# Appendix C
# Water Chemistry Data

**INDUSTRIAL LIGHT METALS SITE**

Summary of Groundwater Analytical Results – VOCs

Summary of Groundwater Analytical Results – Total Petroleum Hydrocarbons

Summary of Groundwater Analytical Results – Metals

Summary of Natural Attenuation Parameters

**DEL AMO STUDY AREA**

Trilinear Piper Diagrams

**INDUSTRIAL LIGHT METALS SITE**

Summary of Groundwater Analytical Results – VOCs

# TABLE 4.6

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2- Dichloro-propane | Trans-1,2- DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | 1,1,2-TCA | 1,2-DCA |
| P-1 | 1/24/95 | 22,000 | 38 | 0.53 | 9.7 | 0.74 | 1.3 | ND(0.5) | 64 | ND(0.5) | 2.2 | NA | ND(0.5) | 30 | 12 | 1.8 | 11 | ND(0.5) | ND(0.5) | ND(0.5) |
| | 3/17/95 | 23,000 | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | NA | ND(600) | ND(600) | ND(600) | ND(600) | ND(1,000) | ND(100) | ND(600) | ND(600) |
| | 12/27/95 | 24,000 | ND(600) | ND(0.5) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(1,000) | ND(100) | ND(600) | ND(600) |
| | 12/27/95(D) | 23,000 | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(600) | ND(1,000) | ND(100) | ND(600) | ND(600) |
| | 3/19/96 | 22,000 | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(3,000) | ND(300) | ND(2,000) | ND(2,000) |
| | 6/26/96 | 24,000 | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(2,000) | ND(200) | ND(900) | ND(900) |
| | 6/26/96(D) | 23,000 | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(900) | ND(2,000) | ND(200) | ND(900) | ND(900) |
| | 9/18/96 | 23,000 | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(2,000) | ND(4,000) | ND(400) | ND(2,000) | ND(2,000) |
| | 7/10/97 | 15,000 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1,000) | ND(200) | ND(500) | ND(500) |
| | 7/10/97(D) | 15,000 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1,000) | ND(200) | ND(500) | ND(500) |
| | 3/4/99 | 8,100 | 83 | 1.7 | 10 | ND(0.5) | ND(0.5) | ND(0.5) | 13 | ND(0.5) | 1.2 | 24 | ND(0.5) | ND(0.5) | 1.3 | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/16/99 | 10,000 | 78 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| P-2 | 1/27/95 | 87 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | NA | ND(3) | 100 | 20 | 7.2 | 60 | ND(3) | ND(3) | ND(3) |
| | 3/17/95 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | NA | ND(3) | ND(3) | ND(3) | ND(3) | 24 | ND(3) | ND(3) | ND(3) |
| | 12/27/95 | ND(5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 2.1 | ND(0.5) | 0.83 | 23 | ND(1) | ND(0.5) | ND(0.5) |
| | 3/19/96 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.5 | ND(0.1) | ND(0.5) | ND(0.5) |
| | 3/19/96(D) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 2.0 | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/20/96 | 0.52 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.2 | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/20/96(D) | 0.59 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.2 | ND(0.1) | ND(0.5) | ND(0.5) |
| | 9/17/96 | 0.92 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 7/8/97 | 11 | 7.9 | ND(0.5) | 19 | 110 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 9.2 | ND(0.5) | 1.1 | ND(0.5) | ND(0.5) | 1.6 | ND(0.2) | ND(0.5) | ND(0.5) |
| | 3/2/99 | 0.70 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/13/99 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| P-3 | 1/24/95 | 140 | ND(0.5) | ND(0.5) | 1.6 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 3/17/95 | 26 | ND(0.5) | ND(0.5) | 1.1 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 12/20/95 | 50 | ND(0.5) | ND(0.5) | 1.8 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 3/14/96 | 56 | ND(0.5) | ND(0.5) | 2.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/19/96 | 52 | ND(0.5) | ND(0.5) | 3.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 9/11/96 | 64 | ND(5) | ND(5) | 3.4 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| | 7/8/97 | 35 | ND(0.5) | ND(0.5) | 2.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.2) | ND(0.5) | ND(0.5) |
| | 3/2/99 | 39 | ND(0.5) | ND(0.5) | 2.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 62 | ND(2) | ND(2) | 2.7 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(4) | ND(2) | ND(2) | ND(2) |
| P-4 | 1/26/95 | 2,500 | ND(50) | ND(50) | 86 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | NA | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| | 3/17/95 | 2,200 | ND(60) | ND(60) | 77 | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | NA | ND(60) | ND(60) | ND(60) | ND(60) | ND(100) | ND(60) | ND(60) | ND(60) |
| | 12/21/95 | 3,400 | ND(100) | ND(600) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/18/96 | 3,500 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(30) | ND(30) | ND(200) | ND(200) |
| | 9/16/96 | 3,500 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 7/9/97 | 1,500 | 39 | ND(30) | 71 | 54 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(10) | ND(30) | ND(30) |
| | | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |

BOE-C6-0210531

# TABLE 4.6

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2- Dichloro-propane | Trans-1,2- DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | 1,1,2-TCA | 1,2-DCA |
| P-5 | 1/26/95 | 27 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | NA | ND(3) | 23 | 6.9 | ND(3) | 10 | ND(3) | ND(3) | ND(3) |
| | 3/17/95 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | NA | ND(3) | ND(3) | ND(3) | ND(3) | ND(6) | ND(3) | ND(3) | ND(3) |
| | 12/27/95 | 2.5 | ND(0.5) | 0.62 | 0.87 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.81 | 0.51 | 190 | ND(0.5) | ND(0.5) | 3.2 | ND(0.5) | 2.2 | ND(1) | ND(0.5) | ND(0.5) |
| | 3/19/96 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | 180 | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | 11 | ND(5) | ND(5) |
| | 6/25/96 | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | 140 | ND(7) | ND(7) | ND(7) | ND(7) | ND(20) | 23 | ND(7) | ND(7) |
| | 9/17/96 | 1.1 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.56 | ND(0.5) | ND(1) | 34 | ND(0.5) | ND(0.5) |
| | 9/17/96(D) | 1.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.58 | ND(0.5) | ND(1) | 30 | ND(0.5) | ND(0.5) |
| P-6 | 3/16/95 | 510 | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | NA | ND(10) | ND(10) | ND(10) | ND(10) | ND(20) | ND(2) | ND(10) | ND(10) |
| | 12/20/95 | 570 | 18 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 3/18/96 | 510 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(50) | ND(5) | ND(30) | ND(30) |
| | 6/20/96 | 500 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(5) | ND(30) | ND(30) |
| | 9/12/96 | 520 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 7/9/97 | 530.0 | ND(10) | ND(10) | ND(10) | 13.0 | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(20) | ND(5) | ND(10) | ND(10) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-6B | 3/3/99 | 280 | 7.4 | ND(0.5) | 1.2 | ND(0.5) | ND(0.5) | ND(0.5) | 0.94 | ND(0.5) | ND(0.5) | 1.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 420 | 7.8 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| P-7 | 3/17/95 | 2,500 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | NA | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/17/95(D) | 2,400 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | NA | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 12/21/95 | 1,700 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(10) | ND(50) | ND(50) |
| | 3/18/96 | 1,500 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(10) | ND(50) | ND(50) |
| | 6/24/96 | 1,700 | ND(70) | ND(200) | ND(200) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(200) | ND(200) | ND(70) | ND(70) | ND(70) | ND(200) | ND(20) | ND(200) | ND(200) |
| | 9/16/96 | 1,700 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(10) | ND(50) | ND(50) |
| | 7/9/97 | 3,200 | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(200) | ND(30) | ND(70) | ND(70) |
| | 3/4/99 | 900 | 13 | 2.2 | 7.8 | 7.2 | ND(0.5) | ND(0.5) | 12 | ND(0.5) | 3.3 | 75 | ND(0.5) | ND(0.5) | 0.61 | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 1,100 | 9.7 | ND(5) | 6.8 | 6.4 | ND(5) | ND(5) | 10 | ND(5) | ND(5) | 85 | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| P-8 | 3/16/95 | 3,100 | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | ND(60) | NA | ND(60) | ND(60) | ND(60) | ND(60) | ND(100) | ND(10) | ND(60) | ND(60) |
| | WELL ABANDONED 8/96 | | | | | | | | | | | | | | | | | | | |
| P-9 | 3/16/95 | 910 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | NA | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(6) | ND(30) | ND(30) |
| | 12/20/95 | 1,100 | ND(5) | ND(5) | 6.2 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 3/18/96 | 1,100 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(10) | ND(50) | ND(50) |
| | 6/26/96 | 1,300 | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(40) | ND(80) | ND(8) | ND(40) | ND(40) |
| | 9/12/96 | 1,200 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 7/9/97 | 1000 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(10) | ND(30) | ND(30) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-9B | 3/3/99 | 280 | 1.70 | ND(0.5) | 4.50 | ND(0.5) | ND(0.5) | ND(0.5) | 2.20 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 410 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| P-10 | 3/16/95 | 2.8 | ND(0.5) | ND(0.5) | 0.64 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 12/19/95 | 1.2 | ND(0.5) | 0.60 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 3/14/96 | 0.62 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/18/96 | 1.2 | ND(0.5) | ND(0.5) | 0.55 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 9/11/96 | 0.74 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| | 7/8/97 | 3.4 | 1.2 | ND(0.5) | 2.9 | 13 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.2) | ND(0.5) | ND(0.5) |
| | 3/1/99 | 3.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/13/99 | 3.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |

BOE-C6-0210532

# TABLE 4.6

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2- Dichloro-propane | Trans-1,2- DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | 1,1,2-TCA | 1,2-DCA |
| P-11 | 12/27/95 | 1.8 | 0.57 | ND(0.5) | ND(0.5) | ND(0.5) | 1.5 | ND(0.5) | 1.9 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 3/14/96 | 1.6 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.88 | ND(0.5) | 1.4 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/19/96 | 7.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.94 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 9/11/96 | 2.8 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | 0.97 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 7/8/97 | 4.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.2) | ND(0.5) | ND(0.5) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-12 | 12/21/95 | 10,000 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(200) |
| | 3/19/96 | 8,500 | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(700) | ND(70) | ND(400) | ND(700) |
| | 6/26/96 | 9,200 | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(800) | ND(80) | ND(400) | ND(800) |
| | 6/26/96(D) | 9,400 | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(800) | ND(80) | ND(400) | ND(800) |
| | 9/18/96 | 5,000 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(300) |
| | 7/10/97 | 3,000 | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(200) | ND(30) | ND(70) | ND(200) |
| | 3/3/99 | 1,500 | 1.5 | 31 | 29 | 8.9 | ND(0.5) | ND(0.5) | 31 | 2.9 | ND(0.5) | 2.9 | ND(0.5) | ND(0.5) | 6.7 | ND(0.5) | ND(1) | ND(0.5) | 1.6 | 0.54 |
| | WELL DAMAGED 7/99 | | | | | | | | | | | | | | | | | | | |
| P-13 | 12/21/95 | 160 | ND(5) | ND(5) | 5.6 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 3/14/96 | 160 | 3.0 | ND(0.5) | 5.7 | ND(0.5) | ND(0.5) | ND(0.5) | 1.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/19/96 | 160 | 3.7 | 6.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.5 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 9/11/96 | 170 | ND(5) | ND(5) | 5.2 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| | 7/8/97 | 240 | ND(5) | ND(5) | 6.2 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(2) | ND(5) | ND(5) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-14 | 12/21/95 | 6,300 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | 40 | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 3/19/96 | 5,900 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(500) | ND(50) | ND(300) | ND(300) |
| | 6/26/96 | 6,700 | ND(300) | ND(300) | ND(200) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(200) |
| | 9/17/96 | 5,400 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(300) |
| | 7/10/97 | 3,100 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(80) | ND(200) | ND(200) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-15 | 12/27/95 | 9,300 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(50) | ND(300) | ND(300) |
| | 3/19/96 | 9,200 | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(300) | ND(400) | ND(700) | ND(70) | ND(400) | ND(400) |
| | 6/26/96 | 9,800 | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(400) | ND(800) | ND(80) | ND(400) | ND(400) |
| | 9/18/96 | 8,200 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(300) |
| | 7/10/97 | 6,200 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(100) | ND(300) | ND(300) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-16A | 12/26/95 | 3,100 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/18/96 | 3,500 | 4.3 | 0.95 | 29 | 1.6 | ND(0.5) | ND(0.5) | 14 | ND(0.5) | ND(0.5) | 28 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 3/18/96(D) | 3,300 | ND | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(200) | ND(20) | ND(70) | ND(70) |
| | 6/25/96 | 3,800 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(300) |
| | 9/16/96 | 4,100 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 7/9/97 | 3,400 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(40) | ND(100) | ND(100) |
| | 3/4/99 | 370 | 9.5 | 0.62 | 14 | 1.7 | ND(0.5) | ND(0.5) | 3.4 | ND(0.5) | 0.56 | 8.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 530 | 7.5 | ND(5) | 12 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | 6.2 | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |

BOE-C6-0210533

# TABLE 4.6

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2- Dichloro-propane | Trans-1,2- DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | 1,1,2-TCA | 1,2-DCA |
| P-16B | 12/19/95 | 48 | ND(0.5) | ND(0.5) | 5.3 | ND(0.5) | 8.0 | 1.5 | ND(0.5) | ND(0.5) | ND(0.5) | 0.94 | 8.4 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | 0.10 | ND(0.5) | ND(0.5) |
| | 12/19/95(D) | 51 | ND(0.5) | ND(0.5) | 5.8 | ND(0.5) | 7.8 | 1.6 | 6.3 | ND(0.5) | ND(0.5) | 1.1 | 8.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 3/18/96 | 49 | ND(0.5) | ND(0.5) | 6.6 | ND(0.5) | 5.7 | 1.1 | 5.8 | ND(0.5) | ND(0.5) | 1.0 | 5.8 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | 0.25 | ND(0.5) | ND(0.5) |
| | 6/24/96 | 480 | ND(1) | 1.2 | 61 | ND(1) | ND(1) | ND(1) | 1.6 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | ND(1) | ND(1) |
| | WELL DESTROYED 8/96 | | | | | | | | | | | | | | | | | | | |
| P-16C | 9/12/96 | 440 | ND(30) | ND(30) | 56 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 7/9/97 | 340 | ND(7) | ND(7) | 40 | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(7) | ND(20) | ND(3) | ND(7) | ND(7) |
| | 3/2/99 | 210 | 0.78 | 0.94 | 43 | ND(0.5) | ND(0.5) | ND(0.5) | 1.7 | ND(0.5) | ND(0.5) | 0.65 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 440 | ND(20) | ND(20) | 71 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(30) | ND(20) | ND(20) | ND(20) |
| P-17 | 12/21/95 | 13,000 | 700 | ND(30) | 340 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 3/19/96 | 12,000 | 780 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1000) | ND(100) | ND(500) | ND(500) |
| | 9/18/96 | 9,600 | 1,000 | ND(300) | 530 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(60) | ND(300) | ND(300) |
| | 7/10/97 | 6,900 | 1,300 | ND(300) | 690 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(100) | ND(300) | ND(300) |
| | 3/4/99 | 1,400 | 270 | 23 | 140 | 24 | ND(0.5) | ND(0.5) | 6.0 | ND(0.5) | 0.51 | 4.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 1,600 | 230 | 14 | 150 | 14 | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(30) | ND(10) | ND(10) | ND(10) |
| P-18 | 12/26/95 | 270 | ND(6) | ND(6) | 12 | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(6) | ND(10) | ND(1) | ND(6) | ND(6) |
| | 3/19/96 | 180 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(30) | ND(3) | ND(20) | ND(20) |
| | 9/12/96 | 200 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(40) | ND(4) | ND(20) | ND(20) |
| | 9/12/96(D) | 200 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(40) | ND(4) | ND(20) | ND(20) |
| | 7/8/97 | 180 | ND(5) | ND(5) | 5.0 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(2) | ND(5) | ND(5) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-19 | 12/26/95 | 4,400 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | 140 | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/19/96 | 4,500 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | 230 | ND(200) | ND(200) | ND(200) | ND(200) | ND(300) | ND(30) | ND(200) | ND(200) |
| | 6/25/96 | 4,900 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | 280 | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 9/17/96 | 4,300 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 7/9/97 | 170 | 2.3 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | 2.8 | ND(2) | ND(2) | ND(2) | ND(2) | ND(4) | ND(1) | ND(2) | ND(2) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-20 | 12/27/95 | 4,200 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/18/96 | 4,400 | 6.0 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | 12 | ND(5) | ND(5) | 5.1 | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 6/25/96 | 6,800 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 9/16/96 | 6,400 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 7/10/97 | 4,800 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(80) | ND(200) | ND(200) |
| | 3/4/99 | 6,900 | 17 | 0.59 | 8.2 | ND(0.5) | 0.65 | ND(0.5) | 24 | ND(0.5) | 1.7 | 22 | ND(0.5) | ND(0.5) | 2.3 | ND(0.5) | ND(1) | ND(0.5) | 7.5 | ND(0.5) |
| | 3/4/99(D)[2] | 6,800 | 15 | 0.55 | 7.8 | ND(0.5) | ND(0.5) | ND(0.5) | 23 | ND(0.5) | 1.7 | 21 | ND(0.5) | ND(0.5) | 2.1 | ND(0.5) | ND(1) | ND(0.5) | 7.3 | ND(0.5) |
| | 7/16/99 | 5,400 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| | 7/16/99(D)[2] | 5,200 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| P-21 | 12/26/95 | 4,400 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/18/96 | 4,200 | 83 | 53 | 150 | 27 | ND(5) | ND(5) | 19 | ND(5) | ND(5) | 780 | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 6/25/96 | 5,600 | ND(200) | ND(200) | 170 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | 320 | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 9/17/96 | 5,500 | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(200) | ND(400) | ND(40) | ND(200) | ND(200) |
| | 7/10/97 | 2,100 | ND(100) | ND(100) | ND(100) | 110 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(40) | ND(100) | ND(100) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

BOE-C6-0210534

# TABLE 4.6

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2- Dichloro-propane | Trans-1,2- DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | 1,1,2-TCA | 1,2-DCA |
| P-22 | 12/20/95 | 1,200 | 8.2 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 3/18/96 | 1,200 | 12 | ND(0.5) | 2.0 | ND(0.5) | ND(0.5) | ND(0.5) | 1.6 | ND(0.5) | ND(0.5) | 5.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/20/96 | 1,400 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| | 9/12/96 | 1,000 | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(70) | ND(200) | ND(20) | ND(70) | ND(70) |
| | 7/9/97 | 1,200 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(10) | ND(30) | ND(30) |
| | 3/3/99 | 1,100 | 30 | 1.5 | 18 | ND(0.5) | ND(0.5) | ND(0.5) | 8.4 | ND(0.5) | 0.59 | 18 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 1,300 | 19 | ND(10) | 14 | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | 12 | ND(10) | ND(10) | ND(10) | ND(10) | ND(30) | ND(10) | ND(10) | ND(10) |
| P-23 | 12/20/95 | 160 | 0.53 | 3.6 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.1 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 3/14/96 | 100 | 0.57 | ND(0.5) | 0.60 | ND(0.5) | ND(0.5) | ND(0.5) | 0.83 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.1) | ND(0.5) | ND(0.5) |
| | 6/20/96 | 100 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 9/11/96 | 96 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| | 7/8/97 | 89 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(5) | ND(1) | ND(3) | ND(3) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-24 | 12/20/95 | 430 | ND(5) | ND(5) | 5.4 | ND(5) | ND(5) | ND(5) | 7.6 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(1) | ND(5) | ND(5) |
| | 3/19/96 | 380 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) |
| | 6/24/96 | 330 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(40) | ND(4) | ND(20) | ND(20) |
| | 9/17/96 | 320 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(40) | ND(4) | ND(20) | ND(20) |
| | 9/17/96(D) | 350 | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) - | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(30) | ND(60) | ND(6) | ND(30) | ND(30) |
| | 7/9/97 | 120 | ND(3) | ND(3) | 15 | 72 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | 10 | ND(3) | ND(3) | ND(3) | ND(3) | ND(6) | ND(3) | ND(3) | ND(3) |
| | 3/3/99 | 210 | 0.99 | ND(0.5) | 1.4 | ND(0.5) | ND(0.5) | ND(0.5) | 6.7 | ND(0.5) | ND(0.5) | 0.75 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 210 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | 4.8 | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(3) | ND(5) | ND(3) | ND(3) | ND(3) |
| P-25 | 12/26/95 | 14,000 | 6,900 | 500 | 2,000 | 1,300 | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(100) | ND(200) | ND(20) | ND(100) | ND(100) |
| | 3/19/96 | 15,000 | 4,800 | ND(700) | 1,800 | 730 | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(700) | ND(2,000) | ND(200) | ND(700) | ND(700) |
| | 6/26/96 | 16,000 | 4,700 | ND(500) | 1,600 | 760 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1,000) | ND(100) | ND(500) | ND(500) |
| | 9/18/96 | 14,000 | 3,300 | ND(500) | 1,200 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1,000) | ND(100) | ND(500) | ND(500) |
| | 7/10/97 | 13,000 | 2,100 | ND(300) | 910 | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(300) | ND(600) | ND(100) | ND(300) | ND(300) |
| | 7/10/97(D) | 12,000 | 1,800 | ND(500) | 810 | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(500) | ND(1,000) | ND(200) | ND(500) | ND(500) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

99-200/Rpts/DrGrWaRcFa (11/19/99/rm)

[1] Only detected analytes are reported in table (except for three analytes detected [sec-butylbenzene, isopropylbenzene and p-isopropyltoluene] in Well P-2 since they are not considered COCs); results of all analyses are reported in laboratory reports.

[2] Duplicate sample for P-20 is identified as P-29 in laboratory reports.

[3] Duplicate sample for P-20 is identified as P-30 in laboratory reports.

µg/L Micrograms per liter
ND( ) Analyte not detected above the practical quantitation limit (in parentheses)
(D) Duplicate sample
TCE Trichloroethene
PCE Tetrachloroethene
DCA Dichloroethane
DCE Dichloroethene
TCA Trichloroethane
– Not sampled

BOE-C6-0210535

# TABLE 4.7

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## VOLATILE ORGANIC COMPOUNDS (VOCs)
## BRC PROPERTY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | VOLATILE ORGANIC COMPOUNDS[1] (in µg/L) BY EPA METHOD 8260 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCE | PCE | 1,1-DCA | 1,1-DCE | 1,1,1-TCA | Bromodi-chloro-methane | Bromoform | Chloroform | 1,2-Dichloro-propane | Trans-1,2-DCE | Cis-1,2-DCE | Dibromo-chloro-methane | Toluene | Benzene | Ethyl benzene | Total Xylenes | Vinyl Chloride | Carbon Tetra-chloride | 1,1,2-TCA |
| BL-1 | 3/4/99 | 6.6 | ND(0.5) | 1.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.57 | ND(0.5) | ND(0.5) | 15 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 3/4/99[2] | 6.8 | ND(0.5) | 0.95 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.60 | ND(0.5) | ND(0.5) | 14 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/13/99 | 5.2 | ND(0.5) | 0.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 15 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| BL-2 | 3/3/99 | 250 | 0.91 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.81 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 460 | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(10) | ND(5) | ND(5) | ND(5) |
| BL-3 | 3/3/99 | 720 | 73 | 0.72 | 3.8 | 2.1 | ND(0.5) | ND(0.5) | 3 | ND(0.5) | ND(0.5) | 0.76 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/15/99 | 1,200 | 77 | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | ND(20) | 25 | ND(20) | ND(20) | ND(50) | ND(20) | ND(20) | ND(20) |
| BL-4 | 3/2/99 | 58 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 8.4 | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | 0.62 | ND(0.5) |
| | 7/14/99 | 49 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.68 | ND(0.5) |
| BL-5 | 3/4/99 | 4.1 | ND(0.5) | 0.54 | 1.3 | ND(0.5) | ND(0.5) | ND(0.5) | 2.8 | ND(0.5) | 3.2 | 71 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/13/99 | 2.7 | ND(0.5) | 0.56 | 0.79 | ND(0.5) | ND(0.5) | ND(0.5) | 1.4 | ND(0.5) | 0.55 | 110 | ND(0.5) | ND(0.5) | 0.52 | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| BL-6 | 3/1/99 | 6,700 | 2.9 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 11 | ND(0.5) | 0.65 | 15 | ND(0.5) | 0.60 | 0.84 | ND(0.5) | ND(1) | ND(0.5) | 1.1 | 0.61 |
| | 7/16/99 | 5,600 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| | 7/16/99[3] | 5,600 | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(50) | ND(100) | ND(50) | ND(50) | ND(50) |
| BL-7 | 3/2/99 | 32 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.67 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 5.2 | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/14/99 | 23 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.60 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| BL-8 | 3/2/99 | 23 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 5.0 | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 7/13/99 | 18 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.0 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) |

99-200/Rpts/DrGrWaRcFa (11/15/99/dh)

[1] Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
[2] Duplicate sample for BL-1 is identified as B-17 in laboratory reports.
[3] Duplicate sample for BL-6 is identified as B-15 in laboratory reports.

| | |
|---|---|
| µg/L | Micrograms per liter |
| ND( ) | Analyte not detected above the practical quantitation limit (in parentheses) |
| TCE | Trichloroethene |
| PCE | Tetrachloroethene |
| DCA | Dichloroethane |
| DCE | Dichloroethene |
| TCA | Trichloroethane |
| -- | Not sampled |

BOE-C6-0210536

**INDUSTRIAL LIGHT METALS SITE**

Summary of Groundwater Analytical Results – Total Petroleum Hydrocarbons

# TABLE 4.8

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL PETROLEUM HYDROCARBONS (TPH)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | TPH[a] (in µg/L) BY EPA METHOD 8015M | | | |
|---|---|---|---|---|---|
| | | TPH-c/w | TPH-d | TPH-k/Jet Fuel | TPH-z |
| P-1 | 1/24/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/17/95 | ND(1,000) | 1,200 | ND(200) | ND(1,000) |
| | 12/27/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/27/95(D) | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | 310 | ND(200) | ND(1,000) |
| | 6/26/96(D) | ND(1,000) | 330 | ND(200) | ND(1,000) |
| | 9/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97(D) | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | 3/4/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/16/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-2 | 1/27/95 | ND(10,000) | ND(2,000) | 22,000 | ND(10,000) |
| | 3/17/95 | ND(22,000) | ND(4,000) | 40,000 | ND(20,000) |
| | 12/27/95 | ND(40,000) | ND(8,000) | 60,000 | ND(40,000) |
| | 3/19/96 | 11,000 | ND(2,000) | 19,000 | ND(10,000) |
| | 3/19/96(D) | 14,000 | ND(2,000) | 22,000 | ND(10,000) |
| | 6/20/96 | 7,500 | ND(200) | 16,000 | ND(1,000) |
| | 6/20/96(D) | 6,000 | ND(200) | 13,000 | ND(1,000) |
| | 9/17/96 | 4,600 | ND(1,000) | ND(1,000) | ND(2,000) |
| | 7/8/97 | ND(10,000) | ND(4,000) | 20,000 | ND(20,000) |
| | 3/2/99 | ND(2,000) | ND(400) | 2,300 | ND(2,000) |
| | 7/13/99 | 1,800 | 490 | ND(200) | ND(1,000) |
| P-3 | 1/24/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/17/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/20/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/14/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/19/96 | ND(1,000) | 310 | ND(200) | ND(1,000) |
| | 9/11/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | 3/2/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/14/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-4 | 1/26/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/17/95 | ND(1,000) | 300 | ND(200) | ND(1,000) |
| | 12/21/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | 2,600 | ND(200) | ND(200) | ND(1,000) |
| | 9/16/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |
| P-5 | 1/26/95 | ND(10,000) | 15,000 | ND(2,000) | ND(10,000) |
| | 3/17/95 | ND(5,000) | 10,000 | ND(1,000) | ND(5,000) |
| | 12/27/95 | ND(8,000) | 11,000 | ND(2,000) | ND(8,000) |
| | 3/19/96 | ND(5,000) | 11,000 | ND(1,000) | ND(5,000) |
| | 6/25/96 | ND(5,000) | 8,200 | ND(1,000) | ND(5,000) |
| | 9/17/96 | ND(4,000) | 5,200 | ND(800) | ND(4,000) |
| | 9/17/96(D) | ND(2,000) | 5,000 | ND(400) | ND(2,000) |
| P-6 | 3/16/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/20/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/20/96 | ND(1,000) | 230 | ND(200) | ND(1,000) |
| | 9/12/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |
| P-6B | 3/3/99 | 1,100 | ND(200) | ND(200) | ND(1,000) |
| | 7/14/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |

TRC

# TABLE 4.8

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL PETROLEUM HYDROCARBONS (TPH)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | TPH[1] (in µg/L) BY EPA METHOD 8015M | | | |
|---|---|---|---|---|---|
| | | TPH-c/w | TPH-d | TPH-k/Jet Fuel | TPH-z |
| P-7 | 3/17/95 | ND(1,000) | 220 | ND(200) | ND(1,000) |
| | 3/17/95(D) | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/21/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/24/96 | ND(1,000) | 200 | ND(200) | ND(1,000) |
| | 9/16/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | 3/4/99 | ND(1,000) | 270 | ND(200) | ND(1,000) |
| | 7/15/99 | ND(1,000) | ND(200) | ND(200) | ND(200) |
| P-8 | 3/16/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 8/96 | | | | |
| P-9 | 3/16/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/20/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | 570 | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | 330 | ND(200) | ND(1,000) |
| | 9/12/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |
| P-9B | 3/3/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/14/99 | 1,400 | ND(200) | ND(200) | ND(1,000) |
| P-10 | 3/16/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 12/19/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/14/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/11/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | -- | -- | -- | -- |
| | 3/1/99 | 1,500 | ND(200) | ND(200) | ND(1,000) |
| | 7/13/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-11 | 12/27/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/14/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/11/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |
| P-12 | 12/21/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | 280 | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | 430 | ND(200) | ND(1,000) |
| | 6/26/96(D) | ND(1,000) | 370 | ND(200) | ND(1,000) |
| | 9/18/96 | ND(2,000) | ND(400) | ND(400) | ND(2,000) |
| | 7/10/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | 3/3/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | WELL DAMAGED 7/99 | | | | |
| P-13 | 12/21/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/14/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/19/96 | ND(1,000) | 270 | ND(200) | ND(1,000) |
| | 9/11/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |
| P-14 | 12/21/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/17/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | ND(500) | 220 | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |

TRC

# TABLE 4.8

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL PETROLEUM HYDROCARBONS (TPH)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | TPH[1] (in µg/L) BY EPA METHOD 8015M | | | |
|---|---|---|---|---|---|
| | | TPH-c/w | TPH-d | TPH-k/Jet Fuel | TPH-z |
| P-15 | 12/27/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | 250 | ND(200) | ND(1,000) |
| | 9/18/96 | 1,900 | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |
| P-16A | 12/26/95 | ND(1,000) | 350 | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96(D) | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/25/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/16/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | 3/4/99 | ND(1,000) | 210 | ND(200) | ND(1,000) |
| | 7/15/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-16B | 12/19/95 | ND(1,000) | ND(200) | ND(200) | 2,300 |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/24/96 | ND(1,000) | 430 | ND(200) | ND(1,000) |
| | WELL ABANDONED 8/96 | | | | |
| P-16C | 9/12/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | 3/2/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/14/99 | 1,200 | ND(200) | ND(200) | ND(1,000) |
| P-17 | 12/21/95 | ND(1,000) | 750 | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | -- | -- | -- | -- |
| | 3/4/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/15/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-18 | 12/26/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/12/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/18/96(D) | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |
| P-19 | 12/26/95 | ND(1,000) | 330 | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/25/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/17/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |
| P-20 | 12/27/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | 1,600 | ND(200) | ND(1,000) |
| | 6/25/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/16/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | -- | -- | -- | -- |
| | 3/4/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/4/99(D)[2] | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/16/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/16/99(D)[2] | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-21 | 12/26/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/25/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/17/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |

TRC

# TABLE 4.8

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL PETROLEUM HYDROCARBONS (TPH)
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | TPH[1] (in µg/L) BY EPA METHOD 8015M | | | |
|---|---|---|---|---|---|
| | | TPH-c/w | TPH-d | TPH-k/Jet Fuel | TPH-z |
| P-22 | 12/20/95 | ND(1,000) | ND(200) | ND(200) | 1,000 |
| | 3/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/20/96 | ND(1,000) | 390 | ND(200) | ND(1,000) |
| | 9/12/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/9/97 | -- | -- | -- | -- |
| | 3/3/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/15/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| P-23 | 12/20/95 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 3/14/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/20/96 | ND(1,000) | 230 | ND(200) | ND(1,000) |
| | 9/11/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/8/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | WELL ABANDONED 10/97 | | | | |
| P-24 | 12/20/95 | ND(2,000) | 6,200 | ND(400) | ND(2,000) |
| | 3/19/95 | ND(5,000) | 10,000 | ND(1,000) | ND(5,000) |
| | 6/24/96 | ND(2,000) | 4,100 | ND(400) | ND(1,000) |
| | 9/17/96 | ND(2,000) | ND(200) | ND(400) | ND(2,000) |
| | 9/17/96(D) | ND(2,000) | ND(200) | ND(400) | ND(2,000) |
| | 7/9/97 | ND(500) | ND(200) | ND(200) | ND(1,000) |
| | 3/3/99 | ND(1,000) | 450 | ND(200) | ND(1,000) |
| | 7/15/99 | 1,600 | ND(200) | ND(200) | ND(1,000) |
| P-25 | 12/26/95 | ND(1,000) | 1,200 | ND(200) | ND(1,000) |
| | 3/19/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 6/26/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 9/18/96 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/10/97 | -- | -- | -- | -- |
| | 7/10/97(D) | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | |

99-200/Rpts/DrGrWaRcFa (12/27/99/jb)

[1] Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.

[2] Duplicate sample for P-20 is identified as P-29 in laboratory reports.

[3] Duplicate sample for P-20 is identified as P-30 in laboratory reports.

| | |
|---|---|
| TPH-d | Total Petroleum Hydrocarbons - Diesel Range |
| TPH-k | Total Petroleum Hydrocarbons - Kerosene Range |
| TPH-z | Total Petroleum Hydrocarbons - Z-Oil |
| TPH-c/w | Total Petroleum Hydrocarbons - Crude Oil/Waste Oil |
| µg/L | Micrograms per liter |
| ND( ) | Analyte not detected above the practical quantitation limit (in parentheses) |
| (D) | Duplicate sample |
| -- | Not sampled |

TRC

# TABLE 4.9

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL PETROLEUM HYDROCARBONS (TPH)
## BRC PROPERTY, TORRANCE, CALIFORNIA

| Sample ID | Sample Date | TPH[1] (in µg/L) BY EPA METHOD 8015M | | | |
|---|---|---|---|---|---|
| | | TPH-c/w | TPH-d | TPH-k | TPH-z |
| BL-1 | 3/4/99 | ND(1,000) | 560 | ND(200) | ND(1,000) |
| | 3/4/99[2] | ND(1,000) | 450 | ND(200) | ND(1,000) |
| | 7/13/99 | ND(1,000) | 1,300 | ND(200) | ND(1,000) |
| BL-2 | 3/3/99 | -- | -- | -- | ND(1,000) |
| | 7/14/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| BL-3 | 3/3/99 | -- | -- | -- | -- |
| | 7/15/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| BL-4 | 3/2/99 | -- | -- | -- | -- |
| | 7/14/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| BL-5 | 3/4/99 | ND(1,000) | 610 | ND(200) | ND(1,000) |
| | 7/13/99 | ND(1,000) | 1,700 | ND(200) | ND(1,000) |
| BL-6 | 3/1/99 | -- | -- | -- | -- |
| | 7/16/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| | 7/16/99[3] | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| BL-7 | 3/2/99 | -- | -- | -- | -- |
| | 7/14/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |
| BL-8 | 3/2/99 | -- | -- | -- | -- |
| | 7/13/99 | ND(1,000) | ND(200) | ND(200) | ND(1,000) |

99-200/Rpts/DrGrWaRcPa (11/19/99/rm)

Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
Duplicate sample for BL-1 is identified as B-17 in laboratory reports.
[3] Duplicate sample for BL-6 is identified as B-15 in laboratory reports.

| | |
|---|---|
| TPH-d | Total Petroleum Hydrocarbons - Diesel Range |
| TPH-k | Total Petroleum Hydrocarbons - Kerosene Range |
| TPH-c/w | Total Petroleum Hydrocarbons - Crude Oil/Waste Oil |
| TPH-z | Total Petroleum Hydrocarbons - Z-Oil |
| µg/L | Micrograms per liter |
| ND( ) | Analyte not detected above the practical quantitation limit (in parentheses) |
| -- | Not sampled |

**INDUSTRIAL LIGHT METALS SITE**

Summary of Groundwater Analytical Results – Metals

# TABLE 4.10

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## DISSOLVED METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | DISSOLVED METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron[2] | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Hexavelant Chromium (EPA Method 7196) | Magnesium (EPA Method 6010) | Copper (EPA Method 6010) | Mercury (EPA Method 7470) | Vanadium (EPA Method 6010) |
| P-1 | 1/24/95 | 4.8 | ND(2) | ND(50) | ND(100) | ND(5) | 1,100 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 22 | 1,100 | 46,000 | ND(10) | -- | ND(10) |
| | 3/17/95 | 2 | 2.2 | 604 | ND(100) | ND(5) | 785 | ND(10) | 388 | ND(5) | ND(10) | 21 | ND(50) | ND(10) | 39 | 780 | 44,000 | ND(10) | -- | ND(10) |
| | 12/27/95 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,450 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 1,280 | 51,000 | ND(10) | -- | ND(10) |
| | 12/27/95(D) | ND(2) | ND(2) | ND(50) | ND(100) | 10 | 1,350 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 1,120 | 51,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | ND(2) | 2.0 | ND(50) | ND(100) | ND(10) | 1,290 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 920 | 54,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,290 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 1,260 | 52,000 | ND(10) | -- | ND(10) |
| | 6/26/96(D) | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,260 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 1,100 | 51,000 | ND(10) | -- | ND(10) |
| | 9/18/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,040 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 1,040 | 48,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 1,270 | -- | -- | -- | -- |
| | 7/10/97(D) | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 1,270 | -- | -- | -- | -- |
| | 3/4/99 | ND(2) | 4.1 | ND(50) | 112 | ND(5) | 1,370 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 1,280 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/16/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,070 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 12 | 1,070 | -- | ND(10) | ND(0.2) | ND(10) |
| P-2 | 1/27/95 | 12 | 2 | ND(50) | 110 | ND(5) | ND(10) | ND(10) | ND(50) | ND(5) | ND(10) | 280 | ND(50) | ND(10) | 77 | ND(10) | 110,000 | ND(10) | -- | ND(10) |
| | 3/17/95 | 9.2 | 2.2 | 53 | 199 | ND(5) | ND(10) | ND(10) | 1,310 | 6.3 | ND(10) | 2,150 | ND(50) | ND(10) | 58 | ND(10) | 114,000 | ND(10) | -- | ND(10) |
| | 12/27/95 | 3.6 | ND(2) | 1,830 | 129 | ND(10) | ND(5) | ND(10) | 3,360 | ND(5) | ND(10) | 3,620 | ND(50) | ND(10) | 34 | ND(10) | 85,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 3.8 | ND(2) | 13,900 | ND(100) | ND(10) | 12 | ND(50) | 41,600 | ND(5) | ND(50) | 2,650 | 69 | ND(10) | 346 | ND(10) | 21,000 | ND(10) | -- | ND(10) |
| | 3/19/96(D) | 6.2 | ND(2) | 12,800 | 138 | ND(10) | 8.3 | ND(50) | 51,600 | ND(5) | ND(50) | 3,690 | 98 | ND(10) | 820 | ND(10) | 27,000 | ND(10) | -- | ND(10) |
| | 6/20/96 | 3.6 | ND(2) | 296 | 199 | ND(10) | ND(5) | ND(50) | 8,150 | ND(5) | ND(50) | 3,360 | ND(50) | ND(10) | ND(10) | ND(10) | 130,000 | ND(10) | -- | ND(10) |
| | 6/20/96(D) | 3.6 | ND(2) | 503 | 198 | ND(10) | ND(5) | ND(50) | 7,840 | ND(5) | ND(50) | 3,210 | ND(50) | ND(10) | ND(10) | ND(10) | 131,000 | ND(10) | -- | ND(10) |
| | 9/17/96 | ND(2) | ND(2) | 97 | 165 | ND(10) | ND(5) | ND(50) | 1,810 | ND(5) | ND(50) | 1,840 | ND(50) | ND(10) | ND(10) | ND(10) | 133,000 | ND(10) | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | ND(10) | -- | -- | -- | -- |
| | 3/2/99 | 2.2 | ND(2) | ND(50) | 161 | ND(5) | ND(10) | ND(50) | 1,550 | ND(5) | ND(50) | -- | ND(50) | ND(10) | 129 | 2.5J | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/13/99 | ND(2) | ND(2) | ND(50) | 152 | ND(10) | ND(10) | ND(50) | -- | ND(5) | ND(50) | 1,440 | ND(50) | ND(10) | 114 | 9.4 | -- | ND(10) | ND(0.2) | ND(10) |
| P-3 | 1/24/95 | 3.6 | ND(2) | ND(50) | 110 | ND(5) | ND(10) | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 23 | 10 | 66,000 | ND(10) | -- | ND(10) |
| | 3/17/95 | 2.2 | 2 | 175 | 113 | ND(5) | ND(10) | ND(10) | 187 | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 142 | ND(10) | 60,000 | ND(10) | -- | ND(10) |
| | 12/20/95 | 2.4 | ND(2) | ND(50) | 133 | ND(10) | 8.8 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 13 | 72,000 | ND(10) | -- | ND(10) |
| | 3/14/96 | 2.2 | ND(2) | ND(50) | 136 | ND(10) | 10 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 10 | 76,000 | ND(10) | -- | ND(10) |
| | 6/19/96 | 3.0 | ND(2) | ND(50) | 126 | ND(10) | 10 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 76,000 | ND(10) | -- | ND(10) |
| | 9/11/96 | 3.7 | ND(2) | ND(50) | 133 | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 12 | 77,000 | ND(10) | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 11 | -- | -- | ND(0.2) | -- |
| | 3/2/99 | 3.0 | ND(2) | ND(50) | 111 | ND(5) | 12 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 22 | 31 | -- | 25 | ND(0.2) | ND(10) |
| | 7/14/99 | 2.1 | ND(2) | ND(50) | 115 | ND(10) | 10 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(50) | 12 | -- | ND(10) | ND(0.2) | ND(10) |
| P-4 | 1/26/95 | 2 | ND(2) | ND(50) | 110 | ND(5) | 99 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 13 | 115 | NA | ND(10) | -- | ND(10) |
| | 3/17/95 | ND(2) | 2.8 | ND(50) | 130 | ND(5) | 1,570 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 334 | 1,800 | 71,700 | ND(10) | -- | ND(10) |
| | 12/21/95 | ND(2) | ND(2) | ND(50) | 135 | 13 | 427 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | 20 | 480 | 71,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 2.2 | ND(2) | ND(50) | 127 | ND(10) | 385 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 280 | 68,000 | ND(10) | -- | ND(10) |
| | 9/16/96 | ND(2) | ND(2) | ND(50) | 147 | ND(10) | 280 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 280 | 84,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | 1,450 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 140 | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-5 | 1/26/95 | 12 | ND(2) | ND(100) | 130 | ND(5) | ND(10) | ND(10) | 6,240 | ND(5) | ND(10) | 1,370 | ND(50) | ND(10) | ND(10) | ND(10) | NA | ND(10) | -- | ND(10) |
| | 3/17/95 | 5.6 | ND(2) | 314 | ND(100) | ND(5) | ND(10) | ND(10) | 4,580 | 7.4 | ND(10) | 623 | ND(50) | ND(10) | 27 | ND(10) | 38,400 | ND(10) | -- | ND(10) |
| | 12/27/95 | ND(2) | ND(2) | ND(50) | 179 | ND(10) | ND(5) | ND(10) | 10,000 | ND(5) | ND(10) | 1,310 | ND(50) | ND(10) | ND(10) | ND(10) | 97,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 27 | ND(2) | ND(50) | 192 | ND(10) | ND(5) | ND(50) | 11,700 | ND(5) | ND(50) | 1,350 | ND(50) | ND(10) | ND(10) | ND(10) | 91,000 | ND(10) | -- | ND(10) |
| | 6/19/96 | 33 | ND(2) | ND(50) | 163 | ND(10) | ND(5) | ND(50) | 14,300 | ND(5) | ND(50) | 1,500 | ND(50) | ND(10) | 12 | ND(10) | 87,000 | ND(10) | -- | ND(10) |
| | 9/17/96 | 29 | ND(2) | ND(50) | 196 | ND(10) | ND(5) | ND(50) | 13,400 | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 101,000 | ND(10) | -- | ND(10) |
| | 9/17/96(D) | 31 | ND(2) | ND(50) | 181 | ND(10) | ND(5) | ND(50) | 12,700 | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 106,000 | ND(10) | -- | ND(10) |
| P-6 | 3/16/95 | ND(2) | 2.4 | ND(50) | ND(100) | ND(5) | ND(10) | ND(10) | ND(50) | ND(5) | ND(10) | 57 | ND(50) | ND(10) | ND(10) | 10 | 66,400 | ND(10) | -- | ND(10) |
| | 12/20/95 | ND(2) | 2.2 | ND(50) | 176 | ND(10) | 14 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 14 | 90,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | ND(2) | 2.0 | ND(50) | 193 | ND(10) | 11 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 91,000 | ND(10) | -- | ND(10) |
| | 6/20/96 | ND(2) | 2.0 | ND(50) | 171 | ND(10) | 13 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 15 | 10 | 85,000 | ND(10) | -- | ND(10) |
| | 9/12/96 | ND(2) | ND(2) | ND(50) | 144 | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 15 | 69,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 15 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

# TABLE 4.10

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## DISSOLVED METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)

| SAMPLE ID | SAMPLE DATE | DISSOLVED METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron[2] | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Hexavelant Chromium (EPA Method 7196) | Magnesium (EPA Method 6010) | Copper (EPA Method 6010) | Mercury (EPA Method 7470) | Vanadium (EPA Method 6010) |
| P-6B | 3/3/99 | 2.3 | ND(2) | ND(50) | 268 | ND(5) | ND(10) | ND(50) | 53 | ND(5) | ND(50) | -- | ND(50) | ND(10) | 12 | 4.9 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/14/99 | ND(2) | ND(2) | ND(50) | 350 | ND(10) | ND(10) | ND(50) | -- | ND(5) | ND(50) | 806 | ND(50) | ND(10) | ND(50) | 6.7 | -- | ND(10) | ND(0.2) | ND(10) |
| P-7 | 3/17/95 | 2.2 | ND(2) | 733 | ND(100) | ND(5) | ND(10) | ND(10) | 806 | ND(5) | ND(10) | 104 | ND(50) | 29 | 20 | ND(10) | 41,000 | ND(10) | -- | ND(10) |
| | 3/17/95(D) | ND(2) | ND(2) | 154 | ND(100) | ND(5) | ND(10) | ND(10) | 104 | ND(5) | ND(10) | 126 | ND(50) | ND(10) | 22 | ND(10) | 40,000 | 22 | -- | ND(10) |
| | 12/21/95 | 2.0 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(10) | ND(50) | ND(5) | ND(10) | 77 | ND(50) | ND(10) | 14 | ND(10) | 34,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 2.8 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 70 | ND(50) | ND(10) | ND(10) | ND(10) | 36,000 | ND(10) | -- | ND(10) |
| | 6/24/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 47 | ND(50) | ND(10) | ND(10) | ND(10) | 36,000 | ND(10) | -- | ND(10) |
| | 9/16/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 37,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | ND(10) | -- | -- | -- | -- |
| | 3/4/99 | 5.9 | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 11 | 2.8 | -- | ND(10) | ND(0.2) | 10 |
| | 7/15/99 | 5.0 | ND(2) | ND(50) | 108 | ND(10) | ND(10) | ND(50) | -- | ND(5) | ND(50) | 268 | ND(50) | ND(10) | ND(10) | 2.0 | -- | ND(10) | ND(0.2) | 11 |
| P-8 | 3/16/95 | ND(2) | 4.1 | ND(50) | ND(100) | ND(5) | 56 | ND(10) | ND(50) | ND(5) | ND(10) | 15 | ND(50) | ND(10) | ND(10) | 60 | 34,500 | ND(10) | -- | ND(10) |
| | WELL ABANDONED 8/96 | | | | | | | | | | | | | | | | | | | |
| P-9 | 3/16/95 | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(10) | ND(50) | ND(5) | ND(10) | 16 | ND(50) | ND(10) | 30 | 20 | 86,000 | ND(10) | -- | ND(10) |
| | 12/20/95 | 2.2 | ND(2) | ND(50) | ND(100) | ND(10) | 12 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 17 | 67,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 3.6 | ND(2) | ND(50) | ND(100) | ND(10) | 15 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(10) | 70,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 16 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 16 | 64,000 | ND(10) | -- | ND(10) |
| | 9/12/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 13 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 14 | 68,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 16.0 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-9B | 3/3/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | 12 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 15 | 22 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/14/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 10 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(50) | 18 | -- | ND(10) | ND(0.2) | ND(10) |
| P-10 | 3/16/95 | 5.8 | 2.6 | ND(50) | ND(100) | ND(5) | 28 | ND(10) | ND(50) | ND(5) | ND(10) | 30 | ND(50) | ND(10) | 24 | 30 | 58,000 | ND(10) | -- | ND(10) |
| | 12/19/95 | 2.6 | 2.6 | ND(50) | ND(100) | ND(10) | 28 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 30 | 62,000 | ND(10) | -- | ND(10) |
| | 3/14/96 | ND(2) | 2.4 | ND(50) | ND(100) | ND(10) | 30 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 31 | 66,000 | ND(10) | -- | ND(10) |
| | 6/18/96 | 2.6 | 2.0 | ND(50) | ND(100) | ND(10) | 29 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 25 | 66,000 | ND(10) | -- | ND(10) |
| | 9/11/96 | 3.3 | 2.1 | ND(50) | ND(100) | ND(10) | 28 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 30 | 66,000 | 10 | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 35 | -- | -- | -- | -- |
| | 3/1/99 | ND(2) | 2.6 | ND(50) | ND(100) | ND(5) | 30 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 24 | 31J | -- | 29 | ND(0.2) | ND(10) |
| | 7/13/99 | ND(2) | 2.0 | ND(50) | ND(100) | ND(10) | 31 | ND(50) | -- | ND(5) | ND(50) | 13 | ND(50) | ND(10) | 11 | 33 | -- | ND(10) | ND(0.2) | ND(10) |
| P-11 | 12/27/95 | ND(2) | ND(2) | ND(50) | 101 | ND(10) | 13 | ND(10) | ND(50) | ND(5) | ND(10) | 19 | ND(50) | ND(10) | ND(10) | 18 | 139,000 | ND(10) | -- | ND(10) |
| | 3/14/96 | ND(2) | ND(2) | ND(50) | 133 | ND(10) | 15 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 17 | 138,000 | ND(10) | -- | ND(10) |
| | 6/19/96 | ND(2) | 2.0 | ND(50) | 100 | ND(10) | 23 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 20 | 118,000 | ND(10) | -- | ND(10) |
| | 9/11/96 | ND(2) | ND(2) | ND(50) | 134 | ND(10) | 19 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 21 | 139,000 | 20 | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 26 | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-12 | 12/21/95 | 6.2 | 2.0 | ND(50) | 112 | ND(10) | 18 | 21 | ND(50) | ND(5) | ND(10) | 81 | ND(50) | ND(10) | 12 | 21 | 63,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 2.6 | 2.4 | ND(50) | 170 | ND(10) | 22 | ND(50) | 177 | ND(5) | ND(50) | 44 | ND(50) | ND(10) | ND(10) | 11 | 66,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | 2.7 | 2.4 | ND(50) | 160 | ND(10) | 25 | ND(50) | 260 | 9.5 | ND(50) | 38 | ND(50) | ND(10) | ND(10) | 23 | 60,000 | ND(10) | -- | ND(10) |
| | 6/26/96(D) | 2.8 | 2.5 | ND(50) | 162 | ND(10) | 25 | ND(50) | 236 | ND(5) | ND(50) | 35 | ND(50) | ND(10) | ND(10) | 25 | 60,000 | ND(10) | -- | ND(10) |
| | 9/18/96 | 2.3 | ND(2) | ND(50) | 160 | ND(10) | 26 | ND(10) | 153 | ND(5) | ND(50) | 23 | ND(50) | ND(10) | ND(10) | 24 | 59,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | 20 | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 17 | -- | -- | 0.20 | -- |
| | 3/3/99 | 2.1 | ND(2) | ND(50) | 190 | ND(5) | 26 | 58 | 1,190 | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(50) | 36 | -- | ND(10) | 1.90 | ND(10) |
| | WELL DAMAGED 7/99 | | | | | | | | | | | | | | | | | | | |
| P-13 | 12/21/95 | 2.6 | 7.8 | ND(50) | ND(100) | ND(10) | 15 | ND(10) | ND(50) | ND(5) | 11 | ND(10) | ND(50) | 19 | ND(10) | ND(10) | 22,000 | ND(10) | -- | ND(10) |
| | 3/14/96 | ND(2) | 8.2 | ND(50) | ND(100) | ND(10) | 17 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 15 | 22,000 | ND(10) | -- | ND(10) |
| | 6/19/96 | 2.0 | 8.6 | ND(50) | ND(100) | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 10 | 24,000 | ND(10) | -- | ND(10) |
| | 9/11/96 | 2.5 | 6.6 | ND(50) | ND(100) | ND(10) | 13 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 12 | 24,000 | ND(10) | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 17 | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

BOE-C6-0210545

# TABLE 4.10

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## DISSOLVED METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)



| SAMPLE ID | SAMPLE DATE | DISSOLVED METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron[2] | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Hexavelant Chromium (EPA Method 7196) | Magnesium (EPA Method 6010) | Copper (EPA Method 6010) | Mercury (EPA Method 7470) | Vanadium (EPA Method 6010) |
| P-14 | 12/21/95 | 2.4 | 2.0 | ND(50) | ND(100) | ND(10) | 2,820 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 2,600 | 34,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 2.8 | 3.2 | ND(50) | ND(100) | ND(10) | 2,170 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 1,240 | 34,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | ND(2) | 3.0 | ND(50) | ND(100) | ND(10) | 1,860 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 12 | 1,360 | 32,000 | 20 | -- | ND(10) |
| | 9/17/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,590 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(10) | ND(10) | ND(10) | 1,640 | 32,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 555 | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-15 | 12/27/95 | 2.8 | ND(2) | ND(50) | ND(100) | ND(10) | 388 | ND(10) | ND(50) | ND(5) | ND(10) | ND(10) | ND(50) | ND(10) | ND(10) | 370 | 34,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 3.0 | ND(2) | ND(50) | ND(100) | ND(10) | 218 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 120 | 30,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | 2.7 | ND(2) | ND(50) | ND(100) | ND(10) | 86 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 78 | 27,000 | ND(10) | -- | ND(10) |
| | 9/18/96 | 2.1 | ND(2) | ND(50) | ND(100) | ND(10) | 73 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 72 | 25,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 277 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-16A | 12/26/95 | 4.8 | 2.6 | ND(50) | ND(100) | ND(10) | 26 | ND(10) | ND(50) | ND(5) | ND(10) | 28 | ND(50) | ND(10) | 11 | 23 | 59,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 5.4 | 2.4 | ND(50) | ND(100) | ND(10) | 23 | ND(50) | ND(50) | ND(5) | ND(50) | 12 | ND(50) | ND(10) | 10 | 14 | 68,000 | ND(10) | -- | ND(10) |
| | 3/18/96(D) | 7.2 | 2.0 | ND(50) | ND(100) | ND(10) | 24 | ND(50) | ND(50) | ND(5) | ND(50) | 10 | ND(50) | ND(10) | 12 | 22 | 69,000 | ND(10) | -- | ND(10) |
| | 6/25/96 | 5.4 | 3.6 | ND(50) | ND(100) | ND(10) | 60 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 15 | 54 | 52,000 | ND(10) | -- | ND(10) |
| | 9/16/96 | 4.5 | ND(2) | ND(50) | ND(100) | ND(10) | 23 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 24 | 82,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 21 | -- | -- | -- | -- |
| | 3/4/99 | 7.5 | 2.0 | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 14 | -- | ND(10) | ND(0.2) | -- |
| | 7/15/99 | 8.3 | ND(2) | ND(50) | ND(100) | ND(10) | 12 | ND(50) | -- | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 15 | -- | ND(10) | ND(0.2) | ND(10) |
| P-16B | 12/19/95 | ND(2) | 2.8 | ND(50) | 158 | ND(10) | ND(5) | ND(10) | ND(50) | ND(5) | ND(10) | 94 | ND(50) | ND(10) | 498 | ND(10) | 35,000 | ND(10) | -- | ND(10) |
| | 12/19/95(D) | ND(2) | 2.8 | ND(50) | 157 | ND(10) | ND(5) | ND(10) | ND(50) | ND(5) | ND(10) | 94 | ND(50) | ND(10) | 497 | ND(10) | 36,000 | 14 | -- | ND(10) |
| | 3/18/96 | ND(2) | 2.4 | ND(50) | 168 | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 72 | ND(50) | ND(10) | 550 | ND(10) | 38,000 | ND(10) | -- | ND(10) |
| | 6/24/96 | ND(2) | 5.8 | ND(50) | 492 | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 22 | ND(50) | ND(10) | 18 | ND(10) | 98,000 | ND(10) | -- | ND(10) |
| | WELL DESTROYED 8/96 | | | | | | | | | | | | | | | | | | | |
| P-16C | 9/12/96 | 3.0 | 5.3 | ND(50) | 388 | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 335 | ND(50) | ND(10) | 1,500 | ND(10) | 96,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | ND(10) | -- | -- | -- | -- |
| | 3/2/99 | ND(2) | 5.1 | ND(50) | 424 | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 37 | ND(5)UJ | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/14/99 | ND(2) | 4.1 | ND(100) | 484 | ND(10) | ND(10) | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(50) | 5.4 | -- | ND(10) | ND(0.2) | ND(10) |
| P-17 | 12/21/95 | 2.0 | ND(2) | ND(50) | ND(100) | ND(10) | 1,030 | ND(10) | ND(50) | ND(5) | ND(10) | 53 | ND(50) | ND(10) | 13 | 902 | 62,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | ND(2) | 2.6 | ND(50) | ND(100) | ND(10) | 967 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 640 | 62,000 | ND(10) | -- | ND(10) |
| | 9/18/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 1,060 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 1,140 | 55,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 1,330 | -- | -- | -- | -- |
| | 3/4/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | 30 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 40 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/15/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 23 | ND(50) | -- | ND(5) | ND(50) | 12 | ND(50) | ND(10) | 10 | 24 | -- | ND(10) | ND(0.2) | ND(10) |
| P-18 | 12/26/95 | 3.4 | 4.2 | 926 | ND(100) | ND(10) | 19 | ND(10) | 268 | ND(5) | ND(10) | 77 | ND(50) | ND(10) | 32 | 10 | 63,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 3.0 | 2.2 | 472 | ND(100) | ND(10) | 14 | ND(50) | 108 | ND(5) | ND(50) | 30 | ND(50) | ND(10) | 19 | 11 | 52,000 | ND(10) | -- | ND(10) |
| | 9/12/96 | 2.9 | 3.3 | ND(50) | ND(100) | ND(10) | 10 | ND(50) | ND(50) | ND(5) | ND(50) | 40 | ND(50) | ND(10) | ND(10) | ND(10) | 54,000 | ND(10) | -- | ND(10) |
| | 9/12/96(D) | 3.3 | 3.3 | ND(50) | ND(100) | 18 | 10 | ND(50) | ND(50) | ND(5) | ND(50) | 38 | ND(50) | ND(10) | ND(10) | ND(10) | 54,000 | ND(10) | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 19 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-19 | 12/26/95 | 2.6 | 4.0 | ND(50) | ND(100) | ND(10) | 8.8 | ND(10) | ND(50) | 6.3 | ND(10) | 42 | ND(50) | ND(10) | ND(10) | 10 | 56,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | ND(2) | 3.8 | ND(50) | ND(100) | ND(10) | 13 | ND(50) | ND(50) | ND(5) | ND(50) | 13 | ND(50) | ND(10) | ND(10) | ND(10) | 57,000 | ND(10) | -- | ND(10) |
| | 6/25/96 | ND(2) | 4.2 | ND(50) | ND(100) | ND(10) | 18 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 17 | 56,000 | ND(10) | -- | ND(10) |
| | 9/17/96 | ND(2) | 2.0 | ND(50) | ND(100) | ND(10) | 16 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 16 | 55,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 31 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

BOE-C6-0210546

# TABLE 4.10

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## DISSOLVED METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)

| SAMPLE ID | SAMPLE DATE | DISSOLVED METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron[2] | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Hexavalent Chromium (EPA Method 7196) | Magnesium (EPA Method 6010) | Copper (EPA Method 6010) | Mercury (EPA Method 7470) | Vanadium (EPA Method 6010) |
| P-20 | 12/27/95 | 2.6 | ND(2) | ND(50) | ND(100) | ND(10) | 26 | ND(10) | ND(50) | ND(5) | ND(10) | 14 | ND(50) | ND(10) | ND(10) | 26 | 76,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 2.2 | ND(2) | ND(50) | ND(100) | ND(10) | 23 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 13 | 73,000 | ND(10) | -- | ND(10) |
| | 6/25/96 | 2.4 | ND(2) | ND(50) | ND(100) | ND(10) | 27 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 18 | 23 | 50,000 | ND(50) | -- | ND(10) |
| | 9/16/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 18 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 17 | 67,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 19 | -- | -- | -- | -- |
| | 3/4/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | 27 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 35 | -- | ND(10) | ND(0.2) | ND(10) |
| | 3/4/99(D)[3] | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | 28 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 33 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/16/99 | ND(2) | ND(2) | ND(100) | ND(100) | ND(10) | 21 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 25 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/16/99(D)[4] | ND(2) | ND(2) | ND(100) | ND(100) | ND(10) | 22 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 27 | -- | ND(10) | ND(0.2) | ND(10) |
| P-21 | 12/26/95 | 2.4 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(10) | ND(50) | ND(5) | ND(50) | 41 | ND(50) | ND(10) | 19 | ND(10) | 52,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 4.6 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 100 | ND(50) | ND(10) | ND(10) | ND(10) | 52,000 | ND(10) | -- | ND(10) |
| | 6/25/96 | 2.4 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 22 | ND(50) | ND(10) | 11 | ND(10) | 46,000 | ND(10) | -- | ND(10) |
| | 9/17/96 | 2.3 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 25 | ND(50) | ND(10) | ND(10) | ND(10) | 49,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | ND(10) | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-22 | 12/20/95 | 14 | 6.0 | ND(50) | ND(100) | ND(10) | 8.5 | ND(10) | ND(50) | ND(5) | ND(10) | 22 | ND(50) | ND(10) | 43 | 11 | 24,000 | ND(10) | -- | ND(10) |
| | 3/18/96 | 7.6 | 6.0 | ND(50) | ND(100) | ND(10) | 11 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 11 | 25,000 | ND(10) | -- | ND(10) |
| | 6/20/96 | 5.2 | 6.4 | ND(50) | ND(100) | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 10 | 24,000 | ND(10) | -- | ND(10) |
| | 9/12/96 | 4.5 | 5.8 | ND(50) | ND(100) | ND(10) | 12 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 12 | 27,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- |
| | 3/3/99 | 3.8 | 2.3 | ND(50) | 178 | ND(5) | 10 | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | ND(10) | 18 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/15/99 | 3.3 | 2.1 | ND(50) | 190 | ND(10) | 10 | ND(50) | -- | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 16 | 17 | -- | ND(10) | ND(0.2) | ND(10) |
| P-23 | 12/20/95 | 2.8 | ND(2) | ND(50) | ND(100) | ND(10) | 11 | ND(10) | ND(50) | ND(5) | ND(10) | 13 | ND(50) | ND(10) | 24 | 16 | 93,000 | ND(10) | -- | ND(10) |
| | 3/14/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | 12 | 13 | 96,000 | ND(10) | -- | ND(10) |
| | 6/20/96 | 2.6 | ND(2) | ND(50) | ND(100) | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 10 | 97,000 | ND(10) | -- | ND(10) |
| | 9/11/96 | 3.0 | ND(2) | ND(50) | ND(100) | ND(10) | 14 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 14 | 89,000 | ND(10) | -- | ND(10) |
| | 7/8/97 | -- | -- | ND(50) | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 14 | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |
| P-24 | 12/20/95 | 2.0 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(10) | ND(50) | ND(5) | ND(10) | 875 | ND(50) | ND(10) | 11 | ND(10) | 77,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 1,080 | ND(50) | ND(10) | ND(10) | ND(10) | 85,000 | ND(10) | -- | ND(10) |
| | 6/24/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 509 | ND(50) | ND(10) | ND(10) | ND(10) | 82,000 | ND(10) | -- | ND(10) |
| | 9/17/96 | 2.3 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 922 | ND(50) | ND(10) | ND(10) | ND(10) | 81,000 | ND(10) | -- | ND(10) |
| | 9/17/96(D) | 2.3 | ND(2) | ND(50) | ND(100) | ND(10) | ND(5) | ND(50) | ND(50) | ND(5) | ND(50) | 844 | ND(50) | ND(10) | ND(10) | ND(10) | 89,000 | ND(10) | -- | ND(10) |
| | 7/9/97 | -- | -- | 3,240 | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 60 | -- | -- | ND(0.2) | -- |
| | 3/3/99 | 3.6 | ND(2) | ND(50) | 120 | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | ND(50) | -- | ND(50) | ND(10) | 16 | 5.6 | -- | ND(10) | ND(0.2) | ND(10) |
| | 7/15/99 | 4.0 | ND(2) | ND(50) | 133 | ND(10) | ND(10) | ND(50) | -- | ND(5) | ND(50) | 114 | ND(50) | ND(10) | ND(10) | ND(2) | -- | ND(10) | ND(0.2) | ND(10) |
| P-25 | 12/26/95 | 2.4 | ND(2) | ND(50) | ND(100) | ND(10) | 518 | ND(10) | ND(50) | ND(5) | ND(10) | 28 | ND(50) | ND(10) | ND(10) | 480 | 58,000 | ND(10) | -- | ND(10) |
| | 3/19/96 | 2.4 | ND(2) | ND(50) | ND(100) | ND(10) | 329 | ND(50) | ND(50) | ND(5) | ND(50) | 12 | ND(50) | ND(10) | ND(10) | 22 | 58,000 | ND(10) | -- | ND(10) |
| | 6/26/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 464 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 480 | 58,000 | ND(10) | -- | ND(10) |
| | 9/18/96 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | 478 | ND(50) | ND(50) | ND(5) | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | 480 | 55,000 | ND(10) | -- | ND(10) |
| | 7/10/97 | -- | -- | 218 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 281 | -- | -- | -- | -- |
| | 7/10/97(D) | -- | -- | ND(50) | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | 323 | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | | |

(1) Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
(2) Dissolved iron analyzed in the field using Hach Field Test Kit.
(3) Duplicate sample for P-20 is identified as P-29 in laboratory reports.
(4) Duplicate sample for P-20 is identified as P-30 in laboratory reports.

µg/L Micrograms per liter
ND( ) Analytes not detected above the particle quantitation limit (in parentheses)
(D) Duplicate sample
-- Not sampled

99-2tXVRpts/DrGrWaRcFa (12/27/99/jb)

BOE-C6-0210547

# TABLE 4.11

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## DISSOLVED METALS, BRC PROPERTY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | DISSOLVED METALS[1] (in µg/L) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron[3] | Lead (EPA Method 7421) | Manganese (EPA Method 6010) | Molybdenum (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Hexavelant Chromium (EPA Method 7196) | Copper (EPA Method 6010) | Mercury (EPA Method 7470) |
| BL-1 | 3/4/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(10) | 4.1 | ND(10) | ND(0.2) |
| | 3/4/99[2] | ND(2) | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | 50 | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(10) | 4.8 | ND(10) | ND(0.2) |
| | 7/13/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(10) | ND(50) | – | ND(5) | 16 | ND(50) | ND(50) | ND(10) | ND(50) | ND(2) | ND(10) | ND(0.2) |
| BL-2 | 3/3/99 | 3.9 | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(50) | 15 | ND(10) | ND(0.2) |
| | 7/14/99 | 2.5 | ND(2) | ND(50) | ND(100) | ND(10) | ND(10) | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | 14 | ND(10) | ND(0.2) |
| BL-3 | 3/3/99 | ND(2) | ND(2) | ND(50) | 270 | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(50) | 11 | ND(10) | ND(0.2) |
| | 7/15/99 | ND(2) | ND(2) | ND(50) | 397 | ND(10) | 10 | ND(50) | – | ND(5) | 13.0 | ND(50) | ND(50) | ND(10) | ND(50) | 12 | ND(20) | ND(0.2) |
| BL-4 | 3/2/99 | 2.1 | ND(2) | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(10) | 4.3 | ND(10) | ND(0.2) |
| | 7/14/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(10) | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | 10 | ND(10) | ND(0.2) |
| BL-5 | 3/4/99 | ND(2) | 2.6 | ND(50) | ND(100) | ND(5) | ND(10) | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | 16 | 5.5 | ND(10) | ND(0.2) |
| | 7/13/99 | ND(2) | ND(2) | ND(50) | ND(100) | ND(10) | ND(10) | ND(50) | – | ND(5) | 38 | ND(50) | ND(50) | ND(10) | ND(50) | ND(2) | ND(10) | ND(0.2) |
| BL-6 | 3/1/99 | 2.1 | 2.0 | ND(50) | 32 | ND(5) | 213 | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(50) | 167 | 12U | ND(0.2) |
| | 7/16/99 | 60R | ND(2) | ND(50) | ND(100) | ND(10) | 203 | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | 214 | ND(10) | ND(0.2) |
| | 7/16/99(D)[3] | 10R | ND(2) | ND(50) | ND(100) | ND(10) | 210 | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | 214 | ND(10) | ND(0.2) |
| BL-7 | 3/2/99 | 4.8 | ND(2) | ND(50) | ND(100) | ND(5) | 16 | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(10) | 16 | ND(10) | ND(0.2) |
| | 7/14/99 | 2.6 | ND(2) | ND(50) | ND(100) | ND(10) | 24 | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | 26 | ND(10) | ND(0.2) |
| BL-8 | 3/2/99 | 2.4 | ND(2) | ND(50) | 122 | ND(5) | 11 | ND(50) | ND(50) | ND(5) | – | ND(50) | ND(50) | ND(10) | ND(10) | 14 | 22U | ND(0.2) |
| | 7/13/99 | ND(2) | ND(2) | ND(50) | 285 | ND(10) | 15 | ND(50) | – | ND(5) | ND(10) | ND(50) | ND(50) | ND(10) | ND(50) | ND(2) | ND(10) | ND(0.2) |

99-2(X)/Rpts/DrGrWaRcFa (11/15/99/dh)

(1) Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
(2) Duplicate sample for BL-1 is identified as BL-17 in laboratory reports.
(3) Dissolved iron analyzed in the field using Hach Field Test Kit.
(4) Duplicate sample for BL-6 is identified as BL-15 in laboratory reports.

µg/L Micrograms per liter
ND( ) Analytes not detected above the particle quantitation limit (in parentheses)
(D) Duplicate sample
– Not sampled

Data Validation Qualifiers (for more information, see Data Validation Report).
U Not detected
R Unusable/rejected based on field duplicate evaluation

BOE-C6-0210548

# TABLE 4.12

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA



| SAMPLE ID | SAMPLE DATE | TOTAL METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron (EPA Method 6010) | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Copper (EPA Method 6010) | Vanadium (EPA Method 6010) | Mercury (EPA Method 7470) | Thallium (EPA Method 7841) |
| P-1 | 1/24/95 | 2.2 | ND(2) | 6,170 | ND(100) | ND(5) | 690 | ND(10) | 8,490 | ND(5) | ND(10) | 100 | ND(50) | 450 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/17/95 | ND(2) | 2.0 | 3,400 | ND(100) | ND(5) | 676 | ND(10) | 4,720 | ND(5) | ND(10) | 59 | ND(50) | 257 | 110 | 10.0 | ND(50) | ND(0.2) | ND(5) |
| | 12/27/95 | 2.0 | ND(2) | 310 | ND(100) | ND(10) | 1,420 | ND(10) | 384 | ND(5) | ND(10) | 11 | ND(50) | 14 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/27/95(D) | 2.2 | ND(2) | 1,980 | ND(100) | ND(10) | 1,250 | ND(10) | 2,490 | ND(5) | ND(10) | 35 | ND(50) | 361 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/19/96 | 2.6 | ND(2) | 2,790 | ND(100) | ND(10) | 1,180 | ND(50) | 4,370 | ND(5) | ND(50) | 64 | ND(50) | 213 | 138 | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 6/26/96 | 6.7 | ND(2) | 11,400 | 118 | ND(10) | 1,060 | ND(50) | 17,200 | 13 | ND(50) | 252 | ND(50) | 906 | 162 | 23 | 32 | ND(0.2) | ND(1) |
| | 6/26/96(D) | 4.1 | ND(2) | 6,240 | 101 | ND(10) | 998 | ND(50) | 9,320 | 6.8 | ND(50) | 132 | ND(50) | 515 | 250 | 15 | 17 | ND(0.2) | ND(1) |
| | 9/18/96 | 3.7 | ND(2) | 4,400 | ND(100) | ND(10) | 1,050 | ND(50) | 6,380 | ND(5) | ND(50) | 95 | ND(50) | 339 | 87 | ND(10) | 11 | 0.7 | ND(1) |
| | 7/10/97 | -- | -- | 1,620 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 7/10/97(D) | -- | -- | 4,160 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 3/4/99 | 4.0 | 3.9 | 8,270 | 164 | ND(5) | 1,280 | ND(10) | 10,600 | 12 | ND(10) | -- | ND(50) | 559 | 53 | ND(10) | 21 | 5.3 | ND(5) |
| | 7/15/99 | ND(2) | ND(2) | 1,520 | 99 | ND(5) | 999 | ND(10) | 2,280 | ND(5) | ND(10) | 35 | ND(50) | 110 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-2 | 1/27/95 | ND(2) | ND(2) | 16,800 | 180 | ND(5) | 55 | 10 | 23,200 | ND(5) | ND(10) | 430 | ND(50) | 1,130 | 190 | 17 | ND(50) | ND(0.2) | ND(5) |
| | 3/17/95 | 9.0 | 2.2 | 1,620 | 121 | ND(5) | 10 | ND(10) | 3,380 | ND(5) | ND(10) | 1,920 | ND(50) | 80 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/27/95 | 6.8 | ND(2) | 5,810 | 179 | 172 | 14 | ND(10) | 7,900 | 38 | 14 | 3,590 | ND(50) | 153 | 1,470 | 143 | ND(50) | ND(0.2) | ND(5) |
| | 3/19/96 | 29 | 2.6 | 220,000 | 2,200 | 2,150 | 1,280 | 142 | 281,000 | 4,610 | 169 | 4,880 | 434 | 13,100 | 27,400 | 5,090 | 500 | 5.0 | ND(1) |
| | 3/19/96(D) | 78 | 2.4 | 208,000 | 1,810 | 1,770 | 1,030 | 142 | 276,000 | 3,840 | 141 | 6,110 | 434 | 10,400 | 23,600 | 3,860 | 478 | 5.3 | ND(1) |
| | 6/20/96 | 6.8 | ND(2) | 5,220 | 212 | 68 | 25 | ND(50) | 12,900 | 245 | ND(50) | 2,800 | ND(50) | 211 | 2,030 | 75 | 16 | 0.42 | ND(1) |
| | 6/20/96(D) | 8.8 | ND(2) | 7,170 | 223 | 76 | 34 | ND(50) | 14,600 | 153 | ND(50) | 2,670 | ND(50) | 293 | 2,610 | 94 | 21 | 0.64 | ND(1) |
| | 9/17/96 | 5.8 | ND(2) | 9,060 | 219 | 110 | 42 | ND(50) | 12,200 | 18 | ND(50) | 1,810 | ND(50) | 566 | 1,900 | 200 | 25 | 0.28 | ND(1) |
| | 7/8/97 | -- | -- | 2,360 | -- | 32 | -- | -- | -- | 103 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/2/99 | 3.2 | ND(2) | 1,440 | 166 | 24 | 11 | ND(10) | 3,210 | 38 | 14 | -- | ND(50) | 73U | 388 | 29 | ND(10) | ND(0.2) | ND(5) |
| | 7/13/99 | 3.8 | ND(2) | 2,420J | 165 | 30.0 | ND(10) | ND(10) | 4,620 | 76 | 14 | 1,370 | ND(50) | 138 | 562 | 63 | ND(10) | ND(0.2) | ND(5) |
| P-3 | 1/24/95 | 9.2 | ND(2) | 11,400 | 160 | ND(5) | 32 | ND(10) | 14,400 | 5.3 | ND(10) | 130 | ND(50) | 710 | 81 | 14 | ND(50) | 0.36 | ND(5) |
| | 3/17/95 | 3.0 | ND(2) | 2,680 | 116 | ND(5) | 21 | ND(10) | 3,270 | ND(5) | ND(10) | 32 | ND(50) | 160 | 176 | ND(10) | ND(50) | 0.21 | ND(5) |
| | 12/20/95 | 11 | ND(2) | 3,000 | 131 | ND(10) | 17 | ND(10) | 3,140 | ND(5) | ND(10) | 75 | ND(50) | 118 | 52 | ND(10) | ND(50) | 3.0 | ND(5) |
| | 3/14/96 | 10 | ND(2) | 12,700 | 201 | ND(10) | 48 | ND(50) | 18,700 | ND(5) | ND(50) | 212 | ND(50) | 834 | 98 | 18 | 36 | 3.0 | ND(5) |
| | 6/19/96 | 5.8 | ND(2) | 1,960 | 141 | ND(10) | 16 | ND(50) | 1,930 | ND(5) | ND(50) | 108 | ND(50) | 78 | ND(50) | ND(10) | ND(10) | 2.0 | 1.1 |
| | 9/11/96 | 3.9 | ND(2) | 2,650 | 145 | ND(10) | 19 | ND(50) | 3,450 | ND(5) | ND(50) | 34 | ND(50) | 93 | ND(50) | ND(10) | ND(10) | 0.58 | ND(1) |
| | 7/8/97 | -- | -- | 1,770 | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | 0.31 | -- |
| | 3/2/99 | 4.1 | ND(2) | 2,630 | 123 | ND(5) | 16 | ND(10) | 3,240 | ND(5) | ND(10) | -- | ND(50) | 176 | ND(50) | 43 | ND(10) | 0.25 | ND(5) |
| | 7/14/99 | 2.5 | ND(2) | 501 | 118 | ND(5) | ND(10) | ND(10) | 819 | ND(5) | ND(10) | 17 | ND(50) | 37 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-4 | 1/26/95 | 7.4 | ND(2) | 11,500 | 160 | ND(5) | 110 | ND(10) | 14,900 | 8.8 | ND(10) | 160 | ND(50) | 730 | 84 | 16 | ND(50) | ND(0.2) | ND(5) |
| | 3/17/95 | ND(2) | 2.4 | 530 | 122 | ND(5) | 731 | ND(10) | 777 | ND(5) | ND(10) | ND(10) | ND(50) | 11 | 73 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/21/95 | 10 | ND(2) | 18,800 | 207 | ND(10) | 440 | 11 | 24,800 | 5.4 | ND(10) | 308 | ND(50) | 1,360 | 126 | 19 | 65 | ND(0.2) | ND(5) |
| | 3/18/96 | 25 | ND(2) | 24,000 | 258 | ND(10) | 383 | ND(50) | 34,800 | 33 | ND(50) | 520 | ND(50) | 1,620 | 179 | 42 | 68 | 0.36 | ND(5) |
| | 9/16/96 | 11 | ND(2) | 26,800 | 258 | ND(10) | 304 | ND(50) | 32,400 | 21 | ND(50) | 510 | ND(50) | 1,530 | 134 | 37 | 66 | 0.21 | ND(1) |
| | 7/9/97 | -- | -- | 317,000 | -- | -- | -- | -- | -- | 311 | -- | -- | -- | -- | -- | -- | -- | 1.5 | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-5 | 1/26/95 | 38 | 4.6 | 67,200 | 400 | ND(5) | 110 | 39 | 91,400 | 24 | ND(10) | 2,260 | 71 | 3,680 | 310 | 86 | 210 | ND(0.2) | ND(5) |
| | 3/17/95 | 7.2 | ND(2) | 7,160 | 115 | ND(5) | 14 | ND(10) | 14,700 | ND(5) | ND(10) | 724 | ND(50) | 444 | 66 | 12 | ND(50) | ND(0.2) | ND(5) |
| | 12/27/95 | 37 | ND(2) | 18,000 | 270 | ND(10) | 22 | 10 | 32,700 | 9.1 | ND(10) | 1,560 | ND(50) | 1,240 | 87 | 21 | 77 | ND(0.2) | ND(5) |
| | 3/19/96 | 46 | 4.4 | 22,200 | 177 | ND(10) | 41 | ND(50) | 36,600 | 36 | ND(10) | 952 | ND(50) | 279 | 136 | 49 | 62 | 0.23 | ND(1) |
| | 6/25/96 | 38 | ND(2) | 11,500 | 182 | ND(10) | 25 | ND(50) | 27,500 | 8.6 | ND(50) | 1,370 | ND(50) | 687 | 94 | 35 | 36 | ND(0.2) | ND(1) |
| | 9/17/96 | 29 | ND(2) | 10,800 | 219 | ND(10) | 19 | ND(50) | 27,000 | 7.3 | ND(50) | 1,660 | ND(50) | 618 | 103 | 21 | 32 | ND(0.2) | ND(1) |
| | 9/17/96(D) | 34 | ND(2) | 12,800 | 238 | ND(10) | 22 | ND(50) | 28,100 | 7.9 | ND(50) | 1,720 | ND(50) | 697 | 63 | 22 | 34 | 0.37 | ND(1) |
| P-6 | 3/16/95 | 3.4 | 2.2 | 3,000 | ND(100) | ND(5) | 21 | ND(10) | 4,670 | ND(5) | ND(10) | 108 | ND(50) | 243 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/20/95 | 12 | ND(2) | 18,900 | 257 | ND(10) | 59 | 17 | 26,800 | ND(5) | ND(10) | 494 | ND(50) | 1,520 | 110 | 21 | 67 | ND(0.2) | ND(5) |
| | 3/18/96 | 8.8 | ND(2) | 13,000 | 258 | ND(10) | 52 | ND(50) | 20,800 | 7.8 | ND(50) | 386 | ND(50) | 1,120 | 98 | 21 | 40 | ND(0.2) | ND(5) |
| | 6/20/96 | 4.6 | 2.2 | 11,200 | 215 | ND(10) | 45 | ND(50) | 17,500 | 10 | ND(50) | 423 | ND(50) | 919 | 166 | 21 | 35 | ND(0.2) | 1.6 |
| | 9/12/96 | 4.7 | 2.1 | 6,630 | 153 | ND(10) | 34 | ND(50) | 9,990 | ND(5) | ND(50) | 164 | ND(50) | 566 | ND(50) | 10 | 21 | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 4,850 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |

# TABLE 4.12

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)

| SAMPLE ID | SAMPLE DATE | TOTAL METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron (EPA Method 6010) | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Copper (EPA Method 6010) | Vanadium (EPA Method 6010) | Mercury (EPA Method 7470) | Thallium (EPA Method 7841) |
| P-6B | 3/3/99 | 12 | ND(2) | 38,500 | 556 | ND(5) | 66 | 19 | 44,600 | 26 | ND(10) | -- | 50 | 1,970 | 156 | 53 | 131 | ND(0.2) | ND(5) |
| | 7/14/99 | 8.5 | ND(2) | 23,200 | 514 | ND(5) | 39 | 13 | 30,600 | 17 | ND(10) | 1,310 | ND(50) | 1,340 | 116 | 24U | 78 | ND(0.2) | ND(5) |
| P-7 | 3/17/95 | 2.2 | ND(2) | 5,820 | ND(100) | ND(5) | 18 | ND(10) | 8,160 | ND(5) | ND(10) | 150 | ND(50) | 364 | 64 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/17/95(D) | ND(2) | ND(2) | 2,590 | ND(100) | ND(5) | 13 | ND(10) | 3,700 | ND(5) | ND(10) | 126 | ND(50) | 160 | 57 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/21/95 | 7.0 | ND(2) | 10,400 | ND(100) | ND(10) | 28 | ND(10) | 14,300 | ND(5) | ND(10) | 246 | ND(50) | 656 | 106 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/18/96 | 6.4 | ND(2) | 5,080 | ND(100) | ND(10) | 16 | ND(50) | 7,380 | 6.8 | ND(50) | 168 | ND(50) | 326 | 100 | 10 | 20 | ND(0.2) | ND(5) |
| | 6/24/96 | 2.6 | ND(2) | 2,800 | ND(100) | ND(10) | 10 | ND(50) | 4,450 | ND(5) | ND(50) | 90 | ND(50) | 197 | ND(50) | ND(10) | 14 | ND(0.2) | ND(1) |
| | 9/16/96 | 2.4 | ND(2) | 1,630 | ND(100) | ND(10) | 7 | ND(50) | 2,300 | ND(5) | ND(50) | 77 | ND(50) | 101 | ND(50) | ND(10) | 11 | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 5,920 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/4/99 | 9.0 | ND(2) | 13,800 | 166 | ND(5) | 20 | ND(10) | 15,300 | 14 | 11 | -- | ND(50) | 727 | 60 | 31 | 37 | ND(0.2) | ND(5) |
| | 7/15/99 | 9.2 | ND(2) | 14,000 | 184 | ND(5) | 22 | ND(10) | 16,500 | 9.8 | ND(10) | 452 | ND(50) | 762 | 66 | 27U | 38 | ND(0.2) | ND(5) |
| P-8 | 3/16/95 | 2.4 | 3.8 | 1,700 | ND(100) | ND(5) | 53 | ND(10) | 2,670 | ND(5) | ND(10) | 38 | ND(50) | 91 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | WELL ABANDONED 8/96 | | | | | | | | | | | | | | | | | | |
| P-9 | 3/16/95 | ND(2) | ND(2) | 308 | ND(100) | ND(5) | 12 | ND(10) | 482 | 482 | ND(10) | 21 | ND(50) | ND(10) | 57 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/20/95 | 8.4 | ND(2) | 3,580 | ND(100) | ND(10) | 19 | ND(10) | 3,570 | ND(5) | ND(10) | 114 | ND(50) | 136 | 52 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/18/96 | 12 | ND(2) | 15,800 | 131 | ND(10) | 58 | ND(50) | 23,900 | 8.1 | ND(50) | 256 | ND(50) | 1,080 | 110 | 16 | 48 | ND(0.2) | ND(5) |
| | 6/26/96 | 2.6 | ND(2) | 4,140 | ND(100) | ND(10) | 24 | ND(50) | 5,930 | ND(5) | ND(50) | 57 | ND(50) | 287 | 80 | 11 | 15 | ND(0.2) | ND(1) |
| | 9/12/96 | 16 | ND(2) | 20,400 | 202 | ND(10) | 56 | ND(50) | 25,800 | 29 | ND(50) | 450 | ND(50) | 1,250 | 186 | 38 | 59 | 0.30 | 1.2 |
| | 7/9/97 | -- | -- | 3,570 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | WELL ABANDONED 10/96 | | | | | | | | | | | | | | | | | | |
| P-9B | 3/3/99 | 2.3 | ND(2) | 4,600 | 100 | ND(5) | 32 | ND(10) | 6,530 | ND(5) | ND(10) | -- | ND(50) | 295J | ND(50) | ND(10) | 15 | ND(0.2) | ND(5) |
| | 7/14/99 | ND(2) | ND(2) | 1,240 | 91 | ND(5) | ND(10) | ND(10) | 1,990 | ND(5) | ND(10) | 20 | ND(50) | 80 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-10 | 3/16/95 | 6.4 | 2.8 | 2,600 | ND(100) | ND(5) | 27 | ND(10) | 2,390 | ND(5) | ND(10) | 47 | ND(50) | 105 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/19/95 | 9.4 | 2.8 | 1,120 | ND(100) | ND(10) | 26 | ND(10) | 1,000 | ND(5) | ND(10) | 153 | ND(50) | ND(10) | 51 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/14/96 | 3.6 | 2.0 | 3,750 | ND(100) | ND(10) | 32 | ND(50) | 4,680 | ND(5) | ND(50) | 80 | ND(50) | 192 | 62 | ND(10) | 13 | ND(0.2) | ND(5) |
| | 6/18/96 | 5.2 | 2.0 | 1,520 | ND(100) | ND(10) | 27 | ND(50) | 1,830 | ND(5) | ND(50) | 64 | ND(50) | 71 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 9/11/96 | 3.8 | 2.1 | 2,100 | ND(100) | ND(10) | 29 | ND(50) | 2,580 | ND(5) | ND(50) | 44 | ND(50) | 77 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 7/8/97 | -- | -- | 1,690 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/1/99 | ND(2) | 2.8 | 196 | 76 | ND(5) | 26 | ND(10) | 190 | ND(5) | ND(10) | -- | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| | 7/13/99 | 2.4 | ND(2) | 1,180J | 74 | ND(5) | 26 | ND(10) | 1,730 | ND(5) | ND(10) | 29 | ND(50) | 69 | ND(50) | 10 | ND(10) | ND(0.2) | ND(5) |
| P-11 | 12/27/95 | 6.8 | ND(2) | 16,200 | 170 | ND(10) | 62 | ND(10) | 18,600 | 5.9 | ND(10) | 199 | ND(50) | 1,090 | 57 | 11 | 85 | ND(0.2) | ND(5) |
| | 3/14/96 | 4.6 | ND(2) | 2,850 | 124 | ND(10) | 21 | ND(50) | 4,190 | ND(5) | ND(50) | 51 | ND(50) | 188 | 52 | ND(10) | 12 | ND(0.2) | ND(5) |
| | 6/19/96 | 4.0 | 2.0 | 1,690 | ND(100) | ND(10) | 21 | ND(50) | 1,490 | ND(5) | ND(50) | 60 | ND(50) | 54 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 9/11/96 | 4.1 | ND(2) | 8,550 | 146 | ND(10) | 35 | ND(50) | 10,900 | ND(5) | ND(50) | 105 | ND(50) | 535 | ND(50) | 15 | 22 | ND(0.2) | ND(1) |
| | 7/8/97 | -- | -- | 2,180 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-12 | 12/21/95 | 17 | 2.2 | 47,200 | 323 | ND(10) | 109 | 42 | 59,600 | 7.1 | ND(10) | 626 | ND(10) | 2,480 | 230 | 38 | 159 | 0.31 | ND(5) |
| | 3/19/96 | 8.8 | 3.2 | 31,000 | 308 | ND(10) | 91 | 57 | 45,500 | 16 | ND(50) | 547 | ND(50) | 2,740 | 300 | 41 | 95 | 1.2 | ND(1) |
| | 6/26/96 | 5.9 | 2.3 | 14,300 | 208 | ND(10) | 54 | ND(50) | 21,100 | 10 | ND(50) | 249 | ND(50) | 950 | 78 | 21 | 46 | 1.5 | ND(1) |
| | 6/26/96(D) | 6.3 | 2.1 | 18,800 | 237 | ND(10) | 63 | ND(50) | 26,800 | 10 | ND(50) | 312 | ND(50) | 1,220 | 98 | 25 | 54 | 1.6 | ND(1) |
| | 9/18/96 | 4.0 | ND(2) | 4,410 | 191 | ND(10) | 29 | ND(50) | 6,090 | ND(5) | ND(50) | 92 | ND(50) | 312 | ND(50) | ND(10) | 16 | 0.7 | ND(1) |
| | 7/10/97 | -- | -- | 852 | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | 0.53 | -- |
| | 3/3/99 | 3.2 | ND(2) | 3,100 | 190 | ND(5) | 32 | 53 | 5,100 | ND(5) | ND(10) | -- | ND(50) | 19 | ND(50) | 16 | 11 | 0.5 | ND(5) |
| | WELL DAMAGED 7/99 | | | | | | | | | | | | | | | | | | |
| P-13 | 12/21/95 | 6.8 | 7.4 | 1,510 | ND(100) | ND(10) | 15 | ND(10) | 1,060 | 5.2 | ND(10) | 87 | ND(50) | 19 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/14/96 | 3.2 | 6.6 | 6,330 | ND(100) | ND(10) | 29 | ND(50) | 8,780 | 5.4 | ND(50) | 113 | ND(50) | 381 | 87 | 12 | 22 | ND(0.2) | ND(5) |
| | 6/19/96 | 3.0 | 7.8 | 2,140 | ND(100) | ND(10) | 18 | ND(50) | 2,890 | ND(5) | ND(50) | 53 | ND(50) | 125 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 9/11/96 | 3.0 | 7.2 | 3,340 | ND(100) | ND(10) | 20 | ND(50) | 4,040 | ND(5) | ND(50) | 53 | ND(50) | 138 | ND(50) | ND(10) | 11 | 0.34 | ND(1) |
| | 7/8/97 | -- | -- | 6,660 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |

# TABLE 4.12

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)



| SAMPLE ID | SAMPLE DATE | TOTAL METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron (EPA Method 6010) | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Copper (EPA Method 6010) | Vanadium (EPA Method 6010) | Mercury (EPA Method 7470) | Thallium (EPA Method 7841) |
| P-14 | 12/21/95 | 33 | 3.4 | 5,170 | ND(100) | ND(10) | 2,400 | ND(10) | 5,520 | 5.2 | ND(10) | 285 | ND(50) | 216 | 58 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/19/96 | 24 | 4.0 | 21,000 | 114 | ND(10) | 1,800 | ND(50) | 34,000 | 17 | ND(50) | 649 | ND(50) | 2,250 | 193 | 41 | 74 | ND(0.2) | ND(1) |
| | 6/26/96 | 11 | 3.4 | 9,060 | ND(100) | ND(10) | 1,520 | ND(50) | 12,900 | 9.1 | ND(50) | 245 | ND(50) | 564 | 108 | 19 | 28 | ND(0.2) | ND(1) |
| | 9/17/96 | 11 | 2.5 | 8,600 | ND(100) | ND(10) | 1,500 | ND(50) | 12,400 | 7.5 | ND(50) | 241 | ND(50) | 553 | 54 | 17 | 29 | ND(0.2) | ND(1) |
| | 7/10/97 | -- | -- | 1,700 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-15 | 12/27/95 | 5.6 | ND(2) | 3,820 | ND(100) | ND(10) | 372 | ND(10) | 5,290 | ND(5) | ND(10) | 72 | ND(50) | 279 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/19/96 | 5.4 | 2.0 | 5,780 | ND(100) | ND(10) | 223 | ND(50) | 7,490 | ND(5) | ND(50) | 109 | ND(50) | 1,580 | 175 | ND(10) | 21 | ND(0.2) | ND(1) |
| | 6/26/96 | 5.9 | ND(2) | 6,270 | ND(100) | ND(10) | 88 | ND(50) | 8,710 | 10 | ND(50) | 144 | ND(50) | 399 | ND(50) | 19 | 21 | ND(0.2) | ND(1) |
| | 9/18/96 | 4.9 | ND(2) | 4,070 | ND(100) | ND(10) | 73 | ND(50) | 4,980 | 10 | ND(50) | 107 | ND(50) | 257 | 66 | ND(10) | 13 | ND(0.2) | ND(1) |
| | 7/10/97 | -- | -- | 448 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-16A | 12/26/95 | 12 | 2.4 | 17,700 | ND(100) | ND(10) | 70 | ND(10) | 24,100 | 7.1 | ND(10) | 240 | ND(50) | 979 | 89 | 13 | 72 | ND(0.2) | ND(5) |
| | 3/18/96 | 7.0 | 2.4 | 15,600 | ND(100) | ND(10) | 70 | ND(50) | 22,800 | 8.4 | ND(50) | 278 | ND(50) | 820 | 140 | 19 | 49 | ND(0.2) | ND(5) |
| | 3/18/96(D) | 14 | 2.0 | 6,840 | ND(100) | ND(10) | 45 | ND(50) | 10,400 | 10 | ND(50) | 219 | ND(50) | 358 | 133 | 11 | 25 | ND(0.2) | ND(5) |
| | 6/25/96 | 7.0 | 3.0 | 12,600 | ND(100) | ND(10) | 90 | ND(50) | 19,800 | 6.1 | ND(50) | 254 | ND(50) | 659 | 93 | 16 | ND(10) | ND(0.2) | ND(1) |
| | 9/16/96 | 7.2 | ND(2) | 4,740 | ND(100) | ND(10) | 36 | ND(50) | 6,530 | ND(5) | ND(50) | 88 | ND(50) | 246 | ND(50) | ND(10) | 17 | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 1,580 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 3/4/99 | 9.3 | ND(2) | 8,380 | 156 | ND(5) | 21 | ND(10) | 8,350 | 9.2 | ND(10) | -- | ND(50) | 438 | ND(50) | ND(10) | 22 | ND(0.2) | ND(5) |
| | 7/15/99 | 9.2 | ND(2) | 4,530 | 104 | ND(5) | 21 | ND(10) | 5,240 | ND(5) | ND(10) | 102 | ND(50) | 247 | ND(50) | 53U | 16 | ND(0.2) | ND(5) |
| P-16B | 12/19/95 | ND(2) | 3.0 | 87 | 144 | ND(10) | ND(5) | ND(10) | 147 | ND(5) | 11 | 87 | ND(50) | ND(10) | 504 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 12/19/95(D) | 2.0 | 2.8 | 85 | 143 | ND(10) | ND(5) | ND(10) | 165 | ND(5) | ND(10) | 86 | ND(50) | ND(10) | 510 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/18/96 | ND(2) | 3.2 | 300 | 170 | ND(10) | ND(5) | ND(50) | 280 | ND(5) | ND(50) | 88 | ND(50) | 14 | 561 | ND(10) | ND(10) | ND(0.2) | ND(5) |
| | 6/24/96 | ND(2) | 5.8 | 126 | 446 | ND(10) | ND(5) | ND(50) | 233 | ND(5) | ND(50) | 23 | ND(50) | ND(10) | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | WELL DESTROYED 8/96 | | | | | | | | | | | | | | | | | | |
| P-16C | 9/12/96 | 3.2 | 5.6 | 381 | 391 | ND(10) | ND(5) | ND(50) | 405 | ND(5) | ND(50) | 332 | ND(50) | 19 | 1,370 | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 256 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 3/2/99 | 2.6 | 4.3 | 3,680 | 451 | ND(5) | ND(10) | ND(10) | 4,000 | ND(5) | ND(10) | -- | ND(50) | 209J | 61 | ND(10) | ND(10) | ND(0.2) | ND(5) |
| | 7/14/99 | 2.0 | 3.5 | 3,440 | 502 | ND(5) | ND(10) | ND(10) | 4,100 | ND(5) | ND(10) | 89 | ND(50) | 186 | 81 | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-17 | 12/21/95 | 21 | ND(2) | 2,700 | ND(100) | ND(10) | 881 | ND(10) | 949 | ND(5) | ND(10) | 249 | ND(50) | ND(10) | 78 | ND(10) | ND(50) | 0.22 | ND(5) |
| | 3/19/96 | 10 | 2.0 | 18,300 | 116 | ND(10) | 770 | ND(50) | 28,600 | 12 | ND(50) | 388 | ND(50) | 382 | 138 | 24 | 58 | ND(0.2) | ND(1) |
| | 9/18/96 | 11 | ND(2) | 19,400 | 210 | ND(10) | 1,080 | ND(50) | 23,400 | 35 | ND(50) | 447 | ND(50) | 1,200 | 282 | 102 | 49 | ND(0.2) | 21 |
| | 7/10/97 | -- | -- | 340 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 3/4/99 | 2.5 | ND(2) | 2,580 | 69 | ND(5) | 40 | ND(10) | 3,370 | 7.4 | ND(10) | -- | ND(50) | 165 | ND(50) | 21 | ND(10) | ND(0.2) | ND(5) |
| | 7/15/99 | 2.6 | ND(2) | 2,950 | 86 | ND(5) | 34 | ND(10) | 3,890 | 7.2 | ND(10) | 70 | ND(50) | 185 | 173 | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-18 | 12/26/95 | 10 | 3.6 | 18,400 | ND(100) | ND(10) | 52 | ND(10) | 26,700 | 6.7 | ND(10) | 256 | ND(50) | 1,080 | 74 | 11 | 68 | ND(0.2) | ND(5) |
| | 3/19/96 | 12 | 2.0 | 10,800 | ND(100) | ND(10) | 50 | ND(50) | 17,700 | 11 | ND(50) | 209 | ND(50) | 612 | 75 | 16 | 33 | ND(0.2) | ND(1) |
| | 9/12/96 | 20 | 3.3 | 25,400 | 223 | ND(10) | 69 | ND(50) | 34,100 | 32 | ND(50) | 567 | ND(50) | 1,390 | 164 | 47 | 86 | ND(0.2) | 1.1 |
| | 9/12/96(D) | 18 | 3.4 | 24,700 | 220 | ND(10) | 68 | ND(50) | 33,500 | 31 | ND(50) | 557 | ND(50) | 1,390 | 165 | 47 | 84 | ND(0.2) | ND(1) |
| | 7/8/97 | -- | -- | 4,550 | -- | -- | -- | -- | -- | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-19 | 12/26/95 | 15 | 3.8 | 25,300 | 111 | ND(10) | 72 | 11 | 36,500 | 8.9 | ND(10) | 347 | ND(50) | 1,540 | 87 | 14 | 91 | ND(0.2) | ND(5) |
| | 3/19/96 | 11 | 3.0 | 17,300 | ND(100) | ND(10) | 66 | ND(50) | 26,400 | 9.0 | ND(50) | 281 | ND(50) | 1,040 | 124 | 18 | 53 | ND(0.2) | 1.3 |
| | 6/25/96 | 29 | 3.0 | 7,860 | ND(100) | ND(10) | 35 | ND(50) | 12,100 | ND(5) | ND(50) | 147 | ND(50) | 467 | 85 | 10 | 27 | ND(0.2) | ND(1) |
| | 9/17/96 | 4.9 | 3.0 | 5,670 | ND(100) | ND(10) | 34 | ND(50) | 8,250 | ND(5) | ND(50) | 105 | ND(50) | 328 | ND(50) | ND(10) | 19 | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 1,220 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |

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# TABLE 4.12

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL METALS, FORMER ILM FACILITY, TORRANCE, CALIFORNIA
(Continued)

| SAMPLE ID | SAMPLE DATE | TOTAL METALS[1] (in µg/L) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron (EPA Method 6010) | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Manganese (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Copper. (EPA Method 6010) | Vanadium (EPA Method 6010) | Mercury (EPA Method 7470) | Thallium (EPA Method 7841) |
| P-20 | 12/27/95 | 6.2 | ND(2) | 4,110 | ND(100) | ND(10) | 42 | ND(10) | 5,120 | ND(5) | ND(10) | 104 | ND(50) | 290 | ND(50) | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/18/96 | 4.6 | ND(2) | 5,830 | ND(100) | ND(10) | 36 | ND(50) | 8,700 | 6.6 | ND(50) | 170 | ND(50) | 416 | 65 | 10 | 22 | ND(0.2) | ND(5) |
| | 6/25/96 | 7.4 | ND(2) | 5,840 | ND(100) | ND(10) | 34 | ND(50) | 8,830 | ND(5) | ND(50) | 168 | 250 | 392 | 59 | ND(10) | 21 | ND(0.2) | ND(1) |
| | 9/16/96 | 5.7 | ND(2) | 3,990 | ND(100) | ND(10) | 25 | ND(50) | 5,360 | ND(5) | ND(50) | 124 | ND(50) | 262 | ND(50) | ND(10) | 13 | ND(0.2) | ND(1) |
| | 7/10/97 | -- | -- | 245 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/4/99 | 4.4 | ND(2) | 4,060 | 102 | ND(5) | 39 | 19 | 5,700 | 5.2 | ND(10) | -- | ND(50) | 290 | ND(50) | 23 | 12 | ND(0.2) | ND(5) |
| | 3/4/99(D)[1] | 4.5 | ND(2) | 4,690 | 106 | ND(5) | 43 | 22 | 6,360 | 6.0 | ND(10) | -- | ND(50) | 329 | ND(50) | 12 | 15 | ND(0.2) | ND(5) |
| | 7/16/99 | ND(2) | ND(2) | 1,640 | 109 | ND(5) | 26 | 14 | 2,350 | ND(5) | ND(10) | 53 | ND(50) | 112 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| | 7/16/99(D)[3] | ND(2) | ND(2) | 1,430 | 109 | ND(5) | 26 | 13 | 2,140 | ND(5) | ND(10) | 49 | ND(50) | 99 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-21 | 12/26/95 | 8.4 | ND(2) | 12,500 | 125 | ND(10) | 36 | ND(10) | 16,300 | 13 | ND(10) | 188 | ND(50) | 857 | 79 | ND(10) | 60 | ND(0.2) | ND(5) |
| | 3/18/96 | 5.8 | ND(2) | 2,350 | ND(100) | ND(10) | 11 | ND(50) | 3,650 | 10 | ND(50) | 166 | ND(50) | 151 | 54 | ND(10) | 12 | ND(0.2) | ND(5) |
| | 6/25/96 | ND(2) | ND(2) | 5,540 | ND(100) | ND(10) | 24 | ND(50) | 8,610 | ND(5) | ND(50) | 393 | ND(50) | 352 | 60 | 11 | 22 | ND(0.2) | ND(1) |
| | 9/17/96 | 4.2 | ND(2) | 3,230 | ND(100) | ND(10) | 14 | ND(50) | 4,580 | ND(5) | ND(50) | 120 | ND(50) | 192 | ND(50) | ND(10) | 13 | ND(0.2) | ND(1) |
| | 7/10/97 | -- | -- | 281 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-22 | 12/20/95 | 19 | 6.4 | 3,120 | ND(100) | ND(10) | 11 | ND(10) | 2,520 | 5.2 | ND(10) | 228 | ND(50) | 64 | 171 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/18/96 | 5.0 | 5.2 | 7,810 | ND(100) | ND(10) | 23 | ND(50) | 7,970 | 10 | ND(50) | 460 | ND(50) | 349 | 103 | ND(10) | 24 | ND(0.2) | ND(5) |
| | 6/20/96 | 6.2 | 7.4 | 3,950 | ND(100) | ND(10) | 17 | ND(50) | 4,250 | 10 | ND(50) | 241 | ND(50) | 163 | 84 | ND(10) | 14 | ND(0.2) | ND(1) |
| | 9/12/96 | 6.0 | 6.3 | 5,370 | ND(100) | ND(10) | 21 | ND(50) | 5,440 | ND(5) | ND(50) | 184 | ND(50) | 236 | ND(50) | ND(10) | 14 | ND(0.2) | ND(1) |
| | 7/9/97 | -- | -- | 260 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/3/99 | 4.2 | 2.3 | 2,200 | 184 | ND(5) | 25 | ND(10) | 2,420 | ND(5) | ND(10) | -- | ND(50) | 139J | ND(50) | ND(10) | 12 | ND(0.2) | ND(5) |
| | 7/15/99 | 4.0 | 2.1 | 473 | 187 | ND(5) | 16 | ND(10) | 690 | ND(5) | ND(10) | 27 | ND(50) | 22J | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(5) |
| P-23 | 12/20/95 | 4.4 | ND(2) | 824 | ND(100) | ND(10) | 13 | ND(10) | 1,090 | ND(5) | ND(10) | 32 | ND(50) | 44 | 70 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/14/96 | 2.8 | ND(2) | 1,080 | ND(100) | ND(10) | 16 | ND(50) | 1,250 | ND(5) | ND(50) | 29 | ND(50) | 55 | 54 | ND(10) | ND(10) | ND(0.2) | ND(5) |
| | 6/20/96 | 3.4 | ND(2) | 1,220 | ND(100) | ND(10) | 16 | ND(50) | 1,820 | ND(5) | ND(50) | 39 | ND(50) | 82 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 9/11/96 | 3.9 | ND(2) | 856 | ND(100) | ND(10) | 14 | ND(50) | 1,140 | ND(5) | ND(50) | 16 | ND(50) | 50 | ND(50) | ND(10) | ND(10) | ND(0.2) | ND(1) |
| | 7/8/97 | -- | -- | 583 | -- | ND(10) | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | ND(0.2) | -- |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |
| P-24 | 12/20/95 | 9.6 | ND(2) | 9,720 | ND(100) | ND(10) | 38 | 11 | 14,400 | ND(5) | ND(10) | 995 | ND(50) | 621 | 106 | ND(10) | ND(50) | ND(0.2) | ND(5) |
| | 3/19/96 | 14 | ND(2) | 20,200 | 130 | ND(10) | 65 | ND(50) | 31,800 | 14 | ND(50) | 1,480 | ND(50) | 1,370 | 180 | 28 | 63 | ND(0.2) | ND(1) |
| | 6/24/96 | 5.6 | ND(2) | 6,610 | ND(100) | ND(10) | 18 | ND(50) | 10,700 | ND(5) | ND(50) | 771 | ND(50) | 416 | ND(50) | ND(10) | 21 | ND(0.2) | ND(1) |
| | 9/17/96 | 7.4 | ND(2) | 14,200 | 131 | ND(10) | 29 | ND(50) | 19,000 | 8.3 | ND(50) | 1,020 | ND(50) | 914 | 86 | 16 | 41 | 8.4 | ND(1) |
| | 9/17/96(D) | 6.2 | ND(2) | 9,010 | 100 | ND(10) | 25 | ND(50) | 12,000 | 6.1 | ND(50) | 890 | ND(50) | 576 | 61 | 13 | 25 | 5.8 | ND(1) |
| | 7/9/97 | -- | -- | 898,000 | -- | 109 | -- | -- | -- | 143 | -- | -- | -- | -- | -- | -- | -- | 20 | -- |
| | 3/3/99 | 4.9 | ND(2) | 5,250 | 144 | ND(5) | 13 | ND(10) | 5,760 | ND(5) | ND(10) | -- | ND(50) | 274J | ND(50) | ND(10) | 15 | ND(0.2) | ND(5) |
| | 7/15/99 | 5.9 | ND(2) | 4,150 | 147 | ND(5) | 12 | ND(10) | 5,180 | ND(5) | ND(10) | 181 | ND(50) | 197 | ND(50) | 23U | 14 | ND(0.2) | ND(5) |
| P-25 | 12/26/95 | 13 | ND(2) | 22,400 | 119 | ND(10) | 490 | 12 | 30,600 | 12 | ND(10) | 360 | ND(50) | 1,680 | 98 | 17 | 78 | ND(0.2) | ND(5) |
| | 3/19/96 | 11 | ND(2) | 15,600 | ND(100) | ND(10) | 308 | ND(50) | 24,800 | 7.1 | ND(50) | 322 | ND(50) | 1,180 | 117 | 20 | 46 | ND(0.2) | ND(1) |
| | 6/26/96 | 8.6 | ND(2) | 12,100 | ND(100) | ND(10) | 453 | ND(50) | 18,300 | 10 | ND(50) | 230 | ND(50) | 810 | 119 | 27 | 32 | ND(0.2) | ND(1) |
| | 9/18/96 | 5.1 | ND(2) | 5,030 | ND(100 | ND(10) | 488 | ND(50) | 7,530 | ND(5) | ND(50) | 101 | ND(50) | 373 | ND(50) | ND(10) | 15 | ND(0.2) | ND(1) |
| | 7/10/97 | -- | -- | 937 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | 7/10/97(D) | -- | -- | 2,940 | -- | -- | -- | -- | -- | ND(5) | -- | -- | -- | -- | -- | -- | -- | -- | ND(1) |
| | WELL ABANDONED 10/97 | | | | | | | | | | | | | | | | | | |

99-200/Rpts/DrGrWaFcFa (1/7/1999/kh)

(1) Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
(2) Duplicate sample for P-20 is identified as P-29 in laboratory reports.
(3) Duplicate sample for P-20 is identified as P-30 in laboratory reports.

µg/L Micrograms per liter
ND( ) Analytes not detected above the particle quantitation limit (in parentheses)
(D) Duplicate sample
-- Not sampled

Data Validation Qualifiers (for more information, see Data Validation Report, Appendix G).
U Not detected
J Estimated, detected

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# TABLE 4.13

## SUMMARY OF GROUND WATER ANALYTICAL RESULTS
## TOTAL METALS, BRC PROPERTY, TORRANCE, CALIFORNIA

| SAMPLE ID | SAMPLE DATE | TOTAL METALS[1] (in µg/L) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Arsenic (SM 3114B) | Selenium (SM 3114B) | Aluminum (EPA Method 6010) | Barium (EPA Method 6010) | Cadmium (EPA Method 6010) | Chromium (EPA Method 6010) | Cobalt (EPA Method 6010) | Iron (EPA Method 6010) | Lead (EPA Method 7421) | Molybdenum (EPA Method 6010) | Nickel (EPA Method 6010) | Titanium (EPA Method 6010) | Zinc (EPA Method 6010) | Copper (EPA Method 6010) | Vanadium (EPA Method 6010) | Mercury (EPA Method 7470) | Thallium (EPA Method 7841) |
| BL-1 | 3/4/99 | 110J | 2.4 | 97,800J | 367J | ND(5) | 195J | 73J | 154,000J | 55J | 12 | 123 | 4,920J | 394J | 110J | 317J | 0.29 | ND(5) |
| | 3/4/99[2] | 166J | 3.5 | 131,000J | 508J | ND(5) | 280J | 111J | 229,000J | 87J | 17 | 182 | 7,510 | 654J | 146J | 459J | 0.46 | ND(5) |
| | 7/13/99 | 157 | ND(2) | 122,000J | 589 | ND(5) | 258 | 109 | 217,000 | 74 | 15 | 180 | 7,000 | 568 | 182 | 428 | 0.71 | ND(5) |
| BL-2 | 3/3/99 | 59 | ND(2) | 41,500 | 200 | ND(5) | 119 | 24 | 63,400 | 13 | ND(10) | 51 | 2,870 | 146 | 39 | 126 | ND(0.2) | ND(5) |
| | 7/14/99 | 146 | ND(2) | 90,300J | 448 | ND(5) | 280 | 58 | 155,000 | 38 | ND(10) | 130 | 6,150 | 371 | 53 | 286 | ND(0.2) | ND(5) |
| BL-3 | 3/3/99 | 20 | ND(2) | 24,400 | 328 | ND(5) | 92 | 10 | 37,400 | 8.9 | ND(10) | ND(50) | 1,360 | 86 | ND(10) | 75 | ND(0.2) | ND(5) |
| | 7/15/99 | 60 | ND(2) | 62,900 | 722 | ND(5) | 243 | 32 | 100,000 | 27 | ND(10) | 83 | 3,410 | 232 | ND(10) | 189 | 0.22U | ND(5) |
| BL-4 | 3/2/99 | 12 | ND(2) | 36,600 | 168 | ND(5) | 114 | 17 | 49,300 | 15 | ND(10) | 54 | 2,240 | 119 | 33 | 118 | ND(0.2) | ND(5) |
| | 7/14/99 | 13 | ND(2) | 38,600J | 191 | ND(5) | 117 | 20 | 54,000 | 17 | ND(10) | 52 | 2,360 | 131 | 36 | 125 | ND(0.2) | ND(5) |
| BL-5 | 3/4/99 | 12 | 3.4 | 18,000 | 110 | ND(5) | 84 | ND(10) | 28,900 | 10 | ND(10) | ND(50) | 946 | 122 | 30 | 55 | ND(0.2) | ND(5) |
| | 7/13/99 | 17 | ND(2) | 28,000J | 220 | ND(5) | 122 | 12 | 47,200 | 15 | ND(10) | ND(50) | 1,440 | 128 | 20 | 88 | ND(0.2) | ND(5) |
| BL-6 | 3/1/99 | 109 | 2.2 | 89,300 | 453 | ND(5) | 450 | 39 | 120,000 | 20 | 14 | 108 | 4,140 | 279 | ND(10) | 202 | 0.27 | ND(5) |
| | 7/16/99 | 275 | ND(2) | 284,000 | 1,720 | 7.9 | 1,160 | 158 | 431,000 | 111 | 28 | 375 | 10,800 | 1,070 | ND(10) | 729 | ND(0.2) | ND(5) |
| | 7/16/99[3] | 338 | 2.1 | 244,000 | 1,530 | 5.3 | 1,040 | 137 | 375,000 | 100 | 24 | 324 | 9,150 | 939 | ND(10) | 639 | 0.74 | ND(5) |
| BL-7 | 3/2/99 | 86 | ND(2) | 62,300 | 203 | ND(5) | 255 | 31 | 106,000 | 23 | 11 | 99 | 3,740 | 256 | 29 | 188 | ND(0.2) | ND(5) |
| | 7/14/99 | 99 | ND(2) | 66,100J | 258 | ND(5) | 285 | 36 | 116,000 | 32 | 11 | 109 | 3,830 | 262 | 64 | 210 | ND(0.2) | ND(5) |
| BL-8 | 3/2/99 | 25 | ND(2) | 22,100 | 188 | ND(5) | 95 | ND(10) | 32,900 | 8 | ND(10) | ND(50) | 1,420 | 74 | ND(10) | 62 | ND(0.2) | ND(5) |
| | 7/13/99 | 106 | ND(2) | 86,500J | 663 | ND(5) | 330 | 42 | 142,000 | 36 | ND(10) | 118 | 5,190 | 315 | 70 | 250 | 0.22 | ND(5) |

99-200/Rpts/DrGrWaRcFa (11/19/99/dh)

(1) Only detected analytes are reported in table; results of all analyses are reported in laboratory reports.
(2) Duplicate sample for BL-1 is identified as B-17 in laboratory reports.
(3) Duplicate sample for BL-6 is identified as B-15 in laboratory reports.

µg/L Micrograms per liter
ND( ) Analytes not detected above the particle quantitation limit (in parentheses)
– Not sampled

Data Validation Qualifiers (for more information, see Data Validation Report, Appendix G).
U Not detected
J Estimated, detected

BOE-C6-0210553

**INDUSTRIAL LIGHT METALS SITE**

Summary of Natural Attenuation Parameters

## TABLE 4.14

## SUMMARY OF NATURAL ATTENUATION PARAMETERS ANALYTICAL RESULTS
## JULY 1999 GROUND WATER MONITORING
## FORMER ILM FACILITY, TORRANCE, CALIFORNIA

| METHOD | PARAMETER | UNITS | SAMPLE LOCATION | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P-1 | P-2 | P-3 | P-6B | P-7 | P-9B | P-10 | P-16A | P-16C | P-17 | P-20 | P-20(D) | P-22 | P-24 |
| **Ground Water Quality Parameters** | | | | | | | | | | | | | | | | |
| EPA 310.1 | Alkalinity | mg/L | 447 | 511 | 654 | 376 | 253 | 380 | 356 | 240 | 213 | 280 | 358 | 353 | 314 | 414 |
| EPA 350.1 | Ammonia Nitrogen | mg/L | ND(0.02) | 0.46 | ND(0.02) | 0.11 | 0.22 | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | 0.05 | 0.02 | ND(0.02) | 0.07 |
| Field | Specific Conductivity | µmhos/cm | 1,570 | 4,010 | 2,260 | 1,750 | 1,393 | 2,493 | 1,883 | 2,433 | 3,310 | 1,887 | 2,430 | 2,430 | 2,396 | 1,503 |
| EPA 415.1 | D.O.C. | mg/L | 8.1 | 6.7 | 7.0 | 2.9 | 7.2 | 6.9 | 5.3 | 2.0 | 6.0 | 5.0 | 8.1J | 4.4J | 4.9 | 6.1 |
| EPA 365.1 | ortho-Phosphate | mg/L | 0.12 | ND(0.05) | 0.09 | 0.15 | 1.9 | 0.08 | 0.95 | 4.7 | 0.11 | 0.10 | 0.17 | 0.17 | 2.2 | 2.3 |
| Field | Redox Potential | mV | 348.73 | -10.27 | 299.97 | 190.53 | 118.93 | 290.27 | 247.13 | 230.73 | 267.3 | 289.67 | 299.03 | 299.03 | 277.3 | 259.60 |
| Field | pH | pH Units | 7.39 | 7.13 | 7.28 | 7.62 | 7.47 | 7.25 | 7.51 | 7.29 | 7.30 | 7.37 | 7.26 | 7.26 | 7.09 | 7.57 |
| Field | Temperature | °C | 24.2 | 23.5 | 23.3 | 23.6 | 24.5 | 23.0 | 24.1 | 23.5 | 22.9 | 23.4 | 23.4 | 23.4 | 23.7 | 22.8 |
| **Terminal Electron Acceptor Parameters** | | | | | | | | | | | | | | | | |
| AM19GAX | D.O. | mg/L | 5.62 | 0.78 | 2.44 | 2.5 | 0.82 | 5.63 | 7.24 | 6.44 | 3.29 | 6.89 | 5.36 | 4.98 | 4.74 | 2.7 |
| Field | D.O. | % | 69.5 | 3.0 | 18.5 | 19.7 | 9.8 | 61.3 | 82.0 | 61.9 | 31.9 | 80.8 | 53.5 | 53.5 | 52.1 | 17.1 |
| EPA 353.2 | Nitrite/Nitrate | mg/L | 14 | 5.5 | 12 | 10 | 7.5 | 13 | 11 | 9.6 | 70 | 7.0 | 15 | 15 | 5.1 | 1.9 |
| EPA 6010 | Iron (total) | µg/L | 2,280 | 4,620 | 819 | 30,600 | 16,500 | 1,990 | 1,730 | 5,240 | 4,100 | 3,890 | 2,350 | 2,140 | 690 | 5,180 |
| Field | Iron (dissolved) | µg/L | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EPA 6010 | Manganese (total) | µg/L | 35 | 1,370 | 17 | 1,310 | 452 | 20 | 29 | 102 | 89 | 70 | 53 | 49 | 27 | 181 |
| EPA 6010 | Manganese (dissolved) | µg/L | ND(10) | 1,440 | ND(10) | 806 | 268 | ND(10) | 13 | ND(10) | ND(10) | 12 | ND(10) | ND(10) | ND(10) | 114 |
| EPA 300 | Sulfate | mg/L | 313 | 427 | 297 | 130 | 77 | 389 | 166 | 97 | 88 | 28 | 95 | 105 | 11 | 64 |
| Field | Hydrogen Sulfide | mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AM19GAX | Carbon Dioxide | mg/L | 44.45 | 64.55 | 85.86 | 25.68 | 20.69 | 71.23 | 29.90 | 28.12 | 19.68 | 24.92 | 51.57 | 51.72 | 67.36 | 27.84 |
| AM19GAX | Methane | µg/L | 0.603 | 0.12 | 0.76 | 4.377 | 0.086 | 1.167 | 0.621 | 0.536 | 2.355 | 0.266 | 3.302 | 3.293 | 0.487 | 82.54 |
| **Degradation Products** | | | | | | | | | | | | | | | | |
| EPA 300 | Chloride | mg/L | 200 | 896 | 409 | 436 | 361 | 374 | 367 | 626 | 980 | 394 | 667 | 675 | 881 | 387 |
| AM19GAX | Ethane | ng/L | 60 | 417 | ND(5) | 26 | ND(5) | ND(5) | ND(5) | 18 | ND(5) | 30 | 25 | 23 | 52 | 110 |
| AM19GAX | Ethene | ng/L | 16 | 76 | ND(5) | 82 | ND(5) | 17 | 11 | ND(5) | 51 | ND(5) | 10 | 15 | ND(5) | 104 |
| **Technical Quality Control Data** | | | | | | | | | | | | | | | | |
| AM19GAX | Nitrogen | mg/L | 13.74 | 15.09 | 16.16 | 19.58 | 16.46 | 15.54 | 14.93 | 16.79 | 20.65 | 13.85 | 16.71 | 15.60 | 16.48 | 16.65 |
| AM19GAX | Propane/Propene | ng/L | 142 | 502 | ND(10) | 50 | 48 | ND(10) | ND(10) | 130 | ND(10) | 184 | 149 | 147 | 153 | 256 |

99-2IXWRpts/DrGrWaRcFa (11/19/99/dh)

(D) = Field Duplicate
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
ND( ) = Not detected above method detection limit. Number in parentheses is the detection or practical quantitation limit.
D.O.C. = Dissolved Organic Carbon
D.O. = Dissolved Oxygen
mV = milliVolts
°C = Degrees Centigrade
% = percent saturation

Specific conductivity, pH, redox potential, temperature and D.O. (Field) result is an average of the last three measurements collected in the field.

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# TABLE 4.15

## SUMMARY OF NATURAL ATTENUATION PARAMETERS ANALYTICAL RESULTS
## JULY 1999 GROUND WATER MONITORING
## BRC PROPERTY TORRANCE, CALIFORNIA

| METHOD | PARAMETER | UNITS | SAMPLE LOCATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | BL-1 | BL-2 | BL-3 | BL-4 | BL-5 | BL-6 | BL-6(D) | BL-7 | BL-8 |
| **Ground Water Quality Parameters** | | | | | | | | | | | |
| EPA 310.1 | Alkalinity | mg/L | 544 | 340 | 323 | 257 | 445 | 369 | 373 | 350 | 242 |
| EPA 350.1 | Ammonia Nitrogen | mg/L | 0.04 | ND(0.02) | ND(0.02) | ND(0.02) | 0.02 | ND(0.02) | ND(0.02) | ND(0.02) | 0.02 |
| Field | Specific Conductivity | µmhos/cm | 1,797 | 1,017 | 4,060 | 596 | 1,900 | 1,530 | 1,530 | 950 | 2,450 |
| EPA 415.1 | D.O.C. | mg/L | 15 | 5.2 | 5.0 | 4.0 | 8.5 | 4.6 | 1.4 | 7.5 | 4.3 |
| EPA 365.1 | ortho-Phosphate | mg/L | 0.07 | 0.16 | 0.13 | 0.21 | 0.11 | 0.17 | 0.17 | 0.16 | 0.11 |
| Field | Redox Potential | mV | 192.6 | 267.73 | 253.57 | 275.80 | 127.17 | 255.87 | 255.87 | 272.90 | 247.0 |
| Field | pH | pH Units | 6.92 | 7.40 | 7.04 | 7.66 | 7.06 | 7.36 | 7.36 | 7.48 | 7.44 |
| Field | Temperature | °C | 23.9 | 22.7 | 23.4 | 23.0 | 23.9 | 22.2 | 22.2 | 22.9 | 23.8 |
| **Terminal Electron Acceptor Parameters** | | | | | | | | | | | |
| AM19GAX | D.O. | mg/L | 0.52 | 6.13 | 5.52 | 6.38 | 2.97 | 6.28 | 7.35 | 7.47 | 7.36 |
| Field | D.O. | % | 6.8 | 68.4 | 58.6 | 71.0 | 24.7 | 75.2 | 75.2 | 89.8 | 86.8 |
| EPA 353.2 | Nitrite/Nitrate | mg/L | 28 | 8.2 | 11.0 | 3.3 | 3.7 | 7.7 | 7.7 | 3.8 | 6.1 |
| EPA 6010 | Iron (total) | µg/L | 217,000 | 155,000 | 100,000 | 54,000 | 47,200 | 431,000 | 375,000 | 116,000 | 142,000 |
| Field | Iron (dissolved) | µg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EPA 6010 | Manganese (total) | µg/L | 3,320 | 2,680 | 1,090 | 945 | 642 | 7,490 | 6,520 | 1,080 | 1,280 |
| EPA 6010 | Manganese (dissolved) | µg/L | 16 | ND(10) | 13 | ND(10) | 38 | ND(10) | ND(10) | ND(10) | ND(10) |
| EPA 300 | Sulfate | mg/L | 151 | 59 | 65 | 94 | 7.7 | 72 | 78 | 59 | 29 |
| Field | Hydrogen Sulfide | mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AM19GAX | Carbon Dioxide | mg/L | 150.61 | 36.81 | 66.26 | 15.35 | 98.63 | 44.34 | 44.98 | 25.94 | 21.28 |
| AM19GAX | Methane | µg/L | 3.96 | 0.614 | 0.566 | 1.038 | 9.815 | 0.463 | 0.461 | 1.154 | 2.683 |
| **Degradation Products** | | | | | | | | | | | |
| EPA 300 | Chloride | mg/L | 251 | 95 | 1,140 | 44 | 485 | 331 | 332 | 103 | 770 |
| AM19GAX | Ethane | ng/L | ND(5) | ND(5) | 14 | ND(5) | 16 | 11 | 11 | ND(5) | ND(5) |
| AM19GAX | Ethene | ng/L | 70 | 29 | 29 | 18 | 76 | 37 | 36 | 11 | 22 |
| **Technical Quality Control Data** | | | | | | | | | | | |
| AM19GAX | Nitrogen | mg/L | 13.26 | 15.91 | 16.19 | 16.38 | 17.30 | 16.97 | 19.57 | 15.33 | 15.43 |
| AM19GAX | Propane/Propene | ng/L | 102 | ND(10) | 51 | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) | ND(10) |

99-2000/Rpts/DrGrWaRcFc (12/28/99/rm)

(D) = Field Duplicate
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
ND( ) = Not detected above method detection limit. Number in parentheses is the detection or practical quantitation limit.
D.O.C. = Dissolved Organic Carbon
D.O. = Dissolved Oxygen
mV = milliVolts
° C = Degrees Centigrade
% = Percent saturation

Specific conductivity, pH, redox potential, temperature and D.O. (Field) result is an average of the last three measurements collected in the field.

BOE-C6-02105556

# TABLE 5.1

## METAL CONCENTRATIONS IN GROUND WATER
## FORMER ILM FACILITY
## TORRANCE, CALIFORNIA

| METAL | RANGE OF SITE DISSOLVED METAL CONCENTRATIONS IN GROUND WATER | SITE MEAN METAL CONCENTRATIONS IN GROUND WATER (Detects Only) | TYPICAL RANGE OF NATURAL CONCENTRATIONS OF METALS IN GROUND WATER(1) |
|---|---|---|---|
| Arsenic | <2.0 to 33 | 4.8 | <1.0 to 30 |
| Barium | <100 to 492 | 178.39 | 10 to 500 |
| Chromium | <5.0 to 2,820 | 275.94 | <1.0 to 5.0 |
| Chromium (hexavalent) | <2.0 to 2,600 | 230.47 | Not Listed |
| Manganese | <10 to 3,690 | 536.46 | <1.0 to 1,000 |
| Selenium | <2.0 to 8.6 | 3.24 | <1.0 to 10 |
| Vanadium | <10 to 11 | 10.50 | <1.0 to 10 |
| Zinc | <10 to 1,500 | 106.80 | <10 to 2,000 |

99-200/Rpts/GrWaRcFalnRe (12/28/99/jb)

Note: All values in $\mu$g/L or ppb.

(1) Dragun, 1988.

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# TABLE 5.2

## LABORATORY-DERIVED REACTION PATHWAY, REACTION HALF-LIFE AND REACTION PRODUCTS



| CHLORINATED HYDROCARBON | | PATHWAY | REACTION HALF-LIFE | REACTION/ DEGRADATION PRODUCTS |
|---|---|---|---|---|
| Ethenes | PCE | Microbial Degradation (A/M/m) (A/M) | <2 days | TCE c-1,2-DCE t-1,2-DCE Vinyl chloride |
| | | Hydrolysis | 0.73 yr. | Alcohols Acids |
| | TCE | Microbial Degradation (A/M/m) (A/M) (A/S) | 0.3 yr. at high concentration; minimal at lower concentration | c-1,2-DCE t-1,2-DCE Vinyl chloride |
| | | Hydrolysis | 0.9 yr. | Alcohols Acids |
| | DCEs (cis and trans) | Microbial Degradation (A/M/m) (A/S) (A/M) | 8 to 10 weeks with methanogenic aquifer material (cis) 0.5 year under anoxic conditions (trans) | Vinyl Chloride Chloroethane |
| | Vinyl Chloride | Hydrolysis | <10 yr./slow | Alcohols Acids |
| | | Microbial Degradation (A/M/m) (O/P/mb) | Resistant to biodegradation in aerobic systems. 5 to 6 weeks in sand by methanogenic microorganisms under anaerobic conditions. | $CO_2$ |
| Ethanes | 1,1,2,2-Tetrachloroethane | Microbial Degradation (A/M/m) (A/M) | 4 weeks to 6 months, aerobic 1 to 4 weeks, anaerobic | 1,1,2-TCA |
| | | Dehydrohalogenation | -- | TCE |
| | 1,1,1-TCA | Hydrolysis | 0.5 to 2.5 yrs | 1,1-DCA Acetic Acid |
| | | Dehydrohalogenation | -- | 1,1-DCE |
| | | Microbial Degradation (A/S) (A/M/m) (A/M) | < 2 days to 2.5 yrs 20 to 39 weeks, aerobic 80 to 156 weeks, anaerobic | 1,1-DCA 1,1-DCE c-1,2,-DCE t-1,2-DCE Chloroethane Vinyl Chloride |

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# TABLE 5.2

## LABORATORY-DERIVED REACTION PATHWAY, REACTION HALF-LIFE AND REACTION PRODUCTS (Continued)



| CHLORINATED HYDROCARBON | | PATHWAY | REACTION HALF-LIFE | REACTION/ DEGRADATION PRODUCTS |
|---|---|---|---|---|
| Ethanes (Cont'd) | 1,1,2-TCA | Dehydrohalogenation | 170 yrs | 1,1-DCE |
| | 1,1-DCA | Microbial Degradation (A/M/m) | 5 to 22 weeks, aerobic<br>18 to 88 weeks, anaerobic | Vinyl Chloride<br>Chloroethane |
| | 1,2-DCA | Microbial Degradation (O/P/p) (O/P/x) (A/M/m) | Acclimated anaerobic system reports no degradation. Activated sludge system reports 99% removal due to stripping, 1% due to sorption and 0% due to biodegradation in 6 days. | $CO_2$<br>Alcohols |
| | Chloroethane | Hydrolysis | 5 - 6 weeks | Ethanol |

99-2100/Rpts/DrGrWaRcFa (12/28/99/rm)

Sources: Smith & Dragun, 1984
Vogel, Criddle & McCarthy, 1987
Howard, 1991
Howard, Boethling, Jarvis, Meylan and Michalenko, 1991

Notes:
A - Anaerobic
M - Mixed Culture
m - Methanogenic Culture
S - Soil/Aquifer Biological Seed
P - Pure Culture
mb - Mycobacterium
O - Aerobic
X - Xanthobacter
-- - No Data Available

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# TABLE 5.3

## WELL COMPARISON OF CHLORINATED HYDROCARBON AND NATURAL ATTENUATION PARAMETERS



| METHOD | PARAMETER | UNITS | IMPACTED WELLS | | | BACKGROUND WELLS(1) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | P-1 | BL-6 | P-20 | P-2 | BL-5 | P-10 | BL-8 |
| **Chlorinated Hydrocarbon Parameters** | | | | | | | | | |
| EPA 8260 | TCE | µg/L | 10,000 | 5,600 | 5,400 | ND (0.5) | 2.7 | 3.2 | 18 |
| | PCE | µg/L | 78 | ND (50) | ND (50) | ND (0.5) | ND (0.5) | ND (0.5) | ND (0.5) |
| | 1,1-DCE | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | 0.79 | ND (0.5) | ND (0.5) |
| | t-1,2-DCE | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | 0.55 | ND (0.5) | ND (0.5) |
| | c-1,2-DCE | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | 110 | ND (0.5) | ND (0.5) |
| | Vinyl Chloride | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | ND (0.5) | ND (0.5) | ND (0.5) |
| | 1,1,1-TCA | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | ND (0.5) | ND (0.5) | ND (0.5) |
| | 1,1,2-TCA | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | ND (0.5) | ND (0.5) | ND (0.5) |
| | 1,1-DCA | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | 0.56 | ND (0.5) | ND (0.5) |
| | 1,2-DCA | µg/L | ND (50) | ND (50) | ND (50) | ND (0.5) | ND (50) | ND (0.5) | ND (0.5) |
| **Ground Water Quality Parameters** | | | | | | | | | |
| EPA 310.1 | Alkalinity | mg/L | 447 | 369 | 358 | 511 | 445 | 356 | 242 |
| EPA 350.1 | Ammonia Nitrogen | mg/L | ND (0.02) | ND (0.02) | 0.05 | 0.46 | 0.02 | ND (0.02) | 0.02 |
| Field | Specific Conductivity(2) | µmhos/cm | 1,570 | 1,530 | 2,430 | 4,010 | 1,900 | 1,883 | 2,450 |
| EPA 415.1 | D.O.C. | mg/L | 8.1 | 4.6 | 8.1 | 6.7 | 8.5 | 5.3 | 4.3 |
| EPA 365.1 | ortho-Phosphate | mg/L | 0.12 | 0.17 | 0.17 | ND (0.05) | 0.11 | 0.95 | 0.11 |
| Field | Redox Potential(2) | mV | 348.73 | 255.87 | 299.03 | -10.27 | 127.17 | 247.13 | 247.0 |
| Field | pH(2) | pH Units | 7.39 | 7.36 | 7.26 | 7.13 | 7.06 | 7.51 | 7.44 |
| Field | Temperature(2) | °C | 24.2 | 22.2 | 23.4 | 23.5 | 23.9 | 24.1 | 23.8 |
| **Terminal Electron Acceptor Parameters** | | | | | | | | | |
| AM19GAX | D.O. | mg/L | 5.62 | 6.28 | 5.36 | 0.78 | 2.97 | 7.24 | 7.36 |
| Field | D.O.(2) | % Saturation | 69.5 | 75.2 | 53.5 | 3.0 | 24.7 | 82.0 | 68.6 |
| EPA 353.2 | Nitrite/Nitrate | mg/L | 14 | 7.7 | 15 | 5.5 | 3.7 | 11 | 6.1 |
| EPA 6010 | Iron (total) | µg/L | 2,280 | 431,000 | 2,350 | 4,620 | 47,200 | 1,730 | 142,000 |
| Field | Iron (dissolved) | µg/L | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |

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# TABLE 5.3

## WELL COMPARISON OF CHLORINATED HYDROCARBON AND NATURAL ATTENUATION PARAMETERS
(Continued)



| METHOD | PARAMETER | UNITS | IMPACTED WELLS | | | BACKGROUND WELLS(1) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | P-1 | BL-6 | P-20 | P-2 | BL-5 | P-10 | BL-8 |
| **Terminal Electron Acceptor Parameters** (Cont'd) | | | | | | | | | |
| EPA 6010 | Manganese (total) | µg/L | 35 | 7,490 | 53 | 1,370 | 642 | 29 | 1,280 |
| EPA 6010 | Manganese (dissolved) | µg/L | ND (10) | ND (10) | ND (10) | 1,440 | 38 | 13 | ND (10) |
| EPA 300.0 | Sulfate | mg/L | 313 | 72 | 95 | 427 | 7.7 | 166 | 29 |
| Field | Hydrogen Sulfide | mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AM19GAX | Carbon Dioxide | mg/L | 44.45 | 44.34 | 51.57 | 64.55 | 98.63 | 29.90 | 21.28 |
| AM19GAX | Methane | µg/L | 0.603 | 0.463 | 3.302 | 0.12 | 9.815 | 0.621 | 2.683 |
| **Degradation Products** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 200 | 331 | 667 | 896 | 485 | 367 | 770 |
| AM19GAX | Ethane | ng/L | 60 | 11 | 25 | 417 | 16 | ND (5.0) | ND (5.0) |
| AM19GAX | Ethene | ng/L | 16 | 37 | 10 | 76 | 76 | 11 | 22 |
| **Technical Quality Control Data** | | | | | | | | | |
| AM19GAX | Nitrogen | mg/L | 13.74 | 16.97 | 16.71 | 15.09 | 17.30 | 14.93 | 15.43 |
| AM19GAX | Propane/Propene | ng/L | 142 | ND (10) | 149 | 502 | ND (10) | ND (10) | ND (10) |

99-200/Rpts/DrGrWaRcFa (12/28/99/rm)

(1) Wells upgradient, sidegradient and downgradient at nondetect or at low historical levels of chlorinated hydrocarbons for the site.
(2) Specific conductivity, pH, redox potential, temperature and D.O. (field) results are averages of the last three measurements collected in the field, if more than three measurements were collected during the sampling/measurement event.

µg/L = Micrograms per liter
mg/L = Milligrams per liter
ng/L = Nanograms per liter
ND = Not detected above method detection limit. Number in parentheses is the detection or practical quantitation limit.
D.O.C. = Dissolved Organic Carbon
D.O. = Dissolved Oxygen
mV = milliVolts

PCE = Tetrachloroethene
DCE = Dichloroethene
TCA = Trichloroethane
DCA = Dichloroethane
TCE = Trichloroethene
° C = degrees Centigrade
% = percent saturation

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**DEL AMO STUDY AREA**

Trilinear Piper Diagrams

# FINAL GROUNDWATER REMEDIAL INVESTIGATION REPORT

DEL AMO STUDY AREA
LOS ANGELES, CALIFORNIA

## Volume I
## Text, Tables & Figures

FOR

SHELL OIL COMPANY

AND

THE DOW CHEMICAL COMPANY

PREPARED BY:

DAMES & MOORE

MAY 15, 1998

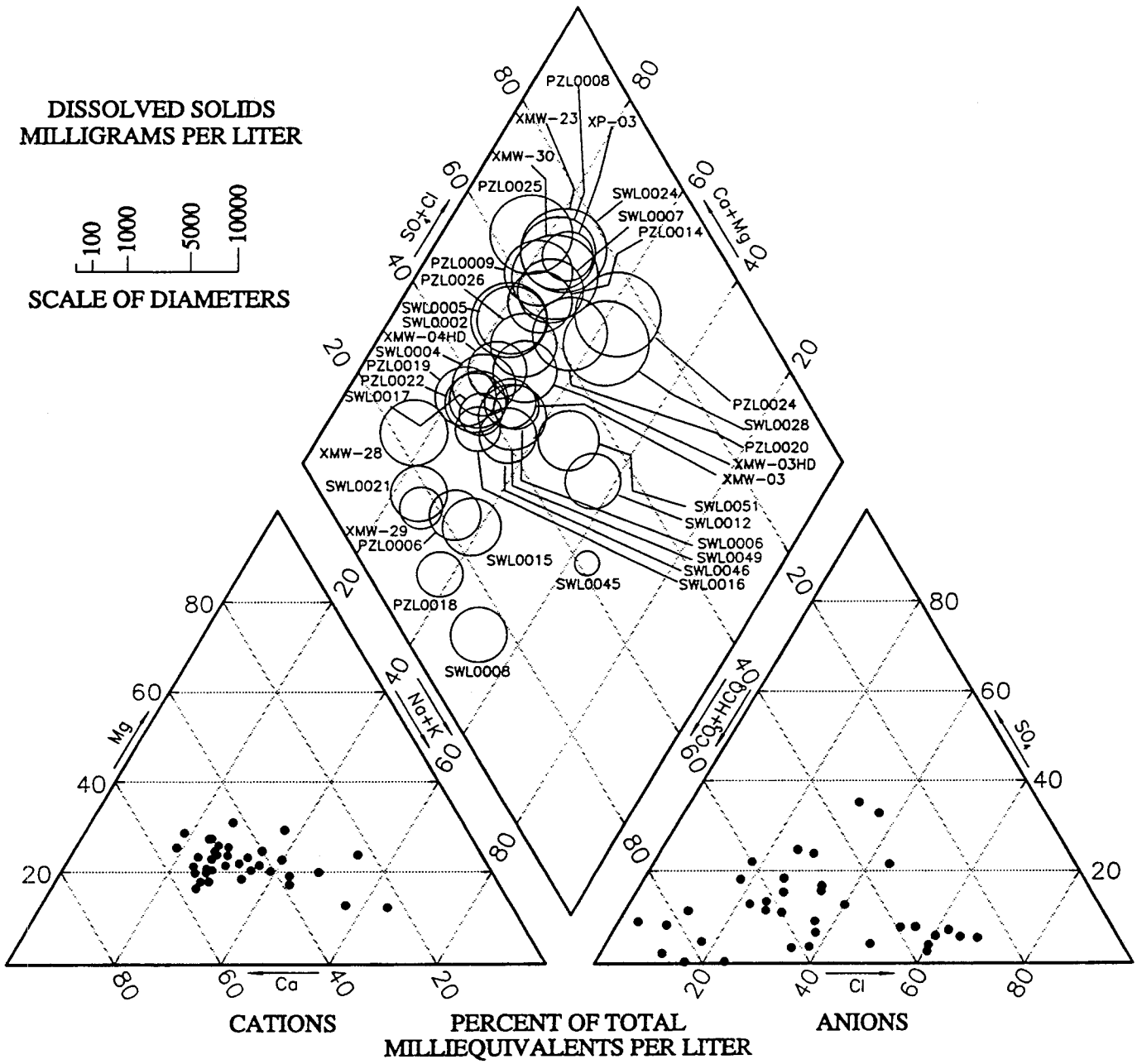


FIGURE 4.3-1

Trilinear Piper Diagram
Water Table

Groundwater Remedial Investigation Report
Del Amo Study Area

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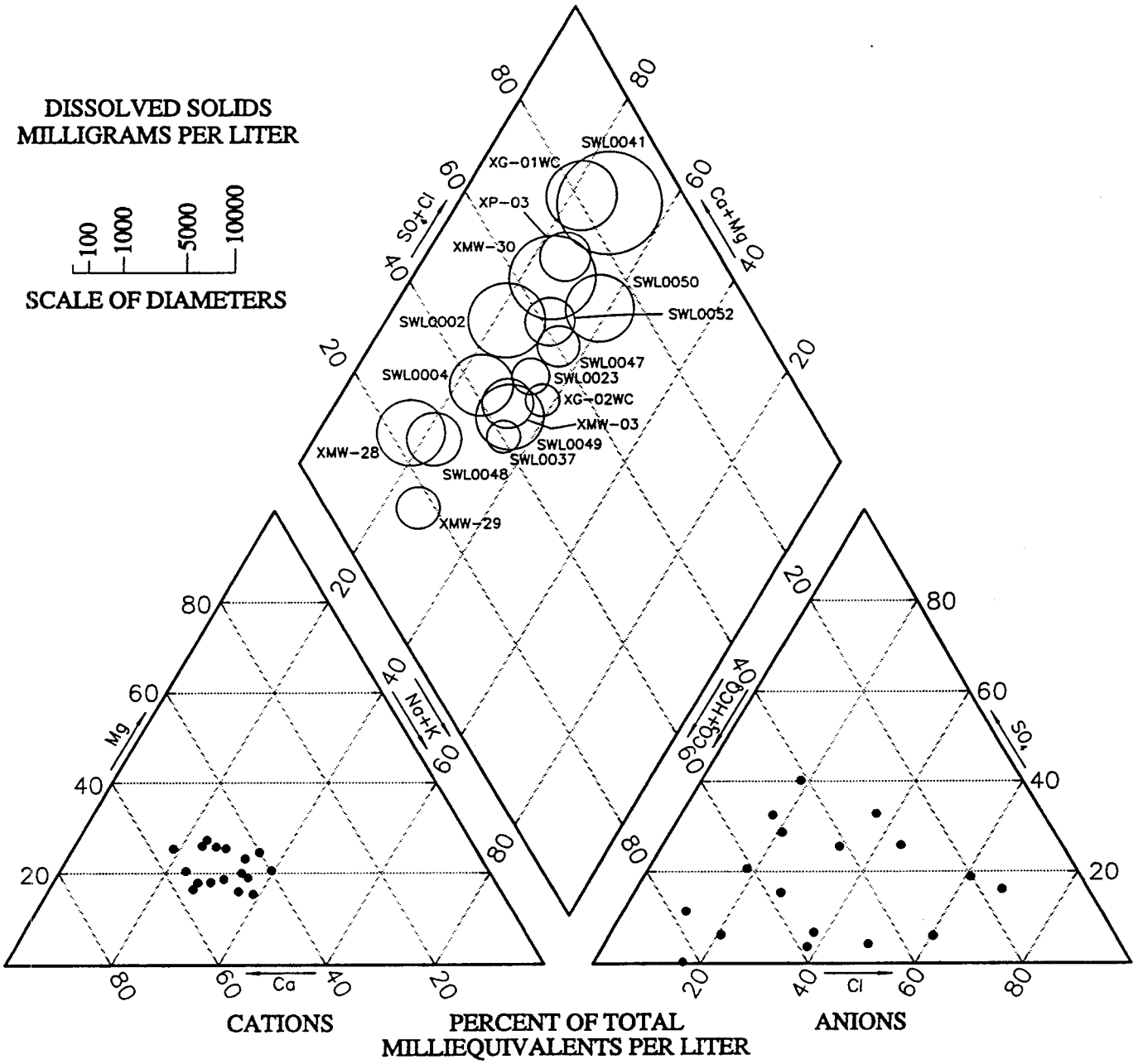


FIGURE 4.3-3

Trilinear Piper Diagram
Middle Bellflower B Sand

Groundwater Remedial Investigation Report
Del Amo Study Area

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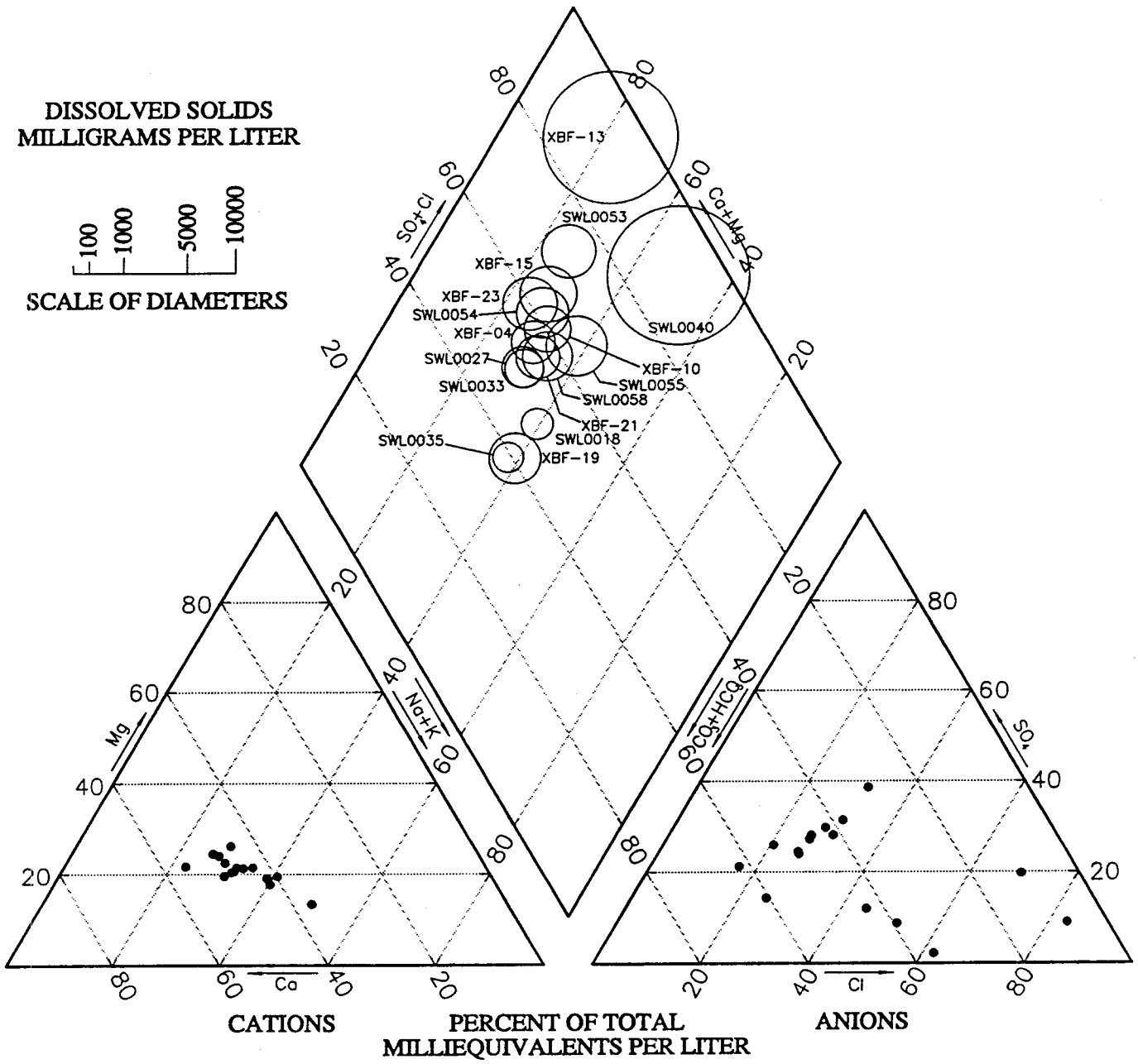


FIGURE 4.3-5

Trilinear Piper Diagram
Middle Bellflower C Sand

Groundwater Remedial Investigation Report
Del Amo Study Area

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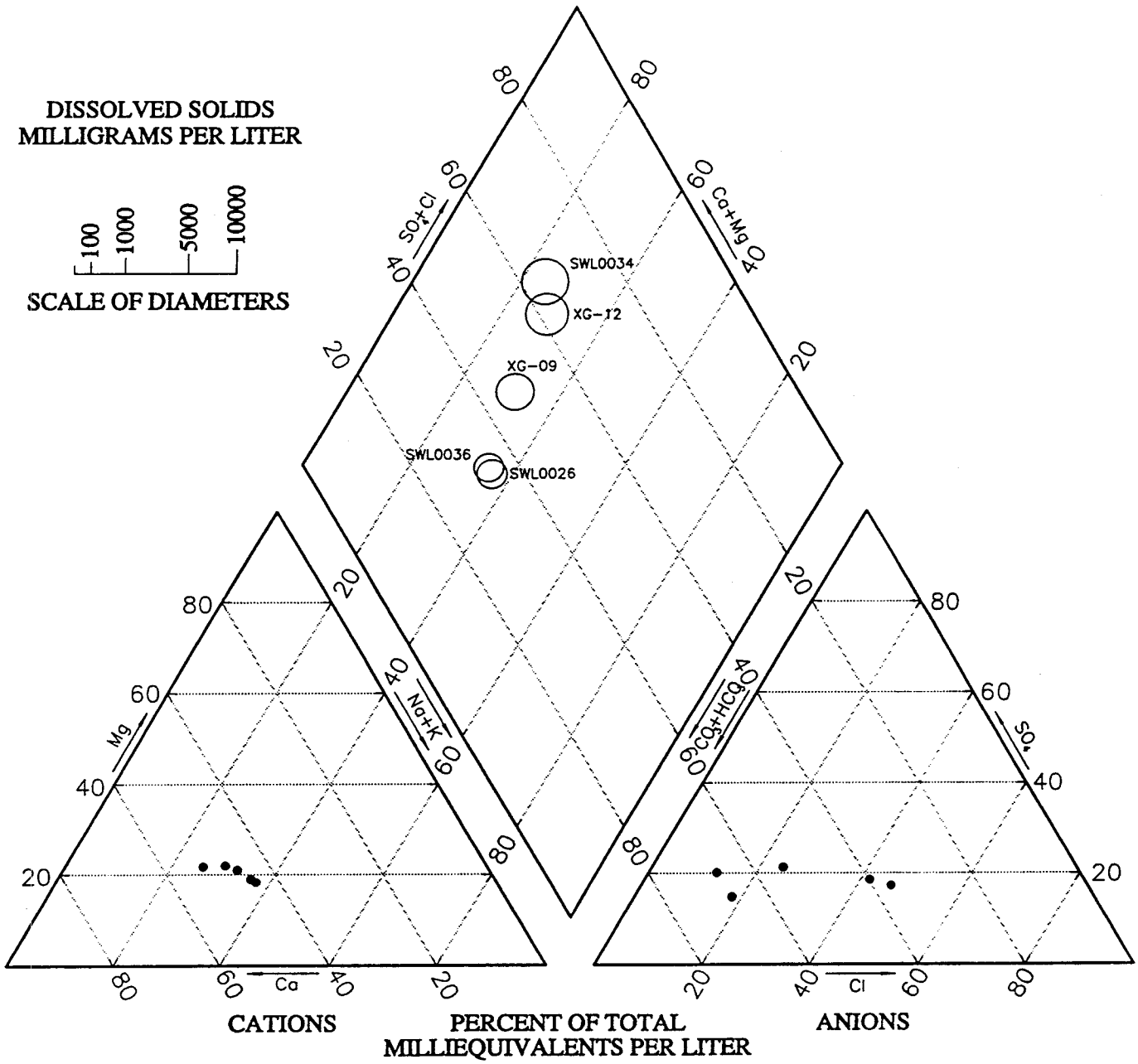


FIGURE 4.3-7

Trilinear Piper Diagram
Gage Aquifer

Groundwater Remedial Investigation Report
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