

Phone: (925) 283-6000

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August 14, 2001

Mr. Don Hwang ACHCSA 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577



Subject:

**Quarterly Groundwater Monitoring Report-Second Quarter 2001** 

1075 40<sup>th</sup> Street Oakland, CA 94608 AEI Project No. 3119

Dear Mr. Hwang:

Enclosed is the quarterly groundwater monitoring report for the second episode of sampling in 2001.

Please call me at (925) 283-6000 if you have any questions.

Sincerely,

Orion Alcalay, M.S.

**Environmental Scientist** 

August 14, 2001

## QUARTERLY GROUNDWATER MONITORING REPORT Second Quarter-2001

1075 40<sup>th</sup> Street Oakland, California

Project No. 3119

Prepared For

Fidelity Roof Company 1075 40<sup>th</sup> Street Oakland, CA 94608

Prepared By

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (800) 801-3224

**AEI** 



Phone: (925) 283-6000

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August 14, 2001

Mr. Monte Upshaw Fidelity Roof Company 1075 40<sup>th</sup> Street Oakland, CA 94608

RE: Quarterly Groundwater Monitoring and Sampling Report

Second Quarter 2001 1075 40<sup>th</sup> Street Oakland, California Project No. 3119

Dear Mr. Upshaw:

AEI Consultants (AEI) has prepared this report on your behalf, to document the groundwater investigation at the above referenced site (Figure 1: Site Location Map). The has been performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). The purpose of this activity is to monitor groundwater quality in the vicinity of previous underground storage tanks. This report presents the findings of the second episode of groundwater monitoring and sampling for the year 2001.

### Site Description and Background

The site is located in a mixed residential and commercial area of Oakland at 1075 40th Street. The site currently supports the operation of Fidelity Roof Company.

On December 19, 1995, Tank Protect Engineering removed one (1) 1,000 gallon diesel underground storage tank (UST) and one (1) 500 gallon gasoline UST from the southeast corner of the property. The removal of the tanks produced a single excavation. The excavated soil was stockpiled north of the excavation. Three discrete soil samples were collected from beneath the USTs. Analysis of the samples indicated that soil beneath the 1,000 gallon UST was impacted with minor concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g), TPH as diesel (TPH-d), benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE). A single soil sample collected from beneath the 500 gallon UST indicated that 100 mg/kg of TPH-g and 96 mg/kg of TPH-d were present.

On September 12, 1996, AEI advanced four soil borings in the vicinity of the former UST excavation (Ref. 1). Soil samples were collected from all of the borings and groundwater samples were collected from two of the borings. Analytical results from the subsurface investigation revealed significant levels of gasoline and diesel present in soil to the south and to the west of the open excavation. The contamination was thought to extend beneath the existing

pump island. Groundwater analysis indicated maximum concentrations of 5,500  $\mu$ g/L of TPH-g, 340  $\mu$ g/L of benzene, and 2,100  $\mu$ g/L of TPH-d. Due to the high concentrations of petroleum hydrocarbons within the groundwater, the ACHCSA required further investigation of the extent and magnitude of the groundwater contaminant plume.

During the Phase II Subsurface Investigation, AEI collected four soil samples from the stockpile. The samples were combined into one composite sample for analysis in the laboratory. Analysis of the samples indicated concentrations of 3.8 mg/kg of TPH-g, 28 mg/kg of TPH-d, and minor concentrations of BTEX. Approval was granted by Ms. Hugo of the ACHCSA to reuse the stockpiled soil as backfill material.

On October 25, 1996, AEI extended the excavation laterally 7 feet to the south and 12 feet to west (Ref. 2). Soil was removed to a depth of 9 feet below ground surface (bgs). The contaminated soil was stockpiled on-site and profiled for disposal into a Class III Landfill. The dispenser island and associated piping were also removed. Groundwater was not encountered during the excavation activities. Four confirmation soil samples were collected from the excavation sidewalls. Analyses of the soil samples collected from the excavation sidewalls indicated that up to 150 mg/kg of TPH-g, 16 mg/kg of benzene, and 300 mg/kg of TPH-d remains within the western sidewall of the excavation.

The excavated soil was profiled and accepted for disposal at the BFI Vasco Road Sanitary Landfill, in Livermore, California. In November 1996, approximately 235 tons of contaminated soil was loaded and transported to the landfill for disposal, under non-hazardous waste manifest.

On March 6, 1997, AEI installed three groundwater monitoring wells (Ref. 3). The wells were subsequently sampled in March 1997, June 1997, October 1997 and January 1998. The analytical data from January 1998 indicated that 29,000  $\mu$ g/L of TPH-g, 5,600  $\mu$ g/L of benzene and 7,300  $\mu$ g/L of TPH-d were present in the groundwater.

At the request of the ACHCSA, six additional soil borings were drilled south and west of the well locations on November 4, 1998 (Ref. 4). The locations of these borings were chosen to assess the lateral extent of impacted groundwater at the site. TPH-d was detected at 2,400  $\mu$ g/L in the groundwater to the south of the former excavation. No significant concentrations of petroleum hydrocarbons were detected from the other borings.

Based on the results of these six soil borings, the ACHCSA requested the installation of a fourth groundwater monitoring well at the site, located south of the former tank locations along Yerba Buena Avenue. Monitoring well MW-4 was installed on July 15, 1999 and two soil samples at 10 and 14 feet bgs were analyzed from the boring (Ref. 5). No detectable concentrations of petroleum hydrocarbons were found in the soil samples.

The analytical results of prior groundwater sampling episodes are included in Table 2. This report describes the results of the subsequent groundwater monitoring event which took place on July 27, 2001.

## Summary of Activities

AEI measured the depth to groundwater in the four wells on July 27, 2001. Prior to sampling, the depth from the top of the well casings was measured with an electric water level indicator. The wells were purged and sampled using disposable Teflon bailers. Temperature, pH, and specific conductivity were measured during the purging of the wells. AEI removed at least 3 well volumes. Once the temperature, pH, and specific conductivity stabilized, a water sample was collected. The well locations are shown in Figure 2.

Water was poured from the bailers into 1-liter amber bottles and 40 ml VOA vials and capped so no head space nor air bubbles were visible within the sample containers. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (State Certification #1644).

Groundwater samples were submitted for chemical analysis for TPH-g (EPA Method 5030/8015), MTBE (EPA Method 8020/602), benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 8020/602), and (TPH-d) (EPA Method 3510/8015).

#### Field Results

A strong hydrocarbon odor was detected during the sampling of monitoring wells MW-1 and MW-3. Hydrocarbon sheen was observed during the monitoring of MW-3. Groundwater levels for the current monitoring episode ranged from 32.76 to 34.99 feet above Mean Sea Level (MSL). These groundwater elevations were an average of 2.09 feet lower than the previous monitoring episode. The direction of the groundwater flow at the time of measurement was towards the west. The latest calculated groundwater gradient is 0.019 foot per foot (ft/ft).

Groundwater elevation data is summarized in Table 1. The groundwater elevation contours and the groundwater flow direction are shown in Figure 2. Refer to Appendix B for the Groundwater Monitoring Well Field Sampling Forms.

## Groundwater Quality

Concentrations of TPH-g, MTBE, benzene and TPH-d have decreased in wells MW-1 and MW-4 since the last sampling episode. Toluene, ethylbenzene and total xylenes were either below laboratory detection limits or present in minor concentrations in these two wells. All constituents were below laboratory detection limits in well MW-2, with the exception of MTBE, which was detected at 3,300 ug/L. Monitoring well MW-3 continues to yield the highest levels of TPH-g, BTEX, MTBE and TPH-d. TPH-g and MTBE remained unchanged at 75,000 ug/L and below laboratory detection limits, respectively; however, TPH-d increased significantly since the last sampling episode from 13,000 ug/L up to 85,000 ug/L. The change in concentrations may be due to the shift in direction of groundwater flow and/or water table depths.

A summary of groundwater quality data is presented in Table 2. Laboratory results and chain of custody documents are included in Appendix B.

#### **Conclusions**

Groundwater analytical results from the current sampling episode indicate that elevated levels of petroleum hydrocarbons remain in the groundwater. Groundwater elevations were approximately 2 feet lower than the previous sampling episode and groundwater flow direction was to the west. A July 31, 2001 corrective action plan (CAP) discussing available remedial technologies available to this site was submitted to the ACHCSA for their review and approval. Quarterly groundwater monitoring and sampling of the wells will continue at the site and the next monitoring and sampling episode is scheduled for October 2001, as per the requirements of the ACHCSA.

#### References

- 1. Phase II Soil and Groundwater Investigation Report, October 7, 1996, prepared by AEI.
- 2. Excavation and Disposal of Contaminated Soil Report, January 7, 1997, prepared by AEI.
- 3. Groundwater Monitoring Well Installation Report, dated May 30, 1997, prepared by AEI.
- 4. Phase II Subsurface Investigation Report, December 9, 1998, prepared by AEI.
- 5. Groundwater Monitoring Well and Sampling report, September 3, 1999, prepared by AEI.
- 6. Quarterly Groundwater Monitoring and Sampling Report, March 21, 2000, prepared by AEI.
- 7. Quarterly Groundwater Monitoring and Sampling Report, July 28, 2000, prepared by AEI.
- 8. Quarterly Groundwater Monitoring and Sampling Report, November 6, 2000, prepared by AEI.
- 9. Quarterly Groundwater Monitoring and Sampling Report, January 29, 2001, prepared by AFI
- 10. Quarterly Groundwater Monitoring and Sampling Report, May 8, 2001, prepared by AEI.

### Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

Sincerely,

AEI Consultants

Ofion Alcalay, M.S. Environmental Scientist

J. P. Derhake, PE, CAC

Senior Author

**Figures** 

Figure 1 Site Location Map Figure 2 Well Location Map

Figure 3 Groundwater Gradient Map

**Tables** 

Table 1 Groundwater Elevation Data

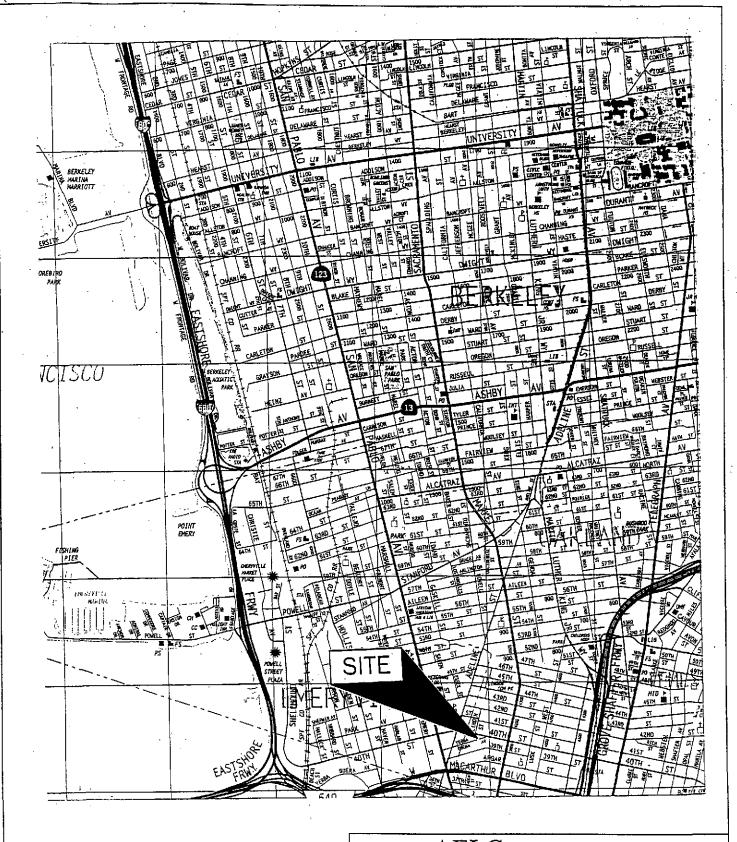
Table 2 Groundwater Sample Analytical Data

Appendices

Appendix A Groundwater Monitoring Well Field Sampling Forms

Appendix B Current Laboratory Analyses With Chain of Custody Documentation

cc: Mr. Don Hwang, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577



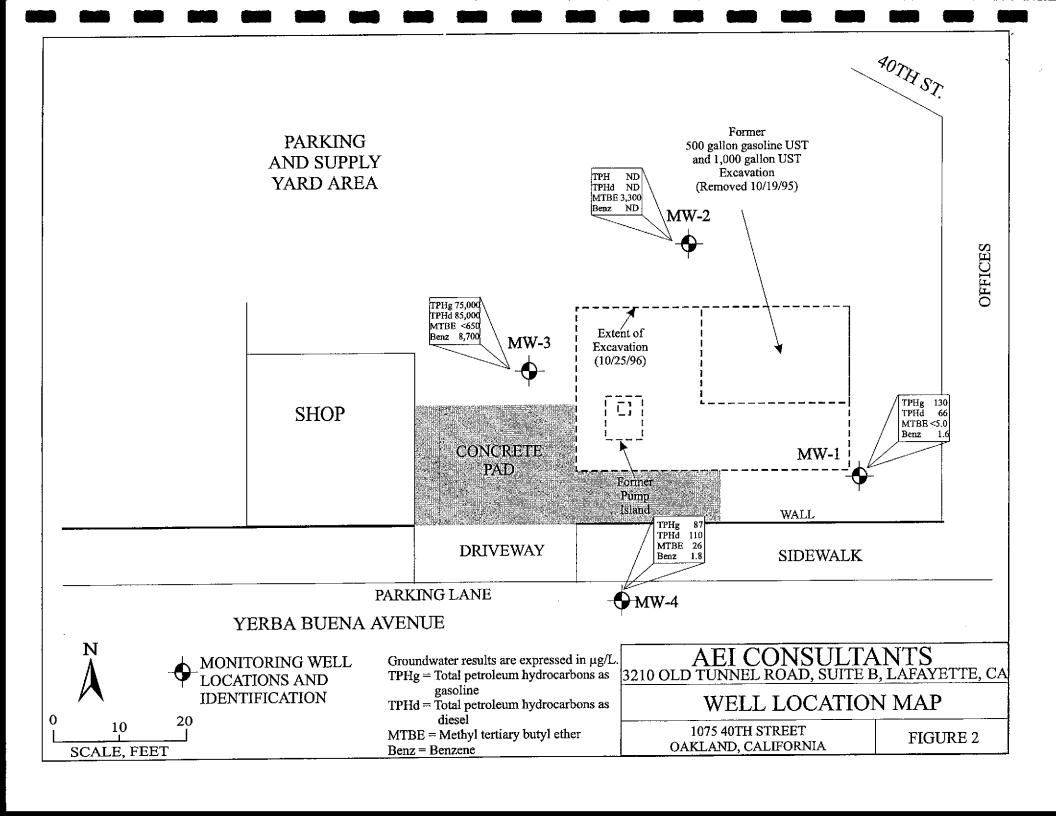


SOURCE: THOMAS GUIDE 1997 SCALE: 1" = 2,400' AEI CONSULTANTS
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

# SITE LOCATION MAP

1075 40<sup>th</sup> STREET OAKLAND, CALIFORNIA

FIGURE 1 PROJECT No. 3119



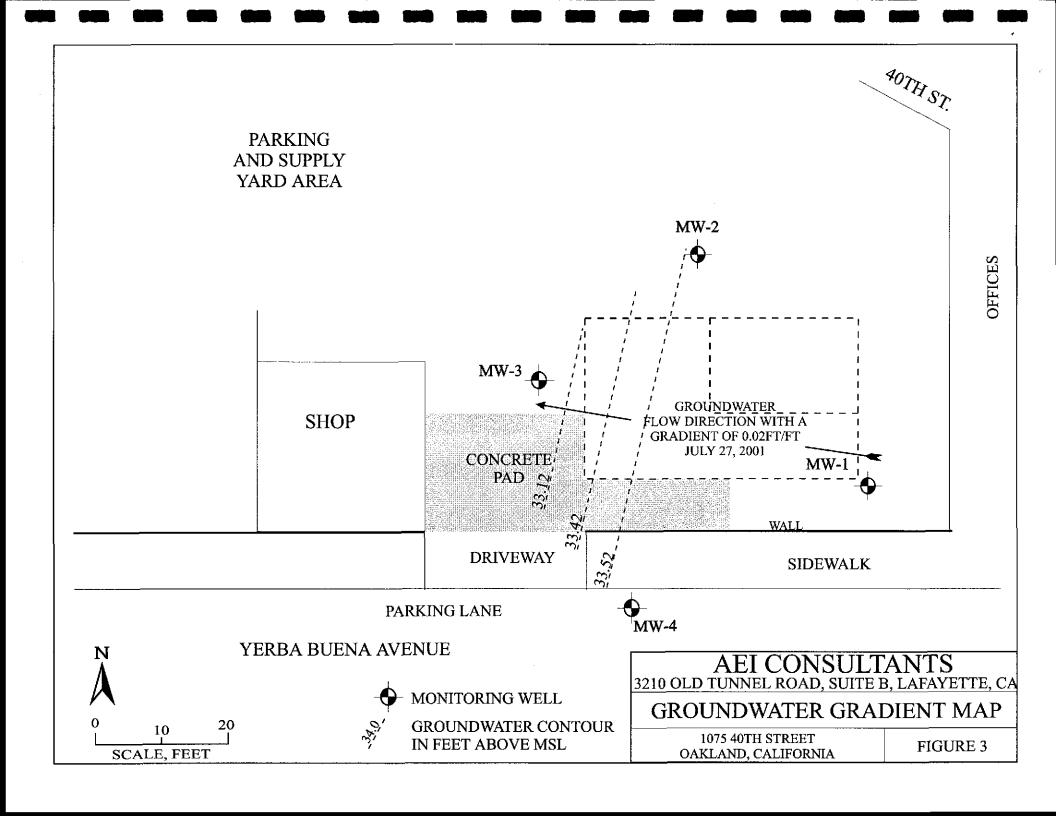


Table 1 Groundwater Elevation Data

| Well ID  |                     |                |                | Groundwater Lievation Data  Well ID Date Elevation Depth to Water Groundwater |  |  |  |  |  |  |  |  |  |
|----------|---------------------|----------------|----------------|---|--|--|--|--|--|--|--|--|--|
|          | was to Dake on the  | Elevation      |                | Elevation   |  |  |  |  |  |  |  |  |  |
|          |                     | (ft msl)       | (ft)           | (ft msl)  |  |  |  |  |  |  |  |  |  |
|          |                     |                |                |   |  |  |  |  |  |  |  |  |  |
| MW-1     | 3/19/97             | 45.41          | 8.25           | 37.16   |  |  |  |  |  |  |  |  |  |
|          | 6/20/97             | 45.41          | 9.1            | 36.31   |  |  |  |  |  |  |  |  |  |
|          | 10/8/97             | 45.41          | 9.95           | 35.46   |  |  |  |  |  |  |  |  |  |
|          | 1/16/98             | 45.41          | 7.5 <b>7</b>   | 37.84   |  |  |  |  |  |  |  |  |  |
|          | 8/5/99              | 45.49          | 10.16          | 35.33   |  |  |  |  |  |  |  |  |  |
|          | 11/18/99            | 45.49          | 8.52           | 36.97   |  |  |  |  |  |  |  |  |  |
|          | 2/24/00             | 45.49          | 7.65           | 37.84   |  |  |  |  |  |  |  |  |  |
|          | 5/24/00             | 45.49          | 8.47           | 37.02   |  |  |  |  |  |  |  |  |  |
|          | 8/29/00             | 45.49          | 10.28          | 35.21   |  |  |  |  |  |  |  |  |  |
|          | 1/12/01             | 45.49          | 8.5            | 36.99   |  |  |  |  |  |  |  |  |  |
|          | 4/18/01             | 45,49          | 8.77           | 36.72   |  |  |  |  |  |  |  |  |  |
|          | 7/27/01             | 45.49          | 10.5           | 34.99   |  |  |  |  |  |  |  |  |  |
| MW-2     | 3/19/97             | 44.94          | 8.4            | 36.54   |  |  |  |  |  |  |  |  |  |
|          | 6/20/97             | 44.94          | 8.85           | 36.09   |  |  |  |  |  |  |  |  |  |
|          | 10/8/97             | 44.94          | 9.8            | 35.14   |  |  |  |  |  |  |  |  |  |
| İ        | 1/16/98             | 44.94          | 5.28           | 39.66   |  |  |  |  |  |  |  |  |  |
| 1        | 8/5/99              | 44,98          | 9.32           | 35.66   |  |  |  |  |  |  |  |  |  |
| j        | 11/18/99            | 44.98          | 10.2           | 34.78   |  |  |  |  |  |  |  |  |  |
| ]        | 2/24/00             | 44.98          | 7.03           | 37.95   |  |  |  |  |  |  |  |  |  |
| 1        | 5/24/00             | 44.98          | 8.01           | 36.97   |  |  |  |  |  |  |  |  |  |
| l        | 8/29/00             | 44.98          | 11.07          | 33.91   |  |  |  |  |  |  |  |  |  |
|          | 1/12/01             | 44.98          | 8.6            | 36.38   |  |  |  |  |  |  |  |  |  |
|          | 4/18/01             | 44,98          | 8.8            | 36.18   |  |  |  |  |  |  |  |  |  |
|          | 7/27/01             | 44.98          | 11.1           | 33.88   |  |  |  |  |  |  |  |  |  |
| MW-3     | 2/10/07             | 44.22          | 7.59           | 36.73   |  |  |  |  |  |  |  |  |  |
| W1 W - 3 | 3/19/97             | 44.32          |                | 34.34   |  |  |  |  |  |  |  |  |  |
|          | 10/8/97             | 44.32          | 9.98<br>8.36   | 35.96   |  |  |  |  |  |  |  |  |  |
|          | 6/20/97             | 44,32          |                | 35.14   |  |  |  |  |  |  |  |  |  |
|          | 1/16/98             | 44.32          | 9.18           |   |  |  |  |  |  |  |  |  |  |
|          | 8/5/99              | 44.37          | 10.56<br>10.92 | 33.81<br>33.45  |  |  |  |  |  |  |  |  |  |
|          | 11/18/99<br>2/24/00 | 44.37<br>44.37 |                |   |  |  |  |  |  |  |  |  |  |
|          |                     |                | 8.49<br>8.42   | 35.88<br>35.95  |  |  |  |  |  |  |  |  |  |
|          | 5/24/00             | 44.37          |                |   |  |  |  |  |  |  |  |  |  |
|          | 8/29/00             | 44.37          | 12             | 32.37   |  |  |  |  |  |  |  |  |  |
|          | 1/12/01             | 44.37          | 10.5<br>9.5    | 33.87<br>35.22  |  |  |  |  |  |  |  |  |  |
|          | 4/18/01             | 44.37          |                |   |  |  |  |  |  |  |  |  |  |
|          | 7/27/01             | 44.37          | 11.61          | 32.76   |  |  |  |  |  |  |  |  |  |
| MW-4     | 8/5/99              | 43.48          | 8.79           | 34.69   |  |  |  |  |  |  |  |  |  |
| l        | 11/18/99            | 43.48          | 8.11           | 35.37   |  |  |  |  |  |  |  |  |  |
|          | 2/24/00             | 43.48          | 5.19           | 38.29   |  |  |  |  |  |  |  |  |  |
|          | 5/24/00             | 43.48          | 7.23           | 36.25   |  |  |  |  |  |  |  |  |  |
|          | 8/29/00             | 43.48          | 9.04           | 34.44   |  |  |  |  |  |  |  |  |  |
| ļ        | 1/12/01             | 43.48          | 6.4            | 37.08   |  |  |  |  |  |  |  |  |  |
|          | 4/18/01             | 43.48          | 7.3            | 36.18   |  |  |  |  |  |  |  |  |  |
|          | 7/27/01             | 43.48          | 9.16           | 34.32   |  |  |  |  |  |  |  |  |  |
|          |                     |                |                |   |  |  |  |  |  |  |  |  |  |

Notes

All well elevations are measured from the top of the casing and not from the ground surface ft msl = feet above mean sea level

Table 2
Groundwater Sample Analytical Data

| Well ID                                 | Date                | Consultant/Lab | TPHg       | MTBE     | Benzene | Toluene | Ethyl-  | Xylenes | TPHd  |
|---|---------------------|----------------|------------|----------|---------|---------|---------|---------|---|
| 600 000 000 000 000 000 000 000 000 000 |                     |                |            |          |         |         | benzene |         | الله المناطقة المناطقة .<br>21 - أيس يشار إلى الطال |
|   | V 400 000 000 000 0 | en a aliver.   | (ug/L)     | (ug/L)   | (ug/L)  | (ug/L)  | (ug/L)  | (ug/L)  | (ug/L)  |
| MW - 1                                  | 3/19/97             | AEI/MAI        | <50        | 23       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 6/23/97             | AEI/MAI        | 1,300      | 14       | 150     | 2.1     | 12      | 19      | 420   |
|   | 10/8/97             | AEI/MAI        | 56         | 5.8      | 2.8     | < 0.5   | < 0.5   | < 0.5   | 66  |
|   | 1/16/98             | AEI/MAI        | 1,500      | <33      | 95      | 0.72    | 69      | 8.4     | 910   |
|   | 8/5/99              | AEI/MAI        | 160        | <15      | 1.6     | <0.5    | 0.56    | 1.1     | 63  |
|   | 11/18/99            | AEI/MAI        | <b>7</b> 9 | <5.0     | <0.5    | < 0.5   | < 0.5   | < 0.5   | <50   |
|   | 2/24/00             | AEI/MAI        | 300        | <5.0     | 14      | 0.82    | 3.5     | 1.6     | 160   |
|   | 5/24/00             | AEI/MAI        | 1,300      | ND<10    | 93      | < 0.5   | 17      | 1.6     | 480   |
|   | 8/29/00             | AEI/MAI        | 120        | <5.0     | 0.93    | < 0.5   | <0.5    | < 0.5   | < 0.5   |
|   | 1/12/01             | AEI/MAI        | 360        | < 5.0    | 16      | < 0.5   | 9.3     | 0.69    | 170   |
|   | 4/18/01             | AEI/MAI        | 1,100      | 2,800    | 63      | < 0.5   | 34      | 0.73    | 410   |
|   | 7/27/01             | AEI/MAI        | 130        | <5.0     | 1.6     | <0.5    | <0.5    | <0.5    | 66  |
| MW - 2                                  | 3/19/97             | AEI/MAI        | <50        | 65       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 6/23/97             | AEI/MAI        | <50        | 70       | 3.4     | <0.5    | <0.5    | <0.5    | <50   |
|   | 10/8/97             | AEI/MAI        | <50        | 90       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 1/16/98             | AEI/MAI        | <50        | 65       | <0.5    | <0.5    | <0.5    | < 0.5   | <50   |
|   | 8/5/99              | AEI/MAI        | <50        | 600      | <0.5    | <0.5    | <0.5    | < 0.5   | < 50  |
|   | 11/18/99            | AEI/MAI        | <50        | 370      | < 0.5   | < 0.5   | <0.5    | <0.5    | <50   |
|   | 2/24/00             | AEI/MAI        | <50        | 880      | <0.5    | < 0.5   | <0.5    | < 0.5   | < 50  |
|   | 5/24/00             | AEI/MAI        | ND<250     | 2,200    | <0.5    | <0.5    | < 0.5   | < 0.5   | 62  |
|   | 8/29/00             | AEI/MAI        | ND<200     | 1,900    | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 1/12/01             | AEI/MAI        | 470        | 2,000    | 8.7     | 3.1     | 16      | 73      | 70  |
|   | 4/18/01             | AEI/MAI        | <50        | 2,800    | < 0.5   | <0.5    | <0.5    | < 0.5   | < 50  |
|   | 7/27/01             | AEI/MAI        | ND<100     | 3,300    | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
| MW -3                                   | 3/19/97             | AEI/MAI        | 26,000     | 230      | 3,000   | 530     | 340     | 2,300   | 5,000   |
| 14141 -0                                | 6/23/97             | AEI/MAI        | 25,000     | 270      | 4,400   | 120     | 540     | 1,500   | 7,000   |
|   | 10/8/97             | AEI/MAI        | 17,000     | ND<280   | 4,400   | 47      | 280     | 410     | 5,100   |
|   | 1/16/98             | AEI/MAI        | 29,000     | ND<360   | 5,600   | 740     | 950     | 3,500   | 7,300   |
|   | 8/5/99              | AEI/MAI        | 31,000     | ND<200   | 5,400   | 150     | 1100    | 2,300   | 5,100   |
|   | 11/18/99            | AEI/MAI        | 74,000     | ND<1,000 | 8,100   | 5,000   | 2,100   | 8,100   | 490,000   |
|   | 2/24/00             | AEI/MAI        | 110,000    | ND<200   | 12,000  | 1,400   | 2,900   | 14,000  | 6,300   |
|   | 5/24/00             | AEI/MAI        | 87,000     | ND<200   | 13,000  | 1,900   | 2,900   | 14,000  | 26,000  |
|   | 8/29/00             | AEI/MAI        | 49,000     | ND<200   | 7,400   | 800     | 1,800   | 7,400   | 9,400   |
|   | 1/12/01             | AEI/MAI        | 69,000     | ND<300   | 8,600   | 980     | 2,600   | 11,000  | 21,000  |
|   | 4/18/01             | AEI/MAI        | 75,000     | ND<500   | 9,200   | 1,200   | 2,500   | 12,000  | 13,000  |
|   | 7/27/01             | AEI/MAI        | 75,000     | ND<650   | 8,700   | 1,100   | 2,600   | 12,000  | 85,000  |
| MW-4                                    | 8/5/99              | AEI/MAI        | <50        | 37       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
| 747 44                                  | 11/18/99            | AEI/MAI        | <50        | 20       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 2/24/00             | AEI/MAI        | <50        | 20       | <0.5    | <0.5    | <0.5    | <0.5    | <50   |
|   | 5/24/00             | AEI/MAI        | 120        | 31       | 1.3     | <0.5    | <0.5    | <0.5    | 140   |
|   | 8/29/00             | AEI/MAI        | <50        | 22       | <0.5    | <0.5    | <0.5    | <0.5    | <0.5  |
|   | 1/12/01             | AEI/MAI        | <50        | 25       | <0.5    | <0.5    | <0.5    | <0.5    | 81  |
|   | 4/18/01             | AEI/MAI        | 30         | 35       | 2.4     | 1.1     | 0.66    | 4.2     | 170   |
|   | 7/27/01             | AEI/MAI        | 87         | 26       | 1.8     | <0.5    | 2       | 10      | 110   |

Notes:

ug/L= micrograms per liter

ND= Not detected

MTBE= Methyl Tertiary Butyl Ether

TPHg= Total Petroleum Hydrocarbons as gasoline

TPHd= Total Petroleum Hydrocarbons as diesel

AEI = AEI Consultants

MAI = McCampbell Analytical Inc., Pacheco, California

|                    |                              |             |        |                    | _  |  |  |  |
|--------------------|------------------------------|-------------|--------|--------------------|--|--|--|--|
|                    |                              | Monitor     | ing We | ll Number: MW      | -1   |  |  |  |
| Project Nar        | ne: Fidelity Roc             | of, Co      | J      | Date of Sampling:  | 7/27/01                                      |  |  |  |
| Job Number         |                              |             |        | Name of Sampler:   | OA   |  |  |  |
| Project Add        | lress: 1075 40 <sup>th</sup> | Street, Oak | land   |                    |  |  |  |  |
|                    |                              | MONI        | TORIN  | G WELL DATA        |  |  |  |  |
| Well Casin         | g Diameter (2"/-             |             |        | WELL DATA          |  |  |  |  |
|                    | de Type and (                |             |        | Cement / Good      |  |  |  |  |
|                    | Lock OK/Re                   |             | 1      | OK                 |  |  |  |  |
|                    | f Top of Casing              |             | 4      | 15.49              |  |  |  |  |
| Depth of W         | ell                          |             |        | 21.0               |  |  |  |  |
| Depth to W         |                              |             |        | 0.5                |  |  |  |  |
| Water Eleva        |                              |             |        | 34.99              |  |  |  |  |
|                    | Volumes (gallo               |             |        |                    |  |  |  |  |
|                    | ng: (TD - DTW                |             | :      | 5.04               |  |  |  |  |
|                    | ng: (TD - DTW                |             |        |                    |  |  |  |  |
|                    | ng: (TD - DTW                |             |        |                    |  |  |  |  |
|                    | ume Purged (ga               |             |        | 5.0                |  |  |  |  |
| <u>App</u> earance | of Purge Wate                | <u></u>     | 1      | Clear, Slight Hydr | ocarbon Odor                                 |  |  |  |
| <del></del> -      |                              | GROU        | INDW A | TER SAMPLES        | <u>.                                    </u> |  |  |  |
| Number of          | Samples/Contai               |             |        |                    | l-liter amber bottle                         |  |  |  |
|                    | <u> </u>                     |             |        |                    |  |  |  |  |
| Time               | Vol Remvd                    | Temp        | pН     | Cond               | Comments                                     |  |  |  |
| 10:19              | (gal)                        | (deg C)     |        | (mS)               |  |  |  |  |
| 10:21              | 1                            | 20.1        | 6.68   | 923                |  |  |  |  |
| 10:23              | 3                            | 19.4        | 6.69   | 956                |  |  |  |  |
|                    | 5                            |             |        |                    | Well went dry                                |  |  |  |
|                    |                              |             |        |                    |  |  |  |  |
|                    |                              |             |        |                    |  |  |  |  |
|                    |                              | <u> </u>    |        |                    |  |  |  |  |

#### AEI CONSULTANTS – GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-2 Date of Sampling: 7/27/01 Project Name: Fidelity Roof, Co Name of Sampler: OA Job Number: 3119 Project Address: 1075 40th Street, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Cement / Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 44.98 Depth of Well 21.0 Depth to Water 11.10 Water Elevation 33.88 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 4.75 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) 5.0 Appearance of Purge Water Clear, No Odor **GROUNDWATER SAMPLES** Number of Samples/Container Size (2) 40 ml VOAS, 1-liter amber bottle Vol Remvd Time Temp pН Cond Comments 10:30 (deg C) (mS) (gal) 10:32 20.0 6.59 1,435 10:34 3 20.0 1,510 6.66 5 Well went dry COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| AEI (   | CONSULTAN                    |              |         |                                      | TER MOI<br>G FORM | NITORING WELL FIELD      |  |  |  |
|---|------------------------------|--------------|---------|--------------------------------------|-------------------|--------------------------|--|--|--|
|   |                              | Monitor      | ring W  | ell N                                | umber: M          | ЛW-3                     |  |  |  |
| Project Na  | me: Fidelity Roo             | of, Co       |         | Date                                 | e of Sampli       | ing: 7/27/01             |  |  |  |
| Job Number: 3119 Project Address: 1075 40 <sup>th</sup> Street, Oakland |                              |              |         |                                      | ne of Samp        | oler: OA                 |  |  |  |
| Project Ad  | dress: 1075 40 <sup>ss</sup> | Street, Oak  | dand    |                                      |                   |                          |  |  |  |
|   |                              | MONI         | ITOR    | ING '                                | WELL DA           | ATA                      |  |  |  |
| Well Casir  | g Diameter (2"/4             |              |         | 2"                                   |                   |                          |  |  |  |
|   | de Type and C                |              |         | Cen                                  | nent / Good       | 1                        |  |  |  |
|   | & Lock OK/Re                 |              |         | OK                                   |                   |                          |  |  |  |
| Elevation of  | of Top of Casing             |              |         | 44.3                                 | 37                |                          |  |  |  |
| Depth of V  |                              |              |         | 21.0                                 |                   |                          |  |  |  |
| Depth to W  |                              |              |         | 11.6                                 |                   |                          |  |  |  |
| Water Elev  |                              |              |         | 32.7                                 | 76                |                          |  |  |  |
|   | l Volumes (gallo             |              |         | <del></del>                          |                   |                          |  |  |  |
|   | ing: (TD - DTW               |              |         | 4.5                                  |                   |                          |  |  |  |
|   | ing: (TD - DTW               |              |         |                                      |                   |                          |  |  |  |
|   | ing: (TD - DTW               |              |         |                                      |                   |                          |  |  |  |
|   | ume Purged (gal              | <u> </u>     |         | 5.0                                  |                   |                          |  |  |  |
| Appearanc   | e of Purge Wate              | <u>r</u>     |         | Clear; Strong Hydrocarbon Odor/Sheen |                   |                          |  |  |  |
|   |                              | GROI         | INDW    | ATE                                  | R SAMPI           | LES                      |  |  |  |
| Number of   | Samples/Contai               |              |         |                                      |                   | AS, 1-liter amber bottle |  |  |  |
|   | •                            |              |         |                                      |                   |                          |  |  |  |
| Time  | Vol Remvd                    | Temp         | pΙ      | H                                    | Cond              | Comments                 |  |  |  |
| 10:37   | (gal)                        | (deg C)      |         |                                      | (mS)              |                          |  |  |  |
| 10:39   | 1                            | 20.1         | 6.4     |                                      | 1,674             |                          |  |  |  |
| 10:41   | 3                            | 19.8         | 6.4     | 18                                   | 1,753             |                          |  |  |  |
|   | 5                            |              |         |                                      |                   | Well went dry            |  |  |  |
|   |                              |              |         |                                      |                   |                          |  |  |  |
|   | <u> </u>                     |              |         |                                      |                   |                          |  |  |  |
|   | <u> </u>                     |              | •       |                                      |                   |                          |  |  |  |
| <del></del>   | COMMENT                      | Slie sam     | nle od  | or 1376                              | ell recharge      | e time & percent, etc.)  |  |  |  |
|   | COMMITTEE                    | υ (1.υ., sam | pic out | or, we                               | zii roonarge      | time & percent, etc.)    |  |  |  |
|   |                              |              |         |                                      |                   |                          |  |  |  |

| AEI (        | CONSULTAN                    |              |         |           | ER MON<br>FORM | NITORING WELL FIELD     |  |  |  |
|--------------|------------------------------|--------------|---------|-----------|----------------|-------------------------|--|--|--|
|              |                              | Monitor      | ring W  | /all N    | umber: N       | 1W-4                    |  |  |  |
|              |                              | 141011110    | ing v   | CH IN     | umber. 1       | 144-4                   |  |  |  |
| Project Na   | me: Fidelity Roc             | f. Co        |         | Date      | of Sample      | ing: 7/27/01            |  |  |  |
| Job Numbe    |                              |              |         |           | ne of Samp     |                         |  |  |  |
| Project Ade  | dress: 1075 40 <sup>th</sup> | Street, Oak  | dand    |           | <u> </u>       |                         |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |
|              |                              |              | ITOR    |           | WELL DA        | TA                      |  |  |  |
|              | g Diameter (2"/4             |              |         | 2"        |                |                         |  |  |  |
| Seal at Gra  | de Type and C                | Condition    |         |           | ient / Good    | 1                       |  |  |  |
|              | k Lock OK/Re                 |              |         | OK        |                |                         |  |  |  |
|              | of Top of Casing             |              |         | 43.4      |                |                         |  |  |  |
| Depth of W   |                              |              |         | 20.0      |                |                         |  |  |  |
| Depth to W   |                              |              |         | 9.16      |                |                         |  |  |  |
| Water Elev   | _                            |              |         | 34.3      | 2              |                         |  |  |  |
|              | Volumes (gallo               |              |         |           | ***            |                         |  |  |  |
|              | ng: (TD - DTW                |              |         | 5.20      | <u> </u>       |                         |  |  |  |
|              | ng: (TD - DTW                |              |         |           |                |                         |  |  |  |
|              | ing: (TD - DTW               |              |         | 5.5       |                |                         |  |  |  |
|              | ume Purged (gal              |              |         |           |                |                         |  |  |  |
| Appearance   | e of Purge Water             | [            |         | Clear     |                |                         |  |  |  |
|              |                              | CPOI         | INTIN   | ATE       | R SAMPI        | TC                      |  |  |  |
| Number of    | Samples/Contai               |              | UIYU YY |           |                | S, 1-liter amber bottle |  |  |  |
| Trulliber of | Samples/Contar               | iici Size    |         | (2)-      | TO IIII V OZ   | is, 1-incl amour bottle |  |  |  |
| Time         | Vol Remvd                    | Temp         | рŀ      | <u>——</u> | Cond           | Comments                |  |  |  |
| 10:46        | (gal)                        | (deg C)      | T.      | -         | (mS)           | ]                       |  |  |  |
| 10:48        | 1                            | 20.6         | 6.6     | 54        | 1,143          |                         |  |  |  |
| 10:50        | 3                            | 21.4         | 6.6     | 52        | 1,116          |                         |  |  |  |
| 10:52        | 5                            | 21.0         | 6.6     | 51        | 1,173          |                         |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |
|              |                              | -            |         |           |                |                         |  |  |  |
|              | COMMENT                      | S (i.e., sam | ple odo | or, we    | ll recharge    | time & percent, etc.)   |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |
|              |                              |              |         |           |                |                         |  |  |  |

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

| All Environmental, Inc.       | Client Project ID: #3119; Fidelity | Date Sampled: 07/27/2001         |  |  |  |
|-------------------------------|------------------------------------|----------------------------------|--|--|--|
| 3210 Old Tunnel Road, Suite B |                                    | Date Received: 07/27/2001        |  |  |  |
| Lafayette, CA 94549-4157      | Client Contact: Orion Alcalay      | Date Extracted: 07/30-07/31/2001 |  |  |  |
|                               | Client P.O:                        | Date Analyzed: 07/30-07/31/2001  |  |  |  |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCFID(5030)

| Lab ID   | Client ID                              | Matrix | TPH(g) <sup>+</sup> | МТВЕ   | Benzene | Toluene  | Ethyl-<br>benzene | Xylenes | % Recovery Surrogate |
|----------|--|--------|---------------------|--------|---------|----------|-------------------|---------|----------------------|
| 73532    | MW-1                                   | W      | 130,b               | ND     | 1.6     | ND       | ND                | ND      | 116                  |
| 73533    | MW-2                                   | w      | ND<100              | 3300   | ND      | ND       | ND                | ND      | 100                  |
| 73534    | MW-3                                   | w      | 75,000,a,h          | ND<650 | 8700    | 1100     | 2600              | 12,000  | 105                  |
| 73535    | MW-4                                   | w      | 87,a                | 26     | 1.8     | ND       | 2.0               | 10      | 104                  |
|          |  |        |                     |        |         |          |                   |         |                      |
| ·        |  |        |                     |        |         |          |                   |         |                      |
|          | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |        |                     |        |         |          |                   |         |                      |
|          |  |        |                     |        |         | <u> </u> |                   |         |                      |
|          |  |        |                     |        |         |          |                   |         |                      |
|          |  |        |                     |        | 1       |          |                   |         |                      |
|          |  |        |                     |        |         |          |                   |         |                      |
|          |  |        |                     |        |         |          |                   |         |                      |
|          | Limit unless<br>ise stated; ND         | W      | 50 ug/L             | 5.0    | 0.5     | 0.5      | 0.5               | 0.5     |                      |
| means no | t detected above porting limit         | S      | 1.0 mg/kg           | 0.05   | 0.005   | 0.005    | 0.005             | 0.005   | 1                    |

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

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| All Environm   | ental, Inc.       | Client Pro | pject ID: #3119; Fidelity                                    | Date Sampled: 0            | 7/27/2001               |  |  |
|----------------|-------------------|------------|--|----------------------------|-------------------------|--|--|
| 3210 Old Tur   | mel Road, Suite B |            |  | Date Received: 07/27/2001  |                         |  |  |
| Lafayette, CA  | A 94549-4157      | Client Co  | ntact: Orion Alcalay   | Date Extracted: 07/27/2001 |                         |  |  |
|                |                   | Client P.C | ):   | Date Analyzed:             | 07/27/2001              |  |  |
| EPA methods me |                   | -          | C23) Extractable Hydrocarbornia RWQCB (SF Bay Region) method |                            | D(3510)                 |  |  |
| Lab ID         | Client ID         | Matrix     | TPH(d) <sup>†</sup>  |                            | % Recovery<br>Surrogate |  |  |
| 73532          | MW-1              | W          | 66,b/d   |                            | 107                     |  |  |
| 73533          | MW-2              | W          | ND   | · ND                       |                         |  |  |
| 73534          | MW-3              | W          | 85,000,d,b,h   | 85,000,d,b,h               |                         |  |  |
| 73535          | 73535 MW-4        |            | 110,b,d  | 107                        |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                | MATERIAL A        |            |  |                            |                         |  |  |
|                |                   |            | •  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |
|                |                   |            |  |                            |                         |  |  |

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The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

50 ug/L

1.0 mg/kg

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

<sup>&</sup>quot;cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

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# **QC REPORT**

# EPA 8015m + 8020

| Date: | 07/29/01-07/3 | 30/01 |
|-------|---------------|-------|
|-------|---------------|-------|

| Matrix: | ۷ | ۷ | 'n | t | e | r |  |
|---------|---|---|----|---|---|---|--|
|---------|---|---|----|---|---|---|--|

|                 |             |                      | 110(0) |                  |                     |     |      |  |  |
|-----------------|-------------|----------------------|--------|------------------|---------------------|-----|------|--|--|
|                 |             | %Rec                 |        |                  |                     |     |      |  |  |
| Compound        | Sample      | MS                   | MSD    | Amount<br>Spiked | MS                  | MSD | RPD  |  |  |
| SampleID: 72601 | Extraction: | Extraction: EPA 5030 |        |                  | Instrument: GC-7    |     |      |  |  |
| Surrogate1      | ND          | 96.0                 | 108.0  | 100.00           | 96                  | 108 | 11.8 |  |  |
| Xylenes         | ND          | 29.3                 | 31.0   | 30.00            | 98                  | 103 | 5.6  |  |  |
| Ethylbenzene    | ND          | 9.0                  | 9.7    | 10.00            | 90                  | 97  | 7.5  |  |  |
| Toluene         | ND          | 9.2                  | 10.2   | 10.00            | 92                  | 102 | 10.3 |  |  |
| Benzene         | ND          | 8.9                  | 9.9    | 10.00            | 89                  | 99  | 10.6 |  |  |
| МТВЕ            | ND          | 8.6                  | 10.1   | 10.00            | 86                  | 101 | 16.0 |  |  |
| TPH (gas)       | ND          | 99.5                 | 98.3   | 100.00           | 100                 | 98  | 1.2  |  |  |
| SampleID: 72501 | Extraction  | : EPA 3              | 510    |                  | Instrument: GC-11 A |     |      |  |  |
| Surrogate1      | ND          | 102.0                | 102.0  | 100.00           | 102                 | 102 | 0.0  |  |  |
| TPH (diesel)    | ND          | 7325.0               | 7225.0 | 7500.00          | 98                  | 96  | 1.4  |  |  |

% Re covery = 
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$
  
RPD= $\frac{(MS-MSD)}{(MS+MSD)} \cdot 2\cdot 100$ 

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# **QC REPORT**

# EPA 8015m + 8020

Date: 07/27/01-07/28/01

Matrix: Water

|                 |                      | Concent | %Rec   |                  |           |                 |     |  |
|-----------------|----------------------|---------|--------|------------------|-----------|-----------------|-----|--|
| Compound        | Sample               | MS      | MSD    | Amount<br>Spiked | MS        | MSD             | RPD |  |
| SampleID: 72601 | Extraction: EPA 5030 |         |        | <u>Instrumen</u> | C-7       |                 |     |  |
| Surrogate1      | ND                   | 91.0    | 90.0   | 100.00           | 91        | 90              | 1.1 |  |
| Xylenes         | ND                   | 28.9    | 28.1   | 30.00            | 96        | 94              | 2.8 |  |
| Ethylbenzene    | ND                   | 8.9     | 8.7    | 10.00            | 89        | 87              | 2.3 |  |
| Toluene         | ND                   | 9.1     | 8.8    | 10.00            | 91        | 88              | 3.4 |  |
| Benzene         | ND                   | 8.8     | 8.5    | 10.00            | 88        | 85              | 3.5 |  |
| МТВЕ            | ND                   | 9.7     | 9.2    | 10.00            | 97        | 92              | 5.3 |  |
| TPH (gas)       | ND                   | 97.9    | 97.7   | 100.00           | 98        | 98              | 0.1 |  |
| SampleID: 73001 | Extraction           | : EPA 3 | 510    |                  | Instrumer | i <u>t.</u> GC- | 6 B |  |
| Surrogate1      | ND                   | 93.0    | 92.0   | 100.00           | 93        | 92              | 1.1 |  |
| TPH (diesel)    | ND                   | 8725.0  | 8875.0 | 7500.00          | 116       | 118             | 1.7 |  |

$$\% \text{ Re covery} = \frac{\left(MS - Sample\right)}{AmountSpiked} \cdot 100$$

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| McCAMPBELL ANALYTICAL INC.                                      |          |                                 |       |            |            |          |      |      |             |           |        | T  |                           |            |               |                 |                                      | Cl             | ΗĀ                         | IN             | ĪŌ                        | F (                   | CU             | ST               | O             | D7            | R                           | EC  | OI   | RD       |     |          | ٠,        |                         |   |
|---|----------|---------------------------------|-------|------------|------------|----------|------|------|-------------|-----------|--------|--|---------------------------|------------|---------------|-----------------|--------------------------------------|----------------|----------------------------|----------------|---------------------------|-----------------------|----------------|------------------|---------------|---------------|-----------------------------|-----|--|----------|-----|----------|-----------|-------------------------|---|
| 110 2nd AVENUE SOUTH, #D7                                       |          |                                 |       |            |            |          |      |      |             |           |        | TURN AROUND TIME \( \Boxed{1}  \text{D}  \text{D}  \( \beta \) |                           |            |               |                 |                                      |                |                            |                |                           |                       |                | <u>-</u> è       |               |               |                             |     |  |          |     |          |           |                         |   |
| PACHECO, CA 94553 Telephone: (925) 798-1620 Fax: (925) 798-1622 |          |                                 |       |            |            |          |      |      |             |           |        |  | RUSH 24 HOUR 48 HOUR 5 DA |            |               |                 |                                      |                |                            |                |                           |                       |                |                  | ΑY            |               |                             |     |  |          |     |          |           |                         |   |
| Report To: Orion Alcalay Bill To:                               |          |                                 |       |            |            |          |      |      |             |           |        |  | Analysis Request Other    |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               | omu           | ents                        |     |  |          |     |          |           |                         |   |
| Company: All Environmental                                      |          |                                 |       |            |            |          |      |      |             |           | $\Box$ |  |                           | F)         |               |                 |                                      | -              |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| 3210 Old Tunnel Road, Suite B                                   |          |                                 |       |            |            |          |      |      |             |           | _      | נט   |                           | /B&        |               |                 |                                      |                |                            |                |                           | _                     |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Lafayette, CA 94549-4157  |          |                                 |       |            |            |          |      |      |             | £         |        | E&F  | ~                         |            |               |                 |                                      |                |                            | 3310           |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Tele: (925) 283-6000 Fax: (925) 283-6121                        |          |                                 |       |            |            |          |      | _{-{ | 8015)/ MTBE |           | 520 ]  | 18.1   |                           |            |               |                 |                                      |                | 8270 / 8310                |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Project #: 3/19 Project Name: Frdelite                          |          |                                 |       |            |            |          |      |      | $\dashv$    | + 80      |        | e (5   | us (4                     |            | 20            |                 | >-                                   | ļ              |                            | / 82           |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Project Location: 10 75 40 - Street, Oakkane.                   |          |                                 |       |            |            |          |      |      | $\dashv$    | /8020     |        | Grease (5520 E&F/B&F)  | arboi                     |            | 8             |                 | ž                                    |                |                            | 625 /          |                           |                       | <u>8</u>       |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Sampler Signature: METHOD METHOD                                |          |                                 |       |            |            |          |      |      |             | -1        | 602/8  | ات   | 8                         | iroca      |               | 602             |                                      | 3,8            | 8                          |                | EPA (                     |                       |                | 77.6             |               |               |                             |     |  |          |     |          |           |                         |   |
|   |          | SAM                             | PLING |            | SIS        | MATRIX   |      |      |             | PRESERVED |        |  | D                         | Gas (602/  | (8015)        | ioii            | Total Petroleum Hydrocarbons (418.1) | _ '            | HA<br>HA                   | _              | EPA 608 / 8080 PCB's ONLY | / 82                  | _              | Ď.               | ا د           |               | 1723                        |     |  | 1        |     |          |           |                         |   |
| SAMPLE ID   |          |                                 | Time  | Containers | ain        |          |      |      |             |           |        |  |                           |            | sel (         | leum            | leur                                 | 8010           | BTEX ONLY (EPA 602 / 8020) | 8080           | 808                       | EPA 624 / 8240 / 8260 | EPA 625 / 8270 | PAH's / PNA's by | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239,2/6010) |     | .  |          |     |          |           |                         |   |
|   | LOCATION | Date                            |       |            | Containers |          |      | ري   |             |           |        |  |                           | BTEX & TPH | TPH as Diesel | Total Petroleum | E<br>E                               | EPA 601 / 8010 | S                          | EPA 608 / 8080 | 80                        |                       |                |                  |               |               |                             |     |  |          |     | 1        |           |                         |   |
|   |          | Daic                            |       | Ü          | Туре       | Water    | Soil | ndg  | Other       | a         | HCI    | 일.   | Other                     | Ϋ́         | Ħ.            | 国               | E                                    | A 6            | 百                          | 9 Y            | 9 V.                      | A 6                   | 9¥,            | H,               | Ŋ             | 臣             | )<br>Fig                    | RCI |  |          |     |          |           |                         |   |
|   |          |                                 |       | 李          | T.         | ≯        | Soil | S    | O           | Ic        | Ħ      | <b>\ \  </b>   | 0                         | <u>F</u>   | F             | ĭ               | Ţ                                    | 团              | 'n                         | 回              | ם                         | 酉                     | ם              | P/               | ŭ             | ä             | ĭ                           | æ   |  |          |     | <u> </u> |           |                         |   |
| MW-1<br>MW-2<br>MW-4  |          | 2-2701                          |       | 3          |            | æ        |      |      |             | 17        |        |  | ,                         | χ          | X             |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  | : · ·    | 721 | 532      | )<br>} ** | <br>                    |   |
| Mw-2_   |          |                                 |       | 1          |            | Ш        |      | 1_   | 1           | Ш         |        |  |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     | ·<br>· · · · · · · · · · · · · · · · · · · |          | , , | J. J. J  |           |                         | , |
| ma-3  | ·        |                                 |       |            |            | ),       |      | 4    |             | 1/        |        | _  | _                         | 1/         | -             |                 |                                      |                |                            |                |                           |                       |                |                  |               | _             |                             | ,   |  |          | 73! | 533      | )<br>     | . ;<br>- ; <del>}</del> |   |
| mw-4  |          |                                 | <br>  | V          |            | V        |      |      | ļ           | 7         |        | _  | _                         | V          | ٧             |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
|   |          |                                 |       |            |            |          |      |      | $\perp$     |           |        | _  |                           |            |               |                 |                                      | -              |                            |                |                           |                       |                |                  |               |               | 7                           | 738 | 534  |          | –   |          |           |                         |   |
| · · · · · · · · · · · · · · · · · · ·                           | <u> </u> |                                 | ļ     |            | ++++++     |          |      |      |             |           |        |  | $\dashv$                  |            |               | -i              |                                      |                |                            |                |                           |                       |                |                  | -             |               |                             |     |  |          |     |          |           |                         |   |
|   |          |                                 |       |            |            |          |      | +    |             |           |        |  |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  | 73535         |               |                             |     |  |          |     |          |           |                         |   |
|   | <u></u>  |                                 | ļ     |            | -          |          | +    | -    |             | $\dashv$  |        |  |                           |            |               |                 |                                      |                | $\dashv$                   |                |                           |                       |                |                  |               |               |                             |     | 1  | <u> </u> | Ť   | · ·      |           |                         |   |
|   | <u> </u> | <del> </del>                    |       |            |            | $\vdash$ |      | +-   | -           | H         | -      |  |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     | $\dashv$                                   | +        |     | 十        |           |                         |   |
|   |          |                                 |       |            |            | $\vdash$ |      | -    |             |           | -      | $\dashv$   | $\dashv$                  | -+         |               |                 |                                      |                |                            |                |                           | $\dashv$              | $\dashv$       |                  |               |               |                             |     | $\dashv$                                   |          |     | ╁        |           |                         |   |
|   | 1        |                                 |       |            |            | $\sqcup$ | _ _  |      | ļ           |           |        | -  | -                         | 4          | {             |                 | _                                    |                |                            |                |                           |                       | _              |                  |               | 4             |                             |     |  |          |     |          |           |                         |   |
| ·   |          |                                 |       |            |            |          |      |      | _           |           |        | _  | _                         | _          | _             |                 |                                      |                |                            |                | _                         |                       | _              | _                |               |               |                             |     |  | _        |     | -        |           |                         |   |
|   |          |                                 |       |            |            |          |      |      |             |           |        |  | _                         |            |               |                 |                                      |                |                            |                |                           |                       |                | [                |               |               |                             |     | .  |          | _ _ | $\perp$  |           |                         |   |
| _   |          |                                 |       |            |            |          |      |      | l           |           |        |  | $oldsymbol{\perp}$        |            |               |                 |                                      |                |                            | _              |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| /20,1   | 1//      |                                 |       |            |            |          |      |      |             |           |        |  |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  | - 1           |               |                             | ľ   |  |          |     | ļ        |           |                         |   |
| Relinquished By   |          | Date: Time: Received By: 1/1/27 |       |            |            |          |      |      |             |           | 1      | Remarks:   |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| 1/14  |          | 17-170/2:05 \ A///127           |       |            |            |          |      |      |             | 7         |        |  |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Relinquished By:  |          | Date:                           |       |            |            |          |      |      |             |           | $\neg$ | VO-92708-11/METALS OTHER                                       |                           |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| <u> </u>  |          |                                 |       |            |            |          |      |      |             |           |        |  | ICE/14 PRESERVATION       |            |               |                 |                                      |                |                            |                |                           |                       |                |                  |               |               |                             |     |  |          |     |          |           |                         |   |
| Relinguished By:  |          | Date:                           | Time: | Rece       | rived By:  |          |      |      |             |           |        |  |                           |            |               |                 | _                                    | CHO            | ודוח                       | N •            |                           |                       |                | ROF              |               |               |                             |     | ************                               | *******  |     | im.      |           |                         |   |
|   |          |                                 | 1     |            |            |          |      |      |             |           |        |  |                           |            | HEA           |                 |                                      |                |                            | ITA:           |                           |                       | . /            |                  |               |               |                             |     |  |          |     |          |           |                         |   |