

ENVIRONMENTAL RESOLUTIONS, INC.

October 20, 1995
ERI 200913.R03

Ms. Marla Guensler
Exxon Company, U.S.A.
2300 Clayton Road, Suite 490
Concord, California 94520

Subject: Quarterly Groundwater Monitoring, Third Quarter 1995, Exxon Service Station
7-0236, East 14th Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the third quarter 1995 groundwater monitoring event at the subject site (Plate 1). The purpose of quarterly monitoring is to evaluate fluctuations in dissolved hydrocarbon concentrations in groundwater and to evaluate the groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On August 8, 1995, ERI measured depth to water (DTW) in monitoring wells MW1 through MW7, and collected groundwater samples from these wells for laboratory analysis. No measurable liquid phase hydrocarbons or sheen were observed on groundwater in the monitoring wells. ERI's groundwater sampling protocol is attached (Attachment A).

Based on DTW measurements the groundwater appears to flow southwest with a hydraulic gradient ranging of 0.027 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

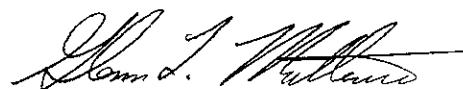
Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbons as gasoline (TPHg), and total extractable petroleum hydrocarbons as diesel (TEPHd) using the methods listed in the notes in Table 1. The laboratory analysis reports and chain of custody records are attached (Attachment B). Cumulative results of laboratory analysis of groundwater samples are summarized in Table 1. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

LIMITATIONS

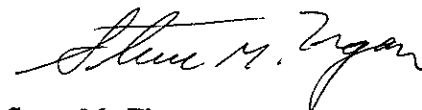
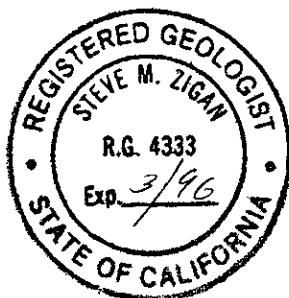
This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A. and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5994.

Sincerely,
Environmental Resolutions, Inc.



Glenn L. Matteucci
Staff Geologist



Steve M. Zigan
R.G. 4333
H.G. 133

Enclosures: Table 1: Cumulative Groundwater Monitoring and Sampling Data
Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan
Attachment A: Groundwater Sampling Protocol
Attachment B: Laboratory Reports and Chain of Custody Record

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 1 of 5)

| Well ID # (TOC) | Sampling Date | SUBJ < > | DTW feet | Elev. > | TEPHd < > | TPHg parts per billion | B | T | E | X | MTBE |
|--------------------|------------------|-----------------------|-------------|------------|------------------------|---------------------------|-------|------|-------|------|------|
| MW1 (20.20) | 03/15/91 | NR | 7.44 | 12.76 | --- | <50 | <0.3 | 0.5 | 0.3 | 1.3 | --- |
| | 01/15/92 (H,T) | NR | 10.60 | 9.60 | <300 | <50 | <0.5 | 0.7 | <0.5 | 0.9 | --- |
| | 03/23/92 (H,T) | NR | 6.38 | 13.82 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 04/06/92 | NR | 7.55 | 12.65 | --- | --- | --- | --- | --- | --- | --- |
| | 07/08/92 (H,T) | NR | 9.85 | 10.35 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 10/13/92 (H,T) | NR | 12.95 | 7.25 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/09/93 | NLPH | 7.38 | 12.82 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/04/93 | NLPH | 8.55 | 11.65 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/02/93 | NLPH | 10.85 | 9.35 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/16/93 | NLPH | 12.43 | 7.77 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/04/94 | NLPH | 9.10 | 11.10 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 04/29/94 | NLPH | 8.45 | 11.75 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/20/94 | NLPH | 10.73 | 9.47 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 12/14/94 | NLPH | 7.35 | 12.85 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/27/95 | NLPH | 7.06 | 13.14 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 05/18/95 | NLPH | 7.32 | 12.88 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/08/95 | NLPH | 9.24 | 10.96 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| MW2 (19.15) | 03/15/91 (H,T) | NR | 9.05 | 10.10 | 120 | 1,700 | 190 | 2.6 | 12 | 64 | --- |
| | 01/15/92 (H,T) | NR | 11.60 | 7.55 | 1,000 | 6,800 | 81 | <10 | 320 | 170 | --- |
| | 03/23/92 (H,T) | NR | 9.42 | 9.73 | 3,000 | 7,100 | 740 | 30 | 810 | 490 | --- |
| | 04/06/92 | NR | 9.09 | 10.06 | --- | --- | --- | --- | --- | --- | --- |
| | 07/08/92 | NR | 10.08 | 9.07 | 2,100 | 7,000 | 250 | 14 | 300 | 160 | --- |
| | 10/13/92 | NR | 12.06 | 7.09 | 1,900 | 3,200 | 97 | 2.6 | 97 | 53 | --- |
| | 03/09/93 | sheen | 9.71 | 9.44 | --- | --- | --- | --- | --- | --- | --- |
| | 06/04/93 | sheen | 9.40 | 9.75 | --- | --- | --- | --- | --- | --- | --- |
| | 09/02/93 (M) | sheen | 10.46 | 8.69 | 3,700 | 11,000 | 210 | 18 | 260 | 59 | --- |
| | 11/16/93 (M*) | NLPH | 11.44 | 7.71 | 3,300 | 8,500 | 75 | 27 | 51 | 32 | --- |
| | 02/04/94 | NLPH | 10.41 | 8.74 | 2,700 | 4,400 | 120 | 16 | 22 | 7.7 | --- |
| | 04/29/94 (C,M*) | NLPH | 9.51 | 9.64 | 2,000 | 380 | 5.9 | 0.6 | 1.6 | <0.5 | --- |
| 09/20/94 | NLPH | 10.57 | 8.58 | 1,800** | 19,000 | 190 | 29*** | 110 | 27*** | --- | |

See notes on Page 5 of 5

**TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-0236
6630 East 14th Street, Oakland, California
(Page 2 of 5)

| Well ID # (TOC) | Sampling Date | SUBJ < > | DTW feet | Elev. > < | TEPHd < > | TPHg parts per billion | B | T | E | X | MTBE |
|------------------------|------------------|-----------------------|-------------|------------------------|------------------------|---------------------------|------|-------|------|-------|--------|
| MW2 (cont.) (19.15) | 12/14/94 | sheen | 8.90 | 10.25 | --- | --- | --- | --- | --- | --- | --- |
| | 09/20/94 | NLPH | 10.57 | 8.58 | 1,800** | 19,000 | 190 | 29*** | 110 | 27*** | --- |
| | 12/14/94 | sheen | 8.90 | 10.25 | --- | --- | --- | --- | --- | --- | --- |
| | 03/27/95 | NLPH | 7.72 | 11.43 | 1,700 | 6,300 | 210 | 15 | 250 | 43 | --- |
| | 05/18/95 | sheen | 8.65 | 10.50 | 2,000# | 6,000 | 180 | 9.9 | 220 | 55 | --- |
| | 08/08/95 | NLPH | 9.67 | 9.48 | 2,700 | 5,300 | 110 | <20 | 120 | <20 | 36,000 |
| MW3 (19.59) | 03/15/91 (H,T) | NR | 7.84 | 11.75 | 160 | 3,100 | 2.2 | 1.9 | 100 | 84 | --- |
| | 01/15/92 (H,T) | NR | 10.30 | 9.29 | <300 | 250 | 0.7 | 6.8 | 1.5 | 1.5 | --- |
| | 03/23/92 (H,T) | NR | 6.84 | 12.75 | 440 | 640 | <0.5 | 12 | 25 | 6.5 | --- |
| | 04/06/92 | NR | 7.84 | 11.75 | --- | --- | --- | --- | --- | --- | --- |
| | 07/08/92 (H,T) | NR | 8.63 | 10.96 | 960 | 2,900 | <0.5 | 2.6 | 12 | 63.7 | --- |
| | 10/13/92 (H) | NR | 12.10 | 7.49 | 400 | 1,100 | 5.5 | <0.5 | 4.6 | 1.1 | --- |
| | 03/09/93 | sheen | 9.05 | 10.54 | --- | --- | --- | --- | --- | --- | --- |
| | 06/04/93 | sheen | 8.43 | 11.16 | --- | --- | --- | --- | --- | --- | --- |
| | 09/02/93 | NLPH | 10.22 | 9.37 | 690 | 840 | 2.7 | 3.6 | 5.4 | 2.9 | --- |
| | 11/16/93 | NLPH | 11.44 | 8.15 | 310 | 650 | <0.5 | 11 | 7.7 | 2.4 | --- |
| | 02/04/94 | NLPH | 9.27 | 10.32 | 340 | 870 | 0.6 | 14 | 1.2 | 0.8 | --- |
| | 04/29/94 | NLPH | 8.10 | 11.49 | 290 | 790 | <0.5 | <0.5 | 0.8 | 1.0 | --- |
| | 09/20/94 | NLPH | 10.10 | 9.49 | 91** | 1,900 | <0.5 | <0.5 | 11 | 4.4 | --- |
| | 12/14/94 | NLPH | 8.00 | 11.59 | 190 | 1,700 | 17 | 22 | <0.5 | <0.5 | --- |
| | 03/27/95 | NLPH | 7.23 | 12.36 | 1,100 | 1,500 | 5.0 | 3.1 | 6.3 | 3.6 | --- |
| 05/18/95 | NLPH | 7.73 | 11.86 | 470# | 1,000 | <0.5 | <0.5 | 4.1 | 0.94 | --- | |
| 08/08/95 | NLPH | 8.81 | 10.78 | 580 | 1,600 | 12 | <0.5 | 2.4 | 0.63 | 12 | |
| MW4 (19.46) | 04/06/92 | NR | 7.76 | 11.70 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 07/08/92 | NR | 9.56 | 9.90 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 10/13/92 | NR | 12.09 | 7.37 | <80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/09/93 | NLPH | 7.53 | 11.93 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/04/93 | NLPH | 8.50 | 10.96 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/02/93 | NLPH | 10.30 | 9.16 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 3 of 5)

| Well ID # (TOC) | Sampling Date | SUBJ < > | DTW feet | Elev. > < | TEPHd < > | TPHg parts per billion | B | T | E | X | MTBE |
|----------------------|------------------|-----------------------|-------------|------------------------|------------------------|---------------------------|------|------|------|------|------|
| MW4 cont. (19.46) | 11/16/93* | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 02/04/94 | NLPH | 8.82 | 10.64 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 04/29/94(D) | NLPH | 8.55 | 10.91 | 100 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/20/94 | NLPH | 10.21 | 9.25 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 12/14/94 | NLPH | 7.04 | 12.42 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/27/95 | NLPH | 6.38 | 13.08 | 140 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 05/18/95 | NLPH | 7.56 | 11.90 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/08/95 | NLPH | 8.92 | 10.54 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| MW5 (16.95) | 04/06/92 | NR | 10.66 | 6.29 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 07/08/92* | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 10/13/92 | NR | 15.02 | 1.93 | <50 | 69 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/09/93 | NLPH | 10.27 | 6.68 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/04/93 | NLPH | 11.35 | 5.60 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/02/93 | NLPH | 13.15 | 3.80 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/16/93 | NLPH | 14.35 | 2.60 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/04/94 | NLPH | 11.83 | 5.12 | 60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 04/29/94 | NLPH | 11.15 | 5.80 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/20/94 | NLPH | 12.79 | 4.16 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 12/14/94 | NLPH | 9.95 | 7.00 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/27/95 | NLPH | 9.09 | 7.86 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 05/18/95 | NLPH | 10.29 | 6.66 | <50 | <50 | <0.5 | 4.6 | 0.65 | 2.8 | --- |
| | 08/08/95 | NLPH | 11.13 | 5.82 | 51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| MW6 (18.79) | 04/06/92(H) | NR | 8.29 | 10.50 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 07/08/92(H,I) | NR | 9.22 | 9.57 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 10/13/92 | NR | 11.51 | 7.28 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/09/93 | NLPH | 8.26 | 10.53 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/04/93 | NLPH | 8.90 | 9.89 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/02/93 | NLPH | 9.92 | 8.87 | 60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/16/93 | NLPH | 10.65 | 8.14 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 4 of 5)

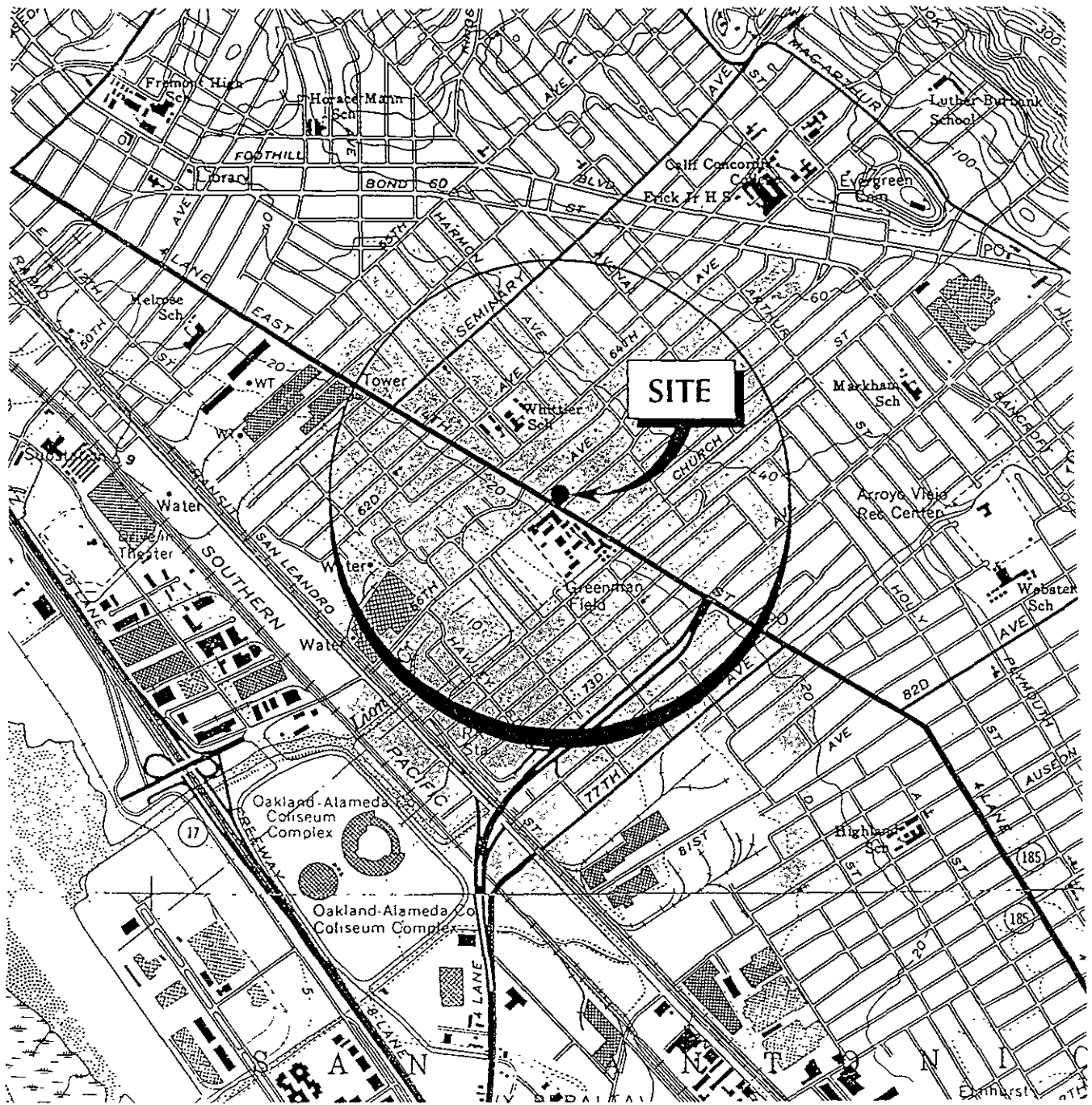
| Well ID # (TOC) | Sampling Date | SUBJ < > | DTW feet | Elev. > < | TEPHd < > | TPHg parts per billion | B | T | E | X | MTBE |
|----------------------|------------------|-----------------------|-------------|------------------------|------------------------|---------------------------|------|------|------|-------|------|
| MW6 cont. (18.79) | 02/04/94 | NLPH | 9.26 | 9.53 | 80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 04/29/94 | NLPH | 8.33 | 10.46 | 110 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 09/20/94 | NLPH | 9.23 | 9.56 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 12/14/94 | sheen | 7.87 | 10.92 | --- | --- | --- | --- | --- | --- | --- |
| | 03/27/95 | NLPH | 7.63 | 11.16 | 54 | 56 | <0.5 | <0.5 | <0.5 | <0.50 | --- |
| | 05/18/95 | NLPH | 8.00 | 10.79 | 71 | 56 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/08/95 | NLPH | 8.92 | 9.87 | 60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| | MW7 (19.23) | 04/06/92 | NR | 8.34 | 10.89 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 07/08/92 | | NR | 10.30 | 8.93 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 10/13/92 | | NR | 12.91 | 6.32 | 94 | 670 | 0.8 | <0.5 | <0.5 | 2.5 | --- |
| 03/09/93* | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/04/93 | | NLPH | 8.68 | 10.55 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 09/02/93 | | NLPH | 10.80 | 8.43 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 11/16/93 | | NLPH | 12.38 | 6.85 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 02/04/94 | | NLPH | 9.28 | 9.95 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 04/29/94 | | NLPH | 9.19 | 10.04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 09/20/94 | | NLPH | 10.85 | 8.38 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 12/14/94 | | NLPH | 8.44 | 10.79 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 03/27/95 | | NLPH | 7.54 | 11.69 | 280 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 05/18/95 | | NLPH | 8.11 | 11.12 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 08/08/95 | NLPH | 9.48 | 9.75 | 52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | |

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Exxon Service Station 7-0236
6630 East 14th Street, Oakland, California
(Page 5 of 5)

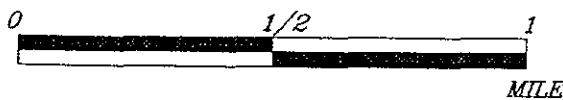
| | | |
|--------|---|--|
| Notes: | | |
| NLPH | = | Liquid phase hydrocarbons not present in well |
| TOC | = | Elevation of top of well casing; |
| SUBJ | = | Results of subjective evaluation, relative to mean sea level in feet sea level (MSL) |
| sheen | = | Liquid phase hydrocarbons present as a sheen |
| NR | = | Not recorded |
| DTW | = | Depth to water |
| Elev. | = | Elevation of groundwater; relative to mean sea level |
| TPHg | = | Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015 |
| TEPHd | = | Total extractable petroleum hydrocarbons as diesel analyzed using modified EPA method 5030/8015 |
| BTEX | = | Benzene, toluene, ethylbenzene, total xylene isomers analyzed using EPA method 5030/8020 |
| MTBE | = | Methyl tert-butyl ether analyzed using EPA method 5030/8020 |
| < | = | Less than the laboratory detection limit |
| - | = | Not sampled/Not measured |
| * | = | Well not accessible : well obstructed / wellhead cover damaged / well paved over |
| ** | = | Lighter hydrocarbons contribute to diesel range quantitation |
| *** | = | Results obtained past technical holding time (10/08/94) due to dilution requirements |
| C | = | High boiling point hydrocarbons are present in sample. |
| D | = | Sample pattern does not match diesel standard pattern. |
| H | = | EPA Method 8010 compounds not detected at or above their respective laboratory detection limits Exceptions: MW-2, 03/15/91, Methylene chloride detected at 1 ppb MW-3, 03/15/91, Methylene chloride detected at 21 ppb |
| M | = | Methyl tert-butyl ether detected at approximately 2,500 ppb |
| M* | = | A compound suspected to be Methyl tert-butyl ether was present |
| T | = | Total Oil and Grease (TOG) using EPA Method 5520 not detected at or above the laboratory detection limit of 5,000 ppb. |



20090001



APPROXIMATE SCALE



Source: U.S.G.S. 7-5 minute topographic quadrangle map Oakland East and San Leandro, Calif. 1980



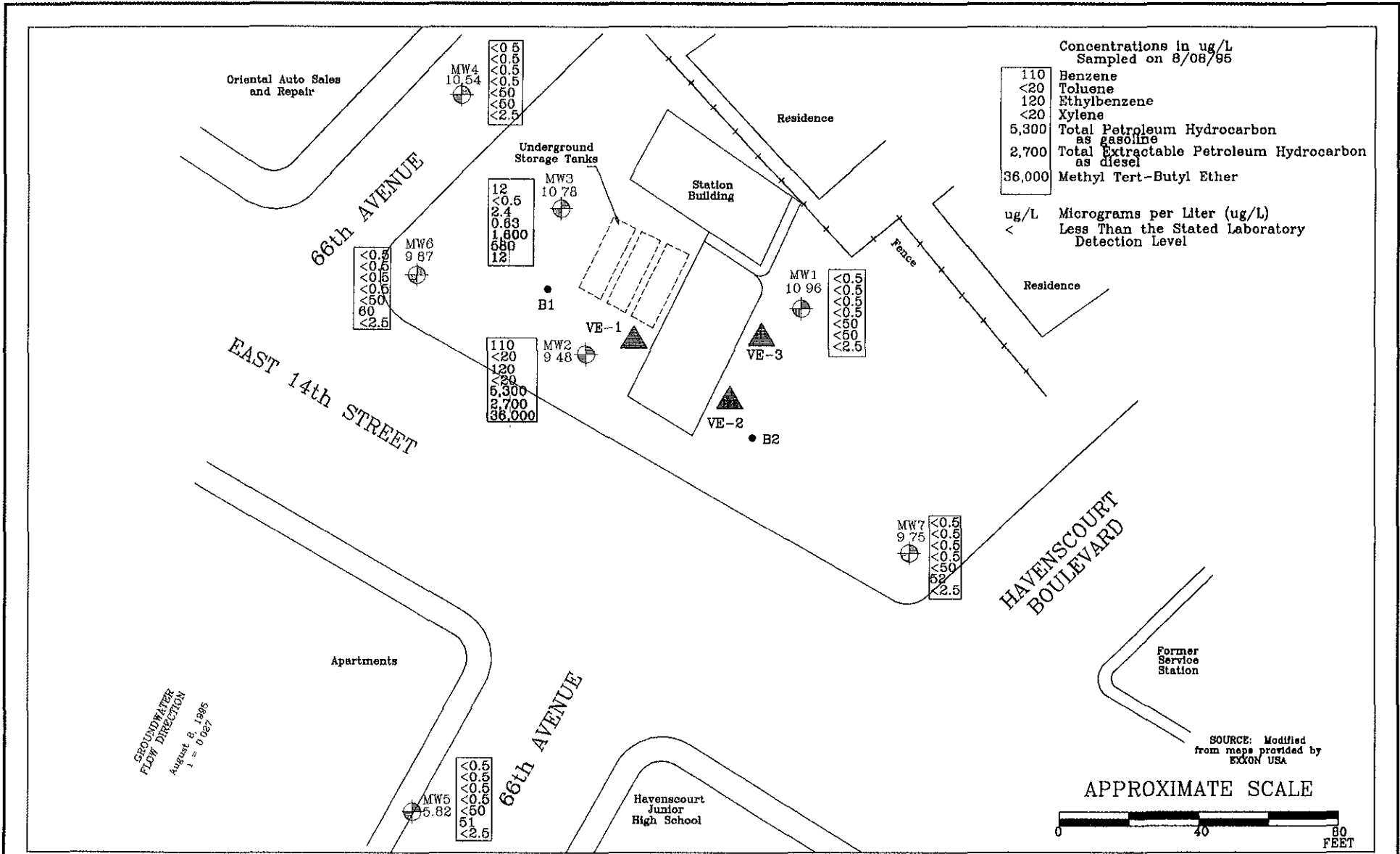
PROJECT ERI 2009

SITE VICINITY MAP

EXXON SERVICE STATION 7-0236
6630 East 14th Street
Oakland, California

PLATE

1



FN 20090002



GENERALIZED SITE PLAN
EXXON SERVICE STATION 7-0236
6630 East 14th Street
Oakland, California

- EXPLANATION**
- Groundwater Monitoring Well
 - Groundwater Elevation in Feet Above Mean Sea Level
 - Vapor Extraction Well
 - Boring Location
 - 1 = Interpreted gradient magnitude



PROJECT NO.
2009

PLATE
2

10/10/95

ATTACHMENT A
GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate phase product level, if present, in each well that contained water and/or separate phase product are measured with a ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of 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 are checked for measurable free-phase hydrocarbons or sheen. Any free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained, or until a minimum of 3 well casing volumes are purged. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". The quantity of water purged from each well is calculated as follows:

1 well casing volume = $r^2h(7.48)$ 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 is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples are collected with a new, disposable Teflon[®] bailer. The groundwater is carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive meniscus. Each vial is 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 are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

ATTACHMENT B

**LABORATORY REPORTS
AND CHAIN OF CUSTODY RECORD**

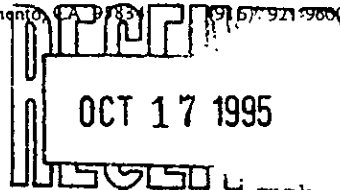


**Sequoia
Analytical**

680 Chesapeake Drive
404 N Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063 (415) 364-9600
Walnut Creek, CA 94598 (510) 988-9600
Sacramento, CA 95831 (916) 921-0100

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100



Environmental Resolutions Client Proj. ID: 200913X, Exxon 7-0236 Sampled: 08/08/95
359 Bel Marin Keys, Suite 20 Sample Descript: W-11-MW3 Received: 08/10/95
Novato, CA 94949 Matrix: LIQUID Extracted: 08/14/95
Attention: Marc Briggs Analysis Method: EPA 8015 Mod Analyzed: 08/16/95
Lab Number: 9508689-14 Reported: 09/29/95

QC Batch Number: GC0814950HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|-------------------------|------------------------|
| TEPH as Diesel Chromatogram Pattern: Unidentified HC | 50 | 580 C9-C24 |
| Surrogates | Control Limits % | % Recovery |
| n-Pentacosane (C25) | 50 150 | 120 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





| | | |
|---|--|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: 200913X, Exxon 7-0236 Sample Descript: W-11-MW3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508689-14 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 09/29/95 |
|---|--|---|

QC Batch Number: GC081395BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|-------------------------|------------------------|
| TPPH as Gas | 50 | 1600 |
| Methyl t-Butyl Ether | 2.5 | 12 |
| Benzene | 0.50 | 12 |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | 2.4 |
| Xylenes (Total) | 0.50 | 0.63 |
| Chromatogram Pattern: Weathered Gas | | C6-C12 |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 155 Q |

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

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





| | | |
|---|--|--|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: 200913X, Exxon 7-0236 Sample Descript: W-10-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9508689-16 | Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/16/95 Reported: 09/29/95 |
|---|--|--|


QC Batch Number: GC0814950HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|--|--------------------------|
| TEPH as Diesel Chromatogram Pattern: Unidentified HC | 100 | 2700 C9-C24 |
| Surrogates n-Pentacosane (C25) | Control Limits % 50 150 | % Recovery 120 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager





| | | |
|---|--|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: 200913X, Exxon 7-0236 Sample Descript: W-10-MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508689-16 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 09/29/95 |
|---|--|---|


QC Batch Number: GC081395BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 2000 | 5300 |
| Methyl t-Butyl Ether | 100 | 36000 |
| Benzene | 20 | 110 |
| Toluene | 20 | N.D. |
| Ethyl Benzene | 20 | 120 |
| Xylenes (Total) | 20 | N.D. |
| Chromatogram Pattern: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 103 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager





| | | |
|---|---|------------------------|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 Attention: Marc Briggs | Client Project ID: 200913X, Exxon Ras #7-0236 Matrix: Liquid Work Order #: 9508686-16 | Reported: Aug 17, 1995 |
|---|---|------------------------|

QUALITY CONTROL DATA REPORT

| |
|-----------------------------------|
| Analyte: Diesel |
| QC Batch#: GC0814950HBPEXZ |
| Analy. Method: EPA 8015M |
| Prep. Method: EPA 3520 |

Analyst: T. Olive
MS/MSD #: 950868916
Sample Conc.: 2700
Prepared Date: 8/14/95
Analyzed Date: 8/16/95
Instrument I.D.#: GCHP5
Conc. Spiked: 1000 µg/L

Result: 3600
MS % Recovery: 90

Dup. Result: 3500
MSD % Recov.: 80

RPD: 2.8
RPD Limit: 0-50

LCS #: BLK081495
Prepared Date: 8/14/95
Analyzed Date: 8/15/95
Instrument I.D.#: GCHP5
Conc. Spiked: 1000 µg/L
LCS Result: 1100
LCS % Recov.: 110

| | |
|-----------------------|--------|
| MS/MSD | |
| LCS | 38-122 |
| Control Limits | |

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Vickie Tague Clark
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949
Attention: Marc Briggs

Client Proj. ID: 200913X, Exxon 7-0236

Received: 08/10/95

Lab Proj. ID: 9508689

Reported: 09/29/95

LABORATORY NARRATIVE

Please Note:

Q = High surrogate recovery on sample 9508689-14 for TPH-Gas/BTEX due to matrix coelution.

TPPH as Gas analysis:

Sample W-11-MW3 was run two times in order to get both TPPH and MTBE values within linear range.

Sample W-10-MW2 was run two times in order to get both TPPH and MTBE values within linear range.

The addition run for both of these samples was on August 12, 1995 on instrument GCHP2.

Original report issued August 17, 1995. Report revised September 29, 1995 to add results from additional analysis.

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Project Manager





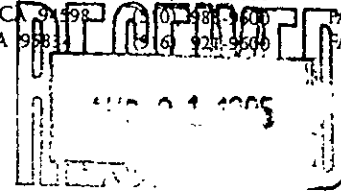
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Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95833

(415) 364-9600
(916) 988-3600
(916) 921-5500

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Proj. ID: Exxon Ras #7-0236
Sample Descript: W-EB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9508686-01

Sampled: 08/08/95
Received: 08/10/95
Analyzed: 08/12/95
Reported: 08/17/95

Attention: Marc Briggs


QC Batch Number: GC081295BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | 0.97 |
| Toluene | 0.50 | 1.4 |
| Ethyl Benzene | 0.50 | 1.1 |
| Xylenes (Total) | 0.50 | 2.9 |
| Chromatogram Pattern: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 102 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



| | | |
|---|--|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-WB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508686-02 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 08/17/95 |
|---|--|---|

QC Batch Number: GC081295BTEX20A
Instrument ID: GCHP20

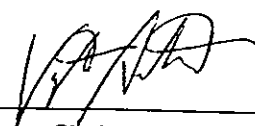
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | |

| Surrogates | Control Limits % | % Recovery |
|------------------|-----------------------------|------------|
| Trifluorotoluene | 70 130 | 107 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Tague Clark
 Project Manager





| | | |
|---|---|--|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-9-MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9508686-04 | Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/11/95 Analyzed: 08/15/95 Reported: 08/17/95 |
| Attention: Marc Briggs | | |

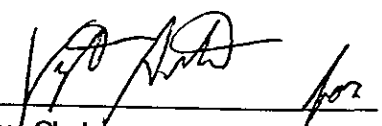
QC Batch Number: GC0811950HBPEXY
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|-----------------------------|------------------------|
| TEPH as Diesel Chromatogram Pattern: | 50 | N.D. |
| Surrogates | Control Limits % | % Recovery |
| n-Pentacosane (C25) | 50 150 | 104 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Tague Clark
 Project Manager



| | | |
|---|---|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-9-MW1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508686-04 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 08/17/95 |
|---|---|---|

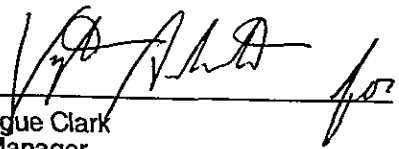
QC Batch Number: GC081295BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | N.D. |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 104 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Tague Clark
 Project Manager



| | | |
|---|--|--|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-11-MW5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9508686-06 | Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/11/95 Analyzed: 08/15/95 Reported: 08/17/95 |
| Attention: Marc Briggs | | |

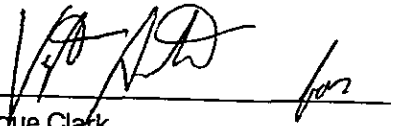
QC Batch Number: GC0811950HBPEXY
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|---|---------------------------|
| TEPH as Diesel Chromatogram Pattern: Unidentified HC Discrete Peak | 50 | 51 C9-C24+ @C11 |
| Surrogates n-Pentacosane (C25) | Control Limits % 50 150 | % Recovery 100 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Tague Clark
 Project Manager



| | | |
|---|--|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-11-MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508686-06 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 08/17/95 |
| Attention: Marc Briggs | | |


QC Batch Number: GC081295BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | N.D. |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 107 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



| | | |
|---|---|---|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-8-MW4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9508686-08 | Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/13/95 Reported: 08/17/95 |
|---|---|---|


QC Batch Number: GC081295BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 103 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager



| | | |
|---|---|--|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-9-MW7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9508686-10 | Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/11/95 Analyzed: 08/15/95 Reported: 08/17/95 |
|---|---|--|

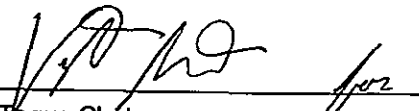
QC Batch Number: GC0811950HBPEXY
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|-------------------------|------------------------|
| TEPH as Diesel Chromatogram Pattern: Unidentified HC | 50 | 52 |
| | | C9-C24 |
| Surrogates | Control Limits % | % Recovery |
| n-Pentacosane (C25) | 50 150 | 101 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Vague Clark
 Project Manager



Environmental Resolutions Client Proj. ID: Exxon Ras #7-0236 Sampled: 08/08/95
359 Bel Marin Keys, Suite 20 Sample Descript: W-9-MW7 Received: 08/10/95
Novato, CA 94949 Matrix: LIQUID
Attention: Marc Briggs Analysis Method: 8015Mod/8020 Analyzed: 08/13/95
Lab Number: 9508686-10 Reported: 08/17/95

QC Batch Number: GC081395BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Table with columns: Analyte, Detection Limit ug/L, Sample Results ug/L, Surrogates, Control Limits %, % Recovery. Rows include TPHH as Gas, Methyl t-Butyl Ether, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), Chromatogram Pattern, and Trifluorotoluene.

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

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Vickie Tague Clark for, followed by printed name and title: Vickie Tague Clark Project Manager



| | | |
|---|---|--|
| Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949 | Client Proj. ID: Exxon Ras #7-0236 Sample Descript: W-9-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9508686-12 | Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/11/95 Analyzed: 08/15/95 Reported: 08/17/95 |
| Attention: Marc Briggs | | |

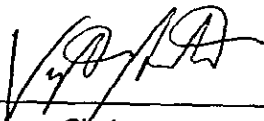
QC Batch Number: GC0811950HBPEXY
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|-----------------------------|------------------------|
| TEPH as Diesel Chromatogram Pattern: Unidentified HC | 50 | 60 |
| | | C9-C24 |
| Surrogates | Control Limits % | % Recovery |
| n-Pentacosane (C25) | 50 150 | 115 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Proj. ID: Exxon Ras #7-0236
Sample Descript: W-9-MW6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9508686-12

Sampled: 08/08/95
Received: 08/10/95
Analyzed: 08/13/95
Reported: 08/17/95

Attention: Marc Briggs

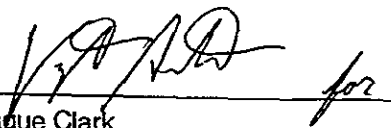
QC Batch Number: GC081395BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | N.D. |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | N.D. |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 109 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Environmental Resolutions Client Project ID: 200913X, Exxon Ras #7-0236
 359 Bel Marin Keys, Suite 20 Matrix: Liquid
 Novato, CA 94949
 Attention: Marc Briggs Work Order #: 9508686 -01 Reported: Aug 17, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC081295BTEX20A | GC081295BTEX20A | GC081295BTEX20A | GC081295BTEX20A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo |
| MS/MSD #: | 950843701 | 950843701 | 950843701 | 950843701 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 8/12/95 | 8/12/95 | 8/12/95 | 8/12/95 |
| Analyzed Date: | 8/12/95 | 8/12/95 | 8/12/95 | 8/12/95 |
| Instrument I.D.#: | GCHP20 | GCHP20 | GCHP20 | GCHP20 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Result: | 10 | 10 | 10 | 30 |
| MS % Recovery: | 100 | 100 | 100 | 100 |
| Dup. Result: | 4.0 | 4.6 | 4.2 | 13 |
| MSD % Recov.: | 40 | 46 | 42 | 43 |
| RPD: | 86 | 74 | 82 | 79 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

| LCS #: | BLK081295 | BLK081295 | BLK081295 | BLK081295 |
|-------------------|-----------|-----------|-----------|-----------|
| Prepared Date: | 8/12/95 | 8/12/95 | 8/12/95 | 8/12/95 |
| Analyzed Date: | 8/12/95 | 8/12/95 | 8/12/95 | 8/12/95 |
| Instrument I.D.#: | GCHP20 | GCHP20 | GCHP20 | GCHP20 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| LCS Result: | 11 | 11 | 11 | 31 |
| LCS % Recov.: | 103 | 103 | 103 | 103 |

| | | | | |
|----------------|--------|--------|--------|--------|
| MS/MSD | | | | |
| LCS | 71-133 | 72-128 | 72-130 | 71-120 |
| Control Limits | | | | |

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
 Vickie Tague Clark
 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508686.EEE <1>



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Environmental Resolutions Client Project ID: 200913X, Exxon Ras #7-0236
 359 Bel Marin Keys, Suite 20 Matrix: Liquid
 Novato, CA 94949
 Attention: Marc Briggs Work Order #: 9508686-02, 04, 06, 08 Reported: Aug 17, 1995

QUALITY CONTROL DATA REPORT

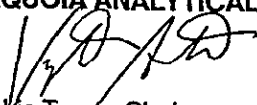
| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC081395BTEX20A | GC081395BTEX20A | GC081395BTEX20A | GC081395BTEX20A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo |
| MS/MSD #: | 950858304 | 950858304 | 950858304 | 950858304 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 8/13/95 | 8/13/95 | 8/13/95 | 8/13/95 |
| Analyzed Date: | 8/13/95 | 8/13/95 | 8/13/95 | 8/13/95 |
| Instrument I.D.#: | GCHP20 | GCHP20 | GCHP20 | GCHP20 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Result: | 9.1 | 9.0 | 9.1 | 27 |
| MS % Recovery: | 91 | 90 | 91 | 90 |
| Dup. Result: | 8.8 | 8.9 | 8.8 | 27 |
| MSD % Recov.: | 88 | 89 | 88 | 90 |
| RPD: | 3.4 | 1.1 | 3.4 | 0.0 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

| | | | | |
|-------------------|---|---|---|---|
| LCS #: | - | - | - | - |
| Prepared Date: | - | - | - | - |
| Analyzed Date: | - | - | - | - |
| Instrument I.D.#: | - | - | - | - |
| Conc. Spiked: | - | - | - | - |
| LCS Result: | - | - | - | - |
| LCS % Recov.: | - | - | - | - |

| MS/MSD LCS Control Limits | 71-133 | 72-128 | 72-130 | 71-120 |
|---------------------------|--------|--------|--------|--------|
| | | | | |

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

 Vickie Tagde Clark
 Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Environmental Resolutions Client Project ID: 200913X, Exxon Ras #7-0236
 359 Bel Marin Keys, Suite 20 Matrix: Liquid
 Novato, CA 94949
 Attention: Marc Briggs Work Order #: 9508686-10 Reported: Aug 17, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC081395BTEX21A | GC081395BTEX21A | GC081395BTEX21A | GC081395BTEX21A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo |
| MS/MSD #: | 950858304 | 950858304 | 950858304 | 950858304 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 8/13/95 | 8/13/95 | 8/13/95 | 8/13/95 |
| Analyzed Date: | 8/13/95 | 8/13/95 | 8/13/95 | 8/13/95 |
| Instrument I.D.#: | GCHP21 | GCHP21 | GCHP21 | GCHP21 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Result: | 9.1 | 9.0 | 9.1 | 27 |
| MS % Recovery: | 91 | 90 | 91 | 90 |
| Dup. Result: | 9.2 | 9.0 | 9.1 | 27 |
| MSD % Recov.: | 92 | 90 | 91 | 90 |
| RPD: | 1.1 | 0.0 | 0.0 | 0.0 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

| | | | | |
|-------------------|---|---|---|---|
| LCS #: | - | - | - | - |
| Prepared Date: | - | - | - | - |
| Analyzed Date: | - | - | - | - |
| Instrument I.D.#: | - | - | - | - |
| Conc. Spiked: | - | - | - | - |
| LCS Result: | - | - | - | - |
| LCS % Recov.: | - | - | - | - |

| MS/MSD LCS Control Limits | 71-133 | 72-128 | 72-130 | 71-120 |
|---------------------------|--------|--------|--------|--------|
| | | | | |

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Vickie Tague Clark
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508686.EEE <3>



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Attention: Marc Briggs

Client Project ID: 200913X, Exxon Ras #7-0236
Matrix: Liquid

Work Order #: 9508686-04, 06, 08, 10, 12

Reported: Aug 17, 1995

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0811950HBPEXY
Analy. Method: EPA 8015M
Prep. Method: EPA 3520

Analyst: T. Olive
MS/MSD #: 950861330
Sample Conc.: 110
Prepared Date: 8/11/95
Analyzed Date: 8/13/95
Instrument I.D.#: GCHP4
Conc. Spiked: 1000 µg/L

Result: 1200
MS % Recovery: 109

Dup. Result: 1100
MSD % Recov.: 99

RPD: 8.7
RPD Limit: 0-50

LCS #: BLK081195

Prepared Date: 8/11/95
Analyzed Date: 8/13/95
Instrument I.D.#: GCHP4
Conc. Spiked: 1000 µg/L

LCS Result: 1100
LCS % Recov.: 110

MS/MSD
LCS 38-122
Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Vickie Tagde Clark
Project Manager



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

9508686/9508689

Page 1 of 3

| | | |
|--|--|---|
| Consultant's Name: <u>Environmental Resolutions Inc.</u> | | Site Location: <u>6630 East 14th Street</u> |
| Address: <u>359 Bel Marin Keys, Suite 20 Novato Ca 95472</u> | | Consultant Work Release #: <u>19432502</u> |
| Project #: <u>7-0236</u> | Consultant Project #: <u>200913X</u> | Laboratory Work Release #: |
| Project Contact: <u>Marc Briggs</u> | Phone #: <u>415 382 9105</u> | EXXON RAS #: <u>7-0236</u> |
| EXXON Contact: <u>Marla Guenster</u> | Phone #: <u>510 246 8776</u> | Sampler's Signature: <u>Scott Graham</u> |
| Sampled by (print): <u>Scott Graham</u> | Sampler's Signature: <u>Scott Graham</u> | <u>Oakland, Ca</u> |
| Shipment Method: | Air Bill #: | |

| TAT: <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 96 hr <input checked="" type="checkbox"/> Standard (10 day) | | | | | | | ANALYSIS REQUIRED | | | | |
|--|-----------------|-----------------|-----------------------|---------|------------|--------------------|--------------------------|----------------------|----------------|------|--------------------|
| Sample Description | Collection Date | Collection Time | Matrix Soil/Water/Air | Prsv | # of Cont. | Sequoia's Sample # | TPH/Gas BTEX/ 8015/ 8020 | TPH/ Diesel EPA 8015 | TRPH S.M. 5520 | MTBE | Temperature: _____ |
| W-EB | 8/8/95 | 10:50 | Water | HCL ICE | 1 | 1 | X | | | X | |
| W-WB | | 13:56 | | | 1 | 2 | Hold | | | Hold | |
| W-BB-MW1 | | 13:55 | | | 1 | 3 | X | | | X | |
| W-9-MW1 | | 13:58 | | | 3 | 34 | X | | | X | |
| W-9-MW1 | | 13:59 | | ICE | 2 | | | X | | | |
| W-BB-MW5 | | 14:15 | | HCL ICE | 1 | 5 | Hold | | | Hold | |
| W-11-MW5 | | 14:20 | | | 3 | 46 | X | | | X | |
| W-11-MW5 | | 14:22 | | ICE | 2 | | | X | | | |
| W-BB-MW4 | | 14:30 | | HCL ICE | 1 | 7 | Hold | | | Hold | |

| RELINQUISHED BY / AFFILIATION | Date | Time | ACCEPTED / AFFILIATION | Date | Time | Additional Comments |
|-------------------------------|---------|------|------------------------|---------|------|---------------------|
| <u>Scott Graham</u> | 8/10/95 | 9:35 | <u>Futler</u> | 8/10/95 | 9:35 | |
| <u>Futler</u> | 8/10/95 | | | | | |
| | | | <u>MH</u> | 8/10/95 | 1318 | |

Pink - Client

Yellow - Sequoia

White - Sequoia



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.
P.O. Box 2180, Houston, TX 77002-7426
CHAIN OF CUSTODY

9508686/9508689

| | | |
|--|--|--|
| Consultant's Name: <i>Environmental Resolutions Inc.</i> | | Page <u>2</u> of <u>3</u> |
| Address: <i>359 Bel Marin Keys Blvd Suite 20 Novato Ca 94949</i> | | Site Location: <i>6630 E 14th Street</i> |
| Project #: <i>7-0236</i> | Consultant Project #: <i>200913X</i> | Consultant Work Release #: <i>19432502</i> |
| Project Contact: <i>Marc Briggs</i> | Phone #: <i>415 382 9105</i> | Laboratory Work Release #: |
| EXXON Contact: <i>Marla Guenster</i> | Phone #: <i>510 246 8776</i> | EXXON RAS #: <i>7-0236</i> |
| Sampled by (print): <i>Scott Graham</i> | Sampler's Signature: <i>Scott Graham</i> | <i>Oakland, Ca</i> |
| Shipment Method: | Air Bill #: | |

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

| Sample Description | Collection Date | Collection Time | Matrix Soil/Water/Air | Prsv | # of Cont. | Sequoia's Sample # | ANALYSIS REQUIRED | | | | Temperature: _____ |
|---------------------|-------------------|------------------|-----------------------|--------------------|--------------|--------------------|--------------------------|----------------------|----------------|------|--------------------|
| | | | | | | | TPH/Gas BTEX/ 8015/ 8020 | TPH/ Diesel EPA 8015 | TRPH S.M. 5520 | MTBE | |
| W-8-MW4 | 8/8/95 | 14:35 | Water | HCL ICE | 3 | 8 | X | | | X | |
| W-8-MW4 | / | 14:37 | / | ICE | 2 | | | X | | | |
| W-BB-MW7 | / | 14:45 | / | HCL ICE | 1 | 9 | Hold | | | Hold | |
| W-9-MW7 | / | 14:50 | / | ICE | 3 | 10 | X | | | X | |
| W-9-MW7 | / | 14:52 | / | ICE | 2 | | | X | | | |
| W-BB-MW6 | / | 15:00 | / | HCL ICE | 1 | 11 | Hold | | | Hold | |
| W-9-MW6 | / | 15:05 | / | ICE | 3 | 12 | X | | | X | |
| W-9-MW6 | / | 15:07 | / | ICE | 2 | | | X | | | |
| W-BB-MW3 | / | 15:15 | / | HCL ICE | 1 | 13 | Hold | | | Hold | |

| RELINQUISHED BY / AFFILIATION | Date | Time | ACCEPTED / AFFILIATION | Date | Time | Additional Comments |
|-------------------------------|----------------|-------------|------------------------|----------------|--------------|---------------------|
| <i>Scott Graham</i> | <i>8/10/95</i> | <i>9:35</i> | <i>[Signature]</i> | <i>8/14/95</i> | <i>9:35</i> | |
| <i>[Signature]</i> | <i>8/10/95</i> | | <i>[Signature]</i> | | | |
| | | | <i>[Signature]</i> | <i>8/10/95</i> | <i>13:14</i> | |

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

9508686/9508686

Consultant's Name: Environmental Resolutions Inc

Address: 359 Bel Marin Keys Suite 20 Novato Ca 94949 Site Location: 6630 E 14th Street

Project #: 7-0236 Consultant Project #: 200913x Consultant Work Release #: 19432502

Project Contact: Marc Briggs Phone #: 415 382 9105 Laboratory Work Release #:

EXXON Contact: Marla Guensler Phone #: 510 246 8776 EXXON RAS #: 7-0236

Sampled by (print): Scott Graham Sampler's Signature: Scott Graham Oakland, Ca

Shipment Method: Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

| Sample Description | Collection Date | Collection Time | Matrix Soil/Water/Air | Prsv | # of Cont. | Sequoia's Sample # | TPH/Gas BTEX/ 8015/ 8020 | TPH/ Diesel EPA 8015 | TRPH S.M. 5520 | MTBE | Temperature: _____ |
|---------------------|-------------------|------------------|-----------------------|--------------------|--------------|--------------------|--------------------------|----------------------|----------------|-----------------|--------------------|
| W-11-MW3 | 8/8/95 | 15:20 | Water | HCL ICE | 3 | 92 14 | X | | | X | |
| W-11-MW3 | / | 15:22 | / | ICE | 2 | | | X | | | |
| W-BB-MW2 | / | 15:30 | / | HCL ICE | 1 | 15 | Hold | | | Hold | |
| W-10-MW2 | / | 15:35 | / | ICE | 3 | 92 16 | X | | | X | |
| W-10-MW2 | / | 15:37 | / | ICE | 2 | | | X | | | |

| RELINQUISHED BY / AFFILIATION | Date | Time | ACCEPTED / AFFILIATION | Date | Time | Additional Comments |
|-------------------------------|----------------|-------------|------------------------|----------------|-------------|---------------------|
| <u>Scott Graham</u> | <u>8/19/95</u> | <u>9:35</u> | <u>Scott Graham</u> | <u>8/19/95</u> | <u>9:35</u> | |
| <u>Scott Graham</u> | <u>8/19/95</u> | | | | | |
| | | | <u>Scott Graham</u> | <u>8/19/95</u> | <u>1318</u> | |

Pink - Client

Yellow - Sequoia

White - Sequoia