

Phone: (925) 283-6000

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February 18, 2003

ROZOZ KINIONMONIOLI HOOM

Vic Lum Vic's Automotive 245 8<sup>th</sup> Street Oakland, CA 94607

**Subject:** 

**Quarterly Monitoring Report** 

245 8<sup>th</sup> Street Oakland, CA

AEI Project No. 4332

Dear Mr. Lum:

Enclosed are two copies of the Quarterly Monitoring Report for the most recent episode of sampling, and an invoice.

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

Sincerely,

Bhand Reese Brandi K. Reese Staff Geologist

Din gradient

Cc: Mr. Barney Chan, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94501.

February 18, 2003

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# QUARTERLY GROUNDWATER MONITORING REPORT

245 8<sup>th</sup> Street Oakland, California

AEI Project No. 4332

Prepared For

Mr. Victor Lum Vic's Automotive 245 8<sup>th</sup> Street Oakland, CA 94607

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

**AEI** 

Phone: (925) 283-6000

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February 18, 2003

Mr. Vic Lum Vic's Automotive 245 8<sup>th</sup> Street Oakland, CA 94607

RE:

Quarterly Groundwater Monitoring Report Seventh Episode 245 8<sup>th</sup> Street Oakland, California AEI Project No. 4332

Dear Mr. Lum:

AEI Consultants (AEI) has prepared this report on your behalf to document the continued groundwater investigation at the above referenced site (Figure 1: Site Location Map). This work is being performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) to document the groundwater quality and free product recovery associated with the release of fuel hydrocarbons from the former underground storage tank system. This report presents the findings of the seventh episode of groundwater monitoring and sampling for the four onsite wells conducted on February 4, 2003.

## Site Description and Background

The subject property (hereafter referred to as the "site" or "property") is located in a commercial and residential area of Oakland. The site is a lot on the south corner of Alice Street and 8<sup>th</sup> Street, and is currently developed with a gasoline station and auto repair facility. Refer to Figure 2 for a visual description of the site.

Between June 1993 and August 1994, AEI removed a total of seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000 gallon and two (2) 6,000 gallon gasoline tanks and one (1) 250 gallon waste oil tank. The former locations of the tanks are shown on Figure 2. Impacted soil was removed from beneath the former tank area. Groundwater was encountered beneath the former 6,000 gallon tanks. Non-aqueous phase liquid (NAPL) was observed on the water table beneath the southern tank. The excavated soil was transported to an appropriate disposal facility and the excavation was backfilled with clean fill material. A new tank system was installed just west of the dispenser island.

Two groundwater monitoring wells (MW-1 and MW-2) were installed in July 1995. The first two episodes of monitoring revealed total petroleum hydrocarbons (TPH) as gasoline and benzene up to  $210,000 \mu g/l$  and  $720 \mu g/l$ , respectively, in MW-2. Floating gasoline product, a NAPL, was

245 8<sup>th</sup> Street, Oakland Project # 4332 February 18, 2003 Page 2

discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996.

Three soil borings (SB-1 through SB-3) were advanced in August 1996. Groundwater samples collected from each of the borings contained total petroleum hydrocarbons (TPH) as gasoline and benzene ranging from 120,000 to 140,000  $\mu$ g/l, and from 12,000 to 19,000  $\mu$ g/l, respectively. Methyl tertiary butyl ether (MTBE) was also present in all three samples, up to 27,000  $\mu$ g/l. Although NAPL was not observed in the field, qualitative laboratory observations indicated immiscible sheen. Manual bailing and pumping of NAPL from MW-1, and monitoring of MW-2 occurred intermittently through 1997.

Two additional groundwater monitoring wells (MW-3 and MW-4) were installed in May 2001. Refer to Tables 1 and 2 for data collected from these wells. A NAPL recovery pump was installed in MW-1 in June 2001.

This report documents the results of the seventh episode of groundwater monitoring and sample collection of the four wells performed at the site.

## **Summary of Monitoring Activities**

Monitoring of water and product levels and sample collection occurred on February 4, 2003. The well locations are shown in Figure 2. The depth to static groundwater from the top of the well casings was measured prior to sampling with an electric water level indicator. A floating product interface meter was used in MW-1 and MW-2. The three wells with no measurable thickness of floating product (MW-2 through MW-4) were purged using a battery powered submersible pump, and groundwater samples were collected from the wells using clean, disposable plastic bailers.

Temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductivity were measured during the purging of the wells. At least three well volumes of water were purged from each well prior to sample collection. Once the above parameters had stabilized, and the wells were allowed to recharge to a minimum of 90% of their original water volume, a water sample was collected.

Water was poured from the bailers into two 40 ml VOA vials and capped so no head space or 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 (DOHS Certification #1644).

The three groundwater samples collected were analyzed for TPH as gasoline and BTEX with MTBE by EPA method 8021B/8015C.

245 8<sup>th</sup> Street, Oakland Project # 4332 February 18, 2003 Page 3

### **Field Results**

No measurable thickness of NAPL was measured with an interface meter in any of the wells. Although no free product was measured, the interface meter was black and oily when retrieved from MW-1. When a bailer was used to collect a sample it also had a thick oily sheen on the outside, and approximately one quarter inch of free product floating on top. For this reason no samples were collected from MW-1, and the depth to water reading was not used in the calculation of groundwater flow direction and gradient.

Groundwater levels for the current monitoring episode ranged from 12.29 to 13.36 feet above mean sea level (msl) in the three wells (MW-2 through MW-4). These groundwater elevations were an average of 0.9 feet higher than the previous monitoring episode. The rise in water table elevation appears to be a seasonal occurrence. The groundwater flow direction at the time of measurement was north-northwest. This is a significant shift from previous episodes when groundwater flowed southward. The water table's hydraulic gradient was 0.01 foot per foot, which is comparable to the previous episode.

Groundwater elevation data are summarized in Table 1. The water table contours and the groundwater flow direction are depicted in Figure 2. Refer to Appendix A for the Groundwater Monitoring Well Field Sampling Forms.

## **Groundwater Quality**

Hydrocarbon concentrations remained highest in MW-2, as they have been for the previous six episodes. TPH as gasoline, benzene, and MTBE were detected at 150,000 µg/l, 51,000 µg/l, and 27,000 µg/l in this well. Well MW-3 contained minor concentrations of TPH as gasoline and showed a considerable decrease in concentrations of BTEX. No hydrocarbons were detected in MW-4. A summary of groundwater quality data is presented in Tables 2 and 3. Laboratory results and chain of custody documents are included in Appendix B.

#### Conclusions

As requested by the ACHCSA, further investigation and active groundwater remediation will be necessary to assess whether the volatile organics present represent a human health risk for residents of the area, and to mitigate the hydrocarbon plume. AEI has recently been retained to perform the off-site investigation to determine the extent of the plume and recent access arrangements have been made. AEI will notify ACHCSA when the work is scheduled.

Quarterly groundwater monitoring will continue and the next episode is scheduled for May 2003.

### **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

245 8<sup>th</sup> Street, Oakland Project # 4332 February 18, 2003 Page 4

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 that existed at the time and location of the work.

Sincerely,

**AEI Consultants** 

Brandi Kiel Reese

Staff Geologist

Joseph Derhake, PE

Principal

Figure 1 Site Location Map

Brand K. Reese

Figure 2 Site Plan with Water Table Contours
Figure 3 Site Plan with Dissolved Hydrocarbons

Table 1 Groundwater Elevation Data

Table 2 Groundwater Sample Analytical Data

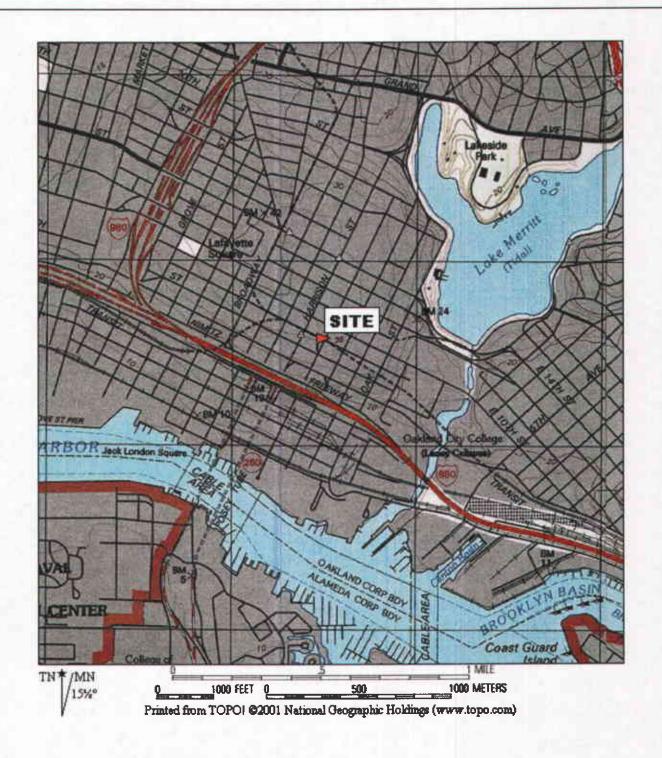
Table 3 Fuel Oxygenates and Lead Scavengers

Appendix A Well Field Sampling Forms

Appendix B Laboratory Reports

cc: Mr. Barney Chan

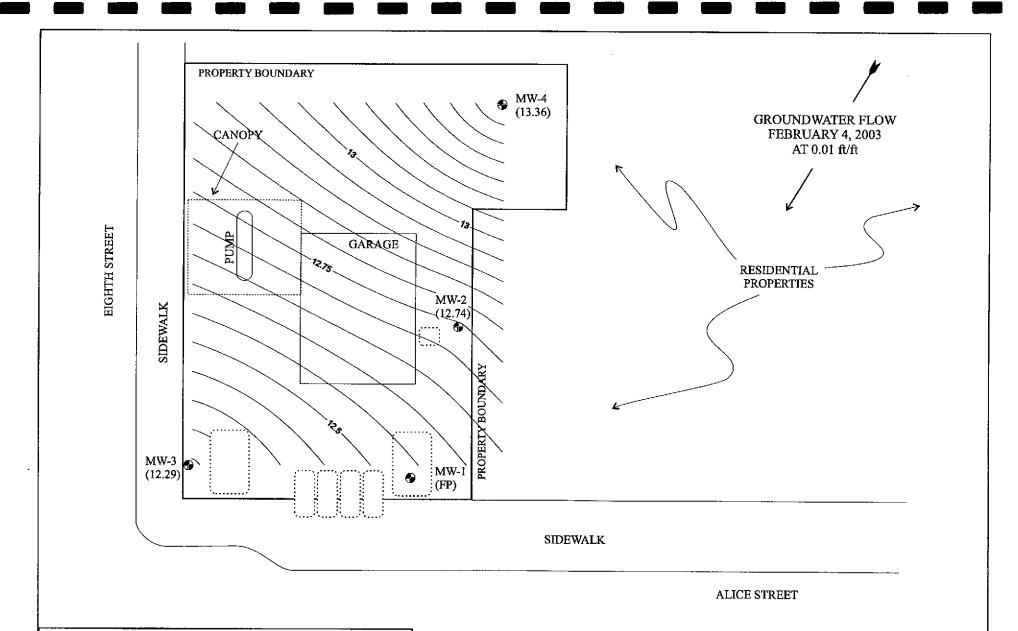
ACHCSA, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94501



AEI CONSULTANTS
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

# SITE LOCATION MAP

245 8th STREET OAKLAND, CALIFORNIA FIGURE 1 PROJECT NO. 4332



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# WATER TABLE CONTOURS

245 8th STREET OAKLAND, CALIFORNIA

FIGURE 2 PROJECT No. 4332



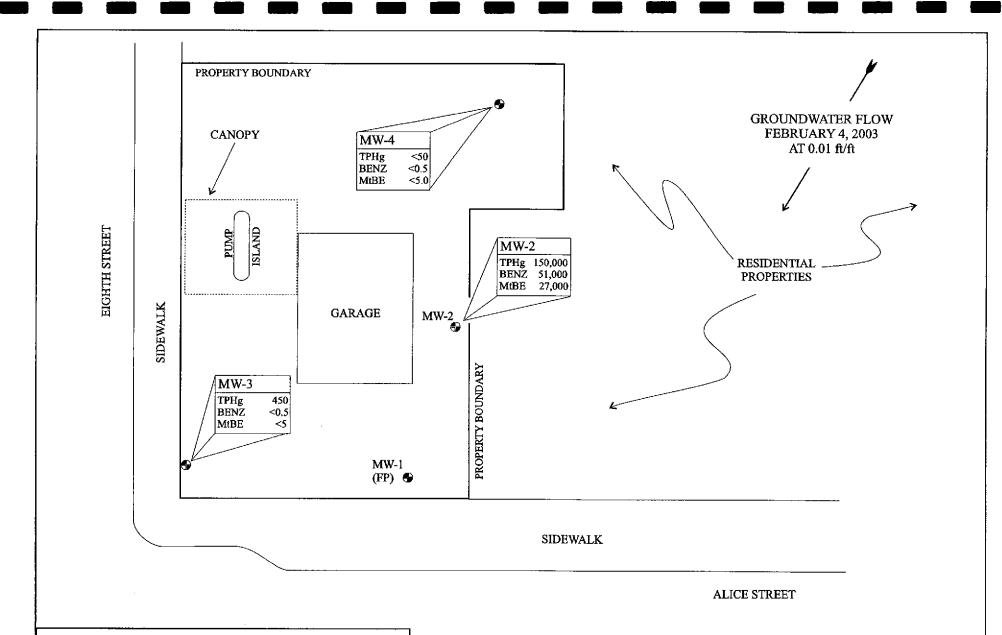
MONITORING WELLS WITH WATER TABLE ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL

(FP = Floating Product)

SCALE: 1 in = 25 ft



WATER TABLE CONTOURS WITH ELEVATIONS ABOVE SEA LEVEL. CONTOUR INTERVAL IS 0.05 FEET (drawn with Surfer V.7.0)



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3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

# **DISSOLVED HYDROCARBONS**

245 8th STREET OAKLAND, CALIFORNIA

FIGURE 3 PROJECT NO. 4332



MONITORING WELLS: HYDROCARBON CONCENTRATION EXPRESSED IN ug/I IN WATER

SCALE: 1 in = 25 ft

TPHg = Total Petroleum Hydrocarbons as gasoline

BENZ = Benzene

MtBE = Methyl tert-Butyl Ether

FP = Floating Product (NAPL)

Table 1 Groundwater Elevation Data

| Well ID | Date<br>Collected | Well<br>Elevation<br>(ft amsl) | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft aamsl) | Depth to<br>LNAPL<br>(ft) | LNAPL<br>Thickness<br>(ft) |
|---------|-------------------|--------------------------------|---------------------------|--|---------------------------|----------------------------|
| MW-1    | 6/29/01           | 27.73                          | 16.52                     | *                                      | 14.89                     | 1.63                       |
|         | 10/10/01          | 27.73                          | 15.45                     | *                                      | 15.37                     | 0.08                       |
|         | 1/9/02            | 27.73                          | 12.61                     | 15.12*                                 | -                         | <0.01                      |
|         | 4/24/02           | 27.73                          | 13.35                     | 14.38*                                 | _                         | <0.01                      |
|         | 7/24/02           | 27.73                          | 14.19                     | 13.44*                                 | _                         | <0.01                      |
|         | 11/5/02           | 27.73                          | 14.85                     | 12.88*                                 | _                         | <0.01                      |
|         | 2/4/03            | 27.73                          | 14.91                     | 12.82*                                 | -                         | <0.01                      |
| MW-2    | 6/29/01           | 28.16                          | 16.14                     | 12.02                                  | <u>-</u>                  | -                          |
|         | 10/10/01          | 28.16                          | 16.43                     | 11.73                                  | _                         | -                          |
|         | 1/9/02            | 28.16                          | 13.50                     | 14.66                                  | -                         | -                          |
|         | 4/24/02           | 28.16                          | 14.40                     | 13.76                                  | •                         | -                          |
|         | 7/24/02           | 28.16                          | 14.91                     | 13.25                                  | _                         | _                          |
|         | 11/5/02           | 28.16                          | 16.96                     | 11.20                                  | -                         | _                          |
|         | 2/4/03            | 28.16                          | 15.42                     | 12.74                                  | -                         | -                          |
| MW-3    | 6/29/01           | 29.21                          | 16.60                     | 12.61                                  | -                         | -                          |
|         | 10/10/01          | 29.21                          | 16.92                     | 12.29                                  | -                         | -                          |
|         | 1/9/02            | 29.21                          | 14.20                     | 15.01                                  | -                         | -                          |
|         | 4/24/02           | 29.21                          | 15.07                     | 14.14                                  | _                         | -                          |
|         | 7/24/02           | 29.21                          | 16.40                     | 12.81                                  | -                         | -                          |
|         | 11/5/02           | 29.21                          | 16.47                     | 12.74                                  | -                         | -                          |
|         | 2/4/03            | 29.21                          | 16.92                     | 12.29                                  | -                         | -                          |
| MW-4    | 6/29/01           | 29.38                          | 17.71                     | 11.67                                  | -                         | -                          |
|         | 10/10/01          | 29.38                          | 18.00                     | 11.38                                  | -                         | -                          |
|         | 1/9/02            | 29.38                          | 15.02                     | 14.36                                  | -                         | -                          |
|         | 4/24/02           | 29.38                          | 15.74                     | 13.64                                  | -                         | -                          |
|         | 7/24/02           | 29.38                          | 16.69                     | 12.69                                  | -                         | _                          |
|         | 11/5/02           | 29.38                          | 17.64                     | 11.74                                  | -                         | -                          |
|         | 2/4/03            | 29.38                          | 16.02                     | 13.36                                  | -                         | _                          |

| Episode # | Date     | Average Water<br>Table<br>Elevation** | Change from<br>Previous Episode | Flow direction<br>(gradient) |
|-----------|----------|---------------------------------------|---------------------------------|------------------------------|
| 1         | 6/29/01  | 12.10                                 | -                               | SSE (0.0074)                 |
| 2         | 10/10/01 | 11.80                                 | -0.30                           | SSE (0.0071)                 |
| 3         | 1/9/02   | 14.68                                 | 2.88                            | SE (0.0054)                  |
| 4         | 4/24/02  | 13.85                                 | -0.83                           | SSW (0.005)                  |
| 5         | 7/24/02  | 12.92                                 | -0.93                           | NE (0.021)                   |
| 6         | 11/5/02  | 11.89                                 | -1.02                           | SW (0.019)                   |
| 7         | 2/4/03   | 12.80                                 | 0.90                            | NNW (0.01)                   |

LNAPL = light non-aqueous phase liquid (floating free product)

ft amsl = feet above mean sea level

 $Note = Historical\ groundwater\ elevation\ and\ quality\ data\ for\ wells\ MW-1\ and\ MW-2\ was\ not\ available$ 

<sup>\* =</sup> Measured groundwater level affected by LNAPL and/or pump presence, not used to calculate water table elevation

All well elevations are measured from the top of the casing

<sup>- =</sup> not applicable

Table 2
Groundwater Sample Analytical Data

| Well/Sample<br>ID | Date<br>Collected | NAPL<br>thickness (ft) | TPHg<br>μg/L | MTBE<br>μg/L | Benzene<br>μg/L | Toluene<br>µg/L | Ethylbenzene<br>µg/L | Xylenes<br>μg/L |
|-------------------|-------------------|------------------------|--------------|--------------|-----------------|-----------------|----------------------|-----------------|
|                   |                   |                        |              |              | , 5             |                 |                      | , , ,           |
| MW-1              | 6/29/01           | 1.63                   | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 10/10/01          | 0.08                   | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 1/9/02            | < 0.01                 | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 4/24/02           | < 0.01                 | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 7/24/02           | ~0.01                  | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 11/5/02           | ~0.01                  | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
|                   | 1/4/03            | ~0.01                  | ns/fp        | ns/fp        | ns/fp           | ns/fp           | ns/fp                | ns/fp           |
| MW-2              | 6/29/01           | 0.0                    | 69,000       | 4100/4400*   | 7,200           | 6,100           | 1,500                | 7,000           |
|                   | 10/10/01          | 0.0                    | 87,000       | 14,000       | 22,000          | 12,000          | 2,700                | 9,100           |
|                   | 1/9/02            | 0.0                    | 130,000      | 11,000       | 30,000          | 19,000          | 3,800                | 14,000          |
|                   | 4/24/02           | Sheen                  | 210,000      | 32,000       | 38,000          | 23,000          | 4,600                | 19,000          |
|                   | 7/24/02           | Sheen                  | 170,000      | 36,000       | 48,000          | 12,000          | 3,700                | 8,600           |
|                   | 11/5/02           | Sheen                  | 190,000      | 36,000       | 45,000          | 25,000          | 4,600                | 16,000          |
|                   | 1/4/03            | Sheen                  | 150,000      | 27,000       | 51,000          | 24,000          | 4,200                | 14,000          |
| MW-3              | 6/29/01           | 0.0                    | 550          | <5.0         | <0.5            | 3.1             | 3.2                  | 1.2             |
|                   | 10/10/01          | 0.0                    | 470          | <5.0         | 0.77            | 5.3             | 3.3                  | 5.9             |
|                   | 1/9/02            | 0.0                    | 1,000        | <5.0         | 0.90            | 7.6             | 7.8                  | 25              |
|                   | 4/24/02           | 0.0                    | 1,500        | <5.0         | 0.64            | 7.2             | 12                   | 14              |
|                   | 7/24/02           | 0.0                    | 1,200        | <5.0         | 10              | 17.0            | 11                   | 25              |
|                   | 11/5/02           | 0.0                    | 1,800        | <25          | 33              | 43.0            | 18                   | 31              |
|                   | 1/4/03            | 0.0                    | 450          | <5.0         | <0.5            | 5.0             | <0.5                 | 0.77            |
| MW-4              | 6/29/01           | 0.0                    | <50          | <5.0         | <0.5            | <0.5            | <0.5                 | <0.5            |
|                   | 10/10/01          | 0.0                    | <50          | <5.0         | < 0.5           | < 0.5           | < 0.5                | < 0.5           |
|                   | 1/9/02            | 0.0                    | <50          | <5.0         | <0.5            | < 0.5           | <0.5                 | <0.5            |
|                   | 4/24/02           | 0.0                    | <50          | <5.0         | <0.5            | < 0.5           | < 0.5                | < 0.5           |
|                   | 7/24/02           | 0.0                    | <50          | <5.0         | <0.5            | < 0.5           | < 0.5                | <0.5            |
|                   | 11/5/02           | 0.0                    | <50          | <5.0         | <0.5            | <0.5            | < 0.5                | < 0.5           |
|                   | 1/4/03            | 0.0                    | <50          | <5.0         | <0.5            | <0.5            | <0.5                 | < 0.5           |
| MDL               |                   |                        | 50           | 5.0          | 0.5             | 0.5             | 0.5                  | 0.5             |

μg/L micrograms per liter

TPHg total petroleum hydrocarbons as gasoline

MTBE methyl tertiary butyl ether

\* samples re-analyzed by EPA Method 8260 (expressed as EPA 8020 / EPA 8260)

ns/fp = not sampled / free product

MDL = method detection limit

Please refer to Appendix B: Lab Results for further detailed lab information including dilution factors

Table 3
Fuel Oxygenates and Lead Scavengers

| Well/Sample<br>ID | Date<br>Collected | DIPE<br>μg/L | ETBE<br>μg/L | MTBE<br>μg/L | TAME<br>μg/L | TBA<br>μg/L | EDB<br>μg/L | 1,2-DCA<br>μg/L |
|-------------------|-------------------|--------------|--------------|--------------|--------------|-------------|-------------|-----------------|
| MW-1              | 7/24/02           | ns/fp        | ns/fp        | ns/fp        | ns/fp        | ns/fp       | ns/fp       | ns/fp           |
| MW-2              | 7/24/02           | ND<1,000     | ND<1,000     | 43,000       | ND<1,000     | ND<10,000   | ND<1,000    | ND<1,000        |
| MW-3              | 7/24/02           | <0.5         | <0.5         | 1.3          | <0.5         | <5.0        | <0.5        | <0.5            |
| MW-4              | 7/24/02           | <0.5         | <0.5         | <0.5         | <0.5         | <5.0        | <0.5        | <0.5            |
| MDL               |                   | 0.5          | 0.5          | 0.5          | 0.5          | 5.0         | 0.5         | 0.5             |

μg/L micrograms per liter

MDL = method detection limit

ns/fp = not sampled / free product

 $Note = Historical\ Groundwater\ elevation\ and\ quality\ data\ for\ wells\ MW-1\ and\ MW-2\ was\ not\ available$ 

# APPENDIX A WELL FIELD SAMPLING FORMS

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

|                  |                         | Monitoring Well Number: | MW-1   |
|------------------|-------------------------|-------------------------|--------|
| Project Name:    | Lum                     | Date of Sampling: 2/4,  | /2003  |
| Job Number:      | 4332                    | Name of Sampler: SM     |        |
| Project Address: | 245 8th Street, Oakland |                         | . 11-5 |

| MONITORING CONTRACTORING  | SWELL'E | ATALES IN THE ENTIRE |       |  |
|---|---------|----------------------|-------|--|
| Well Casing Diameter (2"/4"/6")   |         | 4                    |       |  |
| Wellhead Condition  | OK      |                      | -     |  |
| Elevation of Top of Casing (feet above msl)   |         | 27.63                |       |  |
| Depth of Well   |         | 25.00                |       |  |
| Depth to Water (from top of casing)   |         | 14.91                |       |  |
| Water Elevation (feet above msl)  | 10.09   |                      |       |  |
| Well Volumes Purged   | 3       |                      |       |  |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 19.7    |                      |       |  |
| Actual Volume Purged (gallons)  | -       | 20.0                 |       |  |
| Appearance of Purge Water   |         |                      |       |  |
| Free Product Present?   | Yes     | Thickness (ft):      | ~0.01 |  |

| Number of Sampl | es/Container S       | Size |    | (2) 40mL VO          | Α            |              |          |
|-----------------|----------------------|------|----|----------------------|--------------|--------------|----------|
| Time            | Vol Removed<br>(gal) |      | рН | Conductivity (µS/cm) | DO<br>(mg/L) | ORP<br>(meV) | Comments |
|                 |                      |      |    |                      |              | •            |          |
|                 |                      |      |    |                      |              |              |          |
|                 |                      |      |    |                      |              |              |          |
|                 |                      |      |    |                      |              | ,            |          |
|                 |                      |      |    |                      |              |              |          |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

well not sampled, free product present

## **AEI CONSULTANTS** GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

|                  |                         | Monitoring Well Number: | MW-2   |
|------------------|-------------------------|-------------------------|--------|
| Project Name:    | Lum                     | Date of Sampling: 2/-   | 4/2003 |
| Job Number:      | 4332                    | Name of Sampler: SN     |        |
| Project Address: | 245 8th Street, Oakland |                         | 3      |

| MONITORING  | G WELL DATA               |
|---|---------------------------|
| Well Casing Diameter (2"/4"/6")   | 2                         |
| Wellhead Condition  | OK ▼                      |
| Elevation of Top of Casing (feet above msl)   | 28.16                     |
| Depth of Well   | 25.00                     |
| Depth to Water (from top of casing)   | 15.42                     |
| Water Elevation (feet above msl)  | 9.58                      |
| Well Volumes Purged   | 3                         |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 4.6                       |
| Actual Volume Purged (gallons)  | 5.0                       |
| Appearance of Purge Water   |                           |
| Free Product Present?   | Yes Thickness (ft): Sheen |

|                  | garage and the seco  |                        | HE (O) UNIO) WA | Markanisi               | iES sale ale | Barrio de Luciero | <b>可能的数据的</b> |
|------------------|----------------------|------------------------|-----------------|-------------------------|--------------|-------------------|---------------|
| Number of Sample | es/Container S       | Size                   |                 | (2) 40mL VO             | A            |                   |               |
| Time             | Vol Removed<br>(gal) | Temperature<br>(deg C) | рН              | Conductivity<br>(μS/cm) | DO<br>(mg/L) | ORP /<br>(meV)    | Comments      |
|                  |                      |                        |                 |                         |              |                   |               |
| <del></del>      |                      |                        | <u></u>         |                         |              |                   |               |
|                  |                      |                        |                 |                         |              |                   |               |
|                  |                      |                        |                 |                         |              |                   |               |
| :<br>            |                      |                        |                 |                         |              |                   |               |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| No readings taken due to equipment calibration |  |
|--|--|
| Strong hydrocarbon odor, slight sheen          |  |
|  |  |
|  |  |

# <u>AEI CONSULTANTS</u> GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

| Project Name:    | Lum                     | Date of Sampling: 2/4/2003 |
|------------------|-------------------------|----------------------------|
| Job Number:      | 4332                    | Name of Sampler: SM        |
| Project Address: | 245 8th Street, Oakland |                            |

| THE PROPERTY OF THE PARTY MONITORING  | WELL DATA SET THE PROPERTY OF THE PARTY OF |
|---|--|
| Well Casing Diameter (2*/4"/6")   | 4  |
| Wellhead Condition o  | K ▼  |
| Elevation of Top of Casing (feet above msl)   | 29.21                                      |
| Depth of Well   | 25.00                                      |
| Depth to Water (from top of casing)   | 16.02                                      |
| Water Elevation (feet above msl)  | 8.98                                       |
| Well Volumes Purged   | 3  |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 17.5                                       |
| Actual Volume Purged (gallons)  | 18.0                                       |
| Appearance of Purge Water   | clear                                      |
| Free Product Present?   | No Thickness (ft): -                       |

|                 |                      |                        | ROUNDWA | TERSONE.             | ES All Long  | er a Jeji s Pearl 7 |          |
|-----------------|----------------------|------------------------|---------|----------------------|--------------|---------------------|----------|
| Number of Sampl | es/Container S       | Size                   |         | (2) 40mL VO          | A            |                     |          |
| Time            | Vol Removed<br>(gal) | Temperature<br>(deg C) | рН      | Conductivity (µS/cm) | DO<br>(mg/L) | ORP<br>(meV)        | Comments |
|                 | 3                    | 19.52                  | 6.37    | 401                  | 0.18         | 17.4                |          |
|                 | 6                    | 19.54                  | 6.4     | 384                  | 0.21         | 3.4                 |          |
| · ·             | 9                    | 19.55                  | 6.39    | 367                  | 0.23         | -8.2                |          |
|                 | 12                   | 19.65                  | 6.45    | 369                  | 0.32         | -32                 |          |
|                 | 15                   | 19.68                  | 6.46    | 369                  | 0.15         | -35.8               |          |
|                 | 18                   | 19.7                   | 6.47    | 361                  | 0.13         | -36.8               |          |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| Slight hydrocarbon odor |       |  |  |
|-------------------------|-------|--|--|
|                         |       |  |  |
|                         |       |  |  |
|                         | <br>- |  |  |

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

| Project Name:    | Lum                     | Date of Sampling: 2/4/2003 |
|------------------|-------------------------|----------------------------|
| Job Number:      | 4332                    | Name of Sampler: SM        |
| Project Address: | 245 8th Street, Oakland | ,                          |

| MONITORING  | WELL DA      | TAPET STREET          |             |
|---|--------------|-----------------------|-------------|
| Well Casing Diameter (2"/4"/6")   | <del> </del> | 4                     |             |
| Wellhead Condition  |              |                       | -           |
| Elevation of Top of Casing (feet above msl)   | <del></del>  | 29.38                 | <b>.</b>    |
| Depth of Well   |              | 25.00                 |             |
| Depth to Water (from top of casing)   |              | 16.92                 | ·           |
| Water Elevation (feet above msl)  |              | 8.08                  |             |
| Well Volumes Purged   |              | 3                     |             |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) |              | 15.8                  |             |
| Actual Volume Purged (gallons)  |              | 16.0                  |             |
| Appearance of Purge Water   |              | clear after 3 gallons | <del></del> |
| Free Product Present?   | No           | Thickness (ft):       | -           |

| Assistant Republic 1 | all is a silas       | i e de la C            | SEGIENTE MAN    | TEE SAMPL               | ES           | 100          | <b>n kal</b> ipida k |
|----------------------|----------------------|------------------------|-----------------|-------------------------|--------------|--------------|----------------------|
| Number of Sampl      | es/Container S       | ize                    | <b>第四字数字数</b> 例 | (2) 40mL VO             | A            |              |                      |
| Time                 | Vol Removed<br>(gal) | Temperature<br>(deg C) | рН              | Conductivity<br>(µS/cm) | DO<br>(mg/L) | ORP<br>(meV) | Comments             |
|                      | 2.5                  | 18.21                  | 6.17            | 437                     | 4.27         | 207.2        | light brown          |
|                      | 5                    | 18.17                  | 6.09            | 439                     | 4.49         | 227.1        | clear                |
|                      | 7.5                  | 18.21                  | 6.11            | 440                     | 3.15         | 219.6        |                      |
| -                    | 10.5                 | 18.3                   | 6.17            | 467                     | 3.05         | 201.3        |                      |
|                      | 13                   | 18.32                  | 6.16            | 470                     | 3.2          | 194.2        |                      |
|                      | 16                   | 18.37                  | 6.24            | 498                     | 4.81         | 160.6        |                      |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| Recharged after 13 gallons for 10 minutes |  |
|---|--|
| Slight hydrocarbon odor                   |  |
|   |  |
|   |  |

| McCampbell Analytical Inc. |
|----------------------------|
| McCampbell Analytical In   |

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: #4332; Lum     | Date Sampled: 02/04/03   |
|-----------------------------|-----------------------------------|--------------------------|
| 3210 Old Tunnel Rd., Ste. B |                                   | Date Received: 02/04/03  |
| Lafayette, CA 94549-4157    | Client Contact: Brandi Kiel Reese | Date Extracted: 02/05/03 |
| Latayono, Oil 94349-4137    | Client P.O.: Brandi Kiel Reese    | Date Analyzed: 02/05/03  |

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

| Extraction | method: SW5030B                         |        |           | Analytical | methods: SW80211 | B/8015Cm | Work Order: 030202: |         |     |      |  |  |  |  |  |  |  |  |  |
|------------|---|--------|-----------|------------|------------------|----------|---------------------|---------|-----|------|--|--|--|--|--|--|--|--|--|
| Lab ID     | Client ID                               | Matrix | TPH(g)    | MTBE       | Benzene          | Toluene  | Ethylbenzene        | Xylenes | DF  | % SS |  |  |  |  |  |  |  |  |  |
| 001A       | MW-2                                    | w      | 150,000,a | 27,000     | 51,000           | 24,000   | 4200                | 14,000  | 200 | 101  |  |  |  |  |  |  |  |  |  |
| 002A       | MW-3                                    | w      | 450,a     | ND         | ND               | 5.0      | ND                  | 0.77    | 1   | 106  |  |  |  |  |  |  |  |  |  |
| 003A       | MW-4                                    | w      | ND        | ND         | ND               | ND       | ND                  | ND      | 1   | 99.1 |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            | :                |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            |                  | ·        |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   | -      |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            | <u>.</u>                                |        |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            |   |        |           |            |                  |          |                     |         |     |      |  |  |  |  |  |  |  |  |  |
|            | Limit for DF =1;                        | w      | 50        | 5.0        | 0.5              | 0.5      | 0.5                 | 0.5     | 1   | μg/L |  |  |  |  |  |  |  |  |  |
|            | not detected at or<br>e reporting limit | S      | NA        | NA         | NA               | NA       | NA                  | NA      | I   | mg/K |  |  |  |  |  |  |  |  |  |

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

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

<sup>+</sup>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?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0302025

| EPA Method: SW802 | 21B/8015Cm E | xtraction: | SW5030E | 3      | BatchID: | 5802   | Spiked Sample ID: 0302029-012A |          |            |              |  |  |  |  |  |  |  |
|-------------------|--------------|------------|---------|--------|----------|--------|--------------------------------|----------|------------|--------------|--|--|--|--|--|--|--|
| Compound          | Sample       | Spiked     | MS*     | MSD*   | MS-MSD*  | LCS    | LCSD                           | LCS-LCSD | Acceptance | Criteria (%) |  |  |  |  |  |  |  |
| Compound          | μg/L         | μg/L       | % Rec.  | % Rec. | % RPD    | % Rec. | % Rec.                         | % RPD    | Low        | High         |  |  |  |  |  |  |  |
| TPH(gas)          | ND           | 60         | 103     | 106    | 2.64     | 98.8   | 104                            | 4.79     | 80         | 120          |  |  |  |  |  |  |  |
| MTBE              | ND           | 10         | 85.6    | 89.2   | 4.02     | 80.9   | 87.5                           | 7.81     | 80         | 120          |  |  |  |  |  |  |  |
| Benzene           | ND           | 10         | 101     | 101    | 0.173    | 94.7   | 102                            | 7.57     | 80         | 120          |  |  |  |  |  |  |  |
| Toluene           | ND           | 10         | 95.5    | 95.1   | 0.495    | 90.4   | 97.4                           | 7.43     | 80         | 120          |  |  |  |  |  |  |  |
| Ethylbenzene      | ND           | 10         | 101     | 102    | 1.24     | 97.1   | 103                            | 5.53     | 80         | 120          |  |  |  |  |  |  |  |
| Xylenes           | ND 30        |            | 96.7    | 96.7   | 0        | 93     | 96.7                           | 3.87     | 80         | 120          |  |  |  |  |  |  |  |
| %SS:              | 107          | 100        | 99      | 96.1   | 3.02     | 98.5   | 99.3                           | 0.799    | 80         | 120          |  |  |  |  |  |  |  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or language content.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

|             |                                    |              |                 |  | TOORIA                     | a ny:        |        |   | <del></del>                                      | Va        | <del>, , .</del> | =           |            |                   |                   |                       |                       |                |                            |                |                           |                   |                |                        |                  |              |                             |                |            |         |              |          | :           |
|-------------|------------------------------------|--------------|-----------------|--|----------------------------|--------------|--------|---|--|-----------|------------------|-------------|------------|-------------------|-------------------|-----------------------|-----------------------|----------------|----------------------------|----------------|---------------------------|-------------------|----------------|------------------------|------------------|--------------|-----------------------------|----------------|------------|---------|--------------|----------|-------------|
|             | inquished By:                      | <u>.</u>     | Date:           | Time:  | Receiv                     |              |        |   |  |           |                  |             |            |                   |                   | · 0                   | EAI                   | CO<br>SP/      | ACE A                      | TON<br>ABSE    | NT_                       | L<br>NB           |                | APP                    | ROP<br>VTAL      | RIA'<br>NER  | ION<br>IE (<br>S<br>IN)     | $\overline{z}$ | <u>_</u>   |         |              |          |             |
|             | Inquished By:                      |              | 2 4 03<br>Date: | 4:15   | 111                        | em           | 2      |   |  | -         |                  |             |            | Re                | mar               | ŗ                     |                       |                | -                          | *** — .        | g-200                     |                   | ,              | 4 character.           | and one of the p |              |                             | <b>VDA</b>     | <b>8</b> ( | O&G     | Ma           | STAL     | OTHER       |
| Re          | linguished By:                     |              | Date:           | Time:  | Receiv                     | red Rv       |        | لِـــــــــــــــــــــــــــــــــــــ |  |           |                  |             |            |                   |                   |                       |                       |                |                            | .]             |                           |                   |                |                        |                  |              |                             | I              | I          |         |              |          |             |
|             |                                    |              | <del></del>     |  |                            |              |        |   |  |           |                  |             |            |                   |                   |                       |                       |                |                            | +              | 1                         | 1                 |                | $\dagger$              | $\dagger$        | +            | +                           | †              | +          | +-      | +            | $\vdash$ |             |
|             |                                    | ,            |                 |  |                            |              |        |   |  |           | +                |             |            |                   |                   |                       |                       |                |                            | $\dashv$       | +                         | +                 | +              | +                      | +                | +            | +                           | +              | +          | +       | +            | ┼        |             |
|             |                                    |              | -               |  |                            |              | -      | $\top$                                  | <del>                                     </del> | - -       | $\dagger$        | -           | 1          |                   |                   | -                     |                       |                |                            | $\dashv$       | $\dashv$                  | +                 | +              | +                      | +                | -            | +                           | +              | +          | +       | ╁            | ╁        | <del></del> |
| L           |                                    |              |                 |  |                            |              | $\neg$ | +                                       | <del> -</del>                                    | $\forall$ |                  |             | +          | ┢                 | <del> </del>      |                       | -                     |                |                            |                | +                         |                   | +              | +                      | +                | +            | +                           | +              | -          | +       | -            | +        |             |
|             |                                    | -            |                 | <u> </u>   | 1.                         |              |        | +                                       | ╁╌   |           |                  | +-          | ╀          | ╁╌                | <del> </del>      |                       |                       |                |                            |                | $\dashv$                  | $\dashv$          | +              |                        | -                | -            |                             | +              | $\bot$     |         | _            | 1        |             |
| -           |                                    | ·            | -               | <del>                                     </del> | <del> </del>               |              |        | +-                                      | +-   | +         | +                |             | ╀.         | $\vdash$          | -                 |                       | -                     |                | _                          |                |                           | $\dashv$          | _              | _                      | $\dashv$         | _            | _                           | $\downarrow$   | _          |         | <u> -</u>    |          | ·           |
|             |                                    |              | <del> </del>    | <del> </del>                                     |                            |              | ┝╌┼    | - -                                     | -  | +-1.      | - -              | -           | +          | -                 |                   | <del> </del>          |                       | -              | <u> </u>                   | _              |                           | _                 | _              | _ .                    |                  | _            |                             | 1              | $\perp$    | $\perp$ | $\perp$      |          |             |
| $\vdash$    |                                    |              | ļ               |  |                            |              |        |   | - -  |           | 4                |             | $\bot$     | -                 |                   | _                     | -                     | 1              | <u> </u>                   |                |                           | _                 | _              | $\perp$                | _                |              |                             |                | $\perp$    |         |              |          |             |
| -           |                                    |              | <del> </del>    | <del>- </del> -                                  |                            | -            |        |   | -  | +         |                  | - -         | 4          | -                 | <u> </u>          | 1                     | ļ                     | <u> </u>       | ļ                          |                |                           |                   | _              |                        |                  |              |                             |                |            |         |              |          |             |
| ╬           | 19100 - 7                          |              | -               | <del> </del>                                     | -                          | -            |        | _                                       | <u> </u>   | +         | _                | _           | <u>.  </u> | 4                 | 上                 | _                     | _                     | igspace        | _                          |                |                           |                   |                |                        |                  |              |                             |                |            |         |              | $\top$   |             |
| 十           | MW-4                               | <u> </u>     | <del>  -</del>  |  | <del></del> -              | <u> </u>     |        | _ _                                     | $\perp$  | -         | _                | _           |            | Ц                 | _                 | $\perp$               | _                     |                |                            | ļ.             |                           |                   |                |                        | -                |              |                             |                |            | $\top$  | 7            | T        |             |
| $\vdash$    | M1.1 - 2                           |              | ļ               | ·  | _                          | ļ            | -      | 1                                       | - -  | -         |                  | 1           | -          | $\perp \parallel$ | 1                 |                       |                       |                |                            |                |                           |                   |                |                        |                  |              |                             |                |            | 7       |              | 7        |             |
| <u>,</u>  - | NA I                               | <u> </u>     | 24              |  | 12                         | Yor          | ΙX     |   | _ _  | -         | X                | X           | _          | 7                 |                   |                       | _                     |                |                            |                |                           |                   |                |                        |                  |              |                             |                |            | $\top$  | 1            | 7        |             |
|             | · SAMPLE ID                        | LOCATION     | Date            | Time   | \displaystyle{\gamma}{\pi} |              | 1      |   | A  | Other     | Ice              | HC          | HNG.       |                   |                   | Total Petroles (8013) | Total Detectal        | EPA 601 / 2010 | BTEX ONLY (FPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624/8240/8260 | EPA 625 / 8270 | PAH's / PNA'           | CAM-17 Metals    | LUFT 5 Metal | Lead (7240/7421/239.2/6010) | RCI            |            |         |              |          |             |
|             |                                    |              | SA              | MPLING   |                            | iners        |        | MA                                      | TR   | IX        | PR               | ESE.        | HOD<br>RVE | D,                | + 0208/2000 sen s | (8013)                | 2 .                   | oim (tru)      | (EPA 602                   | 0              | 0 PCB's                   | 0/8260            | 0              | s by EPA 625/8270/8310 | 1                | 10           | 21/239.2/(                  |                |            |         |              |          |             |
| į           | Sampler Signature                  | e:           | WIN CZ          |  | <del></del>                | - ;          |        | <del></del>                             |  |           | <del></del>      |             |            | $\dashv$          | 020               |                       | Orease (5520 E&F/B&F) | 6              | 18                         | 8              | N.                        |                   |                | 625/                   |                  |              | 010                         | .              |            |         |              |          | -           |
| ł           | Project Location:                  | OAV:         | ania            |  | Proje                      | ct Na        | me:    | 4                                       | <u>د ۱</u>                                       | <u> </u>  |                  |             |            | _                 | £ 801             |                       |                       | ₹.             | 18                         | 3              |                           |                   |                | 827                    |                  |              |                             |                |            |         |              |          |             |
|             | Tele: (925) 283-6<br>Project #: 43 | 000          | <u> </u>        |  | Fax:                       | <u>(925)</u> | 283    | -612                                    | 1  | ·         | <del></del> -    | <del></del> |            | _                 | 8015Y MTBE        |                       | E 07                  | (8.1)          |                            |                |                           |                   |                | 3 / 8                  |                  |              |                             |                |            |         |              |          |             |
|             |                                    | ite, CA 9454 |                 |  |                            |              |        |   |  |           |                  |             |            |                   | 28<br>1           |                       | 7                     | _              |                            | l              |                           |                   |                | 310                    |                  |              |                             |                |            |         |              |          |             |
|             | 3210 Old Tunnel Road, Suite B      |              |                 |  |                            |              |        |   |  |           |                  |             |            |                   |                   | 7                     |                       | -              |                            |                |                           |                   |                | )                      |                  |              |                             |                | 1          |         |              |          |             |
|             | Company: All En                    | vironmental  |                 |  |                            |              |        |   |  |           |                  |             |            | _                 | <del>- `</del>    | Τ.                    | $\overline{\Box}$     | Ť              | <del></del>                | 71161          | 7813                      | T                 | 1163           | <del> </del>           | T                |              | Т-                          | T              | +          | T       | Mei          |          | Comme       |
|             | Report To: BR                      | ANDI KI      | EL R            | FFSF   | Bill                       | Γo:          | 1 47   | . ()2.                                  | 7) /   | 70~1C     |                  |             |            |                   |                   |                       |                       |                |                            | hal            |                           | Dag               | 1100           | <del></del>            | 1(1              | 100          |                             |                | T          |         | 40 r.<br>her | 100      | Comme       |
|             | Teleph                             | one: (925) 7 | 98-1620         | •  |                            |              | Fav    | (024                                    | 5) 7   | 98-16     | ())              | ٠.          |            | ı                 |                   |                       |                       |                |                            |                |                           |                   |                |                        |                  |              | r                           |                |            | מוו     |              |          | ir ·s da    |
|             |                                    |              | P/              | ™ AVENU<br>ACHECO,                               | CA 9455                    | 3            |        |   |  |           |                  |             |            | - 1               |                   | Ţ                     | . Ut                  | VV             | AR                         | UU.            | 1NL                       |                   | ĮΜĻ            | 5                      | Ę                | ]            |                             |                |            |         | τ            | T        | L)          |

# McCampbell Analytical Inc.



# **CHAIN-OF-CUSTODY RECORD**

of l

WorkOrder: 0302025

Client:

All Environmental, Inc.

Lafayette, CA 94549-4157

3210 Old Tunnel Rd., Ste. B

TEL:

(925) 283-6000

FAX:

(925) 283-6121

ProjectNo: PO:

#4332; Lum

Brandi Kiel Rees

Date Received:

2/4/03

Date Printed:

2/4/03

| Sample ID   | ClientSamplD | Matrix | Collection Date | Hold | Requested Tests                        |  |  |   |     |   |
|-------------|--------------|--------|-----------------|------|--|--|--|---|-----|---|
|             |              |        |                 |      | 8021B/8015                             |  |  |   |     |   |
| [           |              |        | ·               |      | ************************************** |  |  | , |     |   |
| 0302025-001 | MW-2         | Water  | 2/4/03          |      | ΑΑ                                     |  |  |   | İ   | · |
| 0302025-002 | MW-3         | Water  | 2/4/03          |      | А                                      |  |  |   |     |   |
| 0302025-003 | MW-4         | Water  | 2/4/03          |      | A                                      |  |  |   | - † |   |

Prepared by: Melissa Valles

### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.