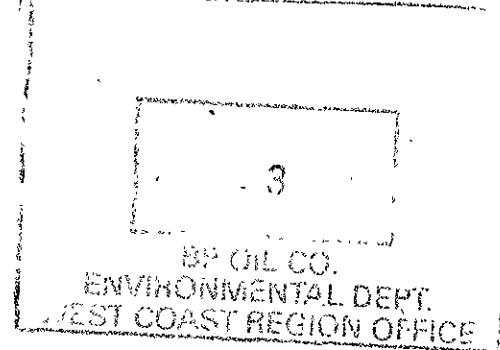


**GROUNDWATER MONITORING AND SAMPLING REPORT**

**BP Oil Company Service Station No. 11132  
3201 35th Street  
Oakland, California**

**Project No. 10-024-05-001**



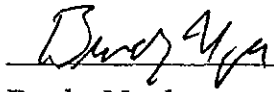
**Prepared for:**


**BP Oil Company  
Environmental Resources Management  
295 S.W. 41st Street  
Building 13, Suite N  
Renton, Washington**

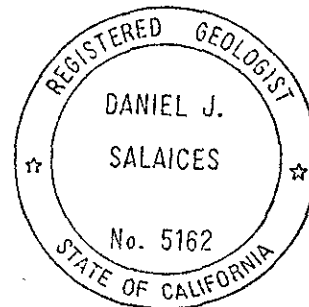
**Prepared by:**

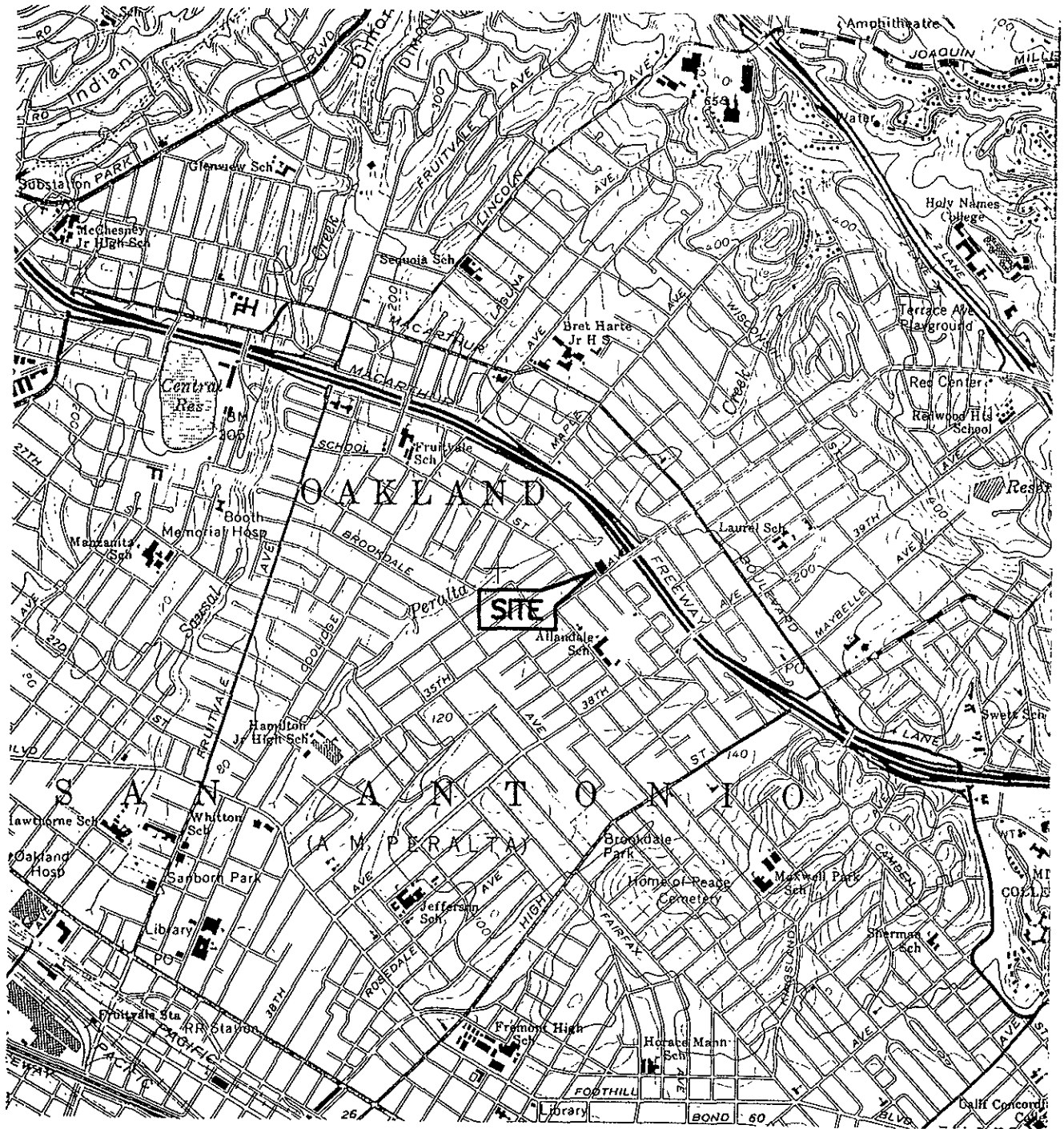
**Alisto Engineering Group  
1777 Oakland Boulevard, Suite 200  
Walnut Creek, California**

**September 7, 1994**

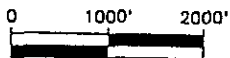
  
\_\_\_\_\_  
**Brady Nagle  
Project Manager**

  
\_\_\_\_\_  
**Dan Salaices  
Registered Geologist**





SOURCE:  
 USGS MAP, OAKLAND EAST QUADRANGLE,  
 CALIFORNIA, 7.5 MINUTE SERIES, 1959,  
 PHOTOREVISED 1980.



**FIGURE 1**  
**SITE VICINITY MAP**

BP OIL SERVICE STATION NO. 11132  
 3201 35TH STREET  
 OAKLAND, CALIFORNIA  
 PROJECT NO. 10-024



**ALISTO ENGINEERING GROUP**  
 WALNUT CREEK, CALIFORNIA

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID | DATE OF SAMPLING/<br>MONITORING | CASING ELEVATION (a)<br>(Feet) | DEPTH TO WATER<br>(Feet) | PRODUCT THICKNESS<br>(Feet) | GROUNDWATER ELEVATION (b)<br>(Feet) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | DO<br>(ppm) | LAB  |
|---------|---------------------------------|--------------------------------|--------------------------|-----------------------------|-------------------------------------|----------------|------------|------------|------------|------------|-------------|------|
| MW-1    | 07/09/90                        | 169.75                         | ---                      | 0.22                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 12/21/90                        | 169.75                         | ---                      | 0.58                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 03/07/91                        | 169.75                         | 20.59                    | ---                         | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 06/27/91                        | 169.75                         | ---                      | 0.18                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 09/27/91                        | 169.75                         | ---                      | 0.27                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 12/18/91                        | 169.75                         | ---                      | 0.28                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 04/01/91                        | 169.75                         | 16.51                    | 0.15                        | 153.35                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 07/03/92                        | 169.75                         | 22.30                    | 0.27                        | 147.65                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 10/05/92                        | 169.75                         | 23.98                    | 0.24                        | 145.95                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 01/13/93                        | 169.75                         | 17.03                    | 0.24                        | 152.90                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 04/23/93                        | 169.75                         | 18.10                    | 0.42                        | 151.97                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 07/12/93                        | 169.75                         | 22.02                    | 0.49                        | 148.10                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 10/21/93                        | 169.75                         | 25.12                    | 1.09                        | 145.45                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 01/21/94                        | 169.75                         | 23.02                    | 0.76                        | 147.30                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 04/20/94                        | 169.75                         | 24.54                    | 1.80                        | 146.56                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-1    | 08/01/94                        | 169.75                         | 24.11                    | 0.35                        | 145.90                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 07/09/90                        | 168.14                         | ---                      | 0.10                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 12/21/90                        | 168.14                         | ---                      | 0.48                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 03/07/91                        | 168.14                         | 19.18                    | ---                         | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 06/27/91                        | 168.14                         | ---                      | 0.19                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 09/27/91                        | 168.14                         | ---                      | 0.15                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 12/18/91                        | 168.14                         | ---                      | 0.36                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 04/01/91                        | 168.14                         | 15.21                    | 0.10                        | 153.01                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 07/03/92                        | 168.14                         | 20.93                    | 0.03                        | 147.23                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 10/05/92                        | 168.14                         | 22.74                    | 0.21                        | 145.56                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 01/13/93                        | 168.14                         | 15.55                    | 0.02                        | 152.61                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 04/23/93                        | 168.14                         | 16.54                    | 0.21                        | 151.76                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 07/12/93                        | 168.14                         | 20.46                    | 0.06                        | 147.73                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 10/21/93                        | 168.14                         | 24.91                    | 0.31                        | 143.46                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 01/21/94                        | 168.14                         | 21.20                    | ---                         | 146.94                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-2    | 04/20/94                        | 168.14                         | 22.44                    | ---                         | 145.70                              | 1800           | 140        | 370        | 54         | 290        | 1.7         | PAGE |
| MW-2    | 08/01/94                        | 168.14                         | 22.24                    | 0.04                        | 145.93                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID  | DATE OF SAMPLING/<br>MONITORING | CASING ELEVATION (a)<br>(Feet) | DEPTH TO WATER<br>(Feet) | PRODUCT THICKNESS<br>(Feet) | GROUNDWATER ELEVATION (b)<br>(Feet) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | DO<br>(ppm) | LAB  |
|----------|---------------------------------|--------------------------------|--------------------------|-----------------------------|-------------------------------------|----------------|------------|------------|------------|------------|-------------|------|
| MW-3     | 07/09/90                        | 167.17                         | --                       | --                          | --                                  | 140            | 5.3        | 4.6        | 2.0        | 3.8        | --          | --   |
| MW-3     | 12/21/90                        | 167.17                         | --                       | --                          | --                                  | 0.19           | 100        | 6.0        | 0.9        | 27         | --          | --   |
| MW-3     | 03/07/91                        | 167.17                         | 17.40                    | --                          | 149.77                              | 0.4            | 69         | 22         | 6.1        | 57         | --          | --   |
| MW-3     | 06/27/91                        | 167.17                         | --                       | --                          | --                                  | 380            | 28         | 26         | 13         | 46         | --          | --   |
| MW-3     | 09/27/91                        | 167.17                         | --                       | --                          | --                                  | 0.07           | 7.9        | ND         | 0.4        | 1.1        | --          | --   |
| MW-3     | 12/18/91                        | 167.17                         | --                       | --                          | --                                  | 0.26           | 34         | 24         | 0.8        | 28         | --          | --   |
| MW-3     | 04/01/91                        | 167.17                         | 13.69                    | --                          | 153.48                              | ND             | ND         | ND         | ND         | ND         | --          | --   |
| MW-3     | 07/03/92                        | 167.17                         | 19.59                    | --                          | 147.58                              | 71             | 9.4        | 0.9        | 5.0        | 13         | --          | ANA  |
| MW-3     | 10/05/92                        | 167.17                         | 21.22                    | --                          | 145.95                              | 67             | 5.1        | 1.1        | 6.1        | 8.1        | --          | ANA  |
| QC-1 (c) | 10/05/92                        | --                             | --                       | --                          | --                                  | ND<50          | 2.2        | ND<0.5     | 1.5        | 2.8        | --          | ANA  |
| MW-3     | 01/13/93                        | 167.17                         | 13.63                    | --                          | 153.54                              | 830            | 50         | 34         | 42         | 89         | --          | PACE |
| MW-3     | 04/23/93                        | 167.17                         | 15.02                    | --                          | 152.15                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| QC-1 (c) | 04/23/93                        | --                             | --                       | --                          | --                                  | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-3     | 07/12/93                        | 167.17                         | 19.16                    | --                          | 148.01                              | 250            | 12         | 4.2        | 12         | 16         | --          | PACE |
| MW-3     | 10/21/93                        | 167.17                         | 21.81                    | --                          | 145.36                              | 52             | 4.4        | 1.4        | 4.7        | 3.3        | --          | PACE |
| QC-1 (c) | 10/21/93                        | --                             | --                       | --                          | --                                  | 65             | 7.4        | 1.0        | 6.9        | 4.2        | --          | PACE |
| MW-3     | 01/21/94                        | 167.17                         | 19.94                    | --                          | 147.23                              | 57             | 3.0        | 3.4        | 3.6        | 9.0        | --          | PACE |
| MW-3     | 04/20/94                        | 167.17                         | 20.24                    | --                          | 146.93                              | 600            | 26         | 23         | 33         | 88         | 1.8         | PACE |
| MW-3     | 08/01/94                        | 167.17                         | 20.74                    | --                          | 146.43                              | 99             | 6.2        | 1.1        | 4.5        | 5.2        | 1.4         | PACE |
| QC-1 (c) | 08/01/94                        | --                             | --                       | --                          | --                                  | 120            | 7.7        | 1.6        | 5.9        | 6.7        | --          | PACE |
| MW-4     | 07/09/90                        | 170.36                         | --                       | --                          | --                                  | ND             | ND         | ND         | ND         | ND         | --          | --   |
| MW-4     | 12/21/90                        | 170.36                         | --                       | --                          | --                                  | ND             | ND         | ND         | ND         | 0.8        | --          | --   |
| MW-4     | 03/07/91                        | 170.36                         | 20.72                    | --                          | 149.64                              | ND             | 2.2        | 3.8        | 1.5        | 2.8        | --          | --   |
| MW-4     | 06/27/91                        | 170.36                         | --                       | --                          | --                                  | ND             | 6.3        | 1.8        | 0.4        | 1.0        | --          | --   |
| MW-4     | 09/27/91                        | 170.36                         | --                       | --                          | --                                  | ND             | ND         | ND         | ND         | ND         | --          | --   |
| MW-4     | 12/18/91                        | 170.36                         | --                       | --                          | --                                  | ND             | ND         | ND         | ND         | ND         | --          | --   |
| MW-4     | 04/01/91                        | 170.36                         | 17.49                    | --                          | 152.87                              | ND             | ND         | ND         | ND         | ND         | --          | --   |
| MW-4     | 07/03/92                        | 170.36                         | 22.16                    | --                          | 148.20                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | ANA  |
| MW-4     | 10/05/92                        | 170.36                         | 23.38                    | --                          | 146.98                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | ANA  |
| MW-4     | 01/13/93                        | 170.36                         | 17.58                    | --                          | 152.78                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-4     | 04/23/93                        | 170.36                         | 15.72                    | --                          | 154.64                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-4     | 07/12/93                        | 170.36                         | 21.74                    | --                          | 148.62                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-4     | 10/21/93                        | 170.36                         | 23.84                    | --                          | 146.52                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-4     | 01/21/94                        | 170.36                         | 22.42                    | --                          | 147.94                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | --          | PACE |
| MW-4     | 04/20/94                        | 170.36                         | 22.66                    | --                          | 147.70                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | 2.2         | PACE |
| MW-4     | 08/01/94                        | 170.36                         | 23.01                    | --                          | 147.35                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | 1.9         | PACE |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID  | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | DO (ppm) | LAB  |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|-------------|---------|---------|---------|---------|----------|------|
| MW-5     | 07/09/90                     | 165.14                      | ---                   | ---                      | ---                              | 280         | 200     | 210     | 46      | 290     | ---      | ---  |
| MW-5     | 12/21/90                     | 165.14                      | ---                   | ---                      | ---                              | 0.69        | 300     | 34      | 8.4     | 39      | ---      | ---  |
| MW-5     | 03/07/91                     | 165.14                      | 16.60                 | ---                      | 148.54                           | ND          | 17      | 0.9     | 0.7     | 1.6     | ---      | ---  |
| MW-5     | 06/27/91                     | 165.14                      | ---                   | ---                      | ---                              | 330         | 120     | 10      | 12      | 8       | ---      | ---  |
| MW-5     | 09/27/91                     | 165.14                      | ---                   | ---                      | ---                              | 0.73        | 230     | 16      | 20      | 22      | ---      | ---  |
| MW-5     | 12/18/91                     | 165.14                      | ---                   | ---                      | ---                              | ND          | ND      | ND      | ND      | ND      | ---      | ---  |
| MW-5     | 04/01/91                     | 165.14                      | 11.99                 | ---                      | 153.15                           | 800         | 250     | 54      | 11      | 60      | ---      | ---  |
| MW-5     | 07/03/92                     | 165.14                      | 18.65                 | ---                      | 146.49                           | 150         | 36      | ND<0.5  | ND<0.5  | 1.1     | ---      | ANA  |
| MW-5     | 10/05/92                     | 165.14                      | 20.32                 | ---                      | 144.82                           | 270         | 79      | 4       | 1.7     | 2.9     | ---      | ANA  |
| MW-5     | 01/13/93                     | 165.14                      | 13.03                 | ---                      | 152.11                           | 180         | 59      | 6.0     | 1.8     | 7.6     | ---      | PACE |
| MW-5     | 04/23/93                     | 165.14                      | 13.51                 | ---                      | 151.63                           | 8700        | 440     | 96      | 35      | 136     | ---      | PACE |
| MW-5     | 07/12/93                     | 165.14                      | 18.06                 | ---                      | 147.08                           | 250         | 57      | 2.9     | 2.1     | 6.0     | ---      | PACE |
| MW-5     | 10/21/93                     | 165.14                      | 20.41                 | ---                      | 144.73                           | 210         | 82      | 1.5     | ND<0.5  | 1.4     | ---      | PACE |
| MW-5     | 01/21/94                     | 165.14                      | 18.86                 | ---                      | 146.28                           | 110         | 36      | 1.2     | ND<0.5  | 0.7     | ---      | PACE |
| MW-5     | 04/20/94                     | 165.14                      | 17.30                 | ---                      | 147.84                           | 690         | 230     | 4.5     | 1.6     | 11      | 1.3      | PAGE |
| MW-5     | 08/01/94                     | 165.14                      | 17.53                 | ---                      | 147.61                           | 170         | 44      | 1.6     | 0.9     | 2.7     | 0.9      | PAGE |
| MW-6     | 07/09/90                     | 165.40                      | ---                   | ---                      | ---                              | ND          | ND      | ND      | ND      | ND      | ---      | ---  |
| MW-6     | 12/21/90                     | 165.40                      | ---                   | ---                      | ---                              | 0.17        | 2.6     | 7.0     | 4.9     | 26      | ---      | ---  |
| MW-6 (d) | 03/07/91                     | 165.40                      | ---                   | ---                      | ---                              | ---         | ---     | ---     | ---     | ---     | ---      | ---  |
| MW-6 (d) | 06/27/91                     | 165.40                      | ---                   | ---                      | ---                              | ---         | ---     | ---     | ---     | ---     | ---      | ---  |
| MW-6 (d) | 09/27/91                     | 165.40                      | ---                   | ---                      | ---                              | ---         | ---     | ---     | ---     | ---     | ---      | ---  |
| MW-6     | 12/18/91                     | 165.40                      | ---                   | ---                      | ---                              | ND          | 1.3     | 22      | ND      | 2.7     | ---      | ---  |
| MW-6     | 04/01/91                     | 165.40                      | 11.79                 | ---                      | 153.61                           | ND          | ND      | ND      | ND      | ND      | ---      | ---  |
| MW-6     | 07/03/92                     | 165.40                      | 17.77                 | ---                      | 147.63                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | ANA  |
| MW-6     | 10/05/92                     | 165.40                      | 19.46                 | ---                      | 145.94                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | ANA  |
| MW-6     | 01/13/93                     | 165.40                      | 11.34                 | ---                      | 154.06                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | PACE |
| MW-6     | 04/23/93                     | 165.40                      | 12.92                 | ---                      | 152.48                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | PAGE |
| MW-6     | 07/12/93                     | 165.40                      | 17.36                 | ---                      | 148.04                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | 0.7     | ---      | PAGE |
| MW-6     | 10/21/93                     | 165.40                      | 19.98                 | ---                      | 145.42                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | PAGE |
| MW-6     | 01/21/94                     | 165.40                      | 18.10                 | ---                      | 147.30                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | ---      | PAGE |
| MW-6     | 04/20/94                     | 165.40                      | 18.68                 | ---                      | 146.72                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | 2.0      | PAGE |
| MW-6     | 08/01/94                     | 165.40                      | 18.90                 | ---                      | 146.50                           | ND<50       | ND<0.5  | ND<0.5  | ND<0.5  | ND<0.5  | 1.5      | PAGE |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID  | DATE OF SAMPLING/<br>MONITORING | CASING ELEVATION (a)<br>(Feet) | DEPTH TO WATER<br>(Feet) | PRODUCT THICKNESS<br>(Feet) | GROUNDWATER ELEVATION (b)<br>(Feet) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | DO<br>(ppm) | LAB  |
|----------|---------------------------------|--------------------------------|--------------------------|-----------------------------|-------------------------------------|----------------|------------|------------|------------|------------|-------------|------|
| MW-7     | 07/09/90                        | 167.61                         | ---                      | ---                         | ---                                 | ND             | ND         | ND         | ND         | ND         | ---         | ---  |
| MW-7     | 12/21/90                        | 167.61                         | ---                      | ---                         | ---                                 | ND             | ND         | ND         | ND         | ND         | ---         | ---  |
| MW-7     | 03/07/91                        | 167.61                         | 19.04                    | ---                         | 148.57                              | ND             | ND         | 0.4        | 0.3        | 2.4        | ---         | ---  |
| MW-7     | 06/27/91                        | 167.61                         | ---                      | ---                         | ---                                 | 70             | 17         | 4          | 0.8        | 2.2        | ---         | ---  |
| MW-7     | 09/27/91                        | 167.61                         | ---                      | ---                         | ---                                 | ND             | 0.4        | ND         | ND         | 0.4        | ---         | ---  |
| MW-7     | 12/18/91                        | 167.61                         | ---                      | ---                         | ---                                 | ND             | 0.7        | 2.9        | 0.8        | 3.3        | ---         | ---  |
| MW-7     | 04/01/91                        | 167.61                         | 15.18                    | ---                         | 152.43                              | ND             | ND         | ND         | ND         | ND         | ---         | ---  |
| MW-7     | 07/03/92                        | 167.61                         | 20.28                    | ---                         | 147.33                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | ANA  |
| MW-7     | 10/05/92                        | 167.61                         | 21.56                    | ---                         | 146.05                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | 1.5        | ---         | ANA  |
| MW-7     | 01/13/93                        | 167.61                         | 15.41                    | ---                         | 152.20                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| MW-7     | 04/23/93                        | 167.61                         | 15.84                    | ---                         | 151.77                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| MW-7     | 07/12/93                        | 167.61                         | 19.84                    | ---                         | 147.77                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| MW-7     | 10/21/93                        | 167.61                         | 21.61                    | ---                         | 146.00                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| MW-7     | 01/21/94                        | 167.61                         | 20.49                    | ---                         | 147.12                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| QC-1 (c) | 01/21/94                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| MW-7     | 04/20/94                        | 167.61                         | 20.54                    | ---                         | 147.07                              | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | 1.5         | PACE |
| MW-7     | 08/01/94                        | 167.61                         | 20.99                    | ---                         | 146.62                              | ND<50          | 0.7        | ND<0.5     | ND<0.5     | ND<0.5     | 1.9         | PACE |
| MW-8     | 03/07/91                        | 165.74                         | 16.72                    | ---                         | 149.02                              | 2.7            | 780        | 450        | 64         | 310        | ---         | ---  |
| MW-8     | 06/27/91                        | 165.74                         | ---                      | ---                         | ---                                 | 12000          | 3400       | 1100       | 240        | 750        | ---         | ---  |
| MW-8     | 09/27/91                        | 165.74                         | ---                      | ---                         | ---                                 | 41             | 5700       | 5200       | 1100       | 4300       | ---         | ---  |
| MW-8     | 12/18/91                        | 165.74                         | ---                      | ---                         | ---                                 | 3.2            | 990        | 150        | 120        | 250        | ---         | ---  |
| MW-8     | 04/01/91                        | 165.74                         | 12.54                    | ---                         | 153.20                              | 15000          | 3600       | 2600       | 410        | 1900       | ---         | ---  |
| MW-8     | 07/03/92                        | 165.74                         | 18.78                    | ---                         | 146.96                              | 72000          | 19000      | 32000      | 3000       | 15000      | ---         | ANA  |
| MW-8     | 10/05/92                        | 165.74                         | 20.48                    | 0.01                        | 145.27                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 01/13/93                        | 165.74                         | 12.87                    | 0.01                        | 152.88                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 04/23/93                        | 165.74                         | 13.90                    | SHEEN                       | 151.84                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 07/12/93                        | 165.74                         | 18.30                    | SHEEN                       | 147.44                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 10/21/93                        | 165.74                         | 21.91                    | 0.95                        | 144.54                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 01/21/94                        | 165.74                         | 19.12                    | 0.03                        | 146.64                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-8     | 04/20/94                        | 165.74                         | 19.28                    | 0.03                        | 146.46                              | 26000          | 1700       | 4100       | 960        | 4000       | 1.1         | PACE |
| MW-8     | 08/01/94                        | 165.74                         | ---                      | ---                         | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID  | DATE OF SAMPLING/<br>MONITORING | CASING ELEVATION (a)<br>(Feet) | DEPTH TO WATER<br>(Feet) | PRODUCT THICKNESS<br>(Feet) | GROUNDWATER ELEVATION (b)<br>(Feet) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | DO<br>(ppm) | LAB  |
|----------|---------------------------------|--------------------------------|--------------------------|-----------------------------|-------------------------------------|----------------|------------|------------|------------|------------|-------------|------|
| MW-9     | 03/07/91                        | 166.20                         | 16.79                    | ---                         | 149.41                              | 7.1            | 220        | 4          | 2.4        | 2400       | ---         | ---  |
| MW-9     | 06/27/91                        | 166.20                         | ---                      | ---                         | ---                                 | 3600           | 520        | 400        | 85         | 310        | ---         | ---  |
| MW-9     | 09/27/91                        | 166.20                         | ---                      | ---                         | ---                                 | 3.2            | 720        | 150        | 50         | 180        | ---         | ---  |
| MW-9     | 12/18/91                        | 166.20                         | ---                      | ---                         | ---                                 | ND             | 2.5        | 1.1        | 0.3        | 5.8        | ---         | ---  |
| MW-9     | 04/01/91                        | 166.20                         | 12.89                    | ---                         | 153.31                              | 12000          | 2000       | 2600       | 360        | 1600       | ---         | ---  |
| MW-9     | 07/03/92                        | 166.20                         | 18.89                    | ---                         | 147.31                              | 5700           | 17000      | 840        | 230        | 800        | ---         | ANA  |
| MW-9     | 10/05/92                        | 166.20                         | 20.52                    | ---                         | 145.68                              | 1400           | 440        | 17         | 14         | 100        | ---         | ANA  |
| MW-9     | 01/13/93                        | 166.20                         | 12.92                    | ---                         | 153.28                              | 11000          | 1200       | 1700       | 340        | 1400       | ---         | PACE |
| QC-1 (c) | 01/13/93                        | ---                            | ---                      | ---                         | 0.00                                | 11000          | 1200       | 1600       | 330        | 1300       | ---         | PACE |
| MW-9     | 04/23/93                        | 166.20                         | 14.08                    | ---                         | 152.12                              | 24000          | 2800       | 4500       | 730        | 3400       | ---         | PACE |
| MW-9     | 07/12/93                        | 166.20                         | 18.44                    | ---                         | 147.76                              | 13000          | 1400       | 1100       | 360        | 1400       | ---         | PACE |
| QC-1 (c) | 07/12/93                        | ---                            | ---                      | ---                         | ---                                 | 10000          | 1200       | 900        | 310        | 1200       | ---         | PACE |
| MW-9     | 10/21/93                        | 166.20                         | 21.81                    | 0.89                        | 145.06                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-9     | 01/21/94                        | 166.20                         | 19.28                    | ---                         | 146.92                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-9     | 04/20/94                        | 166.20                         | 19.72                    | ---                         | 146.48                              | 43000          | 2800       | 6800       | 1300       | 7900       | 1.7         | PACE |
| QC-1 (c) | 04/20/94                        | ---                            | ---                      | ---                         | ---                                 | 45000          | 2700       | 6800       | 1200       | 8200       | ---         | PACE |
| MW-9     | 08/01/94                        | 166.20                         | 20.18                    | 0.05                        | 146.06                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 03/07/91                        | 167.01                         | 18.09                    | ---                         | 148.92                              | 1.6            | 120        | 190        | 32         | 230        | ---         | ---  |
| MW-10    | 06/27/91                        | 167.01                         | ---                      | ---                         | ---                                 | 12000          | 7300       | 500        | 150        | 300        | ---         | ---  |
| MW-10    | 09/27/91                        | 167.01                         | ---                      | ---                         | ---                                 | 57             | 12000      | 7200       | 1400       | 4600       | ---         | ---  |
| MW-10    | 12/18/91                        | 167.01                         | ---                      | ---                         | ---                                 | 5.3            | 2500       | 120        | 36         | 79         | ---         | ---  |
| MW-10    | 04/01/91                        | 167.01                         | 13.92                    | ---                         | 153.09                              | ND             | ND         | ND         | ND         | ND         | ---         | ---  |
| MW-10    | 07/03/92                        | 167.01                         | 19.92                    | ---                         | 147.09                              | 8600           | 5100       | 1300       | 180        | 690        | ---         | ANA  |
| MW-10    | 10/05/92                        | 167.01                         | 21.92                    | 0.19                        | 145.23                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 01/13/93                        | 167.01                         | 14.43                    | 0.03                        | 152.60                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 04/23/93                        | 167.01                         | 15.26                    | 0.06                        | 151.80                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 07/12/93                        | 167.01                         | 19.78                    | 0.45                        | 147.57                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 10/21/93                        | 167.01                         | 22.90                    | 0.69                        | 144.63                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 01/21/94                        | 167.01                         | 20.25                    | 0.06                        | 146.81                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| MW-10    | 04/20/94                        | 167.01                         | 20.74                    | ---                         | 146.27                              | 100000         | 12000      | 24000      | 2400       | 14000      | 1.0         | PACE |
| MW-10    | 08/01/94                        | 167.01                         | 22.00                    | 0.28                        | 145.22                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11132  
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

| WELL ID  | DATE OF SAMPLING/<br>MONITORING | CASING ELEVATION (a)<br>(Feet) | DEPTH TO WATER<br>(Feet) | PRODUCT THICKNESS<br>(Feet) | GROUNDWATER ELEVATION (b)<br>(Feet) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | DO<br>(ppm) | LAB  |
|----------|---------------------------------|--------------------------------|--------------------------|-----------------------------|-------------------------------------|----------------|------------|------------|------------|------------|-------------|------|
| RW-1     | 07/09/90                        | 168.01                         | ---                      | 1.21                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 12/21/90                        | 168.01                         | ---                      | 0.01                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 03/07/91                        | 168.01                         | 17.62                    | SHEEN                       | 150.39                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 06/27/91                        | 168.01                         | ---                      | 0.04                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 09/27/91                        | 168.01                         | ---                      | 0.02                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 12/18/91                        | 168.01                         | ---                      | 0.02                        | ---                                 | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 04/01/91                        | 168.01                         | 14.40                    | 0.11                        | 153.69                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 07/03/92                        | 168.01                         | 20.66                    | SHEEN                       | 147.35                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 10/05/92                        | 168.01                         | 23.34                    | 0.08                        | 144.73                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 01/13/93                        | 168.01                         | 16.59                    | 0.05                        | 151.46                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 04/23/93                        | 168.01                         | 16.17                    | 0.18                        | 151.98                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 07/12/93                        | 168.01                         | 20.18                    | 0.06                        | 147.88                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 10/21/93                        | 168.01                         | 25.70                    | 0.56                        | 142.73                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 01/21/94                        | 168.01                         | 21.24                    | 0.40                        | 147.07                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 04/20/94                        | 168.01                         | 32.20                    | ---                         | 135.81                              | ---            | ---        | ---        | ---        | ---        | ---         | ---  |
| RW-1     | 08/01/94                        | 168.01                         | 21.70                    | ---                         | 146.31                              | 29000          | 580        | 950        | 300        | 7800       | 1.1         | PACE |
| QC-2 (e) | 10/05/92                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | ANA  |
| QC-2 (e) | 01/13/93                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| QC-2 (e) | 04/23/93                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| QC-2 (e) | 07/12/93                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| QC-2 (e) | 10/21/93                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |
| QC-2 (e) | 01/21/94                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | 2.1        | ND<0.5     | 2.1        | ---         | PACE |
| QC-2 (e) | 04/20/94                        | ---                            | ---                      | ---                         | ---                                 | ND<50          | ND<0.5     | ND<0.5     | ND<0.5     | ND<0.5     | ---         | PACE |

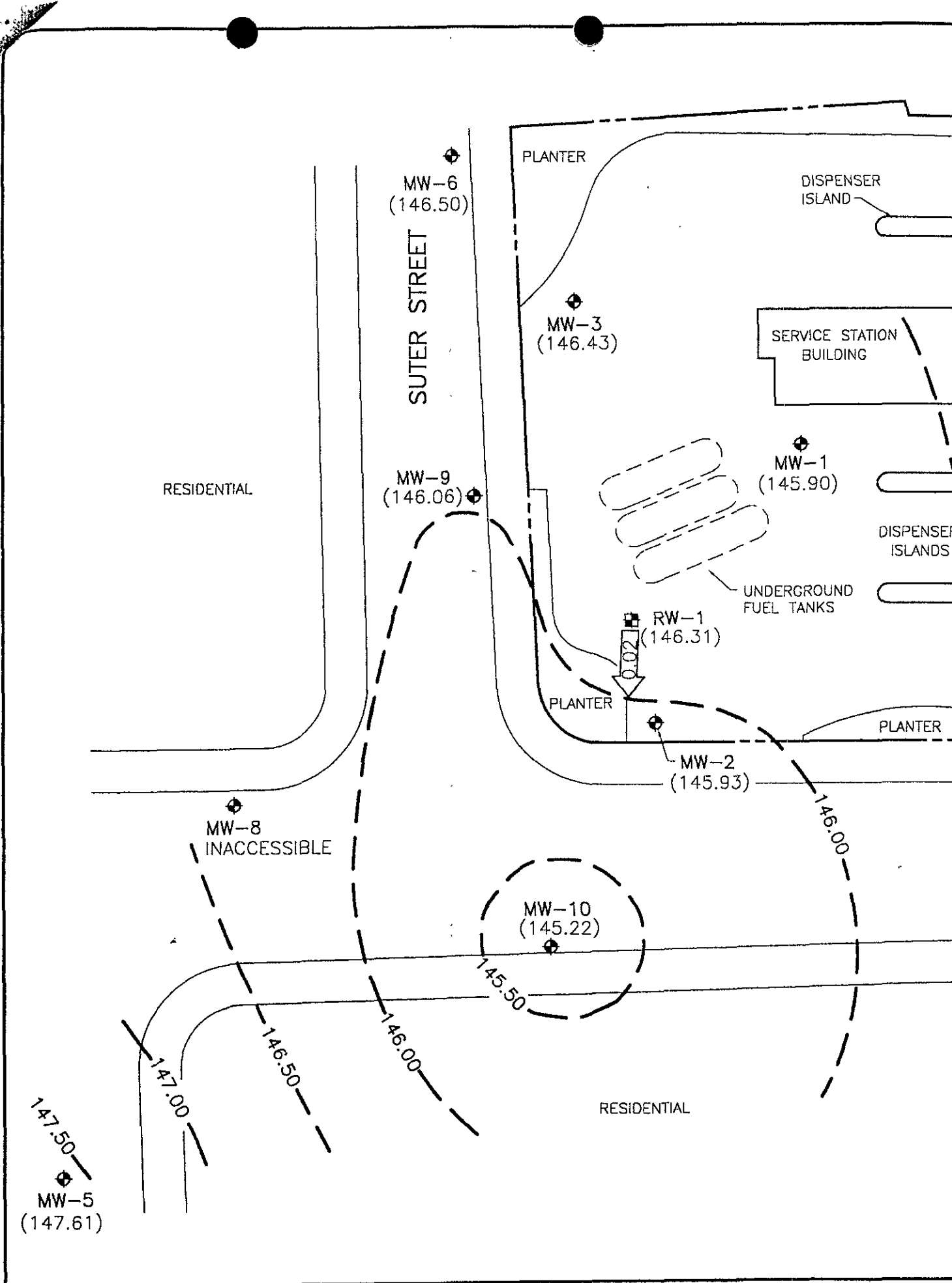
ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 DO Dissolved oxygen  
 ppb Parts per billion  
 ppm Parts per million  
 --- Not analyzed/available/applicable/measurable  
 ND Not detected above reported detection limit  
 ANA Anamatrix, Inc.  
 PACE Pace Inc.

NOTES:

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Blind duplicate.
- (d) Not sampled due to an abandoned vehicle parked over well.
- (e) Travel blank.





MW-6  
(146.50)

SUTER STREET

PLANTER

DISPENSER ISLAND

MW-3  
(146.43)

SERVICE STATION BUILDING

RESIDENTIAL

MW-9  
(146.06)

MW-1  
(145.90)

DISPENSER ISLANDS

UNDERGROUND FUEL TANKS

RW-1  
(146.31)

PLANTER

PLANTER

MW-2  
(145.93)

MW-8  
INACCESSIBLE

MW-10  
(145.22)

RESIDENTIAL

MW-5  
(147.61)

147.50

147.00

146.50

146.00

145.50

146.00



# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

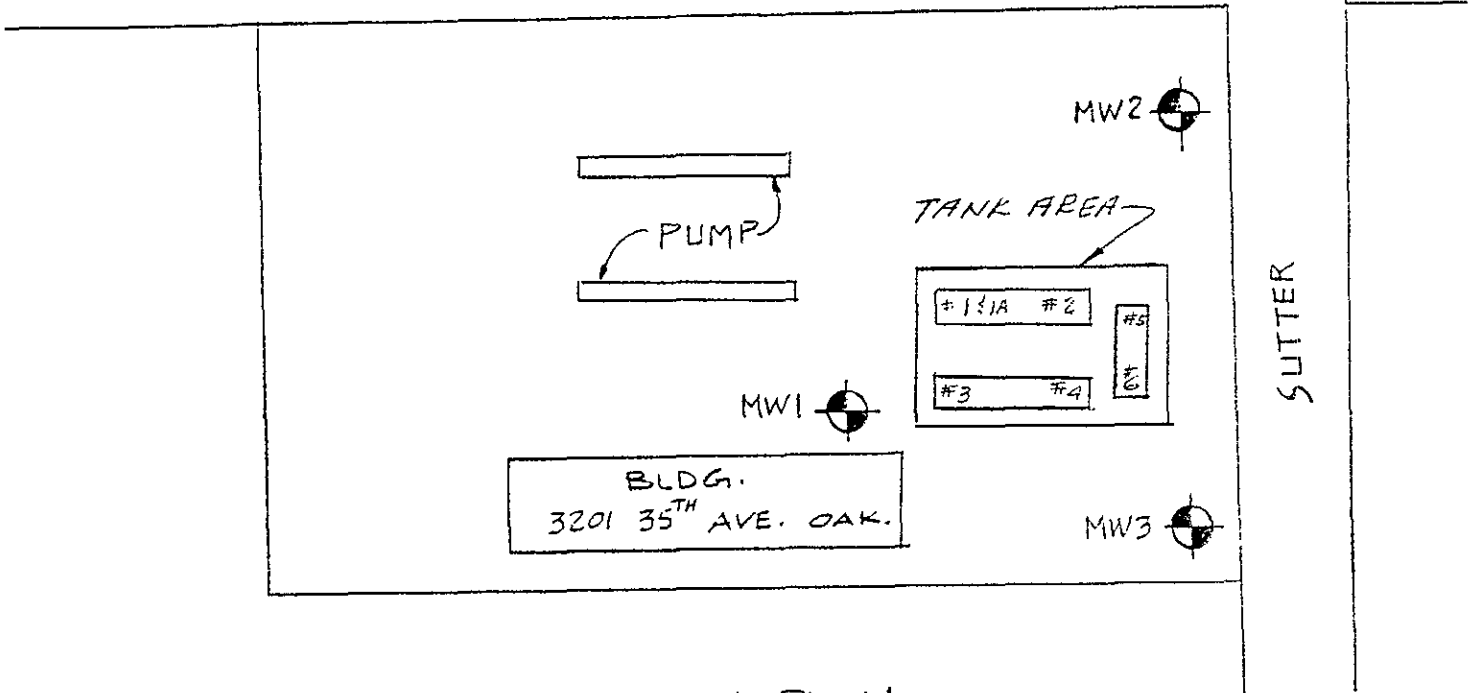
535 Main Street

Martinez, Ca. 94553

(415) 372-5444



35<sup>TH</sup> AVE.



LOCATION PLAN  
N.T.S.

 MW (MONITORING WELL)

| DRILL RIG Hollow Stem                         |                    | SURFACE ELEVATION ---- |              | LOGGED BY JCW                                 |                                       |                   |                   |                                   |
|---|--------------------|------------------------|--------------|---|---------------------------------------|-------------------|-------------------|-----------------------------------|
| DEPTH TO GROUNDWATER As Noted                 |                    | BORING DIAMETER 8"     |              | DATE DRILLED 7/30/86                          |                                       |                   |                   |                                   |
| DESCRIPTION AND CLASSIFICATION                |                    |                        | DEPTH (FEET) | SAMPLER                                       | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
| DESCRIPTION AND REMARKS                       | COLOR              | CONSIST.               |              |   |                                       |                   |                   |                                   |
| ASPHALT AND BASE ROCK                         |                    |                        |              |   |                                       |                   |                   |                                   |
| SILTY CLAY (FILL)                             | dark brown         | firm                   | CL           |   |                                       |                   |                   |                                   |
| SILTY SAND (old trench backfill)              | gray to tan        | loose                  | SM           |   |                                       |                   |                   |                                   |
| SILTY CLAY with rock fragments                | tan to light brown | fine to stiff          | CL           | 5   |                                       |                   |                   |                                   |
| Large angular cobbles                         |                    |                        |              |   |                                       |                   |                   |                                   |
| SANDY CLAY, grading to clayey sand and gravel | tan to light brown | very stiff             | CL-SC        | 10  |                                       |                   |                   |                                   |
| No product odor                               |                    |                        |              |   |                                       |                   |                   |                                   |
|   |                    |                        |              | 15  |                                       |                   |                   |                                   |
|   |                    |                        |              | 20  |                                       |                   |                   |                                   |
|   |                    |                        |              | <b>EXPLORATORY BORING LOG</b>                 |                                       |                   |                   |                                   |
|   |                    |                        |              | MOBIL OIL CORPORATION<br>35TH AVENUE, OAKLAND |                                       |                   |                   |                                   |
| PROJECT NO.                                   |                    | DATE                   |              | BORING NO.                                    |                                       |                   |                   |                                   |
| H182-20                                       |                    | 8/86                   |              | NO. MW-1                                      |                                       |                   |                   |                                   |

|                               |                        |                      |
|-------------------------------|------------------------|----------------------|
| DRILL RIG Hollow Stem         | SURFACE ELEVATION ---- | LOGGED BY JCW        |
| DEPTH TO GROUNDWATER As Noted | BORING DIAMETER 8"     | DATE DRILLED 7/30/86 |

| DESCRIPTION AND CLASSIFICATION   |       |          | DEPTH (FEET) | SAMPLER | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT.) |
|--|-------|----------|--------------|---------|---------------------------------------|-------------------|-------------------|------------------------------------|
| DESCRIPTION AND REMARKS  | COLOR | CONSIST. |              |         |                                       |                   |                   |                                    |
| SANDY CLAY, grading to clayey sand and gravel (contd)                    |       |          |              |         |                                       |                   |                   |                                    |
| SILTY CLAY, with some occasional sand and fine gravel<br>No product odor |       |          | 25           |         |                                       |                   |                   |                                    |
|  |       |          | 30           |         |                                       |                   |                   |                                    |
|  |       |          | 35           |         |                                       |                   |                   |                                    |
|  |       |          | 40           |         |                                       |                   |                   |                                    |

**EXPLORATORY BORING LOG**

MOBIL OIL CORPORATION  
35TH AVENUE, OAKLAND

PROJECT NO.

H182-20

DATE

8/86

BORING NO.

NO. MW-1

|                               |                         |                      |
|-------------------------------|-------------------------|----------------------|
| DRILL RIG Hollow Stem         | SURFACE ELEVATION ----- | LOGGED BY JCW        |
| DEPTH TO GROUNDWATER As Noted | BORING DIAMETER 8"      | DATE DRILLED 7/30/86 |

| DESCRIPTION AND CLASSIFICATION                                |       |         |           | DEPTH (FEET) | SAMPLER | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
|---|-------|---------|-----------|--------------|---------|---------------------------------------|-------------------|-------------------|-----------------------------------|
| DESCRIPTION AND REMARKS                                       | COLOR | CONSIST | SOIL TYPE |              |         |                                       |                   |                   |                                   |
| SILTY CLAY, with some occasional sand and fine gravel (Contd) |       |         | CL        | 45           |         |                                       |                   |                   |                                   |
| TOTAL DEPTH = 45.0 feet                                       |       |         |           |              |         |                                       |                   |                   |                                   |

|   |      |            |
|---|------|------------|
| <b>EXPLORATORY BORING LOG</b>                 |      |            |
| MOBIL OIL CORPORATION<br>35TH AVENUE, OAKLAND |      |            |
| PROJECT NO.                                   | DATE | BORING NO. |
| H182-20                                       | 8/86 | MW-1       |

MOBIL OIL CORPORATION  
OAKLAND, CALIFORNIA

MW-1



Well completed to 45.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 45.0 feet. 6 X 12 Monterey sand placed from 4.5 to 45.0 feet and concrete seal placed from 0 to 4.5 feet.

| DRILL RIG Hollow Stem                                     |                    |         | SURFACE ELEVATION ----- |              |         | LOGGED BY JCW                         |                   |                   |                                   |
|---|--------------------|---------|-------------------------|--------------|---------|---------------------------------------|-------------------|-------------------|-----------------------------------|
| DEPTH TO GROUNDWATER As Noted                             |                    |         | BORING DIAMETER 8"      |              |         | DATE DRILLED 7/31/86                  |                   |                   |                                   |
| DESCRIPTION AND CLASSIFICATION                            |                    |         |                         | DEPTH (FEET) | SAMPLER | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
| DESCRIPTION AND REMARKS                                   | COLOR              | CONSIST | SOIL TYPE               |              |         |                                       |                   |                   |                                   |
| ASPHALT AND BASE ROCK                                     |                    |         |                         |              |         |                                       |                   |                   |                                   |
| SILTY CLAY with rock fragments, dry                       | dark gray          | stiff   | CL                      |              |         |                                       |                   |                   |                                   |
| Decreasing rock fragments (very faint "old" product odor) | blue-green         |         |                         | 5            |         |                                       |                   |                   |                                   |
|   |                    |         |                         | 10           |         |                                       |                   |                   |                                   |
| Large angular gravel, damp<br>No product odor             |                    |         | GL-GC                   |              |         |                                       |                   |                   |                                   |
|   |                    |         |                         | 15           |         |                                       |                   |                   |                                   |
| SILTY CLAY; damp  | tan to light brown | stiff   | CL                      |              |         |                                       |                   |                   |                                   |
|   |                    |         |                         | 20           |         |                                       |                   |                   |                                   |

EXPLORATORY BORING LOG

MOBIL OIL CORPORATION  
35TH AVENUE, OAKLAND

|             |      |            |
|-------------|------|------------|
| PROJECT NO. | DATE | BORING NO. |
| H182-20     | 8/86 | MW-2       |

| DRILL RIG Hollow Stem  |                    | SURFACE ELEVATION ---- |           | LOGGED BY JCW                                 |   |                                       |   |                   |                                   |
|--|--------------------|------------------------|-----------|---|---|---------------------------------------|---|-------------------|-----------------------------------|
| DEPTH TO GROUNDWATER As Noted  |                    | BORING DIAMETER 8"     |           | DATE DRILLED 7/31/86                          |   |                                       |   |                   |                                   |
| DESCRIPTION AND CLASSIFICATION   |                    |                        |           | DEPTH (FEET)                                  | SAMPLER   | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%)   | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
| DESCRIPTION AND REMARKS  | COLOR              | CONSIST                | SOIL TYPE |   |   |                                       |   |                   |                                   |
| SILTY CLAY (CONTD)   | tan to light brown | stiff                  | CL        | 25  |  |                                       |  |                   |                                   |
| SILTY CLAY with some fine sand and gravel (faint odor in sample above water table) |                    | stiff                  | CL-SC     |   |   |                                       |   |                   |                                   |
| TOTAL DEPTH = 35.0 feet  |                    |                        |           | 35  |   |                                       |   |                   |                                   |
|  |                    |                        |           | <b>EXPLORATORY BORING LOG</b>                 |   |                                       |   |                   |                                   |
|  |                    |                        |           | MOBIL OIL CORPORATION<br>35TH AVENUE, OAKLAND |   |                                       |   |                   |                                   |
|  |                    |                        |           | PROJECT NO.                                   |   | DATE                                  |   | BORING NO.        |                                   |
|  |                    |                        |           | H182-20                                       |   | 8/86                                  |   | MW-2              |                                   |



MOBIL OIL CORPORATION  
OAKLAND, CALIFORNIA

MW-2

Well completed to 35.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 35.0 feet. No. 3 Monterey sand placed from 4.5 to 35.0 feet, bentonite pellets placed from 4.0 to 4.5 feet, and concrete seal placed from 0 to 4.5 feet.

| DRILL RIG Hollow Stem                                   |                    | SURFACE ELEVATION ----- |              | LOGGED BY JCW        |                                       |                   |                   |                                   |
|---|--------------------|-------------------------|--------------|----------------------|---------------------------------------|-------------------|-------------------|-----------------------------------|
| DEPTH TO GROUNDWATER As Noted                           |                    | BORING DIAMETER 8"      |              | DATE DRILLED 7/31/86 |                                       |                   |                   |                                   |
| DESCRIPTION AND CLASSIFICATION                          |                    |                         | DEPTH (FEET) | SAMPLER              | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
| DESCRIPTION AND REMARKS                                 | COLOR              | CONSIST                 | SOIL TYPE    |                      |                                       |                   |                   |                                   |
| ASPHALT AND BASE ROCK                                   |                    |                         |              |                      |                                       |                   |                   |                                   |
| SILTY CLAY with rock fragments                          | tan                | stiff                   | CL           |                      |                                       |                   |                   |                                   |
| Large angular cobbles                                   |                    | dense                   | CL-GC        | 5                    |                                       |                   |                   |                                   |
| SILTY CLAY, damp  | tan to light brown | stiff                   | CL           |                      |                                       |                   |                   |                                   |
| Trace of gravel; moisture in fissures (No product odor) |                    |                         |              | CL-GC                | 15                                    |                   |                   |                                   |
|   |                    |                         |              | 20                   |                                       |                   |                   |                                   |

EXPLORATORY BORING LOG

MOBIL OIL CORPORATION  
35TH AVENUE, OAKLAND

PROJECT NO.

H182-20

DATE

8/86

BORING NO.

MW-3

| DRILL RIG Hollow Stem                     |                    |              | SURFACE ELEVATION ----- |              | LOGGED BY JCW        |                                       |                   |                   |                                   |
|---|--------------------|--------------|-------------------------|--------------|----------------------|---------------------------------------|-------------------|-------------------|-----------------------------------|
| DEPTH TO GROUNDWATER As Noted             |                    |              | BORING DIAMETER 8"      |              | DATE DRILLED 7/31/86 |                                       |                   |                   |                                   |
| DESCRIPTION AND CLASSIFICATION            |                    |              |                         | DEPTH (FEET) | SAMPLER              | UNCONFINED COMPRESSIVE STRENGTH (KSF) | WATER CONTENT (%) | DRY DENSITY (PCF) | PENETRATION RESISTANCE (BLOWS/FT) |
| DESCRIPTION AND REMARKS                   | COLOR              | CONSIST      | SOIL TYPE               |              |                      |                                       |                   |                   |                                   |
| SILTY CLAY (CONTD) with a trace of gravel | tan to light brown | stiff        | CL                      |              |                      |                                       |                   |                   |                                   |
| No product odor                           |                    |              |                         |              |                      |                                       |                   |                   |                                   |
| Increasing gravel                         |                    | medium dense | CL GC                   |              |                      |                                       |                   |                   |                                   |
| Decreasing gravel                         |                    | hard         | CL                      |              |                      |                                       |                   |                   |                                   |
| Gravelly, increasing toward total depth   |                    |              | CL GC                   | 35           |                      |                                       |                   |                   |                                   |
| TOTAL DEPTH = 35.0 feet                   |                    |              |                         |              |                      |                                       |                   |                   |                                   |

EXPLORATORY BORING LOG

MOBIL OIL CORPORATION  
35TH AVENUE, OAKLAND

PROJECT NO.

H182-20

DATE

8/86

BORING

NO MW-3

MOBIL OIL CORPORATION  
OAKLAND, CALIFORNIA

MW-3

Well completed to 35.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 35.0 feet. No. 3 Monterey sand placed from 5.5 to 35.0 feet, bentonite pellets placed from 5.0 to 5.5 feet, and concrete seal placed from 0 to 5.0 feet.

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90  
 CLIENT BP OIL COMPANY  
 LOCATION 3201 35TH AVENUE, OAKLAND, CA  
 LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
 WELL NO.  
 MW-4

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 170.34

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"  
 SAMPLER TYPE MODIFIED SPLIT SPOON  
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
 DRILLER WEST HAZMAT

| BLOWS PER FOOT (M) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BOPING CLOSURE | USCS | PROFILE | DESCRIPTION   |
|--------------------|-----------|--------|-------|-------------------------------------|------|---------|---|
|                    |           |        | 0     | Christy Box                         |      |         | ASPHALT   |
|                    |           |        | 2     | Portland Cement                     |      |         |   |
| 3,4,6              | 0         |        | 6     | Bentonite Pellets                   | CL   |         | SILTY CLAY; greenish brown; damp, high plasticity stiff   |
| 10,28,35           | 0         |        | 10    | 2" sch. 40 PVC Casing               | CL   |         | SILTY CLAY; gravelly, greenish brown with rust stain residue, dry to damp, low to medium plasticity, hard |
| 10,17,28           | 0         |        | 16    |                                     | CL   |         | SILTY CLAY; gravelly, brown, dry to damp, low to medium plasticity hard                                   |
| 14,28,35           | 0         |        | 20    | 2" sch. 40 PVC .020 Slot            | CL   |         | SILTY CLAY; gravelly, brown rust residue, dry to damp, low plasticity, hard                               |
| 7,15,26            | 0         |        | 24    | Sand #3 Lonestar                    | CL   |         | SILTY CLAY; gravelly, brown, moist medium plasticity, hard  |
| 11,17,25           | 0         |        | 30    |                                     | CL   |         | SILTY CLAY; very gravelly, brown wet, medium plasticity   |

WATER LEVEL 26.87

DATE July 9, 1990

TIME

DESCRIPTION

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90  
 CLIENT BP OIL COMPANY  
 LOCATION 3201 35TH AVENUE, OAKLAND, CA  
 LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
 WELL NO.  
 MW-4

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"  
 SAMPLER TYPE MODIFIED SPLIT SPOON  
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION \_\_\_\_\_

| BLOWS PER FOOT (N) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BOPING CLOSURE | UBCS | PROFILE | WATER LEVEL   |
|--------------------|-----------|--------|-------|-------------------------------------|------|---------|---|
|                    |           |        |       |                                     |      |         | DATE  |
|                    |           |        |       |                                     |      |         | TIME  |
|                    |           |        |       |                                     |      |         | DESCRIPTION   |
| 8, 18, 34          | 0         |        | 36    | 2" sch. 40 PVC .020 Slot<br>End Cap | CL   |         | SILTY CLAY; gravelly, brown, dry to damp              |
|                    |           |        | 38    |                                     |      |         | SILTY CLAY; gravelly, brown, moist, medium plasticity |
| 15, 28, 38         | 0         |        | 40    |                                     |      |         |   |
|                    |           |        | 42    |                                     |      |         |   |
|                    |           |        | 44    |                                     |      |         |   |
|                    |           |        | 46    |                                     |      |         |   |
|                    |           |        | 48    |                                     |      |         |   |
|                    |           |        | 50    |                                     |      |         |   |

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING




PROJECT NO. 30-081 DATE DRILLED 2/1/90  
 CLIENT BP OIL COMPANY  
 LOCATION 3201 35TH AVENUE, OAKLAND, CA  
 LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
 WELL NO.  
 MW-5

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"  
 SAMPLER TYPE MODIFIED SPLIT SPOON  
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 165.14

| BLOWS PER FOOT(N) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BORING CLOSURE | USCS | PROFILE | WATER LEVEL  |
|-------------------|-----------|--------|-------|-------------------------------------|------|---------|--|
|                   |           |        |       |                                     |      |         | 24.75  |
|                   |           |        |       |                                     |      |         | DATE July 9, 1990  |
|                   |           |        |       |                                     |      |         | TIME   |
|                   |           |        |       |                                     |      |         | DESCRIPTION  |
|                   |           |        | 0     | Christy Box                         |      |         | ASPHALT  |
|                   |           |        | 2     | Portland Cement                     |      |         |  |
| 13,23, 35         | 0         |        | 4-6   | Bentonite Pellets                   | CL   |         | SANDY CLAY; gravelly, brown, damp, low plasticity hard   |
| 11,25, 39         | 0         |        | 10-12 | 2" sch. 40 PVC Casing               | CL   |         | SILTY CLAY; gravelly, greenish brown, damp, low plasticity, gas odor present hard  |
| 8,11, 21          | 0         |        | 16-18 | 2" sch. 40 PVC .020 Slot            | CL   |         | SILTY CLAY; gravelly, greenish brown, moist medium plasticity, gas odor hard   |
| 8,23, 33          | 0         |        | 20-22 |                                     | CL   |         | SILTY CLAY; sandy and gravel, greenish brown, moist medium plasticity, gas odor hard   |
| 4,7,13            | 0         |        | 24-26 | Sand #3 Lonestar                    | CL   |         |  SILTY CLAY; gravelly, reddish brown, moist to saturated medium plasticity very stiff |
| 4,5,8             | 0         |        | 30-32 |                                     | CL   |         | SILTY CLAY; with fine sand, tan, damp to medium high plasticity, stiff   |
| 14,17, 22         | 0         |        | 34    | End Cap                             | CL   |         | SILTY CLAY; gravelly, reddish brown moist high plasticity, hard  |

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING




PROJECT NO. 30-081 DATE DRILLED 2/1/90  
CLIENT BP OIL COMPANY  
LOCATION 3201 35TH AVENUE, OAKLAND, CA  
LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
WELL NO.  
MW-6

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"  
SAMPLER TYPE MODIFIED SPLIT SPOON  
CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 165.38

| BLOWS PER FOOT (B) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BORING CLOSURE | USCS | PROFILE | WATER LEVEL   |
|--------------------|-----------|--------|-------|-------------------------------------|------|---------|---|
|                    |           |        |       |                                     |      |         | 24.75   |
|                    |           |        |       |                                     |      |         | DATE  |
|                    |           |        |       |                                     |      |         | July 9, 1990  |
|                    |           |        |       |                                     |      |         | TIME  |
|                    |           |        |       |                                     |      |         | DESCRIPTION   |
|                    |           |        | 0     | Christy Box                         |      |         | ASPHALT   |
|                    |           |        | 2     | Portland Cement                     |      |         |   |
| 10,12, 15          | 0         |        | 6     | Bentonite Pellets                   | CH   |         | SILTY CLAY; gravelly, redish brown, damp, high plasticity, very stiff   |
| 8,15, 23           | 0         |        | 10    |                                     | CH   |         | SILTY CLAY; gravelly, reddish brown moist, high plasticity, hard  |
| 5,12, 18           | 0         |        | 12    | 2" sch. 40 PVC Casing               | CH   |         | SILTY CLAY; gravelly, brown, moist medium high plasticity, very stiff   |
| 11,15, 15          | 0         |        | 16    | 2" sch. 40 PVC .020 Slot            | CH   |         | SILTY CLAY; gravelly, brown, moist to saturated very stiff  |
| 23-30, 50/4"       | 0         |        | 24    | Sand #3 Lonestar                    |      |         |  NO RECOVERY; large cobble or rock obstruction |
| 6,13,17            | 0         |        | 30    |                                     |      |         | NO RECOVERY; same   |
| 21,29, 35          | 0         |        | 34    | End Cap                             | CL   |         | drilled to 35' w/o sample recovery<br>SILTY CLAY; gravelly saturated moist, brown, hard   |



ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-081 DATE DRILLED 2/1/9  
CLIENT BP OIL COMPANY  
LOCATION 3201 35TH AVENUE, OAKLAND, CA  
LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
WELL NO.  
MW-7

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 167.61

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"  
SAMPLER TYPE MODIFIED SPLIT  
CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
DRILLER WEST HAZMAT

| BLOWS PER FOOT (N) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BORING CLOSURE | USCS | PROFILE | WATER LEVEL  |
|--------------------|-----------|--------|-------|-------------------------------------|------|---------|--|
|                    |           |        |       |                                     |      |         | 27.29  |
|                    |           |        |       |                                     |      |         | DATE   |
|                    |           |        |       |                                     |      |         | JULY 9, 1990   |
|                    |           |        |       |                                     |      |         | DESCRIPTION  |
|                    |           |        | 0     | Christy Box                         |      |         | ASPHALT  |
|                    |           |        | 2     | Portland Cement                     |      |         |  |
|                    |           |        | 4     |                                     | CH   |         | SILTY CLAY; brown, damp, high plasticity, very stiff                 |
| 14,14, 15          | 0         |        | 6     | Bentonite Pellets                   |      |         |  |
|                    |           |        | 8     |                                     | CL   |         | SILTY CLAY; gravelly, reddish brown damp medium plasticity, hard     |
| 11,27, 39          | 0         |        | 10    |                                     | CL   |         |  |
|                    |           |        | 12    | 2" sch. 40 PVC Casing               |      |         |  |
|                    |           |        | 14    |                                     | CL   |         | SILTY CLAY; gravelly, reddish brown, damp, hard                      |
| 15,21, 29          | 0         |        | 16    | 2" sch. 40 PVC .020 Slot            |      |         |  |
|                    |           |        | 18    |                                     | CL   |         | SILTY CLAY; gravelly, brown, moist medium plasticity, hard           |
| 36,15, 50/5"       | 0         |        | 20    |                                     | CL   |         |  |
|                    |           |        | 22    |                                     | CL   |         |  |
|                    |           |        | 24    | Sand #3 Lonestar                    |      |         |  |
| 8,15,21            | 0         |        | 26    |                                     | CL   |         | SILTY CLAY; gravelly, brown, moist medium plasticity, hard           |
|                    |           |        | 28    |                                     |      |         | ∇  |
|                    |           |        | 30    |                                     | CL   |         | SILTY CLAY; gravelly, brown, saturated medium plasticity, very stiff |
|                    |           |        | 32    |                                     |      |         |  |
| 4,7,10             | 0         |        | 34    |                                     | CH   |         | SILTY CLAY; tannish brown, moist high plasticity, very stiff         |

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90  
CLIENT BP OIL COMPANY  
LOCATION 3201 35TH AVENUE, OAKLAND, CA  
LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
WELL NO.  
RW-1

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 168.01

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 12"  
SAMPLER TYPE \_\_\_\_\_  
CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
DRILLER WEST HAZMAT

| BLOWG PER FOOT (N) | CGI (PPM) | SAMPLE | DEPTH | WELL CONSTRUCTION OR BORING CLOSURE | USCS | PROFILE | WATER LEVEL  |
|--------------------|-----------|--------|-------|-------------------------------------|------|---------|--|
|                    |           |        |       |                                     |      |         | 27.93  |
|                    |           |        |       |                                     |      |         | DATE   |
|                    |           |        |       |                                     |      |         | July 9, 1990   |
|                    |           |        |       |                                     |      |         | TIME   |
|                    |           |        |       |                                     |      |         |  |
|                    |           |        |       |                                     |      |         | DESCRIPTION  |
|                    |           |        | 0     | Christy Box                         |      |         | ASPHALT  |
|                    |           |        | 2     | Portland Cement                     |      |         | SILTY CLAY; gravels, brown, damp, backfill   |
|                    |           |        | 4     |                                     | CL   |         | SILTY CLAY; gravelly, greenish brown, dry to damp, low plasticity, odor present    |
| 9,19,33            | 0         |        | 6     | Bentonite Pellets                   |      |         |  |
|                    |           |        | 8     |                                     | CL   |         | SILTY CLAY; gravelly, greenish brown, dry to damp, medium plasticity, odor present |
| 16,33,40           | 0         |        | 10    |                                     |      |         |  |
|                    |           |        | 12    | 6" sch. 40 PVC Casing               |      |         |  |
|                    |           |        | 14    |                                     | CL   |         | SILTY CLAY; gravelly, brown, damp, medium odor present                             |
| 15,36,43           | 0         |        | 16    | 6" sch. 40 PVC .020 Slot            |      |         |  |
|                    |           |        | 18    |                                     | CL   |         | SILTY CLAY; gravelly, brown, damp, medium plasticity, odor present                 |
|                    |           |        | 20    |                                     |      |         |  |
| .11,16,25          | 0         |        | 22    |                                     | CL   |         | SILTY CLAY; sandy gravelly, greenish brown, medium plasticity                      |
| 6,7,16             | 0         |        | 24    | Sand #3 Lonestar                    |      |         |  |
|                    |           |        | 26    |                                     | CL   |         |  |
|                    |           |        | 28    |                                     |      |         |  |
| 6,13,17            | 0         |        | 30    |                                     | CL   |         | SILTY CLAY; gravelly, sandy (fine) brown, saturated very stiff                     |
|                    |           |        | 32    |                                     |      |         |  |
|                    |           |        | 34    |                                     |      |         |  |

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90  
 CLIENT BP OIL COMPANY  
 LOCATION 3201 35TH AVENUE, OAKLAND, CA  
 LOGGED BY M. TAYLOR APPROVED BY \_\_\_\_\_

BORING NO.  
  
 WELL NO.  
  
 RW-1

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 10"  
 SAMPLER TYPE MODIFIED SPLIT SPOON  
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL  
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION \_\_\_\_\_

| BLOWS PER<br>FOOT (W) | CGI (PPM) | SAMPLE | DEPTH | WELL<br>CONSTRUCTION<br>OR BORING<br>CLOSURE                | USCS | PROFILE | WATER LEVEL  |
|-----------------------|-----------|--------|-------|---|------|---------|--|
|                       |           |        |       |   |      |         | DATE   |
|                       |           |        |       |   |      |         | TIME   |
|                       |           |        |       |   |      |         | DESCRIPTION  |
| 6, 16,<br>29          | 0         |        | 36    | <p>2"<br/>sch. 40<br/>PVC<br/>.020<br/>Slot<br/>End Cap</p> | CL   |         | SILTY CLAY; gravelly, sandy (fine) brown, saturated,<br>medium high plasticity, hard |
|                       |           | 38     |       |   |      |         |  |
| 6, 15,<br>28          |           |        | 40    |   |      |         |  |