, 1991 Sep 4, 1991 Received:

Sep 12, 1991 Analyzed: 109-1203 A-C Reported: Sep 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | | Sample Results µg/L |
|---------------------------|-------------------------|---|------------------------|
| Bromodichloromethane | 0.50 | *************************************** | N.D. |
| Bromoform | 1.0 | | N.D. |
| Bromomethane | 1.0 | | N.D. |
| Carbon tetrachloride | 0.50 | | N.D. |
| Chlorobenzene | 0.50 | | N.D. |
| Chloroethane | 1.0 | | N.D. |
| 2-Chloroethylvinyl ether | 1.0 | | N.D. |
| Chloroform | 0.50 | | N.D. |
| Chloromethane | 1.0 | | N.D. |
| Dibromochloromethane | 0.50 | ••••• | N.D. |
| 1,2-Dichlorobenzene | 0.50 | *************************************** | N.D. |
| 1,3-Dichlorobenzene | 0.50 | *************************************** | N.D. |
| 1,4-Dichlorobenzene | 0.50 | | N.D. |
| 1,1-Dichloroethane | 0.50 | | N.D. |
| 1,2-Dichloroethane | 0.50 | | N.D. |
| 1,1-Dichloroethene | 0.50 | | N.D. |
| cis-1,2-Dichloroethene | 0.50 | | N.D. |
| trans-1,2-Dichloroethene | 0.50 | | N.D. |
| 1,2-Dichloropropane | 0.50 | •••••• | N.D. |
| cis-1,3-Dichloropropene | 1.0 | | N.D. |
| trans-1,3-Dichloropropene | 1.0 | | N.D. |
| Methylene chloride | 2.0 | | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | | <u>N.D.</u> |
| Tetrachloroethene | 0.50 | ***************** | |
| 1,1,1-Trichloroethane | 0.50 | | N.D. |
| 1,1,2-Trichloroethane | 0.50 | | N.D. |
| Trichloroethene | 0.50 | | N.D. |
| Trichlorofluoromethane | 1.0 | | N.D. |
| Vinyl chloride | 1.0 | | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

3315 Almaden Expwy., Suite 34

San Jose, CA 95112

Attention: Joel Coffman

Client Project ID: ARCO 276, Oakland Sampled: Sep 4, 1991

Sample Descript: Water, W-36-MW4 Analysis Method: EPA 5030/8010

109-1204 A-C Reported: Sep 13, 1991 Lab Number:

Received:

Sep 4, 1991

Analyzed:

Sep 12, 1991 Sep 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | | Sample Results µg/L |
|---------------------------|-------------------------|---|------------------------|
| Bromodichloromethane | 50 | *************************************** | N.D. |
| Bromoform | 100 | | N.D. |
| Bromomethane | 100 | | N.D. |
| Carbon tetrachloride | 50 | | N.D. |
| Chlorobenzene | 50 | *************************************** | N.D. |
| Chloroethane | 100 | | N.D. |
| 2-Chloroethylvinyl ether | 100 | *************************************** | N.D. |
| Chloroform | 50 | *************************************** | N.D. |
| Chloromethane | 100 | *************************************** | N.D. |
| Dibromochloromethane | 50 | *************************************** | N.D. |
| 1,2-Dichlorobenzene | 50 | | N.D. |
| 1,3-Dichlorobenzene | 50 | *************************************** | N.D. |
| 1,4-Dichlorobenzene | 50 | *************************************** | N.D. |
| 1,1-Dichloroethane | 50 | | N.D. |
| 1,2-Dichloroethane | 50 | | N.D. |
| 1,1-Dichloroethene | 50 | | N.D. |
| cis-1,2-Dichloroethene | 50 | *************************************** | N.D. |
| trans-1,2-Dichloroethene | 50 | *************************************** | N.D. |
| 1,2-Dichloropropane | 50 | | N.D. |
| cis-1,3-Dichloropropene | 100 | *************************************** | N.D. |
| trans-1,3-Dichloropropene | 100 | *************************************** | N.D. |
| Methylene chloride | 200 | *************************************** | N.D. |
| 1,1,2,2-Tetrachioroethane | 50 | | N.D |
| Tetrachloroethene | 50 | ************************ | . 2,000 |
| 1,1,1-Trichloroethane | 50 | *************************************** | N.D. |
| 1,1,2-Trichloroethane | 50 | | N.D. |
| Trichloroethene | 50 | | N.D. |
| Trichlorofluoromethane | 100 | | N.D. |
| Vinyl chloride | 100 | *************************************** | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

1091201.RRR <4>



3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Joel Coffman

大型的大型电影,在1900年,1900年,1900年,1900年的1900年的1900年的1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年 Client Project ID: ARCO 276, Oakland

QC Sample Group: 1091201-04

Reported: Sep 13, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro- ethene | Trichloro- ethene | Chloro- benzene |
|---|--|--|--|
| Method: Analyst: Reporting Units: Date Analyzed: QC Sample #: | EPA 8010 A. Fulcher μg/L Sep 12, 1991 Matrix | EPA 8010 A. Fulcher μg/L Sep 12, 1991 Matrix | EPA 8010 A. Fulcher μg/L Sep 12, 1991 Matrix |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 5.0 | 5.0 | 5.0 |
| Conc. Matrix Spike: | 5.4 | 5.8 | 4.9 |
| Matrix Spike % Recovery: | 110 | 120 | 98 |
| Conc. Matrix Spike Dup.: | 5.1 | 5.2 | 5.1 |
| Matrix Spike Duplicate % Recovery: | 100 | 100 | 100 |
| Relative % Difference: | 5.7 | 11 | 4.0 |

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

Conc. of M.S. - Conc. of Sample x 100 % Recovery: Spike Conc. Added

Relative % Difference: Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

1091201.RRR <5>

| a print or type. Form designed for use on sitte (12-pitch typewriter). | | | | | |
|--|--|--|---|---|---|
| UNIFORM HAZARDOUS C A L O O O O O O O O O O O O O | Manifest Document No. | | of I is no | t required t | e shaded areas by Federal law. |
| 3. Generator's Name and Mailing Address | | 90549527 | | | |
| P. O. Box 5811, San Mateo, CA 94402 4. Generator's Phone (415) 571-2434/571-2428 | | H | re Generator's Y H Q 3 | 6 - 0 | 1 5 6 6 0 |
| 5 Transporter 1 Company Name 6. US EPA ID Num | C. State Transporter's ID 200505 D. Transporter's Phone (415) 543-4835 | | | | |
| H & H Ship Service Company C A D U 4 7 7 7. Transporter 2 Company Name 8 US EPA ID Num | nber | | le Transporter | | |
| | 1111 | | neporter's Phor te Facility's ID | 10 | |
| 9. Designated Facility Name and Site Address 10 US EPA ID Num H & H Ship Service Company | | C | ADOO | 4 7 7 | 1 1 6 8 |
| 220 China Basin Street | : i1 i6 i8 | I . | 15) 543- | 4835 | |
| | 12. Cont | ainers | 13 Total Quantit | | l. Waste No. |
| 11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | No. | Туре | | Wt/Vo | State 1.34 |
| OIL AND WATER | ו, פ, ס | T TP | 00:0 | | EPA/Other |
| NON-RORA HAZARDOUS WASTE LIQUID | 10 10 11 | 1' | OPIL | 101 | State |
| b. | | | | 1 | EPA/Other |
| | | 11 | | <u> </u> | State |
| c. | | | | | EPA/Other |
| | | 11- | 1 1 | <u> </u> | State |
| d. | | | | 1 | EPA/Other |
| J. Additional Econoptions for Materiais Listed Above | | K H | andling Codes | or Wastes | Listed Above |
| · 1 | | | | | |
| 15. Special Heading Instructions and Additional Information JOB #8051 24 Hr. Emergency Contact: H & H #(415) 543-483 | JOB SIT | | ARCO STA 10600 Ma Oakland, | cArthu | r Bl v d. |
| 15. Special Handling Instructions and Additional Information JOB #8051 24 Hr. Emergency Contact: H & H # (415) 543-483 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR. 16. GEMERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are pleasified, packed, marked, and labeled, and are in all respects in proper concentrational government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of treating the appropriate practicable method of treating the appropriate practicable method of treating the appropriate practicable and that I have selected the practicable method of treating the appropriate practicable and that I have selected the practicable method of treating the practicable method of the practicable method | nent are fully and dition for transpor evolume and toxic atment, storage. C | accurate t by high sity of wa or dispos have me | 10600 Ma Oak Land. | Calif | ornia per shipping name le international and se I have determined which minimizes the ninimize my waste |
| 15. Special Handling Instructions and Additional Information JOB #3051 24 Hr. Bisergency Contact: H & H # (415) 543-483 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR. 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are placelified, packed, marked, and labeled, and are in all respects in proper concentional government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree to be economically practicable and that I have selected the practicable method of tree generation and select the best waste management method that is available to me and Printed/Typed Name Signature | nent are fully and dition for transpor evolume and toxic atment, storage. C | accurate t by high sity of wa or dispos have me | 10600 Ma Oak Lanci. Hy described all way according aste generated all currently averaged a good fail | Calif | ornia per shipping name le international and se I have determined |
| 15. Special Handling Instructions and Additional Information JOB #8061 24 Hr. Bisergency Contact: H & H # (415) 543-483 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR. 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignm and are pleasified, packed, marked, and labeled, and are in all respects in proper concentional government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of treat to be economically practicable and that I have selected the practicable method of treat to be economically practicable and that I have selected the practicable method of treat to be economically practicable and that I have selected the practicable method of treat and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and Printed/Typed Name Printed/Typed Name | nent are fully and dition for transpor evolume and toxic atment, storage. C | accurate t by high sity of wa or dispos have me | 10600 Ma Oak Land. | Calif | per shipping name le international and swhich minimizes the number of the state of |
| 15. Special Handling Instructions and Additional Information JOB #3051 24 Hr. Exergency Contact: H & H # (415) 543-483 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignm and are pleasified, packed, marked, and labeled, and are in all respects in proper concentrational government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of treating the present and future threat to human health and the environment; OR, If I am a small que generation and select the best waste management method that is available to me and Printed/Typed Name 17. Treatment of Management of Receipt of Materials Signature Signature | nent are fully and dition for transpor evolume and toxic atment, storage. C | accurate t by high sity of wa or dispos have me | 10600 Ma Oak Lanci. Hy described all way according aste generated all currently averaged a good fail | Calif | ornia per shipping name le international and se i have determined which minimizes the minimize my waste Month Day |
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See Instructions on Back of Page 6 and Front of Page 7

Toxic Substances Control Division Sacramento, California

| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. | ا ا | Manifest | | Page 1 | | | | | |
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| Generator's Name and Mailing Address | | | | 1 | | | 905 | 3320 | 8 | |
| BCO P. O. Box 5811, San Ma | teo. CA 94402 | | | | tate Genera | | | · · · · · · · · · · · · · · · · · · · | | |
| Benerator's Phone (415) 571-24 | | | | | | | | 1 5 6 6 | 0 | |
| 5. Transporter ! Company Name 6. US EPA ID Number | | | | ~ = | C. State Transporter's ID 200545 D. Transporter's Phone (4453 549 4095) | | | | | |
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