

March 4, 2001

Mr. John Ward  
Wells Fargo Trust  
Asset Management Division  
Trust Real Estate Department  
P.O. Box 63939  
San Francisco, California 94163

# 4252

RE: Groundwater Monitoring Report  
Blumert Trust, 490 43rd Street, Oakland, California  
ACC Project No. 96-6305-001.01

Dear Mr. Ward:

The enclosed report summarizes results of groundwater monitoring at 490 43rd Street, Oakland, California, performed by ACC Environmental Consultants, Inc., (ACC) on December 28, 2000. Based on the August 9, 2000 letter from Mr. Barney Chan of the Alameda County Health Care Services Agency, Department of Environmental Health (ACHCSA), ACC anticipates discontinuing groundwater monitoring at the site. This sampling event was performed in order to maintain a synchronous monitoring schedule with the site located at 489 43rd Street.

On your behalf, ACC is forwarding a copy of this report to the ACHCSA.

If you have any comments regarding this report, please call me at (510) 638-8400, extension 109.

Sincerely,



David R. DeMent, RG  
Environmental Division Manager

/nhd:drd

Enclosures

cc: Mr. Jay Schnack, McShane, Schnack & Chertlin  
Mr. Barney Chan, ACHCSA

**GROUNDWATER MONITORING REPORT**

**490 43rd Street  
Oakland, California**

*ACC Project No. 96-6305-001.01*

Prepared for:

Mr. John Ward  
Wells Fargo Trust  
525 Market Street, 18th Floor  
San Francisco, California

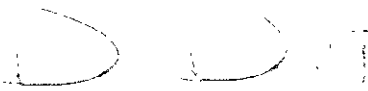
March 4, 2001

Prepared by:



Trevor R. Bausman  
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David R. DeMent, RG  
Environmental Division Manager



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**GROUNDWATER MONITORING REPORT**  
**490 43rd Street**  
**Oakland, California**

## **1.0 INTRODUCTION**

Groundwater monitoring and sampling was conducted by ACC Environmental Consultants, Inc., (ACC) for Wells Fargo Trust on behalf of the Blumert Trust, for the subject property at 490 43rd Street, Oakland, California (Figure 1). The work was conducted at the request of the Alameda County Health Care Services Agency, Department of Environmental Health (ACHCSA) for additional site investigation and characterization of impacted groundwater.

The purpose of the work was to monitor groundwater flow direction and gradient and to evaluate the presence of petroleum hydrocarbons in the local groundwater associated with former gasoline and paint thinner (mineral spirits) underground storage tanks (USTs). The locations of the groundwater monitoring wells and pertinent site features are illustrated on Figure 2.

## **2.0 BACKGROUND**

The site is located at the northeastern corner of Telegraph Avenue and 43rd Street, Oakland, California (Figure 2). The property is relatively flat, at an elevation of approximately 90 feet above mean sea level (MSL). The predominant groundwater flow direction is to the south-southwest.

The facility formerly operated one 1,000-gallon gasoline UST and one 350-gallon mineral spirits UST, which were removed on December 11, 1991. Laboratory analysis of soil samples collected underneath the gasoline UST indicated concentrations of up to 220 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg) and minor concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Laboratory analysis of soil samples collected underneath the mineral spirit UST indicated concentrations up to 25 ppm mineral spirits. Groundwater was observed in the excavation at a depth of approximately 12.5 feet below ground surface (bgs). The tank pit, which formerly contained both USTs, was overexcavated on March 31, 1992, to remove additional impacted soil. Laboratory analysis of soil samples collected from excavation sidewalls indicated concentrations of up to 720 ppm TPHg, 30 ppm BTEX constituents, and 190 ppm mineral spirits.

Three groundwater monitoring wells were installed on April 12, 1993, by Kaprealian Engineering, Inc., (KEI) and have been monitored periodically since that time. Gradient was calculated at approximately 0.01 foot/foot and flow direction was to the south-southwest. Groundwater samples collected from the three monitoring wells indicated elevated TPHg and mineral spirit concentrations.

On June 1, 1994, KEI drilled exploratory soil borings EB1 and EB2. Concentrations of TPHg and mineral spirits ranging from 28 to 180 ppm were detected in soil samples collected from boring EB2 at depths of 10 and 12 feet bgs. Grab groundwater samples collected from borings EB1 and EB2 indicated concentrations of TPHg at 3,400 parts per billion (ppb) and 9,200 ppb, respectively.

and mineral spirits at 7,000 ppb and 3,700 ppb, respectively. Sieve analysis of saturated soil at the site determined that the soil should be classified as silty sand (SM).

To further evaluate the extent of hydrocarbon impact to soil and groundwater, ACC performed an exploratory boring investigation in April 1996. ACC drilled two exploratory soil borings (SB1 and SB2) to characterize soil conditions in the immediate vicinity of the former tank excavation and six additional exploratory borings (B3 through B8) upgradient and downgradient of the former USTs to characterize groundwater in the general vicinity of the former tank excavation. Concentrations of mineral spirits were detected in sample SB1-9.0 at 52 ppm and in sample SB2-9.0 at 78 ppm. Grab groundwater samples were collected from borings B3 through B8 and analyzed for TPHg, BTEX, and mineral spirits. Concentrations of TPHg ranged from nondetectable in groundwater samples collected from borings B3 and B8 to 46,000 ppb in a sample collected from boring B6. Concentrations of mineral spirits ranged from nondetectable in samples collected from borings B3 and B8 to 16,000 ppb in a sample from boring B7. Petroleum hydrocarbon impacts to shallow groundwater were not fully delineated, but concentrations of TPHg and mineral spirits appear to have migrated preferentially along utility trench lines. Field observations indicated that general aquifer quality was poor, and subsurface groundwater migration was believed to be minimal based on soil type, flat hydraulic gradient, and minimal surface water infiltration.

In a letter to Wells Fargo Bank dated October 17, 1996, ACHCSA approved biannual groundwater monitoring, the installation of one additional monitoring well, and evaluation of options to artificially introduce dissolved oxygen (DO) into shallow groundwater to assist natural degradation processes. In July 1999, one additional groundwater monitoring well was installed downgradient of the former USTs and ORC® (Oxygen Release Compound) was introduced through a series of soil borings. Biannual groundwater monitoring and sampling has been conducted at the site since December 1996.

ACC met with representatives of the ACHCSA, Wells Fargo Bank, and the Blumert Trust on August 9, 2000, to discuss work required to receive regulatory closure for the site. In his letter of the same date, Mr. Barney Chan of the ACHCSA requested a final monitoring event in conjunction with additional work items to bring the site to closure. This report describes this final groundwater monitoring event.

### **3.0 GROUNDWATER MONITORING AND SAMPLING**

ACC monitored and sampled well MW-4 only on December 28, 2000. This sampling event was performed to further characterize groundwater conditions at the site. Work at the site included measuring depth to water in all four wells, subjectively evaluating groundwater in well MW-4, and purging and sampling well MW-4 for laboratory analysis.

#### **3.1 Groundwater Monitoring**

Before groundwater sampling, the depth to the surface of the water table was measured from the top of the well casing using a Solinst water level meter. The water level measurements were

recorded to the nearest 0.01 foot with respect to MSL. Groundwater monitoring data obtained at the site is included as Appendix 1. Information regarding well elevations and groundwater levels is summarized in Table 1.

**TABLE 1 - GROUNDWATER DEPTH INFORMATION**

| Well No. | Well Elevation*<br>(above MSL) | Date Measured | Depth to<br>Groundwater | Groundwater<br>Elevation |
|----------|--------------------------------|---------------|-------------------------|--------------------------|
| MW-1     | 91.02'                         | 04/14/94      | 11.19                   | 79.83                    |
|          |                                | 05/23/94      | 10.75                   | 80.27                    |
|          |                                | 06/16/94      | 11.72                   | 79.30                    |
|          |                                | 04/12/95      | 9.72                    | 81.31                    |
|          |                                | 05/10/95      | 10.11                   | 80.91                    |
|          |                                | 06/28/95      | 10.91                   | 80.11                    |
|          |                                | 12/05/95      | 12.21                   | 78.81                    |
|          |                                | 05/30/96      | 10.23                   | 80.79                    |
|          |                                | 09/03/96      | 12.10                   | 78.92                    |
|          |                                | 12/06/96      | 9.32                    | 81.70                    |
|          |                                | 06/12/97      | 11.85                   | 79.17                    |
|          |                                | 12/16/97      | 8.87                    | 82.15                    |
|          |                                | 06/19/98      | 10.77                   | 80.25                    |
|          |                                | 12/17/98      | 10.04                   | 80.98                    |
|          |                                | 06/22/99      | 11.60                   | 79.42                    |
|          |                                | 12/20/99      | 11.26                   | 79.76                    |
|          |                                | 03/29/00      | 10.12                   | 80.90                    |
| 07/05/00 | 11.90                          | 79.12         |                         |                          |
| 10/11/00 | 11.86                          | 79.16         |                         |                          |
| 12/28/00 | 11.65                          | 79.37         |                         |                          |
| MW-2     | 90.55'                         | 04/14/94      | 10.95                   | 79.60                    |
|          |                                | 05/23/94      | 10.52                   | 80.03                    |
|          |                                | 06/16/94      | 11.49                   | 79.06                    |
|          |                                | 04/12/95      | 9.59                    | 80.96                    |
|          |                                | 05/10/95      | 10.00                   | 80.55                    |
|          |                                | 06/28/95      | 10.95                   | 79.60                    |
|          |                                | 12/05/95      | 12.34                   | 78.21                    |
|          |                                | 05/30/96      | 10.01                   | 80.54                    |
|          |                                | 09/03/96      | 11.87                   | 78.68                    |
|          |                                | 12/06/96      | 9.42                    | 81.13                    |
|          |                                | 06/12/97      | 11.65                   | 78.90                    |
|          |                                | 12/16/97      | 8.74                    | 81.81                    |
|          |                                | 06/19/98      | 10.49                   | 80.06                    |
|          |                                | 12/17/98      | 9.99                    | 80.56                    |
|          |                                | 06/22/99      | 11.74                   | 78.81                    |
|          |                                | 12/20/99      | 11.46                   | 79.09                    |
|          |                                | 03/29/00      | 10.40                   | 80.15                    |
| 07/05/00 | 12.16                          | 78.39         |                         |                          |
| 10/11/00 | 12.12                          | 78.43         |                         |                          |
| 12/28/00 | 11.70                          | 78.85         |                         |                          |

Notes All measurements in feet

\*Well elevation measured to top of casing

**TABLE 1 - CONTINUED**

| Well No. | Well Elevation*<br>(above MSL) | Date Measured | Depth to<br>Groundwater | Groundwater<br>Elevation |
|----------|--------------------------------|---------------|-------------------------|--------------------------|
| MW-3     | 90.90'                         | 04/14/94      | 11.23                   | 79.67                    |
|          |                                | 05/23/94      | 10.74                   | 80.16                    |
|          |                                | 06/16/94      | 11.81                   | 79.09                    |
|          |                                | 04/12/95      | 9.72                    | 81.18                    |
|          |                                | 05/10/95      | 10.16                   | 80.74                    |
|          |                                | 06/28/95      | 10.99                   | 79.91                    |
|          |                                | 12/05/95      | 12.39                   | 78.51                    |
|          |                                | 05/30/96      | 9.97                    | 80.93                    |
|          |                                | 09/03/96      | 12.40                   | 78.50                    |
|          |                                | 12/06/96      | 9.12                    | 81.78                    |
|          |                                | 06/12/97      | 11.86                   | 79.04                    |
|          |                                | 12/16/97      | 8.54                    | 82.36                    |
|          |                                | 06/19/98      | 10.66                   | 80.24                    |
|          |                                | 12/17/98      | 9.98                    | 80.92                    |
|          |                                | 06/22/99      | 11.76                   | 79.14                    |
|          |                                | 12/20/99      | 11.50                   | 79.40                    |
|          |                                | 03/29/00      | 10.10                   | 80.80                    |
| 07/05/00 | 12.10                          | 78.80         |                         |                          |
| 10/11/00 | 12.14                          | 78.76         |                         |                          |
| 12/28/00 | 11.54                          | 79.36         |                         |                          |
| MW-4     | 90.16'                         | 12/20/99      | 12.28                   | 77.80                    |
|          |                                | 03/29/00      | 11.14                   | 79.02                    |
|          |                                | 07/05/00      | 13.00                   | 77.16                    |
|          |                                | 10/11/00      | 13.08                   | 77.08                    |
|          |                                | 12/28/00      | 12.43                   | 77.73                    |

Notes: All measurements in feet

\*Well elevation measured to top of casing

### 3.2 Groundwater Gradient

The groundwater flow direction as determined from monitoring well data collected on December 28, 2000, is illustrated on Figure 3. Based on groundwater elevation calculations, groundwater flow is toward the south-southwest at an average gradient of 0.031 foot/foot. Historical groundwater gradients and flow directions are summarized in Table 2.



**TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION**

| Date Monitored | Average Gradient (foot/foot) | Direction        |
|----------------|------------------------------|------------------|
| 04/14/94       | 0.007                        | South            |
| 05/23/94       | 0.008                        | South            |
| 06/16/94       | 0.007                        | South            |
| 04/12/95       | 0.010                        | South-southwest  |
| 05/10/95       | 0.011                        | South-southwest  |
| 06/28/95       | 0.010                        | South-southwest  |
| 12/05/95       | 0.020                        | South-southwest  |
| 05/30/96       | 0.014                        | Southwest        |
| 09/03/96       | 0.012                        | Southeast        |
| 12/06/96       | 0.036                        | Southwest        |
| 06/12/97       | 0.012                        | South-southwest  |
| 12/16/97       | 0.026                        | Southwest        |
| 06/19/98       | 0.010                        | Southwest        |
| 12/17/98       | 0.016                        | Southwest        |
| 06/22/99       | 0.026                        | Southwest        |
| 12/20/99       | 0.035*                       | South-southwest* |
| 03/29/00       | 0.036                        | Southwest        |
| 07/05/00       | 0.036                        | South-southwest  |
| 10/11/00       | 0.038                        | South-southwest  |
| 12/28/00       | 0.031                        | South-southwest  |

Notes: \*Gradient and flow direction calculated using data from wells MW-1, MW-2, and MW-3 only

### 3.3 Groundwater Sampling

Prior to groundwater sampling, each well was purged using a disposable polyethylene bailer. When four well casing volumes of water had been removed from each well, groundwater samples were collected. Following purging, each well was allowed to recharge before sampling

Each well was sampled using a new, disposable polyethylene bailer attached to new rope. From each monitoring well, laboratory supplied sample vials and bottles were filled to overflowing and sealed so that no air was trapped in the vial or bottle. Once filled, vials were inverted and tapped to

test for air bubbles. Sample containers were labeled with self-adhesive, pre-printed tags. All samples were stored in pre-chilled, insulated containers pending delivery to Chromalab, Inc. (Chromalab), a state-certified laboratory, for analysis.

Water purged during the sampling of the monitoring wells is temporarily stored on site in Department of Transportation approved 55-gallon drums pending receipt of laboratory analytical results and proper disposal.

#### **4.0 RESULTS OF GROUNDWATER SAMPLING**

Groundwater samples collected from monitoring well MW-4 were submitted to Chromalab following chain of custody protocol. The samples were analyzed for TPHg, BTEX, and methyl tertiary butyl ether (MTBE) using EPA Methods 8020 and 8015M, and total extractable petroleum hydrocarbons as mineral spirits (TEPH as mineral spirits) using EPA Method 8015M. Copies of the chain of custody record and laboratory analytical reports are included as Appendix 2. Groundwater sample analytical results are summarized in Table 3.

**TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS**

| Well / Date             | Mineral Spirits (µg/L) | TPHg (µg/L)           | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L)         |
|-------------------------|------------------------|-----------------------|----------------|----------------|----------------------|----------------------|---------------------|
| <b>MW-1</b>             |                        |                       |                |                |                      |                      |                     |
| 04/29/93                | 600                    | 290                   | 31             | 1.9            | 2.7                  | 5.4                  | --                  |
| 12/13/93                | 820                    | 1,700                 | 170            | 22             | 19                   | 48                   | --                  |
| 03/15/94                | 1,200                  | 2,100                 | 250            | 12             | 27                   | 38                   | --                  |
| 06/16/94                | 430                    | 700                   | 35             | 6.8            | 8.7                  | 10                   | --                  |
| 09/13/94                | 73                     | 170                   | 6.6            | 1.6            | 2.4                  | 3.3                  | --                  |
| 12/08/94                | 170                    | 420                   | 16             | 3.0            | 2.9                  | 2.7                  | --                  |
| 03/14/95                | 65                     | 630                   | 39             | ND             | 7.0                  | 8.6                  | --                  |
| 06/28/95                | 130                    | 720                   | 100            | 7.8            | 23                   | 32                   | --                  |
| 10/13/95                | 900                    | 290                   | 8.6            | 0.55           | 2.8                  | 1.4                  | --                  |
| 12/05/95                | 70                     | 94                    | 5.6            | ND             | 0.67                 | 0.53                 | --                  |
| 05/30/96                | <50                    | 1,700 <sup>(1)</sup>  | 62             | <0.5           | 16                   | 18                   | <5                  |
| 09/03/96                | <50                    | 570                   | 1.8            | 0.61           | 8.5                  | 7.3                  | <5                  |
| 12/06/96                | <51                    | 2,600                 | 84             | 2.8            | 30                   | 23                   | --                  |
| 06/12/97                | <51                    | 580                   | 9.4            | 1.3            | 5.0                  | 4.0                  | 8.1                 |
| 12/16/97                | 490 <sup>(4)</sup>     | 840                   | 12             | 2.5            | 8.0                  | 4.4                  | 17                  |
| 06/19/98                | 480                    | 130                   | 0.80           | <0.50          | 1.8                  | 0.52                 | <5.0                |
| 12/17/98                | 300 <sup>(4)</sup>     | 89                    | 1.9            | <0.50          | <0.50                | 0.69                 | <5.0                |
| 06/22/99                | <50                    | 220                   | 6.7            | <0.50          | 4.5                  | <0.50                | <5.0                |
| 12/20/99                | <50                    | 130                   | 1.5            | <0.50          | 0.71                 | <0.50                | <5.0                |
| 03/29/00                | <50                    | 360                   | 7.0            | 2.0            | 4.7                  | 3.5                  | <5.0                |
| 07/05/00                | <50                    | <50                   | <0.50          | <0.50          | <0.50                | <0.50                | <5.0                |
| 10/11/00                | <50                    | <50                   | <0.50          | <0.50          | <0.50                | <0.50                | <5.0                |
| <b>MW-2</b>             |                        |                       |                |                |                      |                      |                     |
| 04/29/93                | 4,100                  | 11,000                | 2,400          | 51             | 76                   | 160                  | --                  |
| 12/13/93                | 2,600                  | 11,000                | 1,400          | 66             | 150                  | 94                   | --                  |
| 06/16/94                | 11,000                 | 18,000                | 2,100          | ND             | 200                  | 70                   | --                  |
| 09/13/94                | 5,400                  | 12,000                | 1,400          | 50             | 200                  | 89                   | --                  |
| 12/08/94                | 3,200                  | 11,000                | 1,700          | 34             | 200                  | 86                   | --                  |
| 03/14/95                | 670                    | 14,000                | 1,500          | 41             | 160                  | 66                   | --                  |
| 06/28/95                | 8,700                  | 11,000                | 1,700          | ND             | 230                  | 78                   | --                  |
| 10/13/95                | 1,500                  | 9,400                 | 1,200          | 41             | 200                  | 61                   | --                  |
| 12/05/95                | 24,000                 | 150,000               | 890            | 200            | 720                  | 500                  | --                  |
| 05/30/96                | <50                    | 10,000 <sup>(1)</sup> | 61             | 5.1            | 28                   | 11                   | <5 <sup>(2)</sup>   |
| 09/03/96                | <50                    | 7,400                 | 960            | 19             | 130                  | 37                   | <100 <sup>(2)</sup> |
| 09/03/96 <sup>(3)</sup> | 2,800                  | 7,800                 | 1,400          | <0.5           | 210                  | 91                   | 300                 |
| 12/06/96                | <54                    | 12,000                | 850            | 8              | 140                  | 36                   | --                  |
| 06/12/97                | <50                    | 5,100                 | 810            | 25             | 6.8                  | 13                   | <5                  |
| 12/16/97                | 3,600 <sup>(4)</sup>   | 3,000                 | 400            | 9.2            | 26                   | 10                   | 44                  |
| 06/19/98                | 7,200                  | 5,900                 | 760            | 15             | 100                  | 33                   | <25                 |
| 12/17/98                | 3,400 <sup>(4)</sup>   | 7,300                 | 850            | 33             | 200                  | 22                   | <25                 |
| 06/22/99                | 1,200                  | 7,800                 | 660            | <10            | 140                  | <10                  | <100                |
| 12/20/99                | 4,600 <sup>(4)</sup>   | 9,400                 | 650            | 24             | 92                   | 21                   | <100                |
| 03/29/00                | 3,600                  | 11,000                | 590            | 130            | 250                  | 440                  | <250                |
| 07/05/00                | 6,200                  | 6,500                 | 360            | 56             | 130                  | 170                  | <250                |
| 10/11/00                | 2,800                  | 1,100                 | 63             | 2.7            | 15                   | 2.8                  | <5.0                |

| Well / Date             | Mineral Spirits (µg/L) | TPHg (µg/L)          | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L)        |
|-------------------------|------------------------|----------------------|----------------|----------------|----------------------|----------------------|--------------------|
| <b>MW-3</b>             |                        |                      |                |                |                      |                      |                    |
| 04/29/93                | 5,800                  | 8,500                | 840            | 17             | 40                   | 42                   | --                 |
| 12/13/93                | 3,500                  | 6,200                | 580            | 120            | 65                   | 120                  | --                 |
| 06/16/94                | 4,700                  | 7,700                | 910            | ND             | 86                   | 50                   | --                 |
| 09/13/94                | 8,700                  | 6,800                | 430            | 14             | 45                   | 37                   | --                 |
| 12/08/94                | 2,100                  | 1,500                | 820            | ND             | 52                   | 28                   | --                 |
| 03/14/95                | 480                    | 5,600                | 250            | 11             | 25                   | 30                   | --                 |
| 06/28/95                | 2,100                  | 14,000               | 650            | 18             | 70                   | 54                   | --                 |
| 10/13/95                | 430                    | 2,500                | 270            | 1.9            | 15                   | 10                   | --                 |
| 12/05/95                | 5,400                  | 4,200                | 250            | ND             | 26                   | ND                   | --                 |
| 05/30/96                | <50                    | 5,300 <sup>(1)</sup> | 65             | 1.5            | 9.0                  | 5.1                  | <5 <sup>(2)</sup>  |
| 09/03/96                | <50                    | 8,900                | 460            | 17             | 51                   | 77                   | <25 <sup>(2)</sup> |
| 09/03/96 <sup>(3)</sup> | 7,100                  | 4,800                | 800            | 14             | 39                   | 39                   | 120                |
| 12/06/96                | <100                   | 7,000                | 740            | <5             | 60                   | 17                   | --                 |
| 06/12/97                | <50                    | 2,800                | 460            | 14             | 59                   | 28                   | <50                |
| 12/16/97                | 4,000 <sup>(4)</sup>   | 4,900                | 1,700          | 17             | 52                   | 20                   | 92                 |
| 06/19/98                | 10,000                 | 3,800                | 470            | 19             | 49                   | 21                   | <25                |
| 12/17/98                | 240 <sup>(4)</sup>     | 5,000                | 450            | 18             | 100                  | 4.8                  | <25                |
| 06/22/99                | 790                    | 3,100                | 190            | <1.0           | 52                   | <1.0                 | <10                |
| 12/20/99                | 6,400 <sup>(4)</sup>   | 4,500                | 230            | 12             | 47                   | 38                   | <100               |
| 03/29/00                | 2,900                  | 7,900                | 330            | <2.5           | 58                   | 30                   | <25                |
| 07/05/00                | 2,300                  | 3,400                | 190            | 15             | 29                   | 12                   | <25                |
| 10/11/00                | 2,000                  | 4,100                | 230            | <10            | 37                   | 18                   | <100               |
| <b>MW-4</b>             |                        |                      |                |                |                      |                      |                    |
| 06/22/99                | 1,900                  | 3,200                | 410            | <2.5           | 54                   | 12                   | 90                 |
| 12/20/99                | 2,000 <sup>(4)</sup>   | 2,000                | 160            | 7.4            | 8.0                  | 7.0                  | 25                 |
| 03/29/00                | <50                    | 4,200                | 600            | 15             | 26                   | 24                   | 74                 |
| 07/05/00                | <50                    | 2,900                | 410            | 23             | 19                   | 18                   | 56                 |
| 10/11/00                | 860                    | 3,200                | 190            | 11             | 14                   | 13                   | <25                |
| 12/28/00                | 590 <sup>(4)</sup>     | 3,100                | 240            | <2.5           | 18                   | 5.0                  | <25                |

Notes: All water results are reported in µg/L, approximately equal to ppb

< = Not detected at laboratory reporting limit indicated

-- = Analysis not performed

<sup>(1)</sup> Value revised by Chromalab from May 1996, submission 9605835

<sup>(2)</sup> Confirmed by gas chromatography/mass spectrometry (GC/MS)

<sup>(3)</sup> Duplicate sample analysis by Sequoia Analytical

<sup>(4)</sup> Quantitation for this analyte is based on the response factor of diesel. Hydrocarbons reported do not match the pattern of the mineral spirit standard.

## 5.0 DISCUSSION

Groundwater gradient and flow direction were calculated at 0.031 foot/foot to the south-southwest in December 2000. These values are consistent with previous sampling events.

Analytical results from the October 2000 sampling event indicate that concentrations of TPHg, BTEX and mineral spirits were not detected in well MW-1. Concentrations of mineral spirits decreased in wells MW-2 and MW-3, and increased to above the laboratory detection limit in

downgradient well MW-4. Concentrations of TPHg decreased in well MW-2, and increased in wells MW-3 and MW-4. The highest reported concentration of TPHg was 4,100 ppb in the sample from MW-3, and the highest concentration of benzene was 230 ppb in the same sample. Generally, BTEX concentrations are showing preferential decreases that can be attributed to natural attenuation processes. MTBE was not reported above laboratory detection limits in any of the samples.

In December 2000, analytical results from well MW-4 indicated that natural attenuation processes continue to degrade residual petroleum hydrocarbons in groundwater. Mineral spirits were reported as diesel range petroleum hydrocarbons and indicate degradation with distance from the original source area.

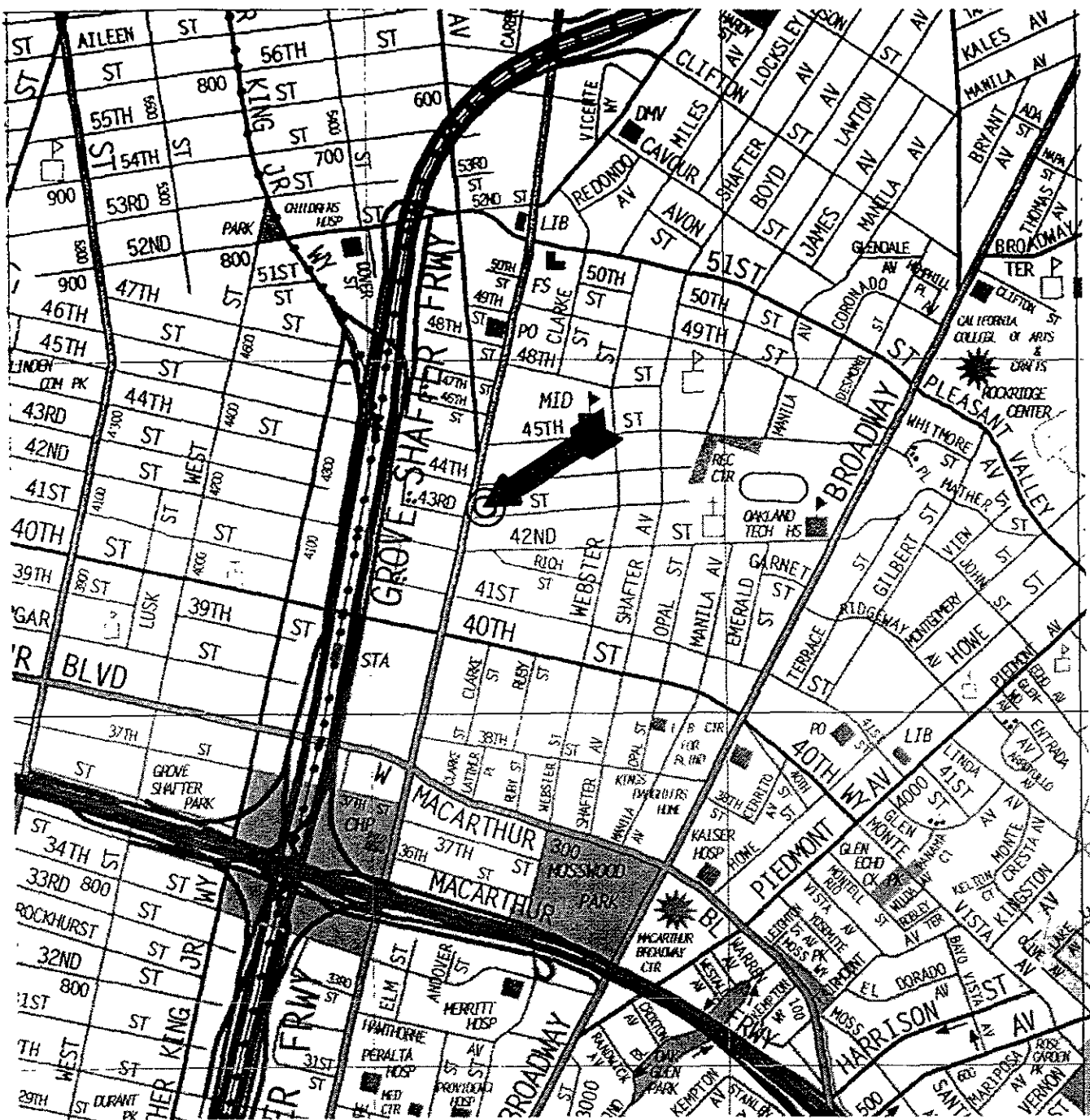
## **6.0 CONCLUSIONS**

Based on historical data and analytical results of this sampling and monitoring event, ACC concludes the following:

- Groundwater flow direction and gradient are consistent with previous sampling events; and
- Dissolved TPHg, BTEX, and mineral spirits continue to be detected in groundwater in the immediate vicinity of wells MW-2 through MW-4 and concentrations of constituents of concern continue to demonstrate an overall decreasing trend.

## **7.0 RECOMMENDATIONS**

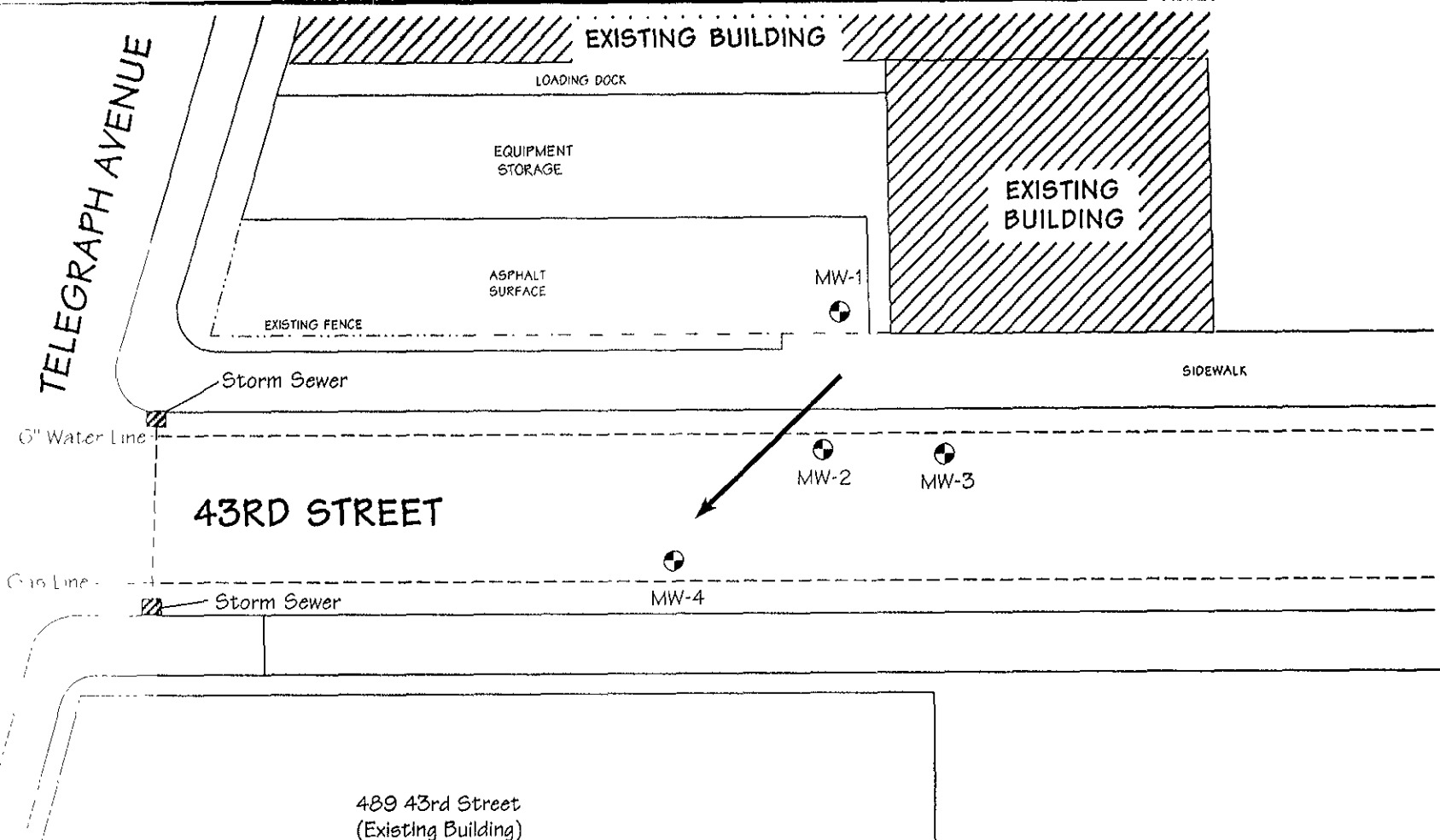
Based on the results of the August 9, 2000 meeting with the ACHCSA, ACC is instituting actions to bring the subject site to regulatory closure. These items include completing a well survey and a sensitive receptor survey, performing a preliminary risk assessment, and drafting a risk management plan. These documents will be provided to Mr. Barney Chan of the ACHCSA upon completion.



SOURCE Thomas Guide CD ROM, 1997

|   |                     |
|---|---------------------|
| Title: Location Map<br>490 43rd Street<br>Oakland, California   |                     |
| Figure Number 1   | Scale 1" = 1/4 Mile |
| Project Number 6305-01.01   | Drawn By NHD        |
| <b>A.C.C</b><br>ENVIRONMENTAL<br>CONSULTANTS<br>7977 Capwell Drive, Suite 100<br>Oakland, California 94621<br>(510) 638-8400 Fax (510) 638-8404 | Date 04/07/00       |
|   |                     |

TELEGRAPH AVENUE

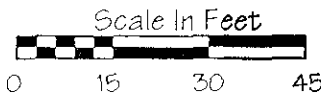


43RD STREET

489 43rd Street  
(Existing Building)

Legend

- MW-2 - Existing Groundwater Monitoring Well  
(Groundwater Elevation in Feet Above Mean Sea Level On July 5, 2000)
- Calculated Groundwater Flow Direction



MWA-1

|  |                        |
|--|------------------------|
| Title: <b>Site Plan</b><br>490 43rd Street<br>Oakland, California                                |                        |
| Figure Number: <b>2</b>  | Scale: <b>1" = 30'</b> |
| Project Number: <b>6305-01.01</b>  | Drawn By: <b>NHD</b>   |
| <b>A·C·C</b><br>ENVIRONMENTAL<br>CONSULTANTS   |                        |
| 7977 Capwell Drive, Suite 100<br>Oakland, California 94621<br>(510) 638-8400 Fax: (510) 638-8404 |                        |
|  |                        |

TELEGRAPH AVENUE

EXISTING BUILDING

LOADING DOCK

EQUIPMENT STORAGE

EXISTING BUILDING

ASPHALT SURFACE

MW-1  
(79.37')

EXISTING FENCE

Storm Sewer

SIDEWALK

6" Water Line

43RD STREET

MW-2

MW-3

(79.36')




MW-4

(77.73')

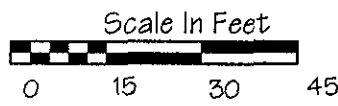
Gas Line

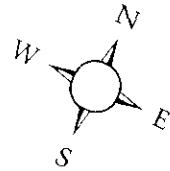
Storm Sewer

### Legend

- MW-2  - Existing Groundwater Monitoring Well (Groundwater Elevation in Feet Above MSL)
-  - Calculated Groundwater Flow Direction
-  - Groundwater Elevation Contour (Contour Interval = 0.25')

Groundwater Elevation Data  
collected on December 28, 2000



|  |   |
|--|---|
| Title: Groundwater Gradient Map<br>490 43rd Street<br>Oakland, California                        |   |
| Figure Number: 3   | Scale 1" = 30'  |
| Project Number: 6305-01.01   | Drawn By NHD  |
| <b>A·C·C</b><br>ENVIRONMENTAL<br>CONSULTANTS   |   |
| 7977 Capwell Drive, Suite 100<br>Oakland, California 94621<br>(510) 638-8400 Fax: (510) 638-8404 |   |
| Date 03/5/01   |  |



# **APPENDICES**

---

|  |  |
|--|--|
| WELL NAME: <u>Blumert Truse</u>                          | PURGE METHOD: <u>Manual Bailing</u>  |
| WELL ADDRESS: <u>490 43<sup>rd</sup> Street, Oakland</u> | SAMPLED BY: <u>NHD</u>   |
| WELL ID #: <u>6305-001-01</u>                            | LABORATORY: <u>Chromalab</u>   |
| DATE: <u>12/18/00</u>                                    | ANALYSIS: <u>g/btex/m+be, TEPH</u>   |
| WELL TYPE: <u>Drum Inventory</u> SOIL:                   | MONITORING <input checked="" type="checkbox"/> DEVELOPING <input type="checkbox"/> |
| WELL STATUS: <u>EMPTY</u> WATER: <u>1-Pull, 1-80%</u>    | SAMPLING <input checked="" type="checkbox"/>                                       |

|                               | PURGE VOL. | PURGE WATER READINGS |          |       |      |       |      | OBSERVATIONS             |                          |
|-------------------------------|------------|----------------------|----------|-------|------|-------|------|--------------------------|--------------------------|
|                               | (Gal)      | pH                   | Temp.(C) | Cond. | Sal. | Turb. | D.O. | <input type="checkbox"/> | <input type="checkbox"/> |
| WELL: <u>MW-1</u>             |            |                      |          |       |      |       |      | <input type="checkbox"/> | Froth                    |
| DEPTH OF BORING:              |            |                      |          |       |      |       |      | <input type="checkbox"/> | Sheen                    |
| DEPTH TO WATER: <u>11.65'</u> |            |                      |          |       |      |       |      | <input type="checkbox"/> | Odor Type _____          |
| WATER COLUMN:                 |            |                      |          |       |      |       |      | <input type="checkbox"/> | Free Product             |
| WELL DIAMETER:                |            |                      |          |       |      |       |      |                          | Amount _____ Type _____  |
| WELL VOLUME:                  |            |                      |          |       |      |       |      | <input type="checkbox"/> | Other                    |
| COMMENTS:                     |            |                      |          |       |      |       |      |                          |                          |
| <u>-Tag Water level only</u>  |            |                      |          |       |      |       |      |                          |                          |
| WELL: <u>MW-2</u>             |            |                      |          |       |      |       |      | <input type="checkbox"/> | Froth                    |
| DEPTH OF BORING:              |            |                      |          |       |      |       |      | <input type="checkbox"/> | Sheen                    |
| DEPTH TO WATER: <u>11.70'</u> |            |                      |          |       |      |       |      | <input type="checkbox"/> | Odor Type _____          |
| WATER COLUMN:                 |            |                      |          |       |      |       |      | <input type="checkbox"/> | Free Product             |
| WELL DIAMETER:                |            |                      |          |       |      |       |      |                          | Amount _____ Type _____  |
| WELL VOLUME:                  |            |                      |          |       |      |       |      | <input type="checkbox"/> | Other                    |
| COMMENTS:                     |            |                      |          |       |      |       |      |                          |                          |
| <u>-Tag Water level only</u>  |            |                      |          |       |      |       |      |                          |                          |
| WELL: <u>MW-3</u>             |            |                      |          |       |      |       |      | <input type="checkbox"/> | Froth                    |
| DEPTH OF BORING:              |            |                      |          |       |      |       |      | <input type="checkbox"/> | Sheen                    |
| DEPTH TO WATER: <u>11.54'</u> |            |                      |          |       |      |       |      | <input type="checkbox"/> | Odor Type _____          |
| WATER COLUMN:                 |            |                      |          |       |      |       |      | <input type="checkbox"/> | Free Product             |
| WELL DIAMETER:                |            |                      |          |       |      |       |      |                          | Amount _____ Type _____  |
| WELL VOLUME:                  |            |                      |          |       |      |       |      | <input type="checkbox"/> | Other                    |
| COMMENTS:                     |            |                      |          |       |      |       |      |                          |                          |
| <u>-Tag Water Level only</u>  |            |                      |          |       |      |       |      |                          |                          |

|   |  |
|---|--|
| JOB NAME: <u>Blument Trust</u>                  | PURGE METHOD: <u>Manual Bailing</u>  |
| SITE ADDRESS: <u>490 43<sup>rd</sup> Street</u> | SAMPLED BY: <u>NHD</u>   |
| JOB #: <u>6305-001.01</u>                       | LABORATORY: <u>Chromalab</u>   |
| DATE: <u>12/18/00</u>                           | ANALYSIS: <u>a/brex/wtbr, TEPH</u>   |
| Waste Drum Inventory SOIL:                      | MONITORING <input checked="" type="checkbox"/> DEVELOPING <input type="checkbox"/> |
| EMPTY: WATER: <u>1-2ul, 1-80%</u>               | SAMPLING <input checked="" type="checkbox"/>                                       |

|                                | PURGE      | PURGE WATER READINGS |          |       |      |       |      | OBSERVATIONS                             |
|--------------------------------|------------|----------------------|----------|-------|------|-------|------|--|
|                                | VOL.       | pH                   | Temp.(C) | Cond. | Sal. | Turb. | D.O. |  |
| WELL: <u>MW-4</u>              | (Gal)      |                      |          |       |      |       |      | <input type="checkbox"/> Froth           |
| DEPTH OF BORING: <u>19.95'</u> | <u>1.3</u> |                      |          |       |      |       |      | <input type="checkbox"/> Sheen           |
| DEPTH TO WATER: <u>12.43'</u>  | <u>2.6</u> |                      |          |       |      |       |      | <input type="checkbox"/> Odor Type _____ |
| WATER COLUMN: <u>7.52'</u>     | <u>3.9</u> |                      |          |       |      |       |      | <input type="checkbox"/> Free Product    |
| WELL DIAMETER: <u>2"</u>       | <u>5.2</u> |                      |          |       |      |       |      | Amount _____ Type _____                  |
| WELL VOLUME: <u>1.3 gal</u>    |            |                      |          |       |      |       |      | <input type="checkbox"/> Other           |
| COMMENTS:                      |            |                      |          |       |      |       |      |  |
| WELL:                          | (Gal)      | pH                   | Temp.(C) | Cond. | Sal. | Turb. | D.O. | <input type="checkbox"/> Froth           |
| DEPTH OF BORING:               |            |                      |          |       |      |       |      | <input type="checkbox"/> Sheen           |
| DEPTH TO WATER:                |            |                      |          |       |      |       |      | <input type="checkbox"/> Odor Type _____ |
| WATER COLUMN:                  |            |                      |          |       |      |       |      | <input type="checkbox"/> Free Product    |
| WELL DIAMETER:                 |            |                      |          |       |      |       |      | Amount _____ Type _____                  |
| WELL VOLUME:                   |            |                      |          |       |      |       |      | <input type="checkbox"/> Other           |
| COMMENTS:                      |            |                      |          |       |      |       |      |  |
| WELL:                          | (Gal)      | pH                   | Temp.(C) | Cond. | Sal. | Turb. | D.O. | <input type="checkbox"/> Froth           |
| DEPTH OF BORING:               |            |                      |          |       |      |       |      | <input type="checkbox"/> Sheen           |
| DEPTH TO WATER:                |            |                      |          |       |      |       |      | <input type="checkbox"/> Odor Type _____ |
| WATER COLUMN:                  |            |                      |          |       |      |       |      | <input type="checkbox"/> Free Product    |
| WELL DIAMETER:                 |            |                      |          |       |      |       |      | Amount _____ Type _____                  |
| WELL VOLUME:                   |            |                      |          |       |      |       |      | <input type="checkbox"/> Other           |
| COMMENTS:                      |            |                      |          |       |      |       |      |  |

**ACC Environmental Consultants**

7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn.: Mr. Neil Doran


Project: 6305-001.01  
490 43rd Street

Dear Doran,

Attached is our report for your samples received on Tuesday January 2, 2001  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after February 16, 2001  
unless you have requested otherwise. We appreciate the opportunity to be of service to you.  
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.  
My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil

Gas/BTEX and MTBE

**ACC Environmental Consultants**

✉ 7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn: Neil Doran

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6305-001.01

Project: 490 43rd Street

**Samples Reported**

| Sample ID | Matrix | Date Sampled     | Lab # |
|-----------|--------|------------------|-------|
| MW-4      | Water  | 12/28/2000 14:30 | 1     |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8020  
8015M

Attn.: Neil Doran

Prep Method: 5030

Gas/BTEX and MTBE

|   |                                 |
|---|---------------------------------|
| Sample ID: MW-4                         | Lab Sample ID: 2001-01-0013-001 |
| Project: 6305-001.01<br>490 43rd Street | Received: 01/02/2001 15:01      |
| Sampled: 12/28/2000 14:30               | Extracted: 01/04/2001 11:07     |
| Matrix: Water                           | QC-Batch: 2001/01/04-01.01      |

| Compound                 | Result | Rep.Limit | Units | Dilution | Analyzed         | Flag |
|--------------------------|--------|-----------|-------|----------|------------------|------|
| Gasoline                 | 3100   | 250       | ug/L  | 5.00     | 01/04/2001 11:07 | g    |
| Benzene                  | 240    | 2.5       | ug/L  | 5.00     | 01/04/2001 11:07 |      |
| Toluene                  | ND     | 2.5       | ug/L  | 5.00     | 01/04/2001 11:07 |      |
| Ethyl benzene            | 18     | 2.5       | ug/L  | 5.00     | 01/04/2001 11:07 |      |
| Xylene(s)                | 5.0    | 2.5       | ug/L  | 5.00     | 01/04/2001 11:07 |      |
| MTBE                     | ND     | 25        | ug/L  | 5.00     | 01/04/2001 11:07 |      |
| <b>Surrogate(s)</b>      |        |           |       |          |                  |      |
| 4-Bromofluorobenzene     | 103.8  | 50-150    | %     | 1.00     | 01/04/2001 11:07 |      |
| 4-Bromofluorobenzene-FID | 96.7   | 50-150    | %     | 1.00     | 01/04/2001 11:07 |      |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Neil Doran

8020

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

|                          |              |                                    |
|--------------------------|--------------|------------------------------------|
| <b>Method Blank</b>      | <b>Water</b> | <b>QC Batch # 2001/01/04-01.01</b> |
| MB: 2001/01/04-01.01-003 |              | Date Extracted: 01/04/2001 06:24   |

| Compound                 | Result | Rep.Limit | Units | Analyzed         | Flag |
|--------------------------|--------|-----------|-------|------------------|------|
| Gasoline                 | ND     | 50        | ug/L  | 01/04/2001 06:24 |      |
| Benzene                  | ND     | 0.5       | ug/L  | 01/04/2001 06:24 |      |
| Toluene                  | ND     | 0.5       | ug/L  | 01/04/2001 06:24 |      |
| Ethyl benzene            | ND     | 0.5       | ug/L  | 01/04/2001 06:24 |      |
| Xylene(s)                | ND     | 0.5       | ug/L  | 01/04/2001 06:24 |      |
| MTBE                     | ND     | 5.0       | ug/L  | 01/04/2001 06:24 |      |
| <b>Surrogate(s)</b>      |        |           |       |                  |      |
| Trifluorotoluene         | 85.4   | 58-124    | ug/L  | 01/04/2001 06:24 |      |
| 4-Bromofluorobenzene-FID | 82.7   | 50-150    | ug/L  | 01/04/2001 06:24 |      |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8020

Attn: Neil Doran

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

### Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/01/04-01.01

LCS: 2001/01/04-01.01-004

Extracted: 01/04/2001 06:57

Analyzed 01/04/2001 06:57

LCSD: 2001/01/04-01.01-005

Extracted: 01/04/2001 07:30

Analyzed 01/04/2001 07:30

| Compound            | Conc. [ug/L] |      | Exp.Conc. [ug/L] |       | Recovery [%] |      | RPD [%] | Ctrl. Limits [%] |     | Flags |      |
|---------------------|--------------|------|------------------|-------|--------------|------|---------|------------------|-----|-------|------|
|                     | LCS          | LCSD | LCS              | LCSD  | LCS          | LCSD |         | Recovery         | RPD | LCS   | LCSD |
| Benzene             | 97.5         | 92.0 | 100.0            | 100.0 | 97.5         | 92.0 | 5.8     | 77-123           | 20  |       |      |
| Toluene             | 87.2         | 82.6 | 100.0            | 100.0 | 87.2         | 82.6 | 5.4     | 78-122           | 20  |       |      |
| Ethyl benzene       | 93.6         | 87.9 | 100.0            | 100.0 | 93.6         | 87.9 | 6.3     | 70-130           | 20  |       |      |
| Xylene(s)           | 276          | 266  | 300              | 300   | 92.0         | 88.7 | 3.7     | 75-125           | 20  |       |      |
| <b>Surrogate(s)</b> |              |      |                  |       |              |      |         |                  |     |       |      |
| Trifluorotoluene    | 458          | 430  | 500              | 500   | 91.6         | 86.0 |         | 58-124           |     |       |      |

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone (925) 484-1919 \* Facsimile (925) 484-1096



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn: Neil Doran

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

| Laboratory Control Spike (LCS/LCSD) | Water                       | QC Batch # 2001/01/04-01.01 |
|-------------------------------------|-----------------------------|-----------------------------|
| LCS: 2001/01/04-01.01-006           | Extracted: 01/04/2001 08:03 | Analyzed 01/04/2001 08:03   |
| LCSD: 2001/01/04-01.01-007          | Extracted: 01/04/2001 08:36 | Analyzed 01/04/2001 08:36   |

| Compound                                       | Conc. [ug/L] |      | Exp. Conc. [ug/L] |      | Recovery [%] |      | RPD | Ctrl. Limits [%] |     | Flags |      |
|--|--------------|------|-------------------|------|--------------|------|-----|------------------|-----|-------|------|
|  | LCS          | LCSD | LCS               | LCSD | LCS          | LCSD |     | Recovery         | RPD | LCS   | LCSD |
| Gasoline                                       | 467          | 458  | 500               | 500  | 93.4         | 91.6 | 1.9 | 75-125           | 20  |       |      |
| <b>Surrogate(s)</b><br>4-Bromofluorobenzene-FI | 357          | 372  | 500               | 500  | 71.4         | 74.4 |     | 50-150           |     |       |      |

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

To: ACC Environmental Consultants

Test Method: 8020  
8015M

Attn: Neil Doran

Prep Method: 5030

## Legend & Notes

Gas/BTEX and MTBE

### Analyte Flags

9

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Extractable Petroleum Hydrocarbons (TEPH)

|                                      |  |
|--------------------------------------|--|
| <b>ACC Environmental Consultants</b> | ✉ 7977 Capwell Drive, Suite 100<br>Oakland, CA 94621 |
| Attn: Neil Doran                     | Phone: (510) 638-8400 Fax: (510) 638-8404            |
| Project #: 6305-001.01               | Project: 490 43rd Street                             |

**Samples Reported**

| Sample ID | Matrix | Date Sampled     | Lab # |
|-----------|--------|------------------|-------|
| MW-4      | Water  | 12/28/2000 14:30 | 1     |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Neil Doran

Prep Method: 3510/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

|   |  |
|---|--|
| Sample ID: <b>MW-4</b>                  | Lab Sample ID: <b>2001-01-0013-001</b> |
| Project: 6305-001.01<br>490 43rd Street | Received: 01/02/2001 15:01             |
| Sampled: 12/28/2000 14:30               | Extracted: 01/02/2001 15:13            |
| Matrix: Water                           | QC-Batch: 2001/01/02-05.10             |

| Compound                           | Result | Rep.Limit | Units | Dilution | Analyzed         | Flag |
|------------------------------------|--------|-----------|-------|----------|------------------|------|
| Diesel                             | 590    | 50        | ug/L  | 1.00     | 01/03/2001 16:26 | ndp  |
| Motor Oil                          | ND     | 500       | ug/L  | 1.00     | 01/03/2001 16:26 |      |
| Mineral spirits                    | ND     | 50        | ug/L  | 1.00     | 01/03/2001 16:26 |      |
| <b>Surrogate(s)</b><br>o-Terphenyl | 95.5   | 60-130    | %     | 1.00     | 01/03/2001 16:26 |      |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Neil Doran

Prep Method: 3510/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

|                          |              |                                    |
|--------------------------|--------------|------------------------------------|
| <b>Method Blank</b>      | <b>Water</b> | <b>QC Batch # 2001/01/02-05.10</b> |
| MB: 2001/01/02-05.10-001 |              | Date Extracted: 01/02/2001 15:13   |

| Compound                           | Result | Rep.Limit | Units | Analyzed         | Flag |
|------------------------------------|--------|-----------|-------|------------------|------|
| Diesel                             | ND     | 50        | ug/L  | 01/03/2001 17:05 |      |
| Motor Oil                          | ND     | 500       | ug/L  | 01/03/2001 17:05 |      |
| Mineral spirits                    | ND     | 50        | ug/L  | 01/03/2001 17:05 |      |
| <b>Surrogate(s)</b><br>o-Terphenyl | 90.0   | 60-130    | %     | 01/03/2001 17:05 |      |

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2001-01-0013

To: ACC Environmental Consultants

Test Method: 8015M

Attn: Neil Doran

Prep Method: 3510/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

| Laboratory Control Spike (LCS/LCSD) | Water                       | QC Batch # 2001/01/02-05.10 |
|-------------------------------------|-----------------------------|-----------------------------|
| LCS: 2001/01/02-05.10-002           | Extracted: 01/02/2001 15:13 | Analyzed 01/03/2001 09:45   |
| LCSD: 2001/01/02-05.10-003          | Extracted: 01/02/2001 15:13 | Analyzed 01/03/2001 10:28   |

| Compound            | Conc. [ug/L] |      | Exp.Conc. [ug/L] |      | Recovery [%] |      | RPD [%] | Ctrl. Limits [%] |     | Flags |      |
|---------------------|--------------|------|------------------|------|--------------|------|---------|------------------|-----|-------|------|
|                     | LCS          | LCSD | LCS              | LCSD | LCS          | LCSD |         | Recovery         | RPD | LCS   | LCSD |
| Diesel              | 867          | 891  | 1250             | 1250 | 69.4         | 71.3 | 2.7     | 60-130           | 25  |       |      |
| <b>Surrogate(s)</b> |              |      |                  |      |              |      |         |                  |     |       |      |
| o-Terphenyl         | 19.7         | 18.7 | 20.0             | 20.0 | 98.5         | 93.5 |         | 60-130           |     |       |      |

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

To: **ACC Environmental Consultants**

Attn: Neil Doran

Test Method: 8015M

Prep Method: 3510/8015M

## Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

### Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756

(925) 484-1919 • Fax (925) 484-1096

Reference #: 56665

## Chain of Custody

DATE 1/2/01 PAGE 1 OF 1

| PROJ MGR <u>Neil Doran</u>       |          |      |                  |          | ANALYSIS REPORT  |  |                        |   |  |  |                             |  |   |   |   |                                    |                                       |            |   | NUMBER OF CONTAINERS |   |  |   |
|----------------------------------|----------|------|------------------|----------|--|--|------------------------|---|--|--|-----------------------------|--|---|---|---|------------------------------------|---------------------------------------|------------|---|----------------------|---|--|---|
| COMPANY <u>ACC Environmental</u> |          |      |                  |          | <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> STEC <input type="checkbox"/> MTE | PURGEABLE AROMATICS<br>BTEX (EPA 8020) | TPH-Diesel (EPA 8015M) | TEPH (EPA 8015M) <i>Miscel</i><br><input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input checked="" type="checkbox"/> Other <i>Sp. 1/15</i> | PURGEABLE HALOCARBONS,<br>(HYOCs) (EPA 8010) | VOLATILE ORGANICS<br>(VOCs) (EPA 8260) | SEMIVOLATILES<br>(EPA 8270) | TOTAL OIL AND GREASE<br>(SM 5520 B+F, E+F) | <input type="checkbox"/> PESTICIDES (EPA 8080)<br><input type="checkbox"/> PCB'S (EPA 8080) | PNA's by <input type="checkbox"/> 8270<br><input type="checkbox"/> 8310 | <input type="checkbox"/> Spec. Cond.<br><input type="checkbox"/> TSS <input type="checkbox"/> TDS | LUFT METALS:<br>Cd, Cr, Pb, Ni, Zn | CAM 17 METALS<br>(EPA 6010/7470/7471) | TOTAL LEAD | <input type="checkbox"/> W.E.T. (STLC)<br><input type="checkbox"/> TCLP |                      | <input type="checkbox"/> Hexavalent Chromium<br><input type="checkbox"/> pH (24 hr hold time for H2O) |  |   |
| SAMPLE ID.                       | DATE     | TIME | MATRIX           | PRESERV. |  |  |                        |   |  |  |                             |  |   |   |   |                                    |                                       |            |   |                      |   |  |   |
| MW-4                             | 12/28/00 | 1430 | H <sub>2</sub> O | COB      | X  |  | X                      |   |  |  |                             |  |   |   |   |                                    |                                       |            |   |                      |   |  | 4 |

| PROJECT INFORMATION                      |  | SAMPLE RECEIPT              |                             |                             |                                |
|--|--|-----------------------------|-----------------------------|-----------------------------|--------------------------------|
| PROJECT NAME:<br><u>A-90 43rd Street</u> | TOTAL NO. OF CONTAINERS                            |                             |                             |                             |                                |
| PROJECT NUMBER:<br><u>6305-001.01</u>    | HEAD SPACE   |                             |                             |                             |                                |
| P.O. #                                   | TEMPERATURE  |                             |                             |                             |                                |
| CONFORMS TO RECORD                       |  |                             |                             |                             |                                |
| TAT                                      | <input checked="" type="checkbox"/> STANDARD 5-DAY | <input type="checkbox"/> 24 | <input type="checkbox"/> 48 | <input type="checkbox"/> 72 | <input type="checkbox"/> OTHER |

SPECIAL INSTRUCTIONS/COMMENTS:  
Report:  Routine  Level 2  Level 3  Level 4  Electronic Report

|   |                    |                             |   |
|---|--------------------|-----------------------------|---|
| RELINQUISHED BY<br><u>Neil Doran</u><br>(SIGNATURE)<br><u>Neil Doran</u> 1/2/01<br>(PRINTED NAME) (DATE)<br><u>ACC</u><br>(COMPANY)                   | 1. RELINQUISHED BY | 2. RELINQUISHED BY          | 3. RELINQUISHED BY<br><u>B. Morris</u> 01/02/01<br>(SIGNATURE) (TIME)<br><u>B. Morris</u> 01/02/01<br>(PRINTED NAME) (DATE)<br><u>Chromalab</u><br>(COMPANY)              |
| RECEIVED BY<br><u>B. Morris</u> 01/02/01<br>(SIGNATURE) (TIME)<br><u>B. Morris</u> 01/02/01<br>(PRINTED NAME) (DATE)<br><u>Chromalab</u><br>(COMPANY) | 2. RECEIVED BY     | 2. RECEIVED BY (LABORATORY) | 3. RECEIVED BY (LABORATORY)<br><u>Denise Harrington</u><br>(SIGNATURE) (TIME)<br><u>D. Harrington</u> 1501<br>(PRINTED NAME) (DATE)<br><u>Chromalab</u> 01/02/01<br>(LAB) |