aqua science engineers inc.

October 22, 2004

QUARTERLY GROUNDWATER MONITORING REPORT
SEPTEMBER 2004 GROUNDWATER SAMPLING
ASE JOB NO. 3540

at
Oakland Truck Stop
8255 San Leandro Street
Oakland, California

Prepared for:
Mr. Nissan Saidian
5733 Medallion Court
Castro Valley, CA 94522

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
208 W. El Pintado
Danville, CA 94526
(925) 820-9391

## 1.0 INTRODUCTION

Site Location (Site), See Figure 1
Oakland Truck Stop
8255 San Leandro Street
Oakland, California

Responsible Party
Mr. Nissan Saidian
5733 Medallion Court
Castro Valley, CA 94522

Environmental Consulting Firm
Aqua Science Engineers, Inc. (ASE)
208 West El Pintado
Danville, CA 94526
Contact: Robert Kitay, Senior Geologist
(925) 820-9391

Agency Review
Mr. Amir Gholami
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Mr. Chuck Headlee
California Regional Water Quality Control Board (RWQCB)
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

The following is a report detailing the methods and findings of the September 2004 quarterly groundwater sampling at the above-referenced site. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Mr. Nissan Saidian, owner of the property.

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On September 21, 2004, ASE measured the depth to water in monitoring wells MW-2 through MW-9 using an electric water level sounder. Oakland Truck Stop staff had conducted weekly bailing of Liquid Phase Hydrocarbons (LPH) from monitoring well MW-1 prior to ASE arrival and the well was therefore not gauged. The surface of the groundwater in the remaining wells was also checked for the presence of LPH or sheen using an electronic oil/water interface probe.

Monitoring well MW-1 continued to contain LPH this quarter, however Oakland Truck stop staff did not record the amount prior to bailing it. No LPH or sheen was observed in any of the remaining site monitoring wells. Groundwater elevation data is presented as Table One.

A groundwater potentiometric surface map for September 21, 2004 is presented as Figure 2. The groundwater flow direction at the site has been inconsistent and highly variable. Groundwater flow this quarter was generally to the northwest with an irregular gradient.

## 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Groundwater samples were collected from monitoring wells MW-2 through MW-9. Prior to sampling, the wells were purged of three well casing volumes of groundwater using disposable polyethylene bailers. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until these parameters stabilized. Groundwater samples were then collected from each well using disposable polyethylene bailers. Monitoring well MW-1 contained LPH and therefore was not sampled.

All samples were decanted from the bottom of the bailers using low-flow sampling devices into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and placed in coolers with wet ice for transport to Kiff Analytical, LLC of Davis, California under appropriate chain-of-custody documentation. Well sampling field logs are presented in Appendix A.

The monitoring well purge water was placed in a 55-gallon steel drum, and stored on site for later removal.

The groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M, and total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX), and oxygenates including ethanol and methanol by EPA Method 8260B. The analytical results are presented in Table Two. The certified analytical report and chain-of-custody documentation are included as Appendix B.

## 4.0 CONCLUSIONS

Monitoring well MW-1 continued to contain LPH this quarter.

In general, concentrations of dissolved hydrocarbons remained similar to previous results. Hydrocarbon concentrations in the groundwater samples collected from monitoring wells MW-2 through MW-6, and MW-9 exceeded Environmental Screening Levels (ESLs) as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated July 2003.

## 5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for December 2004.

Oakland Truck Stop staff will continue periodic LPH removal from monitoring well MW-1 during the next quarter. In addition, ASE has completed a pilot study for ozone-sparging remediation at the site and prepared a report dated April 7, 2004. ASE will install the ozone-sparging remediation system once approved by the ACHCSA. ASE will also conduct a soil and groundwater assessment to complete the definition of contamination during the next quarter.

## 6.0 REPORT LIMITATIONS

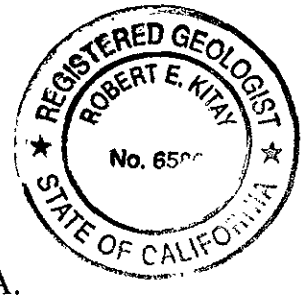
The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Damian Hriciga
Project Geologist




Robert E. Kitay, R.G., R.E.A.
Senior Geologist

Attachments: Table One through Three
Figures 1 and 2
Appendices A and B

cc: Mr. Nissan Saidian
Mr. Amir Gholami, ACHCSA
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

# TABLES

# TABLE ONE
## Groundwater Elevation Data
Oakland Truck Stop
8255 San Leandro Street, Oakland, CA

| Well I.D & Date Sampled | Top of Casing Elevation (msl) | Depth to Water (feet) | Free-Floating Hydrocarbon Thickness (feet) | Groundwater Elevation (msl) |
|---|---|---|---|---|
| MW-1 | | | | |
| 8/16/99 | 97.12 | Unknown | > 1.0 | Unknown |
| 8/27/99 | | 6.90 | 0.36 | 90.51* |
| 9/10/99 | | 6.85 | 0.18 | 90.41* |
| 9/24/99 | | 6.65 | 0.08 | 90.53* |
| 10/8/99 | | 6.87 | 0.28 | 90.47* |
| 10/22/99 | | 6.81 | 0.23 | 90.49* |
| 11/2/99 | | 6.94 | 0.31 | 90.43* |
| 11/19/99 | | 6.91 | 0.12 | 90.31* |
| 12/6/99 | | 6.93 | 0.12 | 90.29* |
| 3/8/00 | | 5.93 | 0.21 | 91.36* |
| 6/14/00 | | 6.57 | 0.72 | 90.41* |
| 12/11/00 | | 6.70 | 0.60 | 90.90* |
| 3/6/01 | | 5.75 | 0.40 | 91.69* |
| 6/6/01 | | 7.60 | 1.48 | 90.70* |
| 9/4/01 | | 6.80 | 0.20 | 90.48* |
| 3/11/02 | | approx. 7.47 | approx. 3 | approx. 92.05* |
| 6/6/02 | | 6.49 | 0.67 | 91.17* |
| 9/4/02 | 11.02 | 6.89 | 0.54 | 4.56* |
| 12/17/02 | | 4.65 | | 6.47* |
| 3/7/03 | | 6.55 | 1.19 | 3.52* |
| 6/5/03 | | 9.77 | 4.63 | 4.95* |
| 9/19/03 | | 6.56 | 0.32 | 4.72* |
| 12/12/03 | | 5.63 | 0.41 | 5.72* |
| 3/15/04 | | 7.11 | 0.40 | 4.23* |
| 6/22/04 | | NM | NM | NM |
| 9/21/04 | | NM | NM | NM |
| MW-2 | | | | |
| 8/16/99 | 96.82 | 6.30 | -- | 90.52 |
| 12/6/99 | | 8.46 | -- | 88.36 |
| 3/8/00 | | 9.12 | -- | 87.70 |
| 6/14/00 | | 8.34 | -- | 88.48 |
| 12/11/00 | | 5.94 | -- | 90.88 |
| 3/6/01 | | 4.70 | -- | 92.12 |
| 6/6/01 | | 6.03 | -- | 90.79 |
| 9/4/01 | | 6.34 | -- | 90.48 |
| 3/11/02 | | 4.89 | -- | 91.93 |
| 6/6/02 | | 5.69 | -- | 91.13 |
| 9/4/02 | 10.70 | 6.17 | -- | 4.53 |
| 12/17/02 | | 4.39 | -- | 6.31 |
| 3/7/03 | | 5.44 | -- | 5.26 |
| 6/5/03 | | 5.59 | -- | 5.11 |
| 9/19/03 | | 6.09 | -- | 4.61 |
| 12/12/03 | | 5.13 | -- | 5.57 |
| 3/15/04 | | 5.71 | -- | 4.99 |
| 6/22/04 | | 5.80 | -- | 4.90 |
| 9/21/04 | | 6.64 | -- | 4.06 |

# TABLE ONE
## Groundwater Elevation Data
### Oakland Truck Stop
### 8255 San Leandro Street, Oakland, CA

| Well I.D & Date Sampled | Top of Casing Elevation (msl) | Depth to Water (feet) | Free-Floating Hydrocarbon Thickness (feet) | Groundwater Elevation (msl) |
|---|---|---|---|---|
| MW-3 | | | | |
| 8/16/99 | 96.43 | 5.85 | -- | 90.58 |
| 12/6/99 | | 5.70 | -- | 90.73 |
| 3/8/00 | | 5.32 | -- | 91.11 |
| 6/14/00 | | 6.95 | -- | 89.48 |
| 12/11/00 | | 6.22 | -- | 90.21 |
| 3/6/01 | | 4.83 | -- | 91.60 |
| 6/6/01 | | 5.62 | -- | 90.81 |
| 9/4/01 | | 5.91 | -- | 90.52 |
| 3/11/02 | | 4.42 | -- | 92.01 |
| 6/6/02 | | 5.19 | -- | 91.24 |
| 9/4/02 | 10.32 | 5.72 | -- | 4.60 |
| 12/17/02 | | 3.96 | -- | 6.36 |
| 3/7/03 | | 4.88 | -- | 5.44 |
| 6/5/03 | | 5.05 | -- | 5.27 |
| 9/19/03 | | 5.62 | -- | 4.70 |
| 12/12/03 | | 4.68 | -- | 5.64 |
| 3/15/04 | | 4.52 | -- | 5.80 |
| 6/22/04 | | 6.49 | -- | 3.83 |
| 9/21/04 | | 5.72 | -- | 4.60 |
| MW-4 | | | | |
| 8/16/99 | 96.60 | 6.12 | -- | 90.48 |
| 12/6/99 | | 5.98 | -- | 90.62 |
| 3/8/00 | | 4.32 | -- | 92.28 |
| 6/14/00 | | 5.58 | -- | 91.02 |
| 12/11/00 | | 5.70 | -- | 90.90 |
| 3/6/01 | | 4.46 | -- | 92.14 |
| 6/6/01 | | 5.89 | -- | 90.71 |
| 9/4/01 | | 6.16 | -- | 90.44 |
| 3/11/02 | | 4.67 | -- | 91.93 |
| 6/6/02 | | 5.50 | -- | 91.10 |
| 9/4/02 | 10.50 | 5.97 | -- | 4.53 |
| 12/17/02 | | 4.22 | -- | 6.28 |
| 3/7/03 | | 5.23 | -- | 5.27 |
| 6/5/03 | | 5.38 | -- | 5.12 |
| 9/19/03 | | 5.91 | -- | 4.59 |
| 12/12/03 | | 4.91 | -- | 5.59 |
| 3/15/04 | | 4.94 | -- | 5.56 |
| 6/22/04 | | 5.68 | -- | 4.82 |
| 9/21/04 | | 6.01 | -- | 4.49 |

# TABLE ONE
## Groundwater Elevation Data
### Oakland Truck Stop
### 8255 San Leandro Street, Oakland, CA

| Well I.D & Date Sampled | Top of Casing Elevation (msl) | Depth to Water (feet) | Free-Floating Hydrocarbon Thickness (feet) | Groundwater Elevation (msl) |
|---|---|---|---|---|
| MW-5 | | | | |
| 12/6/99 | 96.30 | 5.94 | -- | 90.36 |
| 3/8/00 | | 4.06 | -- | 92.24 |
| 6/14/00 | | 5.25 | -- | 91.05 |
| 12/11/00 | | 5.45 | -- | 90.85 |
| 3/6/01 | | 4.12 | -- | 92.18 |
| 6/6/01 | | 5.56 | -- | 90.74 |
| 9/4/01 | | 5.84 | -- | 90.46 |
| 3/11/02 | | 4.38 | -- | 91.92 |
| 6/6/02 | | 5.16 | -- | 91.14 |
| 9/4/02 | 10.20 | 5.62 | -- | 4.58 |
| 12/17/02 | | 4.12 | -- | 6.08 |
| 3/7/03 | | 4.89 | -- | 5.31 |
| 6/5/03 | | 5.04 | -- | 5.16 |
| 9/19/03 | | 5.56 | -- | 4.64 |
| 12/12/03 | | 4.72 | -- | 5.48 |
| 3/15/04 | | 4.61 | -- | 5.59 |
| 6/22/04 | | 5.26 | -- | 4.94 |
| **9/21/04** | | **5.68** | **--** | **4.52** |
| MW-6 | | | | |
| 12/6/99 | 96.79 | 5.80 | -- | 90.99 |
| 3/8/00 | | 4.10 | -- | 92.69 |
| 6/14/00 | | 5.64 | -- | 91.15 |
| 12/11/00 | | 5.72 | -- | 91.07 |
| 3/6/01 | | 4.32 | -- | 92.47 |
| 6/6/01 | | 5.81 | -- | 90.98 |
| 9/4/01 | | 6.12 | -- | 90.67 |
| 3/11/02 | | 4.49 | -- | 92.30 |
| 6/6/02 | | 5.33 | -- | 91.46 |
| 9/4/02 | 10.71 | 5.92 | -- | 4.79 |
| 12/17/02 | | 3.85 | -- | 6.86 |
| 3/7/03 | | 4.96 | -- | 5.75 |
| 6/5/03 | | 5.18 | -- | 5.53 |
| 9/19/03 | | 5.81 | -- | 4.90 |
| 12/12/03 | | 4.73 | -- | 5.98 |
| 3/15/04 | | 4.65 | -- | 6.06 |
| 6/22/04 | | 5.34 | -- | 5.37 |
| **9/21/04** | | **5.89** | **--** | **4.82** |
| MW-7 | | | | |
| 9/4/02 | 9.17 | 4.67 | -- | 4.50 |
| 12/17/02 | | 3.11 | -- | 6.06 |
| 3/7/03 | | 3.89 | -- | 5.28 |
| 6/5/03 | | 3.57 | -- | 5.60 |
| 9/19/03 | | 4.57 | -- | 4.60 |
| 12/12/03 | | 3.48 | -- | 5.69 |
| 3/15/04 | | | Truck Parked Over Well | |
| 6/22/04 | | 4.52 | -- | 4.65 |
| 9/21/04 | | 4.56 | -- | 4.61 |

# TABLE ONE
## Groundwater Elevation Data
### Oakland Truck Stop
### 8255 San Leandro Street, Oakland, CA

| Well I.D & Date Sampled | Top of Casing Elevation (msl) | Depth to Water (feet) | Free-Floating Hydrocarbon Thickness (feet) | Groundwater Elevation (msl) |
|---|---|---|---|---|
| MW-8 | | | | |
| 9/4/02 | 9.68 | 4.94 | -- | 4.74 |
| 12/17/02 | | 3.26 | -- | 6.42 |
| 3/7/03 | | 4.01 | -- | 5.67 |
| 6/5/03 | | 4.28 | -- | 5.40 |
| 9/19/03 | | 4.87 | -- | 4.81 |
| 12/12/03 | | 3.77 | -- | 5.91 |
| 3/15/04 | | 3.53 | -- | NA** |
| 6/22/04 | | 4.52 | -- | NA** |
| 9/21/04 | | 4.70 | -- | NA** |
| MW-9 | | | | |
| 9/4/02 | 11.07 | 6.26 | -- | 4.81 |
| 12/17/02 | | 4.23 | -- | 6.84 |
| 3/7/03 | | 5.26 | -- | 5.81 |
| 6/5/03 | | 5.56 | -- | 5.51 |
| 9/19/03 | | 6.25 | -- | 4.82 |
| 12/12/03 | | | Truck Parked Over Well | |
| 3/15/04 | | 5.04 | -- | 6.03 |
| 6/22/04 | | 5.91 | -- | 5.16 |
| 9/21/04 | | 6.24 | -- | 4.83 |

Notes:
Mid Coast Engineers (MCE) surveyed all site monitoring wells on July 11, 2002 to mean sea level (MSL). The updated elevation data is reflected in the table above.

* = Groundwater elevation adjusted for the presence of free-floating hydrocarbons by the equation: Adjusted groundwater elevation = Top of of casing elevation - depth to groundwater + (0.8 x free-floating hydrocarbon thickness)

** = Top of casing elevation has changed and well has not been resurveyed.

*** = Product was bailed by OTS staff prior to measurement by ASE.

NM = Not Measured

# TABLE TWO

## Summary of Chemical Analysis of GROUNDWATER Samples

### Petroleum Hydrocarbons

### All results are in parts per billion

| Well ID / DATE | TPH Gasoline | TPH Diesel | TPH Motor Oil | Benzene | Toluene | Ethyl Benzene | Total Xylenes | MTBE | DIPE | ETBE | TAME | TBA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | | | | | | | | | | | | |
| 8/16/99 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 12/6/99 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 3/8/00 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 6/14/00 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 12/11/00 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 3/6/01 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 6/6/01 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 9/4/01 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 3/11/02 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 6/6/02 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 9/4/02 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 12/17/02 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 3/7/03 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 6/5/03 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 9/19/03 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 12/12/03 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 12/12/03 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 3/15/04 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 6/22/04 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| 9/21/04 | | | | | Not Sampled Due to Free-Floating Hydrocarbons | | | | | | | |
| MW-2 | | | | | | | | | | | | |
| 8/16/99 | 2,200 | 970* | <500 | 38 | <2.0 | 3 | <4.0 | <20 | NA | NA | NA | NA |
| 12/6/99 | 1,900 | 400* | <500 | 16 | <0.5 | 1.5 | <0.5 | 5.2 | NA | NA | NA | NA |
| 3/8/00 | 1,600* | 530* | <500 | 9.7 | <0.5 | 2.7 | <0.5 | 27 | NA | NA | NA | NA |
| 6/14/00 | 2,000 | 75 | <100 | 2.8 | <0.5 | 3.4 | <0.5 | 16 | 3.4 | <0.5 | <0.5 | 64 |
| 12/11/00 | 1,000 | 120 | <100 | 2.6 | <0.5 | <0.5 | <0.5 | 15 | 2.9 | <0.5 | <0.5 | 62 |
| 3/6/01 | 1,500 | 1,400 | NA | 2.2 | <0.5 | 1.7 | <0.5 | 22 | 3.4 | <0.5 | <0.5 | 83 |
| 6/6/01 | 1,700 | 190 | NA | 2.6 | <0.5 | 2.3 | <0.5 | 26 | 3.2 | <0.5 | <0.5 | 83 |
| 9/4/01 | 2,000 | 450 | NA | 2.7 | <0.5 | 2.1 | <0.5 | 33 | 3.4 | <0.5 | <0.5 | 93 |
| 3/11/02 | 1,100 | 410 | NA | 1.0 | <0.5 | 0.5 | <0.5 | 26 | 2.5 | <0.5 | <0.5 | 69 |
| 6/6/02 | 900 | 430 | NA | 1.2 | <0.5 | <0.5 | <0.5 | 23 | 2.8 | <0.5 | <0.5 | 73 |
| 9/4/02 | 910 | 510 | NA | 1.6 | <0.5 | <0.5 | <0.5 | 45 | 2.5 | <0.5 | <0.5 | 67 |
| 12/17/02 | 190 | 220 | NA | 0.65 | <0.5 | <0.5 | <0.5 | 34 | 1.5 | <0.5 | <0.5 | 46 |
| 3/7/03 | 380 | 300 | NA | 0.81 | <0.5 | <0.5 | <0.5 | 50 | 1.9 | <0.5 | <0.5 | 73 |
| 6/5/03 | 2,200 | 2,200 | NA | 1.7 | <0.5 | 1.5 | <0.5 | 180 | 4.9 | <0.5 | 1.3 | 110 |
| 9/19/03 | 2,300 | 520 | NA | 2.0 | <0.5 | 2.1 | <0.5 | 180 | 3.7 | <0.5 | 1.1 | 120 |
| 12/12/03 | 3,000 | 2,200 | NA | 2.1 | <0.5 | 1.7 | <0.5 | 250 | 4.5 | <0.5 | 1.6 | 130 |
| 3/15/04 | | | | | Not Sampled - Truck Parked Over Well | | | | | | | |
| 6/22/04 | 1,600 | 420 | NA | 1.3 | <0.5 | 1.0 | <0.5 | 580 | 4.6 | <0.5 | 3.9 | 340 |
| 9/21/04 | 2,500 | <400 | NA | 1.2 | <0.5 | 1.5 | <0.5 | 730 | 5.9 | <0.5 | 4.9 | 550 |
| MW-3 | | | | | | | | | | | | |
| 8/16/99 | 56,000 | 10,000** | <500 | 17,000 | 2,600 | 2,600 | 1,200 | 6,100 | NA | NA | NA | NA |
| 12/6/99 | 40,000 | 9,100* | <500 | 16,000 | 140 | 1,800 | 100 | 2,200/4,000# | NA | NA | NA | NA |
| 3/8/00 | 22,000 | 4,500* | <500 | 11,000 | 72 | 1,100 | 130 | 3,400 | NA | NA | NA | NA |
| 6/14/00 | 34,000 | 16,000 | <100 | 13,000 | 94 | 1,300 | 160 | 4,800 | 31 | <10 | 21 | 2,700 |
| 12/11/00 | 24,000 | 14,000 | <100 | 13,000 | 88 | 780 | 120 | 4,300 | <50 | <50 | <50 | 2,300 |
| 3/6/01 | 34,000 | 12,000 | NA | 15,000 | 100 | 1,100 | 130 | 4,000 | <50 | <50 | <50 | 2,100 |
| 6/6/01 | 34,000 | 20,000 | NA | 14,000 | 94 | 550 | 110 | 4,400 | <50 | <50 | <50 | 2,300 |
| 9/4/01 | 29,000 | 19,000 | NA | 13,000 | 83 | 480 | 83 | 4,100 | <50 | <50 | <50 | 3,400 |
| 3/11/02 | 12,000 | 14,000 | NA | 2,900 | <20 | 110 | <20 | 530 | <20 | <20 | <20 | 330 |
| 6/6/02 | 20,000 | 14,000 | NA | 10,000 | <50 | 200 | 51 | 2,400 | <50 | <50 | <50 | 1,200 |
| 9/4/02 | 24,000 | 17,000 | NA | 11,000 | <50 | 140 | <50 | 3,200 | <50 | <50 | <50 | 1,400 |
| 12/17/02 | 4,900 | 17,000 | NA | 2,000 | <10 | 52 | 12 | 360 | <10 | <10 | <10 | 220 |
| 3/7/03 | 8,700 | 16,000 | NA | 2,300 | <10 | 43 | 11 | 770 | <10 | <10 | <10 | 360 |
| 6/5/03 | 27,000 | 14,000 | NA | 10,000 | 53 | 220 | 53 | 5,000 | <50 | <50 | <50 | 1,600 |
| 9/19/03 | 120,000 | 13,000 | NA | 20,000 | 170 | 710 | 250 | 6,100 | <25 | <25 | <25 | 2,600 |
| 12/12/03 | 29,000 | 27,000 | NA | 12,000 | 74 | 240 | 79 | 5,600 | 17 | <10 | 30 | 2,100 |
| 3/15/04 | 28,000 | 21,000 | NA | 11,000 | 72 | 220 | 64 | 8,200 | <50 | <50 | <50 | 2,900 |
| 6/22/04 | 29,000 | 7,600 | NA | 11,000 | 71 | 220 | 54 | 8,400 | <50 | <50 | <50 | 3,000 |
| 9/21/04 | 33,000 | <5,000 | NA | 12,000 | 67 | 190 | 56 | 8,200 | <25 | <25 | 47 | 3,200 |

# TABLE TWO

## Summary of Chemical Analysis of GROUNDWATER Samples

## Petroleum Hydrocarbons

## All results are in parts per billion

| Well ID / DATE | TPH Gasoline | TPH Diesel | TPH Motor Oil | Benzene | Toluene | Ethyl Benzene | Total Xylenes | MTBE | DIPE | ETBE | TAME | TBA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | | | | | | | | | | | | |
| 8/16/99 | 61*** | 1,100* | < 500 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | 86 | NA | NA | NA | NA |
| 12/6/99 | 130*** | 220* | < 500 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 130 | NA | NA | NA | NA |
| 3/8/00 | < 50 | 220* | < 500 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 130 | NA | NA | NA | NA |
| 6/14/00 | < 50 | < 50 | < 100 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 100 | < 0.5 | < 0.5 | < 0.5 | 20 |
| 12/11/00 | < 50 | < 50 | < 100 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.5 | 16 |
| 3/6/01 | < 50 | 670 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.5 | 9.9 |
| 6/6/01 | < 50 | 790 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.5 | 20 |
| 9/4/01 | < 50 | 950 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.5 | 26 |
| 3/11/02 | < 50 | 250 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 84 | < 0.5 | < 0.5 | < 0.5 | 21 |
| 6/6/02 | < 50 | 710 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 92 | < 0.5 | < 0.5 | < 0.5 | 21 |
| 9/4/02 | < 50 | 1,100 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 150 | < 0.5 | < 0.5 | < 0.5 | 18 |
| 12/17/02 | < 50 | 470 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 120 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 3/7/03 | < 50 | 470 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 120 | < 0.5 | < 0.5 | 0.52 | 18 |
| 6/5/03 | < 50 | 2,000 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | 0.50 | 23 |
| 9/19/03 | < 50 | 830 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.80 | 23 |
| 12/12/03 | < 50 | 1,700 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 120 | < 0.5 | < 0.5 | < 0.5 | 16 |
| 3/15/04 | < 50 | 2,200 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | < 0.5 | < 0.5 | < 0.5 | 20 |
| 9/21/04 | < 50 | 620 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 93 | < 0.5 | < 0.5 | < 0.5 | 31 |
| MW-5 | | | | | | | | | | | | |
| 12/6/99 | 450*** | 2,000* | < 500 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 21 | NA | NA | NA | NA |
| 3/8/00 | 51*** | 530* | < 500 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 84 | NA | NA | NA | NA |
| 6/14/00 | 380 | 1,400 | < 100 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 160 | 12 | < 0.5 | < 0.5 | 22 |
| 12/11/00 | 540 | 590 | < 100 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 240 | 9.5 | < 0.5 | < 0.5 | 32 |
| 3/6/01 | 510 | 2,900 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 140 | 13 | < 0.5 | < 0.5 | 19 |
| 6/6/01 | 280 | 2,700 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 180 | 13 | < 0.5 | < 0.5 | 26 |
| 9/4/01 | 630 | 2,600 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 180 | 9.4 | < 0.5 | < 0.5 | 29 |
| 3/11/02 | 97 | 3,500 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 29 | 0.79 | < 0.5 | < 0.5 | 7.4 |
| 6/6/02 | 61 | 3,500 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 150 | 2.9 | < 0.5 | < 0.5 | 34 |
| 9/4/02 | 92 | 6,100 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 370 | 3.6 | < 0.5 | < 0.5 | 72 |
| 12/17/02 | 110 | 2,100 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 110 | 4.2 | < 0.5 | < 0.5 | 14 |
| 3/7/03 | 71 | 1,600 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 150 | 2.2 | < 0.5 | < 0.5 | 35 |
| 6/5/03 | 95 | 3,300 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 170 | 4.6 | < 0.5 | < 0.5 | 43 |
| 9/19/03 | 100 | 1,400 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 310 | 5.2 | < 0.5 | 0.68 | 86 |
| 12/12/03 | < 50 | 7,600 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 270 | 5.9 | < 0.5 | 0.70 | 91 |
| 3/15/04 | 95 | 1,700 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 290 | 6.7 | < 0.5 | 0.92 | 200 |
| 9/21/04 | 78 | 390 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 270 | 4.7 | < 0.5 | 0.96 | 880 |
| MW-6 | | | | | | | | | | | | |
| 12/6/99 | 13,000 | < 50 | < 500 | 180 | 21 | 11 | 24 | < 100 | NA | NA | NA | NA |
| 3/8/00 | < 10,000 | 4,600* | < 500 | 230 | 26 | 18 | 39 | 12,000 | NA | NA | NA | NA |
| 6/14/00 | 8,400 | 12,000 | < 100 | 190 | 12 | 9.5 | 22 | 15,000 | < 5.0 | < 5.0 | 70 | 3,300 |
| 12/11/00 | < 5,000 | 10,000 | < 100 | 190 | < 50 | < 50 | < 50 | 14,000 | < 50 | < 50 | 74 | 2,900 |
| 3/6/01 | 5,300 | 6,700 | NA | 220 | < 50 | < 50 | < 50 | 13,000 | < 50 | < 50 | 84 | 2,100 |
| 6/6/01 | 5,000 | 23,000 | NA | 210 | < 25 | < 25 | < 25 | 12,000 | < 25 | < 25 | 84 | 4,200 |
| 9/4/01 | 5,400 | 22,000 | NA | 190 | 12 | < 10 | 23 | 15,000 | < 10 | < 10 | 79 | 4,000 |
| 3/11/02 | 4,600 | 11,000 | NA | 160 | < 25 | < 25 | < 25 | 15,000 | < 25 | < 25 | 39 | 5,100 |
| 6/6/02 | < 5,000 | 14,000 | NA | 200 | < 50 | < 50 | < 50 | 17,000 | < 50 | < 50 | 77 | 8,700 |
| 9/4/02 | < 5,000 | 50,000 | NA | 140 | < 50 | < 50 | < 50 | 21,000 | < 50 | < 50 | 52 | 7,500 |
| 12/17/02 | < 5,000 | 9,100 | NA | 130 | < 50 | < 50 | < 50 | 16,000 | < 50 | < 50 | 64 | 6,300 |
| 3/7/03 | < 5,000 | 12,000 | NA | 160 | < 50 | < 50 | < 50 | 20,000 | < 50 | < 50 | 53 | 7,500 |
| 6/5/03 | < 5,000 | 23,000 | NA | 230 | < 50 | < 50 | < 50 | 19,000 | < 50 | < 50 | 86 | 7,100 |
| 9/19/03 | 8,900 | 24,000 | NA | 220 | < 25 | < 25 | < 25 | 15,000 | < 25 | < 25 | 74 | 8,100 |
| 12/12/03 | 8,000 | 24,000 | NA | 190 | < 25 | < 25 | 32 | 14,000 | < 25 | < 25 | 65 | 7,400 |
| 3/15/04 | 4,400 | 26,000 | NA | 190 | < 25 | < 25 | < 25 | 9,900 | < 25 | < 25 | 61 | 6,700 |
| 6/22/04 | 3,500 | 7,000 | NA | 150 | < 20 | < 20 | < 20 | 9,200 | < 20 | < 20 | 51 | 6,100 |
| 9/21/04 | 4,600 | 12,000 | NA | 210 | < 20 | < 20 | < 20 | 8,800 | < 20 | < 20 | 55 | 7,000 |

# TABLE TWO

## Summary of Chemical Analysis of GROUNDWATER Samples

## Petroleum Hydrocarbons

## All results are in parts per billion

| Well ID / DATE | TPH Gasoline | TPH Diesel | TPH Motor Oil | Benzene | Toluene | Ethyl Benzene | Total Xylenes | MTBE | DIPE | ETBE | TAME | TBA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | | | | | | | | | | | | |
| 9/4/02 | < 50 | 130**** | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 3.4 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/17/02 | < 50 | 220 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.8 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 3/7/03 | < 50 | 140 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 1.8 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 6/5/03 | < 50 | 200 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 9/19/03 | < 50 | 320 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5.0 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/12/03 | < 50 | 380 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.3 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 3/15/04 | Not Sampled - Truck Parked Over Well | | | | | | | | | | | |
| 9/21/04 | < 50 | 79 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.6 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| MW-8 | | | | | | | | | | | | |
| 9/4/02 | < 50 | 170 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/17/02 | < 50 | 100 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 3/7/03 | < 50 | 62 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 33 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 6/5/03 | < 50 | 270 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 13 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 9/19/03 | < 50 | 250 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 11 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/12/03 | < 50 | 420 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 11 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 3/15/04 | < 50 | 250 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 6.4 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 9/21/04 | < 50 | < 50 | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 11 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| MW-9 | | | | | | | | | | | | |
| 9/4/02 | < 2,500 | 1,000 | NA | < 25 | < 25 | < 25 | < 25 | 12,000 | < 25 | < 25 | 70 | 1,700 |
| 12/17/02 | < 2,000 | 880 | NA | < 20 | < 20 | < 20 | < 20 | 4,500 | < 20 | < 20 | 23 | 2,300 |
| 3/7/03 | < 500 | 450 | NA | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 1,700 | < 5.0 | < 5.0 | 8.4 | 6,600 |
| 6/5/03 | < 500 | 4,500 | NA | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 120 | < 5.0 | < 5.0 | < 5.0 | 17,000 |
| 9/19/03 | < 1,000 | 4,500 | NA | < 10 | < 10 | < 10 | < 10 | 38 | < 10 | < 10 | < 10 | 15,000 |
| 12/12/03 | Not Sampled - Truck Parked Over Well | | | | | | | | | | | |
| 3/15/04 | < 1,000 | 82 | NA | < 10 | < 10 | < 10 | < 10 | 38 | < 10 | < 10 | < 10 | 18,000 |
| 9/21/04 | < 1,000 | 2,600 | NA | < 10 | < 10 | < 10 | < 10 | 17 | < 10 | < 10 | < 10 | 16,000 |
| DHS MCL | NE | NE | NE | 1 | 150 | 700 | 1,750 | 13 | NE | NE | NE | NE |
| ESL | 400 | 500 | 500 | 46 | 130 | 290 | 1 | 1,800 | NE | NE | NE | NE |

Notes

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Most recent concentrations are in bold.

DHS MCL is the California Department of Health Services maximum contaminant level for drinking water

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contammated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

NE = MCL/ESL not established.

NA = Sample not analyzed for this compound

* = Non-typical diesel pattern, hydrocarbons in early diesel range

** = Estimated concentration due to overlapping fuel patterns in the sample.

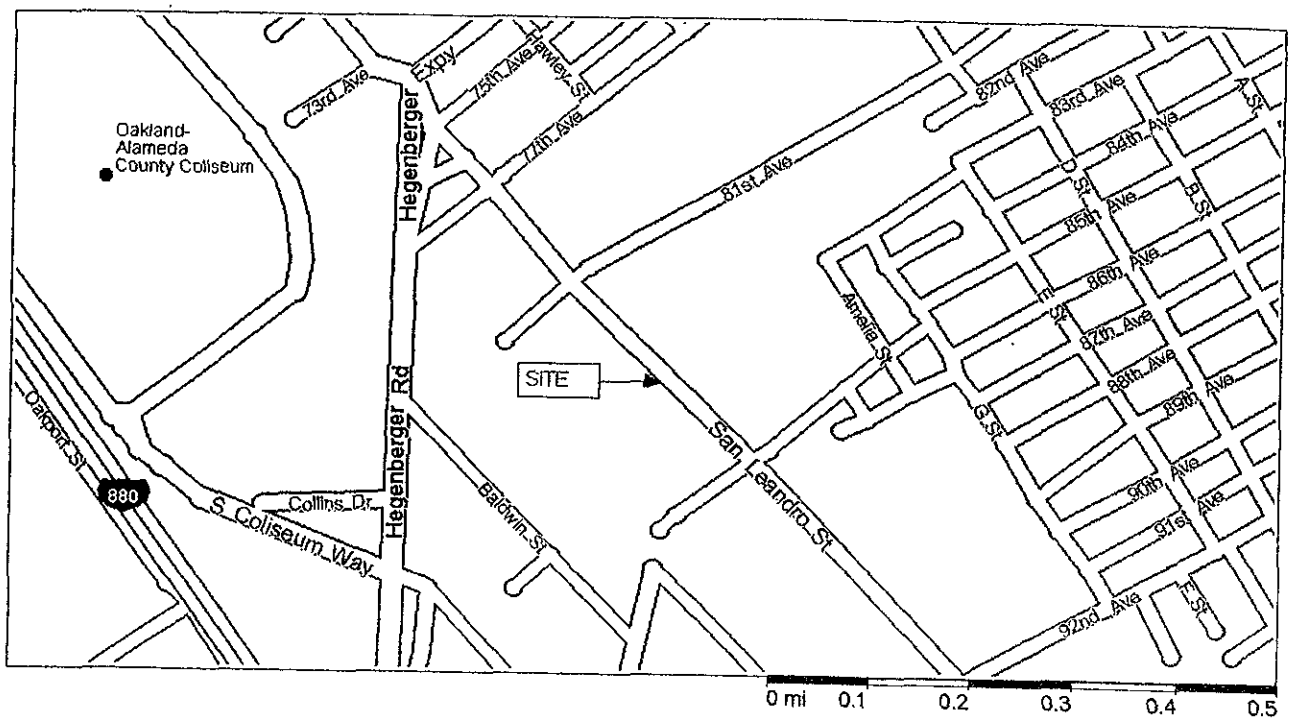
*** = Non-typical gasoline pattern

**** = Non-typical diesel pattern

# = MTBE concentration by EPA Method 8260

# FIGURES

NORTH

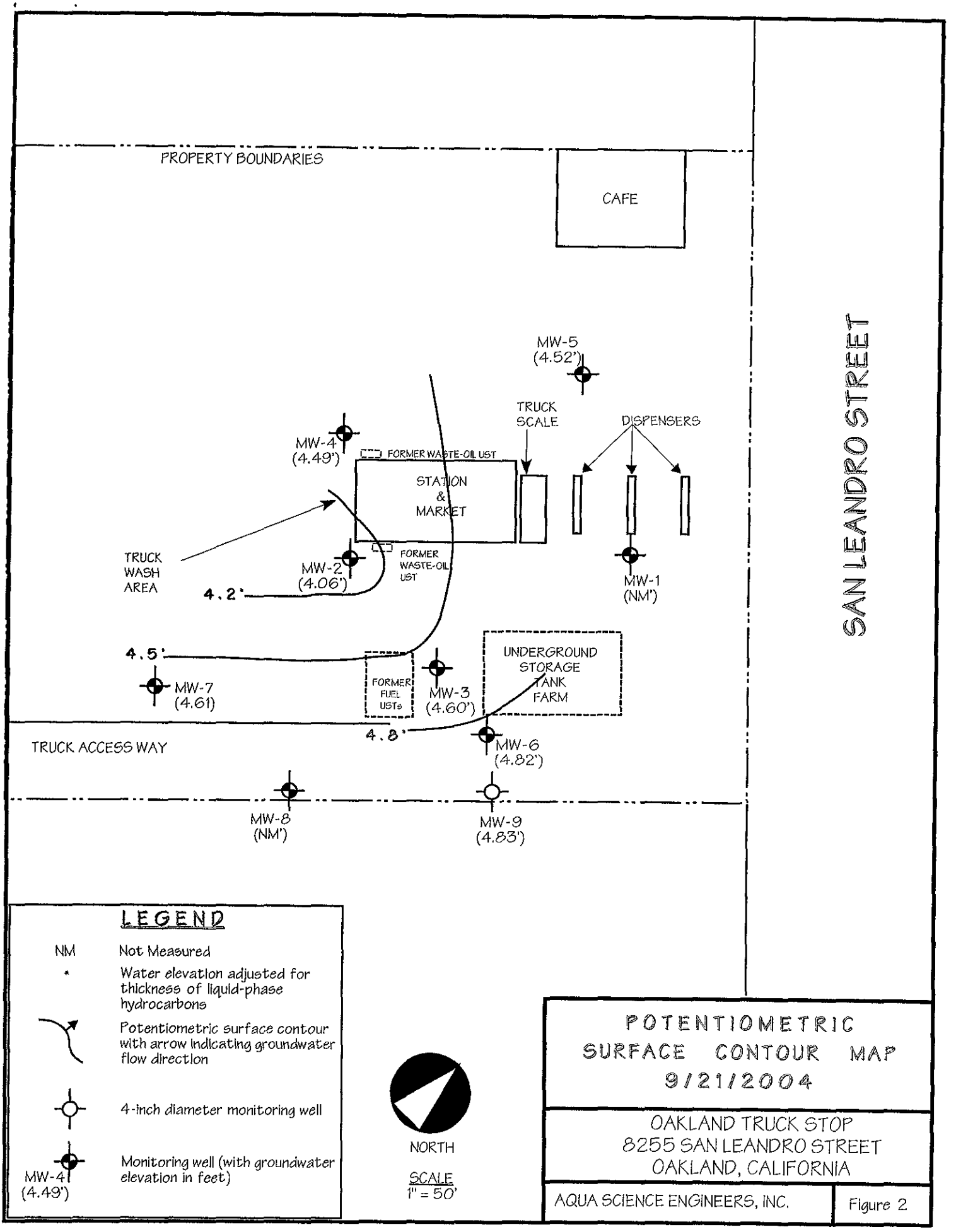





# LOCATION MAP

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | Figure 1




# POTENTIOMETRIC SURFACE CONTOUR MAP
## 9/21/2004

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | Figure 2

# APPENDIX A

Well Sampling Field Logs

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# WELL SAMPLING FIELD LOG

Project Name and Address: OTS
Job #: 3540
Well Name: MW-2
Date of sampling: 9/21/04
Sampled by: DH
Total depth of well (feet): 11.6
Well diameter (inches): 2
Depth to water before sampling (feet): 8.64
Thickness of floating product if any: —
Depth of well casing in water (feet): 2.96
Number of gallons per well casing volume (gallons): 1.1
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 3.4
Equipment used to purge the well: BAILER
Time Evacuation Began: 10:00 Time Evacuation Finished: 10:25
Approximate volume of groundwater purged: 3.4
Did the well go dry?: NO After how many gallons: —
Time samples were collected: 10:30
Depth to water at time of sampling: 8.56
Percent recovery at time of sampling:
Samples collected with: BAILER
Sample color: — Odor: —
Description of sediment in sample: —

## CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 0 | 68.6 | 6.69 | 2413 |
| 1.1 | 68.8 | 6.60 | 2335 |
| 2.2 | 67.4 | 6.59 | 2334 |
| 3.4 | 67.2 | 6.58 | 2337 |
| | | | |

## SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-2 | 6 | 40 mL VOA | HCl | Y | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: 015
Job #: 3540
Well Name: MW-3
Date of sampling: 7/21/04
Sampled by: DH
Total depth of well (feet): 15
Well diameter (inches):
Depth to water before sampling (feet): 6.72
Thickness of floating product if any:
Depth of well casing in water (feet): 9.28
Number of gallons per well casing volume (gallons): 1.5
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 11.5
Equipment used to purge the well: BAILER
Time Evacuation Began: 1340
Time Evacuation Finished: 1410
Approximate volume of groundwater purged:
Did the well go dry?: N
After how many gallons: 4.1
Time samples were collected: 1415
Depth to water at time of sampling: 12.15
Percent recovery at time of sampling:
Samples collected with: BAILER
Sample color: —
Odor: HC
Description of sediment in sample:

CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| C | 68.7 | 6.20 | 1778 |
| 1.4 | 67.5 | 6.53 | 1820 |
| 2.8 | 67.1 | 6.31 | 1831 |
| 4.1 | 66.8 | 6.32 | 1830 |
| | | | |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: 615
Job #: 3540
Well Name: MW-4
Date of sampling: 9/27/07
Sampled by: DH
Total depth of well (feet): 14
Well diameter (inches): 2
Depth to water before sampling (feet): 6.01
Thickness of floating product if any: -
Depth of well casing in water (feet): 7.99
Number of gallons per well casing volume (gallons): 1.3
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 3.9
Equipment used to purge the well: BAILER
Time Evacuation Began: 1132
Time Evacuation Finished: 1150
Approximate volume of groundwater purged: 3 g
Did the well go dry?: NO
After how many gallons: —
Time samples were collected: 1205
Depth to water at time of sampling: 10.10
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: —
Odor: —
Description of sediment in sample: —

CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 1.3 | 70.1 | 6.45 | 1599 |
| 2.6 | 67.9 | 6.61 | 1608 |
| 3.9 | 67.2 | 6.64 | 1453 |
| | | | 1435 |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-4 | 5 | 40 mL VOA | HCl | ✓ | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: 615
Job #: 3540
Well Name: MW-5
Date of sampling: 5/2/01
Sampled by: DH
Total depth of well (feet): 14
Well diameter (inches): 2
Depth to water before sampling (feet): 5.68
Thickness of floating product if any: —
Depth of well casing in water (feet): 8.32
Number of gallons per well casing volume (gallons): 1.3
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 4
Equipment used to purge the well: BAILER
Time Evacuation Began: 10:45
Time Evacuation Finished: 11:05
Approximate volume of groundwater purged: 4
Did the well go dry?: _____
After how many gallons: _____
Time samples were collected: 1110
Depth to water at time of sampling: _____
Percent recovery at time of sampling: 11.25
Samples collected with: BAILER
Sample color: _____
Odor: —
Description of sediment in sample: —

## CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 0 | 68.7 | 7.01 | 1025 |
| 1.3 | 67.3 | 7.07 | 1231 |
| 2.6 | 66.9 | 7.12 | 1228 |
| 4.0 | 66.7 | 7.14 | 1228 |
| | | | |

## SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-5 | 5 | 40 ml VOA | ~~Hcl~~ | Y | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: OTS
Job #: 3540
Well Name: MW-6
Date of sampling: 9/21/04
Sampled by: DH
Total depth of well (feet): 14.38
Well diameter (inches): 2
Depth to water before sampling (feet): 5.87
Thickness of floating product if any:
Depth of well casing in water (feet): 8.51
Number of gallons per well casing volume (gallons): 1.4
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 4.0
Equipment used to purge the well: BAILER
Time Evacuation Began: 1435 Time Evacuation Finished: 1545
Approximate volume of groundwater purged: 4.0
Did the well go dry?: no After how many gallons:
Time samples were collected: 1525
Depth to water at time of sampling: 11.10
Percent recovery at time of sampling:
Samples collected with: BAILER
Sample color: — Odor: NC
Description of sediment in sample:

CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 0 | 69.8 | 6.28 | 1028 |
| 1.4 | 67.3 | 6.30 | ~~947~~ 930 |
| 2.8 | 66.9 | 6.46 | 820 |
| 4.0 | 66.7 | 6.76 | 820 |
| | | 6.49 | |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-6 | 5 | 40 ml VOA | HCl | Y | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: OTS
Job #: 3540
Well Name: MW-7
Date of sampling: 9/21/24
Sampled by: DH
Total depth of well (feet): 16.2
Well diameter (inches): 2
Depth to water before sampling (feet): 4.56
Thickness of floating product if any: —
Depth of well casing in water (feet): 11.64
Number of gallons per well casing volume (gallons): 1.9
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 5.6
Equipment used to purge the well:
Time Evacuation Began: 1210
Time Evacuation Finished: 1230
Approximate volume of groundwater purged: 5.6
Did the well go dry?: No
After how many gallons: —
Time samples were collected: 1235
Depth to water at time of sampling: 6.25
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: —
Odor: —
Description of sediment in sample: —

CHEMICAL DATA

| Volume Purged | Temp. | pH | Conductivity |
|---|---|---|---|
| 0 | 68.1 | 6.51 | ~~1265~~ 1265 |
| 1.9 | 67.96 | 6.55 | 1310 |
| 3.8 | 66.6 | 6.61 | 1312 |
| 5.62 | 66.1 | 6.63 | 1312 |
| | | | |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-7 | 5 | 40 mL VOA | HCl | Y | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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# WELL SAMPLING FIELD LOG

Project Name and Address: UCS
Job #: 3540
Well Name: MW-8
Date of sampling: 9/21/01
Sampled by: DH
Total depth of well (feet): 15
Well diameter (inches): —
Depth to water before sampling (feet): 4.70
Thickness of floating product if any: —
Depth of well casing in water (feet): 10.3
Number of gallons per well casing volume (gallons): 1.6
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 5.0
Equipment used to purge the well: BAILER
Time Evacuation Began: 1300
Time Evacuation Finished: 1325
Approximate volume of groundwater purged: 5.0
Did the well go dry?: NO
After how many gallons: —
Time samples were collected: 1330
Depth to water at time of sampling: 6.35
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: —
Odor: —
Description of sediment in sample: —

CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 0 | 67.8 | 6.10 | 1136 |
| 1.6 | 67.1 | 6.34 | 1204 |
| 3.4 | 66.6 | 6.42 | 1205 |
| 5.0 | 66.1 | 6.42 | 1205 |
| | | | |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| MW-8 | 5 | 40 ML VOA | HCL | Y | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

aqua science engineers inc.

# WELL SAMPLING FIELD LOG

Project Name and Address: OTS
Job #: 3560
Well Name: MW-9
Date of sampling: 9/21/04
Sampled by: DH
Total depth of well (feet): 19.9
Well diameter (inches): 4
Depth to water before sampling (feet): 6.24
Thickness of floating product if any: —
Depth of well casing in water (feet): 13.66
Number of gallons per well casing volume (gallons): 8.2
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 24.5
Equipment used to purge the well: SUBPUMP
Time Evacuation Began: 1545
Time Evacuation Finished: 1630
Approximate volume of groundwater purged: 25.0
Did the well go dry?: NO
After how many gallons: —
Time samples were collected: 1635
Depth to water at time of sampling: 6.89
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: —
Odor: —
Description of sediment in sample: —

CHEMICAL DATA

| Volume Purged | Temp | pH | Conductivity |
|---|---|---|---|
| 0 | 66.1 | 7.01 | 1210 |
| 8 | 67.3 | 7.10 | 1298 |
| 16 | 66.9 | 7.12 | 1341 |
| 24.5 | 668 | 7.12 | 1301 |
| | | | |

SAMPLES COLLECTED

| Sample | # of containers | Volume & type container | Pres | Iced? | Analysis |
|---|---|---|---|---|---|
| | | | HCL | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Damian Hriciga
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 8 Water Samples
Project Name : OAKLAND TRUCK STOP
Project Number : 3540

Dear Mr. Hriciga,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Subject : 8 Water Samples
Project Name : OAKLAND TRUCK STOP
Project Number : 3540

# Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-2 and MW-3.

The Method Reporting Limit for Methanol has been increased due to the presence of an interfering compound for sample MW-4.

Approved By:

Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-2** Matrix : Water Lab Number : 40261-01
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **1.2** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Ethylbenzene** | **1.5** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Methyl-t-butyl ether (MTBE)** | **730** | 1.5 | ug/L | EPA 8260B | 09/25/2004 |
| **Diisopropyl ether (DIPE)** | **5.9** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Tert-amyl methyl ether (TAME)** | **4.9** | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| **Tert-Butanol** | **550** | 5.0 | ug/L | EPA 8260B | 09/24/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 09/24/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/24/2004 |
| **TPH as Gasoline** | **2500** | 50 | ug/L | EPA 8260B | 09/24/2004 |
| Toluene - d8 (Surr) | 91.3 | | % Recovery | EPA 8260B | 09/24/2004 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 09/24/2004 |
| **TPH as Diesel** | **< 400** | 400 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 87.6 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-3** Matrix : Water Lab Number : 40261-02
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **12000** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Toluene** | **67** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethylbenzene** | **190** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Total Xylenes** | **56** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Methyl-t-butyl ether (MTBE)** | **8200** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Diisopropyl ether (DIPE)** | **< 25** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 25** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-amyl methyl ether (TAME)** | **47** | 25 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-Butanol** | **3200** | 250 | ug/L | EPA 8260B | 09/25/2004 |
| **Methanol** | **< 2500** | 2500 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethanol** | **< 250** | 250 | ug/L | EPA 8260B | 09/25/2004 |
| **TPH as Gasoline** | **33000** | 2500 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 91.6 | | % Recovery | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 09/25/2004 |
| **TPH as Diesel** | **< 5000** | 5000 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 103 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-4** Matrix : Water Lab Number : 40261-03
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Methyl-t-butyl ether (MTBE)** | **93** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-Butanol** | **31** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **Methanol** | **< 100** | 100 | ug/L | EPA 8260B | 09/27/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 98.3 | | % Recovery | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 99.0 | | % Recovery | EPA 8260B | 09/25/2004 |
| **TPH as Diesel** | **620** | 50 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 103 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-5** Matrix : Water Lab Number : 40261-04
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Methyl-t-butyl ether (MTBE)** | **270** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Diisopropyl ether (DIPE)** | **4.7** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-amyl methyl ether (TAME)** | **0.96** | 0.50 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-Butanol** | **880** | 5.0 | ug/L | EPA 8260B | 09/26/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/26/2004 |
| **TPH as Gasoline** | **78** | 50 | ug/L | EPA 8260B | 09/26/2004 |
| Toluene - d8 (Surr) | 91.1 | | % Recovery | EPA 8260B | 09/26/2004 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 09/26/2004 |
| **TPH as Diesel** | **990** | 50 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 104 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-6** Matrix : Water Lab Number : 40261-05
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **210** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Toluene** | **< 20** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethylbenzene** | **< 20** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Total Xylenes** | **< 20** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Methyl-t-butyl ether (MTBE)** | **8800** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Diisopropyl ether (DIPE)** | **< 20** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 20** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-amyl methyl ether (TAME)** | **55** | 20 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-Butanol** | **7000** | 200 | ug/L | EPA 8260B | 09/26/2004 |
| **Methanol** | **< 2000** | 2000 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethanol** | **< 200** | 200 | ug/L | EPA 8260B | 09/26/2004 |
| **TPH as Gasoline** | **4600** | 2000 | ug/L | EPA 8260B | 09/26/2004 |
| Toluene - d8 (Surr) | 97.4 | | % Recovery | EPA 8260B | 09/26/2004 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 09/26/2004 |
| **TPH as Diesel** | **12000** | 50 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 109 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-7** Matrix : Water Lab Number : 40261-06
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Methyl-t-butyl ether (MTBE)** | **2.6** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 97.6 | | % Recovery | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 09/25/2004 |
| **TPH as Diesel** | **79** | 50 | ug/L | M EPA 8015 | 09/25/2004 |
| Octacosane (Diesel Surrogate) | 103 | | % Recovery | M EPA 8015 | 09/25/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-8** Matrix : Water Lab Number : 40261-07
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Methyl-t-butyl ether (MTBE)** | **11** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 09/25/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 99.6 | | % Recovery | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 99.0 | | % Recovery | EPA 8260B | 09/25/2004 |
| **TPH as Diesel** | **< 50** | 50 | ug/L | M EPA 8015 | 09/27/2004 |
| Octacosane (Diesel Surrogate) | 92.2 | | % Recovery | M EPA 8015 | 09/27/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 40261
Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**
Project Number : **3540**

Sample : **MW-9** Matrix : Water Lab Number : 40261-08
Sample Date :09/21/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Toluene** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethylbenzene** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Total Xylenes** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Methyl-t-butyl ether (MTBE)** | **17** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Diisopropyl ether (DIPE)** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 10** | 10 | ug/L | EPA 8260B | 09/26/2004 |
| **Tert-Butanol** | **16000** | 100 | ug/L | EPA 8260B | 09/26/2004 |
| **Methanol** | **< 1000** | 1000 | ug/L | EPA 8260B | 09/26/2004 |
| **Ethanol** | **< 100** | 100 | ug/L | EPA 8260B | 09/26/2004 |
| **TPH as Gasoline** | **< 1000** | 1000 | ug/L | EPA 8260B | 09/26/2004 |
| Toluene - d8 (Surr) | 97.1 | | % Recovery | EPA 8260B | 09/26/2004 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 09/26/2004 |
| **TPH as Diesel** | **2600** | 50 | ug/L | M EPA 8015 | 09/24/2004 |
| Octacosane (Diesel Surrogate) | 103 | | % Recovery | M EPA 8015 | 09/24/2004 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 40261

Date : 09/28/2004

**QC Report : Method Blank Data**

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| TPH as Diesel | < 50 | 50 | ug/L | M EPA 8015 | 09/24/2004 |
| Octacosane (Diesel Surrogate) | 113 | | % | M EPA 8015 | 09/24/2004 |
| TPH as Diesel | < 50 | 50 | ug/L | M EPA 8015 | 09/27/2004 |
| Octacosane (Diesel Surrogate) | 92.0 | | % | M EPA 8015 | 09/27/2004 |
| Benzene | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/24/2004 |
| Toluene | < 0 50 | 0 50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethylbenzene | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/24/2004 |
| Tert-amyl methyl ether (TAME) | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Tert-Butanol | < 5 0 | 5.0 | ug/L | EPA 8260B | 09/24/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethanol | < 5 0 | 5.0 | ug/L | EPA 8260B | 09/24/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 09/24/2004 |
| Toluene - d8 (Surr) | 102 | | % | EPA 8260B | 09/24/2004 |
| 4-Bromofluorobenzene (Surr) | 100 | | % | EPA 8260B | 09/24/2004 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethylbenzene | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0 50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Tert-amyl methyl ether (TAME) | < 0 50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethanol | < 5 0 | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 102 | | % | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 97.9 | | % | EPA 8260B | 09/25/2004 |
| Benzene | < 0 50 | 0 50 | ug/L | EPA 8260B | 09/27/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Total Xylenes | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Methyl-t-butyl ether (MTBE) | < 0 50 | 0 50 | ug/L | EPA 8260B | 09/27/2004 |
| Diisopropyl ether (DIPE) | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/27/2004 |
| Tert-Butanol | < 5 0 | 5.0 | ug/L | EPA 8260B | 09/27/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 09/27/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 09/27/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 09/27/2004 |
| Toluene - d8 (Surr) | 94.3 | | % | EPA 8260B | 09/27/2004 |
| 4-Bromofluorobenzene (Surr) | 102 | | % | EPA 8260B | 09/27/2004 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 40261

Date : 09/28/2004

**QC Report : Method Blank Data**

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethylbenzene | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/24/2004 |
| Total Xylenes | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/24/2004 |
| Tert-Butanol | < 5 0 | 5 0 | ug/L | EPA 8260B | 09/24/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 09/24/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 09/24/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 09/24/2004 |
| Toluene - d8 (Surr) | 99 4 | | % | EPA 8260B | 09/24/2004 |
| 4-Bromofluorobenzene (Surr) | 95.8 | | % | EPA 8260B | 09/24/2004 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0 50 | ug/L | EPA 8260B | 09/25/2004 |
| Tert-amyl methyl ether (TAME) | < 0 50 | 0.50 | ug/L | EPA 8260B | 09/25/2004 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 09/25/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 09/25/2004 |
| Toluene - d8 (Surr) | 98 7 | | % | EPA 8260B | 09/25/2004 |
| 4-Bromofluorobenzene (Surr) | 98 2 | | % | EPA 8260B | 09/25/2004 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|

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2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 40261

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Date : 09/28/2004

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | Blank | <50 | 1000 | 1000 | 851 | 899 | ug/L | M EPA 8015 | 9/24/04 | 85.1 | 89.9 | 5.45 | 70-130 | 25 |
| TPH as Diesel | Blank | <50 | 1000 | 1000 | 1010 | 970 | ug/L | M EPA 8015 | 9/27/04 | 101 | 97.0 | 4.33 | 70-130 | 25 |
| Benzene | 40261-01 | 1.2 | 40.0 | 40.0 | 37.7 | 36.5 | ug/L | EPA 8260B | 9/24/04 | 91.4 | 88.3 | 3.38 | 70-130 | 25 |
| Toluene | 40261-01 | <0.50 | 40.0 | 40.0 | 35.5 | 34.7 | ug/L | EPA 8260B | 9/24/04 | 88.8 | 86.8 | 2.28 | 70-130 | 25 |
| Tert-Butanol | 40261-01 | 550 | 200 | 200 | 725 | 725 | ug/L | EPA 8260B | 9/24/04 | 87.1 | 86.7 | 0.453 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 40261-01 | 670 | 40.0 | 40.0 | 687 | 684 | ug/L | EPA 8260B | 9/24/04 | 35.3 | 29.4 | 18.1 | 70-130 | 25 |
| Benzene | 40288-08 | <0.50 | 40.0 | 40.0 | 41.9 | 40.3 | ug/L | EPA 8260B | 9/25/04 | 105 | 101 | 3.77 | 70-130 | 25 |
| Toluene | 40288-08 | <0.50 | 40.0 | 40.0 | 40.2 | 39.0 | ug/L | EPA 8260B | 9/25/04 | 101 | 97.5 | 3.20 | 70-130 | 25 |
| Tert-Butanol | 40288-08 | <5.0 | 200 | 200 | 209 | 208 | ug/L | EPA 8260B | 9/25/04 | 104 | 104 | 0.184 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 40288-08 | <0.50 | 40.0 | 40.0 | 41.2 | 40.4 | ug/L | EPA 8260B | 9/25/04 | 103 | 101 | 1.89 | 70-130 | 25 |
| Benzene | 40275-01 | <0.50 | 40.0 | 40.0 | 42.3 | 41.8 | ug/L | EPA 8260B | 9/27/04 | 106 | 104 | 1.20 | 70-130 | 25 |
| Toluene | 40275-01 | <0.50 | 40.0 | 40.0 | 40.1 | 39.5 | ug/L | EPA 8260B | 9/27/04 | 100 | 98.7 | 1.51 | 70-130 | 25 |
| Tert-Butanol | 40275-01 | <5.0 | 200 | 200 | 210 | 210 | ug/L | EPA 8260B | 9/27/04 | 105 | 105 | 0.0759 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 40275-01 | <0.50 | 40.0 | 40.0 | 40.6 | 40.3 | ug/L | EPA 8260B | 9/27/04 | 102 | 101 | 0.825 | 70-130 | 25 |
| Benzene | 40284-01 | <0.50 | 40.0 | 40.0 | 40.4 | 38.0 | ug/L | EPA 8260B | 9/24/04 | 101 | 95.0 | 6.23 | 70-130 | 25 |
| Toluene | 40284-01 | <0.50 | 40.0 | 40.0 | 40.0 | 38.2 | ug/L | EPA 8260B | 9/24/04 | 99.9 | 95.5 | 4.48 | 70-130 | 25 |
| Tert-Butanol | 40284-01 | <5.0 | 200 | 200 | 200 | 203 | ug/L | EPA 8260B | 9/24/04 | 100 | 102 | 1.50 | 70-130 | 25 |

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Report Number : 40261

Date : 09/28/2004

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether | 40284-01 | <0.50 | 40.0 | 40.0 | 36.3 | 36.6 | ug/L | EPA 8260B | 9/24/04 | 90.7 | 91.6 | 0.998 | 70-130 | 25 |
| Benzene | 40259-02 | <0.50 | 40.0 | 40.0 | 39.5 | 38.6 | ug/L | EPA 8260B | 9/25/04 | 98.8 | 96.4 | 2.44 | 70-130 | 25 |
| Toluene | 40259-02 | <0.50 | 40.0 | 40.0 | 40.1 | 39.0 | ug/L | EPA 8260B | 9/25/04 | 100 | 97.5 | 2.71 | 70-130 | 25 |
| Tert-Butanol | 40259-02 | <5.0 | 200 | 200 | 200 | 204 | ug/L | EPA 8260B | 9/25/04 | 99.9 | 102 | 1.97 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 40259-02 | 65 | 40.0 | 40.0 | 105 | 102 | ug/L | EPA 8260B | 9/25/04 | 99.8 | 90.9 | 9.37 | 70-130 | 25 |

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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 40261

Date : 09/28/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Benzene | 40.0 | ug/L | EPA 8260B | 9/24/04 | 103 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 9/24/04 | 103 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 9/24/04 | 102 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 9/24/04 | 98.1 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 9/25/04 | 104 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 9/25/04 | 95.3 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 9/25/04 | 101 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 9/25/04 | 99.6 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 9/27/04 | 99.6 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 9/27/04 | 100 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 9/27/04 | 99.6 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 9/27/04 | 96.4 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 9/24/04 | 100 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 9/24/04 | 99.7 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 9/24/04 | 102 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 9/24/04 | 84.3 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 9/25/04 | 98.6 | 70-130 |

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Report Number : 40261

Date : 09/28/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **OAKLAND TRUCK STOP**

Project Number : **3540**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Toluene | 40.0 | ug/L | EPA 8260B | 9/25/04 | 99.8 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 9/25/04 | 99.7 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 9/25/04 | 88.1 | 70-130 |

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KIFF ANALYTICAL, LLC

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**KIFF ANALYTICAL LLC**

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 40261 Page 1 of 1

# Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): DAMIAN HRICIGA
Company/Address: AQUA SCIENCE ENGINEERS
Phone No.: 925-820-9391 FAX No.:
Project Number: 3540 P.O. No:
Project Name: OAKLAND TRUCK STOP
Project Address: OAKLAND

California EDF Report? [X] Yes [ ] No
Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID: T0600010148 7
EDF Deliverable To (Email Address): DALLEN@AQUASCIENCEENGINEERS.COM
Sampler Signature:

| Sample Designation | Sampling Date | Sampling Time | Container: 40 ml VOA | Container: SLEEVE | Preservative: HCl | Preservative: $HNO_3$ | Preservative: ICE | Preservative: NONE | Matrix: WATER | Matrix: SOIL | Analysis Request: BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) TOTAL (X) W.E.T. (X) | TAT: 12 hr/24 hr/48 hr/72 hr/1 wk | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 9/21/04 | 1030 | 5 | | | | X | | X | | | | X | | | | X | | | | | | | | -01 |
| MW-3 | | 1420 | 5 | | | | X | | X | | | | X | | | | X | | | | | | | | -02 |
| MW-4 | | 1200 | 5 | | X | | X | | X | | | | X | | | | X | | | | | | | | -03 |
| MW-5 | | 1110 | 5 | | | | X | | X | | | | X | | | | X | | | | | | | | -04 |
| MW-6 | | 1525 | 5 | | X | | X | | X | | | | X | | | | X | | | | | | | | -05 |
| MW-7 | | 1235 | 5 | | X | | X | | X | | | | X | | | | X | | | | | | | | -06 |
| MW-8 | | 1330 | 5 | | X | | X | | X | | | | X | | | | X | | | | | | | | -07 |
| MW-9 | | 1635 | 5 | | X | | X | | X | | | | X | | | | X | | | | | | | | -08 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Date | Time | | |
|---|---|---|---|---|
| Relinquished by: | 9/22/04 | 1030 | Received by: | Remarks: |
| Relinquished by: | Date | Time | Received by: | |
| Relinquished by: | 092304 | 1007 | Received by Laboratory: KIFF ANALYTICAL | Bill to: |

*Distribution: White - Lab, Pink - Originator*

Forms/coc 121001.fh9